

Cover Page

Order ID : Q2832

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q2832-01
Q2832-02
Q2832-03
Q2832-04
Q2832-05
Q2832-06
Q2832-07
Q2832-08
Q2832-09
Q2832-10

Client Sample Number

TG-S01
TG-S01
TG-S02
TG-S02
TG-S03
TG-S03
TG-S04
TG-S04
TG-S05
TG-S05

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 8/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2832

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 08/21/2025

LAB CHRONICLE

OrderID:	Q2832	OrderDate:	8/12/2025 9:37:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	J21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2832-01	TG-S01	SOIL			08/11/25			08/12/25
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/14/25	
Q2832-02	TG-S01	TCLP			08/11/25			08/12/25
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-03	TG-S02	SOIL			08/11/25			08/12/25
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-04	TG-S02	TCLP			08/11/25			08/12/25
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-05	TG-S03	SOIL			08/11/25			08/12/25
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-06	TG-S03	TCLP			08/11/25			08/12/25
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-07	TG-S04	SOIL			08/11/25			08/12/25
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-08	TG-S04	TCLP			08/11/25			08/12/25
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-09	TG-S05	SOIL			08/12/25			08/12/25

LAB CHRONICLE

Q2832-10	TG-S05	TCLP	Mercury	7471B		08/13/25	08/13/25
			Metals ICP-TAL	6010D		08/12/25	08/13/25
					08/12/25		08/12/25
			TCLP ICP Metals	6010D		08/13/25	08/14/25
			TCLP Mercury	7470A		08/13/25	08/14/25

Hit Summary Sheet SW-846

SDG No.: Q2832

Order ID: Q2832

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TG-S01								
Q2832-01	TG-S01	SOIL	Aluminum	4280		0.84	5.00	mg/Kg
Q2832-01	TG-S01	SOIL	Antimony	3.49		0.22	2.50	mg/Kg
Q2832-01	TG-S01	SOIL	Arsenic	4.25		0.19	1.00	mg/Kg
Q2832-01	TG-S01	SOIL	Barium	49.3		0.73	5.00	mg/Kg
Q2832-01	TG-S01	SOIL	Beryllium	0.38		0.025	0.30	mg/Kg
Q2832-01	TG-S01	SOIL	Cadmium	0.67		0.024	0.30	mg/Kg
Q2832-01	TG-S01	SOIL	Calcium	3530		11.1	100	mg/Kg
Q2832-01	TG-S01	SOIL	Chromium	14.9		0.047	0.50	mg/Kg
Q2832-01	TG-S01	SOIL	Cobalt	6.14		0.10	1.50	mg/Kg
Q2832-01	TG-S01	SOIL	Copper	41.6		0.22	1.00	mg/Kg
Q2832-01	TG-S01	SOIL	Iron	12900		3.99	5.00	mg/Kg
Q2832-01	TG-S01	SOIL	Lead	176		0.13	0.60	mg/Kg
Q2832-01	TG-S01	SOIL	Magnesium	2060		12.0	100	mg/Kg
Q2832-01	TG-S01	SOIL	Manganese	184		0.14	1.00	mg/Kg
Q2832-01	TG-S01	SOIL	Mercury	1.41	D	0.037	0.067	mg/Kg
Q2832-01	TG-S01	SOIL	Nickel	15.2		0.13	2.00	mg/Kg
Q2832-01	TG-S01	SOIL	Potassium	514		27.7	100	mg/Kg
Q2832-01	TG-S01	SOIL	Selenium	0.30	J	0.26	1.00	mg/Kg
Q2832-01	TG-S01	SOIL	Silver	0.55		0.12	0.50	mg/Kg
Q2832-01	TG-S01	SOIL	Sodium	138		17.8	100	mg/Kg
Q2832-01	TG-S01	SOIL	Vanadium	15.0		0.25	2.00	mg/Kg
Q2832-01	TG-S01	SOIL	Zinc	76.3		0.23	2.00	mg/Kg
Client ID : TG-S02								
Q2832-03	TG-S02	SOIL	Aluminum	5370		0.84	5.02	mg/Kg
Q2832-03	TG-S02	SOIL	Antimony	0.39	J	0.22	2.51	mg/Kg
Q2832-03	TG-S02	SOIL	Arsenic	8.16		0.19	1.00	mg/Kg
Q2832-03	TG-S02	SOIL	Barium	67.4		0.73	5.02	mg/Kg
Q2832-03	TG-S02	SOIL	Beryllium	0.51		0.025	0.30	mg/Kg
Q2832-03	TG-S02	SOIL	Cadmium	1.08		0.024	0.30	mg/Kg
Q2832-03	TG-S02	SOIL	Calcium	4580		11.1	100	mg/Kg
Q2832-03	TG-S02	SOIL	Chromium	17.8		0.047	0.50	mg/Kg
Q2832-03	TG-S02	SOIL	Cobalt	8.23		0.10	1.51	mg/Kg
Q2832-03	TG-S02	SOIL	Copper	71.0		0.22	1.00	mg/Kg
Q2832-03	TG-S02	SOIL	Iron	18800		4.00	5.02	mg/Kg
Q2832-03	TG-S02	SOIL	Lead	146		0.13	0.60	mg/Kg
Q2832-03	TG-S02	SOIL	Magnesium	3450		12.0	100	mg/Kg
Q2832-03	TG-S02	SOIL	Manganese	233		0.14	1.00	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2832

Order ID: Q2832

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2832-03	TG-S02	SOIL	Mercury	0.35		0.0080	0.014	mg/Kg
Q2832-03	TG-S02	SOIL	Nickel	21.6		0.13	2.01	mg/Kg
Q2832-03	TG-S02	SOIL	Potassium	848		27.8	100	mg/Kg
Q2832-03	TG-S02	SOIL	Selenium	0.57	J	0.26	1.00	mg/Kg
Q2832-03	TG-S02	SOIL	Silver	0.77		0.12	0.50	mg/Kg
Q2832-03	TG-S02	SOIL	Sodium	156		17.9	100	mg/Kg
Q2832-03	TG-S02	SOIL	Vanadium	23.0		0.25	2.01	mg/Kg
Q2832-03	TG-S02	SOIL	Zinc	120		0.23	2.01	mg/Kg
Client ID : TG-S03								
Q2832-05	TG-S03	SOIL	Aluminum	5880		0.81	4.85	mg/Kg
Q2832-05	TG-S03	SOIL	Antimony	1.62	J	0.21	2.42	mg/Kg
Q2832-05	TG-S03	SOIL	Arsenic	10.3		0.18	0.97	mg/Kg
Q2832-05	TG-S03	SOIL	Barium	77.1		0.71	4.85	mg/Kg
Q2832-05	TG-S03	SOIL	Beryllium	0.63		0.024	0.29	mg/Kg
Q2832-05	TG-S03	SOIL	Cadmium	1.84		0.023	0.29	mg/Kg
Q2832-05	TG-S03	SOIL	Calcium	5360		10.8	96.9	mg/Kg
Q2832-05	TG-S03	SOIL	Chromium	27.4		0.046	0.49	mg/Kg
Q2832-05	TG-S03	SOIL	Cobalt	13.7		0.097	1.45	mg/Kg
Q2832-05	TG-S03	SOIL	Copper	130		0.21	0.97	mg/Kg
Q2832-05	TG-S03	SOIL	Iron	22300		3.87	4.85	mg/Kg
Q2832-05	TG-S03	SOIL	Lead	208		0.13	0.58	mg/Kg
Q2832-05	TG-S03	SOIL	Magnesium	2870		11.6	96.9	mg/Kg
Q2832-05	TG-S03	SOIL	Manganese	282		0.14	0.97	mg/Kg
Q2832-05	TG-S03	SOIL	Mercury	0.49		0.0070	0.013	mg/Kg
Q2832-05	TG-S03	SOIL	Nickel	44.9		0.13	1.94	mg/Kg
Q2832-05	TG-S03	SOIL	Potassium	816		26.8	96.9	mg/Kg
Q2832-05	TG-S03	SOIL	Selenium	0.68	J	0.25	0.97	mg/Kg
Q2832-05	TG-S03	SOIL	Silver	0.95		0.12	0.49	mg/Kg
Q2832-05	TG-S03	SOIL	Sodium	170		17.3	96.9	mg/Kg
Q2832-05	TG-S03	SOIL	Vanadium	29.9		0.24	1.94	mg/Kg
Q2832-05	TG-S03	SOIL	Zinc	220		0.22	1.94	mg/Kg
Client ID : TG-S04								
Q2832-07	TG-S04	SOIL	Aluminum	6050		0.82	4.86	mg/Kg
Q2832-07	TG-S04	SOIL	Antimony	2.55		0.21	2.43	mg/Kg
Q2832-07	TG-S04	SOIL	Arsenic	14.0		0.19	0.97	mg/Kg
Q2832-07	TG-S04	SOIL	Barium	137		0.71	4.86	mg/Kg
Q2832-07	TG-S04	SOIL	Beryllium	0.90		0.024	0.29	mg/Kg
Q2832-07	TG-S04	SOIL	Cadmium	2.65		0.023	0.29	mg/Kg
Q2832-07	TG-S04	SOIL	Calcium	5510		10.8	97.2	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2832

Order ID: Q2832

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2832-07	TG-S04	SOIL	Chromium	128		0.046	0.49	mg/Kg
Q2832-07	TG-S04	SOIL	Cobalt	29.7		0.097	1.46	mg/Kg
Q2832-07	TG-S04	SOIL	Copper	235		0.21	0.97	mg/Kg
Q2832-07	TG-S04	SOIL	Iron	29500		3.88	4.86	mg/Kg
Q2832-07	TG-S04	SOIL	Lead	250		0.13	0.58	mg/Kg
Q2832-07	TG-S04	SOIL	Magnesium	3680		11.7	97.2	mg/Kg
Q2832-07	TG-S04	SOIL	Manganese	326		0.14	0.97	mg/Kg
Q2832-07	TG-S04	SOIL	Mercury	0.44		0.0070	0.013	mg/Kg
Q2832-07	TG-S04	SOIL	Nickel	152		0.13	1.94	mg/Kg
Q2832-07	TG-S04	SOIL	Potassium	934		26.9	97.2	mg/Kg
Q2832-07	TG-S04	SOIL	Selenium	1.05		0.25	0.97	mg/Kg
Q2832-07	TG-S04	SOIL	Silver	1.19		0.12	0.49	mg/Kg
Q2832-07	TG-S04	SOIL	Sodium	295		17.3	97.2	mg/Kg
Q2832-07	TG-S04	SOIL	Vanadium	57.2		0.24	1.94	mg/Kg
Q2832-07	TG-S04	SOIL	Zinc	334		0.22	1.94	mg/Kg
Client ID : TG-S05								
Q2832-09	TG-S05	SOIL	Aluminum	3310		0.79	4.68	mg/Kg
Q2832-09	TG-S05	SOIL	Antimony	7.25		0.21	2.34	mg/Kg
Q2832-09	TG-S05	SOIL	Arsenic	23.7		0.18	0.94	mg/Kg
Q2832-09	TG-S05	SOIL	Barium	217		0.68	4.68	mg/Kg
Q2832-09	TG-S05	SOIL	Beryllium	0.83		0.023	0.28	mg/Kg
Q2832-09	TG-S05	SOIL	Cadmium	1.71		0.022	0.28	mg/Kg
Q2832-09	TG-S05	SOIL	Calcium	4400		10.4	93.6	mg/Kg
Q2832-09	TG-S05	SOIL	Chromium	40.4		0.044	0.47	mg/Kg
Q2832-09	TG-S05	SOIL	Cobalt	7.36		0.094	1.40	mg/Kg
Q2832-09	TG-S05	SOIL	Copper	206		0.21	0.94	mg/Kg
Q2832-09	TG-S05	SOIL	Iron	35300		3.74	4.68	mg/Kg
Q2832-09	TG-S05	SOIL	Lead	544		0.12	0.56	mg/Kg
Q2832-09	TG-S05	SOIL	Magnesium	1030		11.2	93.6	mg/Kg
Q2832-09	TG-S05	SOIL	Manganese	162		0.13	0.94	mg/Kg
Q2832-09	TG-S05	SOIL	Mercury	0.70		0.0080	0.015	mg/Kg
Q2832-09	TG-S05	SOIL	Nickel	26.0		0.12	1.87	mg/Kg
Q2832-09	TG-S05	SOIL	Potassium	479		25.9	93.6	mg/Kg
Q2832-09	TG-S05	SOIL	Selenium	2.73		0.24	0.94	mg/Kg
Q2832-09	TG-S05	SOIL	Silver	1.19		0.11	0.47	mg/Kg
Q2832-09	TG-S05	SOIL	Sodium	162		16.7	93.6	mg/Kg
Q2832-09	TG-S05	SOIL	Vanadium	28.5		0.23	1.87	mg/Kg
Q2832-09	TG-S05	SOIL	Zinc	118		0.22	1.87	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2832

Order ID: Q2832

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
-----------	-----------	--------	-----------	---------------	---	-----	-----	-------



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4280		1	0.84	5.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-36-0	Antimony	3.49		1	0.22	2.50	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-38-2	Arsenic	4.25		1	0.19	1.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-39-3	Barium	49.3		1	0.73	5.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-41-7	Beryllium	0.38		1	0.025	0.30	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-43-9	Cadmium	0.67		1	0.024	0.30	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-70-2	Calcium	3530		1	11.1	100	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-47-3	Chromium	14.9	N	1	0.047	0.50	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-48-4	Cobalt	6.14		1	0.10	1.50	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-50-8	Copper	41.6		1	0.22	1.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7439-89-6	Iron	12900		1	3.99	5.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7439-92-1	Lead	176		1	0.13	0.60	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7439-95-4	Magnesium	2060		1	12.0	100	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7439-96-5	Manganese	184	*	1	0.14	1.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7439-97-6	Mercury	1.41	DN*5		0.037	0.067	mg/Kg	08/13/25 10:30	08/13/25 15:44	7471B	
7440-02-0	Nickel	15.2		1	0.13	2.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-09-7	Potassium	514		1	27.7	100	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7782-49-2	Selenium	0.30	J	1	0.26	1.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-22-4	Silver	0.55		1	0.12	0.50	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-23-5	Sodium	138	N	1	17.8	100	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-62-2	Vanadium	15.0	N	1	0.25	2.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050
7440-66-6	Zinc	76.3		1	0.23	2.00	mg/Kg	08/12/25 13:05	08/14/25 12:59	6010D	SW3050

Color Before:	Dark Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5370		1	0.84	5.02	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-36-0	Antimony	0.39	J	1	0.22	2.51	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-38-2	Arsenic	8.16		1	0.19	1.00	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-39-3	Barium	67.4		1	0.73	5.02	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-41-7	Beryllium	0.51		1	0.025	0.30	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-43-9	Cadmium	1.08		1	0.024	0.30	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-70-2	Calcium	4580		1	11.1	100	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-47-3	Chromium	17.8	N	1	0.047	0.50	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-48-4	Cobalt	8.23		1	0.10	1.51	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-50-8	Copper	71.0		1	0.22	1.00	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7439-89-6	Iron	18800		1	4.00	5.02	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7439-92-1	Lead	146		1	0.13	0.60	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7439-95-4	Magnesium	3450		1	12.0	100	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7439-96-5	Manganese	233	*	1	0.14	1.00	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7439-97-6	Mercury	0.35	N*	1	0.0080	0.014	mg/Kg	08/13/25 10:30	08/13/25 15:02	7471B	
7440-02-0	Nickel	21.6		1	0.13	2.01	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-09-7	Potassium	848		1	27.8	100	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7782-49-2	Selenium	0.57	J	1	0.26	1.00	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-22-4	Silver	0.77		1	0.12	0.50	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-23-5	Sodium	156	N	1	17.9	100	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.01	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-62-2	Vanadium	23.0	N	1	0.25	2.01	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050
7440-66-6	Zinc	120		1	0.23	2.01	mg/Kg	08/12/25 13:05	08/13/25 17:25	6010D	SW3050

Color Before:	Dark Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5880		1	0.81	4.85	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-36-0	Antimony	1.62	J	1	0.21	2.42	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-38-2	Arsenic	10.3		1	0.18	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-39-3	Barium	77.1		1	0.71	4.85	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-41-7	Beryllium	0.63		1	0.024	0.29	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-43-9	Cadmium	1.84		1	0.023	0.29	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-70-2	Calcium	5360		1	10.8	96.9	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-47-3	Chromium	27.4	N	1	0.046	0.49	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-48-4	Cobalt	13.7		1	0.097	1.45	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-50-8	Copper	130		1	0.21	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7439-89-6	Iron	22300		1	3.87	4.85	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7439-92-1	Lead	208		1	0.13	0.58	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7439-95-4	Magnesium	2870		1	11.6	96.9	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7439-96-5	Manganese	282	*	1	0.14	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7439-97-6	Mercury	0.49	N*	1	0.0070	0.013	mg/Kg	08/13/25 10:30	08/13/25 15:05	7471B	
7440-02-0	Nickel	44.9		1	0.13	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-09-7	Potassium	816		1	26.8	96.9	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7782-49-2	Selenium	0.68	J	1	0.25	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-22-4	Silver	0.95		1	0.12	0.49	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-23-5	Sodium	170	N	1	17.3	96.9	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-62-2	Vanadium	29.9	N	1	0.24	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050
7440-66-6	Zinc	220		1	0.22	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:29	6010D	SW3050

Color Before: Dark Brown

Clarity Before:

Texture: Medium

Color After: Yellow

Clarity After:

Artifacts:

Comments: METALS-TAL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6050		1	0.82	4.86	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-36-0	Antimony	2.55		1	0.21	2.43	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-38-2	Arsenic	14.0		1	0.19	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-39-3	Barium	137		1	0.71	4.86	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-41-7	Beryllium	0.90		1	0.024	0.29	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-43-9	Cadmium	2.65		1	0.023	0.29	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-70-2	Calcium	5510		1	10.8	97.2	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-47-3	Chromium	128	N	1	0.046	0.49	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-48-4	Cobalt	29.7		1	0.097	1.46	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-50-8	Copper	235		1	0.21	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7439-89-6	Iron	29500		1	3.88	4.86	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7439-92-1	Lead	250		1	0.13	0.58	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7439-95-4	Magnesium	3680		1	11.7	97.2	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7439-96-5	Manganese	326	*	1	0.14	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7439-97-6	Mercury	0.44	N*	1	0.0070	0.013	mg/Kg	08/13/25 10:30	08/13/25 15:08	7471B	
7440-02-0	Nickel	152		1	0.13	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-09-7	Potassium	934		1	26.9	97.2	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7782-49-2	Selenium	1.05		1	0.25	0.97	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-22-4	Silver	1.19		1	0.12	0.49	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-23-5	Sodium	295	N	1	17.3	97.2	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-62-2	Vanadium	57.2	N	1	0.24	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050
7440-66-6	Zinc	334		1	0.22	1.94	mg/Kg	08/12/25 13:05	08/13/25 17:33	6010D	SW3050

Color Before:	Dark Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3310		1	0.79	4.68	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-36-0	Antimony	7.25		1	0.21	2.34	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-38-2	Arsenic	23.7		1	0.18	0.94	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-39-3	Barium	217		1	0.68	4.68	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-41-7	Beryllium	0.83		1	0.023	0.28	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-43-9	Cadmium	1.71		1	0.022	0.28	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-70-2	Calcium	4400		1	10.4	93.6	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-47-3	Chromium	40.4	N	1	0.044	0.47	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-48-4	Cobalt	7.36		1	0.094	1.40	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-50-8	Copper	206		1	0.21	0.94	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7439-89-6	Iron	35300		1	3.74	4.68	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7439-92-1	Lead	544		1	0.12	0.56	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7439-95-4	Magnesium	1030		1	11.2	93.6	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7439-96-5	Manganese	162	*	1	0.13	0.94	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7439-97-6	Mercury	0.70	N*	1	0.0080	0.015	mg/Kg	08/13/25 10:30	08/13/25 15:11	7471B	
7440-02-0	Nickel	26.0		1	0.12	1.87	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-09-7	Potassium	479		1	25.9	93.6	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7782-49-2	Selenium	2.73		1	0.24	0.94	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-22-4	Silver	1.19		1	0.11	0.47	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-23-5	Sodium	162	N	1	16.7	93.6	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.87	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-62-2	Vanadium	28.5	N	1	0.23	1.87	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050
7440-66-6	Zinc	118		1	0.22	1.87	mg/Kg	08/12/25 13:05	08/13/25 16:52	6010D	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV13	Mercury	3.94	4.0	98	90 - 110	CV	08/13/2025	14:39	LB136799

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV38	Mercury	4.98	5.0	100	90 - 110	CV	08/13/2025	14:44	LB136799
CCV39	Mercury	4.88	5.0	98	90 - 110	CV	08/13/2025	15:13	LB136799
CCV40	Mercury	4.76	5.0	95	90 - 110	CV	08/13/2025	15:47	LB136799

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7680	8000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Antimony	4000	4000	100	90 - 110	P	08/13/2025	12:21	LB136801
	Arsenic	3870	4000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Barium	7790	8000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Beryllium	189	200	95	90 - 110	P	08/13/2025	12:21	LB136801
	Cadmium	1920	2000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Calcium	19200	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Chromium	788	800	98	90 - 110	P	08/13/2025	12:21	LB136801
	Cobalt	1950	2000	98	90 - 110	P	08/13/2025	12:21	LB136801
	Copper	997	1000	100	90 - 110	P	08/13/2025	12:21	LB136801
	Iron	3950	4000	99	90 - 110	P	08/13/2025	12:21	LB136801
	Lead	3770	4000	94	90 - 110	P	08/13/2025	12:21	LB136801
	Magnesium	19100	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Manganese	1920	2000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Nickel	1950	2000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Potassium	19400	20000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Selenium	3880	4000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Silver	1030	1000	103	90 - 110	P	08/13/2025	12:21	LB136801
	Sodium	19100	20000	96	90 - 110	P	08/13/2025	12:21	LB136801
	Thallium	3750	4000	94	90 - 110	P	08/13/2025	12:21	LB136801
	Vanadium	1940	2000	97	90 - 110	P	08/13/2025	12:21	LB136801
	Zinc	1950	2000	98	90 - 110	P	08/13/2025	12:21	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	95.1	100	95	80 - 120	P	08/13/2025	12:28	LB136801
	Antimony	50.1	50.0	100	80 - 120	P	08/13/2025	12:28	LB136801
	Arsenic	21.3	20.0	106	80 - 120	P	08/13/2025	12:28	LB136801
	Barium	94.7	100	95	80 - 120	P	08/13/2025	12:28	LB136801
	Beryllium	6.08	6.0	101	80 - 120	P	08/13/2025	12:28	LB136801
	Cadmium	5.59	6.0	93	80 - 120	P	08/13/2025	12:28	LB136801
	Calcium	2040	2000	102	80 - 120	P	08/13/2025	12:28	LB136801
	Chromium	10.5	10.0	105	80 - 120	P	08/13/2025	12:28	LB136801
	Cobalt	29.4	30.0	98	80 - 120	P	08/13/2025	12:28	LB136801
	Copper	21.3	20.0	107	80 - 120	P	08/13/2025	12:28	LB136801
	Iron	107	100	107	80 - 120	P	08/13/2025	12:28	LB136801
	Lead	11.2	12.0	93	80 - 120	P	08/13/2025	12:28	LB136801
	Magnesium	2120	2000	106	80 - 120	P	08/13/2025	12:28	LB136801
	Manganese	21.0	20.0	105	80 - 120	P	08/13/2025	12:28	LB136801
	Nickel	39.6	40.0	99	80 - 120	P	08/13/2025	12:28	LB136801
	Potassium	1990	2000	100	80 - 120	P	08/13/2025	12:28	LB136801
	Selenium	19.2	20.0	96	80 - 120	P	08/13/2025	12:28	LB136801
	Silver	10.1	10.0	101	80 - 120	P	08/13/2025	12:28	LB136801
	Sodium	1850	2000	92	80 - 120	P	08/13/2025	12:28	LB136801
	Thallium	43.0	40.0	107	80 - 120	P	08/13/2025	12:28	LB136801
	Vanadium	38.9	40.0	97	80 - 120	P	08/13/2025	12:28	LB136801
	Zinc	42.4	40.0	106	80 - 120	P	08/13/2025	12:28	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9630	10000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Antimony	4930	5000	99	90 - 110	P	08/13/2025	12:58	LB136801
	Arsenic	4900	5000	98	90 - 110	P	08/13/2025	12:58	LB136801
	Barium	9640	10000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Beryllium	240	250	96	90 - 110	P	08/13/2025	12:58	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Chromium	1000	1000	100	90 - 110	P	08/13/2025	12:58	LB136801
	Cobalt	2420	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Copper	1230	1250	98	90 - 110	P	08/13/2025	12:58	LB136801
	Iron	5030	5000	101	90 - 110	P	08/13/2025	12:58	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	12:58	LB136801
	Magnesium	24000	25000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	12:58	LB136801
	Nickel	2430	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Potassium	25000	25000	100	90 - 110	P	08/13/2025	12:58	LB136801
	Selenium	4930	5000	98	90 - 110	P	08/13/2025	12:58	LB136801
	Silver	1230	1250	99	90 - 110	P	08/13/2025	12:58	LB136801
	Sodium	24600	25000	99	90 - 110	P	08/13/2025	12:58	LB136801
	Thallium	4820	5000	96	90 - 110	P	08/13/2025	12:58	LB136801
	Vanadium	2420	2500	97	90 - 110	P	08/13/2025	12:58	LB136801
	Zinc	2490	2500	99	90 - 110	P	08/13/2025	12:58	LB136801
CCV02	Aluminum	9700	10000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Antimony	4970	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Arsenic	4950	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Barium	9660	10000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Beryllium	240	250	96	90 - 110	P	08/13/2025	13:42	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Calcium	24200	25000	97	90 - 110	P	08/13/2025	13:42	LB136801
	Chromium	987	1000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Copper	1230	1250	99	90 - 110	P	08/13/2025	13:42	LB136801
	Iron	4980	5000	100	90 - 110	P	08/13/2025	13:42	LB136801
	Lead	4850	5000	97	90 - 110	P	08/13/2025	13:42	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24100	25000	96	90 - 110	P	08/13/2025	13:42	LB136801
	Manganese	2420	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Nickel	2430	2500	97	90 - 110	P	08/13/2025	13:42	LB136801
	Potassium	24600	25000	98	90 - 110	P	08/13/2025	13:42	LB136801
	Selenium	4980	5000	100	90 - 110	P	08/13/2025	13:42	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	13:42	LB136801
	Sodium	24100	25000	96	90 - 110	P	08/13/2025	13:42	LB136801
	Thallium	4960	5000	99	90 - 110	P	08/13/2025	13:42	LB136801
	Vanadium	2450	2500	98	90 - 110	P	08/13/2025	13:42	LB136801
	Zinc	2460	2500	98	90 - 110	P	08/13/2025	13:42	LB136801
CCV03	Aluminum	9650	10000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Antimony	5020	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Arsenic	4990	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Barium	9670	10000	97	90 - 110	P	08/13/2025	14:33	LB136801
	Beryllium	238	250	95	90 - 110	P	08/13/2025	14:33	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	14:33	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Chromium	993	1000	99	90 - 110	P	08/13/2025	14:33	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	14:33	LB136801
	Copper	1240	1250	99	90 - 110	P	08/13/2025	14:33	LB136801
	Iron	5010	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	14:33	LB136801
	Magnesium	23900	25000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	14:33	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	14:33	LB136801
	Potassium	24700	25000	99	90 - 110	P	08/13/2025	14:33	LB136801
	Selenium	5020	5000	100	90 - 110	P	08/13/2025	14:33	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	14:33	LB136801
	Sodium	23300	25000	93	90 - 110	P	08/13/2025	14:33	LB136801
	Thallium	4820	5000	96	90 - 110	P	08/13/2025	14:33	LB136801
	Vanadium	2450	2500	98	90 - 110	P	08/13/2025	14:33	LB136801
	Zinc	2480	2500	99	90 - 110	P	08/13/2025	14:33	LB136801
CCV04	Aluminum	9760	10000	98	90 - 110	P	08/13/2025	15:23	LB136801
	Antimony	5060	5000	101	90 - 110	P	08/13/2025	15:23	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5010	5000	100	90 - 110	P	08/13/2025	15:23	LB136801
	Barium	9660	10000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Beryllium	239	250	96	90 - 110	P	08/13/2025	15:23	LB136801
	Cadmium	2430	2500	97	90 - 110	P	08/13/2025	15:23	LB136801
	Calcium	24300	25000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Chromium	991	1000	99	90 - 110	P	08/13/2025	15:23	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	15:23	LB136801
	Copper	1240	1250	99	90 - 110	P	08/13/2025	15:23	LB136801
	Iron	5000	5000	100	90 - 110	P	08/13/2025	15:23	LB136801
	Lead	4860	5000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Magnesium	24200	25000	97	90 - 110	P	08/13/2025	15:23	LB136801
	Manganese	2390	2500	96	90 - 110	P	08/13/2025	15:23	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	15:23	LB136801
	Potassium	24700	25000	99	90 - 110	P	08/13/2025	15:23	LB136801
	Selenium	5070	5000	101	90 - 110	P	08/13/2025	15:23	LB136801
	Silver	1240	1250	99	90 - 110	P	08/13/2025	15:23	LB136801
	Sodium	23700	25000	95	90 - 110	P	08/13/2025	15:23	LB136801
	Thallium	4760	5000	95	90 - 110	P	08/13/2025	15:23	LB136801
	Vanadium	2470	2500	99	90 - 110	P	08/13/2025	15:23	LB136801
	Zinc	2500	2500	100	90 - 110	P	08/13/2025	15:23	LB136801
CCV05	Aluminum	9690	10000	97	90 - 110	P	08/13/2025	16:14	LB136801
	Antimony	5090	5000	102	90 - 110	P	08/13/2025	16:14	LB136801
	Arsenic	5010	5000	100	90 - 110	P	08/13/2025	16:14	LB136801
	Barium	9840	10000	98	90 - 110	P	08/13/2025	16:14	LB136801
	Beryllium	235	250	94	90 - 110	P	08/13/2025	16:14	LB136801
	Cadmium	2400	2500	96	90 - 110	P	08/13/2025	16:14	LB136801
	Calcium	24100	25000	96	90 - 110	P	08/13/2025	16:14	LB136801
	Chromium	991	1000	99	90 - 110	P	08/13/2025	16:14	LB136801
	Cobalt	2420	2500	97	90 - 110	P	08/13/2025	16:14	LB136801
	Copper	1240	1250	100	90 - 110	P	08/13/2025	16:14	LB136801
	Iron	5090	5000	102	90 - 110	P	08/13/2025	16:14	LB136801
	Lead	4810	5000	96	90 - 110	P	08/13/2025	16:14	LB136801
	Magnesium	23800	25000	95	90 - 110	P	08/13/2025	16:14	LB136801
	Manganese	2380	2500	95	90 - 110	P	08/13/2025	16:14	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2430	2500	97	90 - 110	P	08/13/2025	16:14	LB136801
	Potassium	25000	25000	100	90 - 110	P	08/13/2025	16:14	LB136801
	Selenium	5070	5000	101	90 - 110	P	08/13/2025	16:14	LB136801
	Silver	1250	1250	100	90 - 110	P	08/13/2025	16:14	LB136801
	Sodium	23800	25000	95	90 - 110	P	08/13/2025	16:14	LB136801
	Thallium	4540	5000	91	90 - 110	P	08/13/2025	16:14	LB136801
	Vanadium	2460	2500	98	90 - 110	P	08/13/2025	16:14	LB136801
	Zinc	2510	2500	101	90 - 110	P	08/13/2025	16:14	LB136801
CCV06	Aluminum	9690	10000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Antimony	5110	5000	102	90 - 110	P	08/13/2025	17:05	LB136801
	Arsenic	5040	5000	101	90 - 110	P	08/13/2025	17:05	LB136801
	Barium	9810	10000	98	90 - 110	P	08/13/2025	17:05	LB136801
	Beryllium	238	250	95	90 - 110	P	08/13/2025	17:05	LB136801
	Cadmium	2420	2500	97	90 - 110	P	08/13/2025	17:05	LB136801
	Calcium	24100	25000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Chromium	988	1000	99	90 - 110	P	08/13/2025	17:05	LB136801
	Cobalt	2430	2500	97	90 - 110	P	08/13/2025	17:05	LB136801
	Copper	1250	1250	100	90 - 110	P	08/13/2025	17:05	LB136801
	Iron	5070	5000	102	90 - 110	P	08/13/2025	17:05	LB136801
	Lead	4850	5000	97	90 - 110	P	08/13/2025	17:05	LB136801
	Magnesium	24000	25000	96	90 - 110	P	08/13/2025	17:05	LB136801
	Manganese	2400	2500	96	90 - 110	P	08/13/2025	17:05	LB136801
	Nickel	2440	2500	98	90 - 110	P	08/13/2025	17:05	LB136801
	Potassium	24800	25000	99	90 - 110	P	08/13/2025	17:05	LB136801
	Selenium	5150	5000	103	90 - 110	P	08/13/2025	17:05	LB136801
	Silver	1260	1250	100	90 - 110	P	08/13/2025	17:05	LB136801
	Sodium	23300	25000	93	90 - 110	P	08/13/2025	17:05	LB136801
	Thallium	5380	5000	108	90 - 110	P	08/13/2025	17:05	LB136801
	Vanadium	2460	2500	98	90 - 110	P	08/13/2025	17:05	LB136801
	Zinc	2520	2500	101	90 - 110	P	08/13/2025	17:05	LB136801
CCV07	Aluminum	9840	10000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Antimony	5120	5000	102	90 - 110	P	08/13/2025	17:46	LB136801
	Arsenic	5060	5000	101	90 - 110	P	08/13/2025	17:46	LB136801
	Barium	9850	10000	98	90 - 110	P	08/13/2025	17:46	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	241	250	96	90 - 110	P	08/13/2025	17:46	LB136801
	Cadmium	2440	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Calcium	24600	25000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Chromium	1010	1000	101	90 - 110	P	08/13/2025	17:46	LB136801
	Cobalt	2450	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Copper	1250	1250	100	90 - 110	P	08/13/2025	17:46	LB136801
	Iron	5140	5000	103	90 - 110	P	08/13/2025	17:46	LB136801
	Lead	4880	5000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Magnesium	24400	25000	98	90 - 110	P	08/13/2025	17:46	LB136801
	Manganese	2430	2500	97	90 - 110	P	08/13/2025	17:46	LB136801
	Nickel	2460	2500	98	90 - 110	P	08/13/2025	17:46	LB136801
	Potassium	24800	25000	99	90 - 110	P	08/13/2025	17:46	LB136801
	Selenium	5160	5000	103	90 - 110	P	08/13/2025	17:46	LB136801
	Silver	1260	1250	100	90 - 110	P	08/13/2025	17:46	LB136801
	Sodium	23600	25000	95	90 - 110	P	08/13/2025	17:46	LB136801
	Thallium	5360	5000	107	90 - 110	P	08/13/2025	17:46	LB136801
	Vanadium	2490	2500	100	90 - 110	P	08/13/2025	17:46	LB136801
	Zinc	2530	2500	101	90 - 110	P	08/13/2025	17:46	LB136801

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	8030	8000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Antimony	4100	4000	102	90 - 110	P	08/14/2025	12:05	LB136837
	Arsenic	3980	4000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Barium	8040	8000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Beryllium	202	200	101	90 - 110	P	08/14/2025	12:05	LB136837
	Cadmium	1980	2000	99	90 - 110	P	08/14/2025	12:05	LB136837
	Calcium	20100	20000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Chromium	820	800	102	90 - 110	P	08/14/2025	12:05	LB136837
	Cobalt	2010	2000	101	90 - 110	P	08/14/2025	12:05	LB136837
	Copper	1030	1000	102	90 - 110	P	08/14/2025	12:05	LB136837
	Iron	4050	4000	101	90 - 110	P	08/14/2025	12:05	LB136837
	Lead	3890	4000	97	90 - 110	P	08/14/2025	12:05	LB136837
	Magnesium	20100	20000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Manganese	2020	2000	101	90 - 110	P	08/14/2025	12:05	LB136837
	Nickel	2010	2000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Potassium	19800	20000	99	90 - 110	P	08/14/2025	12:05	LB136837
	Selenium	3970	4000	99	90 - 110	P	08/14/2025	12:05	LB136837
	Silver	1070	1000	107	90 - 110	P	08/14/2025	12:05	LB136837
	Sodium	19700	20000	98	90 - 110	P	08/14/2025	12:05	LB136837
	Thallium	3830	4000	96	90 - 110	P	08/14/2025	12:05	LB136837
	Vanadium	2020	2000	101	90 - 110	P	08/14/2025	12:05	LB136837
	Zinc	2000	2000	100	90 - 110	P	08/14/2025	12:05	LB136837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	90.2	100	90	80 - 120	P	08/14/2025	12:09	LB136837
	Antimony	53.2	50.0	106	80 - 120	P	08/14/2025	12:09	LB136837
	Arsenic	21.4	20.0	107	80 - 120	P	08/14/2025	12:09	LB136837
	Barium	97.9	100	98	80 - 120	P	08/14/2025	12:09	LB136837
	Beryllium	6.22	6.0	104	80 - 120	P	08/14/2025	12:09	LB136837
	Cadmium	5.85	6.0	97	80 - 120	P	08/14/2025	12:09	LB136837
	Calcium	2090	2000	105	80 - 120	P	08/14/2025	12:09	LB136837
	Chromium	10.7	10.0	107	80 - 120	P	08/14/2025	12:09	LB136837
	Cobalt	29.9	30.0	100	80 - 120	P	08/14/2025	12:09	LB136837
	Copper	21.6	20.0	108	80 - 120	P	08/14/2025	12:09	LB136837
	Iron	112	100	112	80 - 120	P	08/14/2025	12:09	LB136837
	Lead	12.2	12.0	101	80 - 120	P	08/14/2025	12:09	LB136837
	Magnesium	2200	2000	110	80 - 120	P	08/14/2025	12:09	LB136837
	Manganese	21.6	20.0	108	80 - 120	P	08/14/2025	12:09	LB136837
	Nickel	40.2	40.0	100	80 - 120	P	08/14/2025	12:09	LB136837
	Potassium	2030	2000	101	80 - 120	P	08/14/2025	12:09	LB136837
	Selenium	19.6	20.0	98	80 - 120	P	08/14/2025	12:09	LB136837
	Silver	10.5	10.0	105	80 - 120	P	08/14/2025	12:09	LB136837
	Sodium	1920	2000	96	80 - 120	P	08/14/2025	12:09	LB136837
	Thallium	41.7	40.0	104	80 - 120	P	08/14/2025	12:09	LB136837
	Vanadium	39.4	40.0	99	80 - 120	P	08/14/2025	12:09	LB136837
	Zinc	42.9	40.0	107	80 - 120	P	08/14/2025	12:09	LB136837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	101	90 - 110	P	08/14/2025	12:50	LB136837
	Antimony	5100	5000	102	90 - 110	P	08/14/2025	12:50	LB136837
	Arsenic	5070	5000	102	90 - 110	P	08/14/2025	12:50	LB136837
	Barium	9910	10000	99	90 - 110	P	08/14/2025	12:50	LB136837
	Beryllium	250	250	100	90 - 110	P	08/14/2025	12:50	LB136837
	Cadmium	2490	2500	100	90 - 110	P	08/14/2025	12:50	LB136837
	Calcium	25000	25000	100	90 - 110	P	08/14/2025	12:50	LB136837
	Chromium	1020	1000	102	90 - 110	P	08/14/2025	12:50	LB136837
	Cobalt	2490	2500	100	90 - 110	P	08/14/2025	12:50	LB136837
	Copper	1270	1250	101	90 - 110	P	08/14/2025	12:50	LB136837
	Iron	5010	5000	100	90 - 110	P	08/14/2025	12:50	LB136837
	Lead	4960	5000	99	90 - 110	P	08/14/2025	12:50	LB136837
	Magnesium	24900	25000	100	90 - 110	P	08/14/2025	12:50	LB136837
	Manganese	2470	2500	99	90 - 110	P	08/14/2025	12:50	LB136837
	Nickel	2490	2500	100	90 - 110	P	08/14/2025	12:50	LB136837
	Potassium	25100	25000	100	90 - 110	P	08/14/2025	12:50	LB136837
	Selenium	5140	5000	103	90 - 110	P	08/14/2025	12:50	LB136837
	Silver	1270	1250	102	90 - 110	P	08/14/2025	12:50	LB136837
	Sodium	24900	25000	100	90 - 110	P	08/14/2025	12:50	LB136837
	Thallium	5280	5000	106	90 - 110	P	08/14/2025	12:50	LB136837
	Vanadium	2510	2500	101	90 - 110	P	08/14/2025	12:50	LB136837
	Zinc	2550	2500	102	90 - 110	P	08/14/2025	12:50	LB136837
CCV02	Aluminum	9980	10000	100	90 - 110	P	08/14/2025	13:42	LB136837
	Antimony	5140	5000	103	90 - 110	P	08/14/2025	13:42	LB136837
	Arsenic	5090	5000	102	90 - 110	P	08/14/2025	13:42	LB136837
	Barium	9920	10000	99	90 - 110	P	08/14/2025	13:42	LB136837
	Beryllium	233	250	93	90 - 110	P	08/14/2025	13:42	LB136837
	Cadmium	2460	2500	98	90 - 110	P	08/14/2025	13:42	LB136837
	Calcium	24600	25000	99	90 - 110	P	08/14/2025	13:42	LB136837
	Chromium	1020	1000	102	90 - 110	P	08/14/2025	13:42	LB136837
	Cobalt	2480	2500	99	90 - 110	P	08/14/2025	13:42	LB136837
	Copper	1260	1250	101	90 - 110	P	08/14/2025	13:42	LB136837
	Iron	5260	5000	105	90 - 110	P	08/14/2025	13:42	LB136837
	Lead	4890	5000	98	90 - 110	P	08/14/2025	13:42	LB136837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24400	25000	98	90 - 110	P	08/14/2025	13:42	LB136837
	Manganese	2430	2500	97	90 - 110	P	08/14/2025	13:42	LB136837
	Nickel	2480	2500	99	90 - 110	P	08/14/2025	13:42	LB136837
	Potassium	26700	25000	107	90 - 110	P	08/14/2025	13:42	LB136837
	Selenium	5140	5000	103	90 - 110	P	08/14/2025	13:42	LB136837
	Silver	1260	1250	101	90 - 110	P	08/14/2025	13:42	LB136837
	Sodium	25000	25000	100	90 - 110	P	08/14/2025	13:42	LB136837
	Thallium	5040	5000	101	90 - 110	P	08/14/2025	13:42	LB136837
	Vanadium	2500	2500	100	90 - 110	P	08/14/2025	13:42	LB136837
	Zinc	2580	2500	103	90 - 110	P	08/14/2025	13:42	LB136837
CCV03	Aluminum	9770	10000	98	90 - 110	P	08/14/2025	14:41	LB136837
	Antimony	5050	5000	101	90 - 110	P	08/14/2025	14:41	LB136837
	Arsenic	4980	5000	100	90 - 110	P	08/14/2025	14:41	LB136837
	Barium	9880	10000	99	90 - 110	P	08/14/2025	14:41	LB136837
	Beryllium	237	250	95	90 - 110	P	08/14/2025	14:41	LB136837
	Cadmium	2400	2500	96	90 - 110	P	08/14/2025	14:41	LB136837
	Calcium	24200	25000	97	90 - 110	P	08/14/2025	14:41	LB136837
	Chromium	984	1000	98	90 - 110	P	08/14/2025	14:41	LB136837
	Cobalt	2410	2500	96	90 - 110	P	08/14/2025	14:41	LB136837
	Copper	1240	1250	99	90 - 110	P	08/14/2025	14:41	LB136837
	Iron	5010	5000	100	90 - 110	P	08/14/2025	14:41	LB136837
	Lead	4790	5000	96	90 - 110	P	08/14/2025	14:41	LB136837
	Magnesium	24000	25000	96	90 - 110	P	08/14/2025	14:41	LB136837
	Manganese	2410	2500	96	90 - 110	P	08/14/2025	14:41	LB136837
	Nickel	2420	2500	97	90 - 110	P	08/14/2025	14:41	LB136837
	Potassium	25400	25000	102	90 - 110	P	08/14/2025	14:41	LB136837
	Selenium	5000	5000	100	90 - 110	P	08/14/2025	14:41	LB136837
	Silver	1240	1250	99	90 - 110	P	08/14/2025	14:41	LB136837
	Sodium	24300	25000	97	90 - 110	P	08/14/2025	14:41	LB136837
	Thallium	4710	5000	94	90 - 110	P	08/14/2025	14:41	LB136837
	Vanadium	2460	2500	98	90 - 110	P	08/14/2025	14:41	LB136837
	Zinc	2520	2500	101	90 - 110	P	08/14/2025	14:41	LB136837
CCV04	Aluminum	9870	10000	99	90 - 110	P	08/14/2025	15:58	LB136837
	Antimony	5180	5000	104	90 - 110	P	08/14/2025	15:58	LB136837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5090	5000	102	90 - 110	P	08/14/2025	15:58	LB136837
	Barium	9790	10000	98	90 - 110	P	08/14/2025	15:58	LB136837
	Beryllium	232	250	93	90 - 110	P	08/14/2025	15:58	LB136837
	Cadmium	2410	2500	96	90 - 110	P	08/14/2025	15:58	LB136837
	Calcium	24200	25000	97	90 - 110	P	08/14/2025	15:58	LB136837
	Chromium	1000	1000	100	90 - 110	P	08/14/2025	15:58	LB136837
	Cobalt	2430	2500	97	90 - 110	P	08/14/2025	15:58	LB136837
	Copper	1260	1250	100	90 - 110	P	08/14/2025	15:58	LB136837
	Iron	5210	5000	104	90 - 110	P	08/14/2025	15:58	LB136837
	Lead	4810	5000	96	90 - 110	P	08/14/2025	15:58	LB136837
	Magnesium	24000	25000	96	90 - 110	P	08/14/2025	15:58	LB136837
	Manganese	2410	2500	96	90 - 110	P	08/14/2025	15:58	LB136837
	Nickel	2440	2500	98	90 - 110	P	08/14/2025	15:58	LB136837
	Potassium	26500	25000	106	90 - 110	P	08/14/2025	15:58	LB136837
	Selenium	5210	5000	104	90 - 110	P	08/14/2025	15:58	LB136837
	Silver	1260	1250	101	90 - 110	P	08/14/2025	15:58	LB136837
	Sodium	25100	25000	100	90 - 110	P	08/14/2025	15:58	LB136837
	Thallium	5210	5000	104	90 - 110	P	08/14/2025	15:58	LB136837
	Vanadium	2470	2500	99	90 - 110	P	08/14/2025	15:58	LB136837
	Zinc	2580	2500	103	90 - 110	P	08/14/2025	15:58	LB136837
CCV05	Aluminum	9710	10000	97	90 - 110	P	08/14/2025	16:50	LB136837
	Antimony	5230	5000	105	90 - 110	P	08/14/2025	16:50	LB136837
	Arsenic	5110	5000	102	90 - 110	P	08/14/2025	16:50	LB136837
	Barium	9710	10000	97	90 - 110	P	08/14/2025	16:50	LB136837
	Beryllium	228	250	91	90 - 110	P	08/14/2025	16:50	LB136837
	Cadmium	2390	2500	96	90 - 110	P	08/14/2025	16:50	LB136837
	Calcium	23800	25000	95	90 - 110	P	08/14/2025	16:50	LB136837
	Chromium	985	1000	98	90 - 110	P	08/14/2025	16:50	LB136837
	Cobalt	2410	2500	96	90 - 110	P	08/14/2025	16:50	LB136837
	Copper	1260	1250	100	90 - 110	P	08/14/2025	16:50	LB136837
	Iron	5160	5000	103	90 - 110	P	08/14/2025	16:50	LB136837
	Lead	4770	5000	96	90 - 110	P	08/14/2025	16:50	LB136837
	Magnesium	23500	25000	94	90 - 110	P	08/14/2025	16:50	LB136837
	Manganese	2360	2500	94	90 - 110	P	08/14/2025	16:50	LB136837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2430	2500	97	90 - 110	P	08/14/2025	16:50	LB136837
	Potassium	26500	25000	106	90 - 110	P	08/14/2025	16:50	LB136837
	Selenium	5230	5000	104	90 - 110	P	08/14/2025	16:50	LB136837
	Silver	1250	1250	100	90 - 110	P	08/14/2025	16:50	LB136837
	Sodium	23300	25000	93	90 - 110	P	08/14/2025	16:50	LB136837
	Thallium	4710	5000	94	90 - 110	P	08/14/2025	16:50	LB136837
	Vanadium	2450	2500	98	90 - 110	P	08/14/2025	16:50	LB136837
	Zinc	2590	2500	104	90 - 110	P	08/14/2025	16:50	LB136837
CCV06	Aluminum	9730	10000	97	90 - 110	P	08/14/2025	17:54	LB136837
	Antimony	5260	5000	105	90 - 110	P	08/14/2025	17:54	LB136837
	Arsenic	5150	5000	103	90 - 110	P	08/14/2025	17:54	LB136837
	Barium	9970	10000	100	90 - 110	P	08/14/2025	17:54	LB136837
	Beryllium	243	250	97	90 - 110	P	08/14/2025	17:54	LB136837
	Cadmium	2380	2500	95	90 - 110	P	08/14/2025	17:54	LB136837
	Calcium	24000	25000	96	90 - 110	P	08/14/2025	17:54	LB136837
	Chromium	984	1000	98	90 - 110	P	08/14/2025	17:54	LB136837
	Cobalt	2410	2500	96	90 - 110	P	08/14/2025	17:54	LB136837
	Copper	1260	1250	100	90 - 110	P	08/14/2025	17:54	LB136837
	Iron	5310	5000	106	90 - 110	P	08/14/2025	17:54	LB136837
	Lead	4750	5000	95	90 - 110	P	08/14/2025	17:54	LB136837
	Magnesium	23400	25000	94	90 - 110	P	08/14/2025	17:54	LB136837
	Manganese	2400	2500	96	90 - 110	P	08/14/2025	17:54	LB136837
	Nickel	2430	2500	97	90 - 110	P	08/14/2025	17:54	LB136837
	Potassium	26900	25000	108	90 - 110	P	08/14/2025	17:54	LB136837
	Selenium	5260	5000	105	90 - 110	P	08/14/2025	17:54	LB136837
	Silver	1250	1250	100	90 - 110	P	08/14/2025	17:54	LB136837
	Sodium	25000	25000	100	90 - 110	P	08/14/2025	17:54	LB136837
	Thallium	5000	5000	100	90 - 110	P	08/14/2025	17:54	LB136837
	Vanadium	2470	2500	99	90 - 110	P	08/14/2025	17:54	LB136837
	Zinc	2570	2500	103	90 - 110	P	08/14/2025	17:54	LB136837

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	92.9	100	93	65 - 135	P	08/13/2025	12:37	LB136801
	Antimony	50.2	50.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Arsenic	20.6	20.0	103	65 - 135	P	08/13/2025	12:37	LB136801
	Barium	93.9	100	94	65 - 135	P	08/13/2025	12:37	LB136801
	Beryllium	6.01	6.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Cadmium	5.49	6.0	92	65 - 135	P	08/13/2025	12:37	LB136801
	Calcium	2010	2000	100	65 - 135	P	08/13/2025	12:37	LB136801
	Chromium	10.00	10.0	100	65 - 135	P	08/13/2025	12:37	LB136801
	Cobalt	29.0	30.0	97	65 - 135	P	08/13/2025	12:37	LB136801
	Copper	20.9	20.0	104	65 - 135	P	08/13/2025	12:37	LB136801
	Iron	95.9	100	96	65 - 135	P	08/13/2025	12:37	LB136801
	Lead	10.0	12.0	83	65 - 135	P	08/13/2025	12:37	LB136801
	Magnesium	2120	2000	106	65 - 135	P	08/13/2025	12:37	LB136801
	Manganese	20.8	20.0	104	65 - 135	P	08/13/2025	12:37	LB136801
	Nickel	38.7	40.0	97	65 - 135	P	08/13/2025	12:37	LB136801
	Potassium	1930	2000	97	65 - 135	P	08/13/2025	12:37	LB136801
	Selenium	21.1	20.0	106	65 - 135	P	08/13/2025	12:37	LB136801
	Silver	10.3	10.0	103	65 - 135	P	08/13/2025	12:37	LB136801
	Sodium	1810	2000	91	65 - 135	P	08/13/2025	12:37	LB136801
	Thallium	40.7	40.0	102	65 - 135	P	08/13/2025	12:37	LB136801
	Vanadium	42.3	40.0	106	65 - 135	P	08/13/2025	12:37	LB136801
	Zinc	41.0	40.0	102	65 - 135	P	08/13/2025	12:37	LB136801
CRA	Mercury	0.23	0.2	117	70 - 130	CV	08/13/2025	14:48	LB136799
CRI01	Aluminum	105	100	105	65 - 135	P	08/14/2025	12:23	LB136837
	Antimony	52.8	50.0	106	65 - 135	P	08/14/2025	12:23	LB136837
	Arsenic	21.1	20.0	105	65 - 135	P	08/14/2025	12:23	LB136837
	Barium	96.4	100	96	65 - 135	P	08/14/2025	12:23	LB136837
	Beryllium	6.27	6.0	104	65 - 135	P	08/14/2025	12:23	LB136837
	Cadmium	5.92	6.0	99	65 - 135	P	08/14/2025	12:23	LB136837
	Calcium	2070	2000	104	65 - 135	P	08/14/2025	12:23	LB136837
	Chromium	10.4	10.0	104	65 - 135	P	08/14/2025	12:23	LB136837
	Cobalt	29.9	30.0	100	65 - 135	P	08/14/2025	12:23	LB136837
	Copper	21.4	20.0	107	65 - 135	P	08/14/2025	12:23	LB136837
	Iron	106	100	106	65 - 135	P	08/14/2025	12:23	LB136837
	Lead	12.4	12.0	103	65 - 135	P	08/14/2025	12:23	LB136837

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2180	2000	109	65 - 135	P	08/14/2025	12:23	LB136837
	Manganese	20.7	20.0	104	65 - 135	P	08/14/2025	12:23	LB136837
	Nickel	40.2	40.0	100	65 - 135	P	08/14/2025	12:23	LB136837
	Potassium	1930	2000	96	65 - 135	P	08/14/2025	12:23	LB136837
	Selenium	17.9	20.0	89	65 - 135	P	08/14/2025	12:23	LB136837
	Silver	11.0	10.0	110	65 - 135	P	08/14/2025	12:23	LB136837
	Sodium	1830	2000	92	65 - 135	P	08/14/2025	12:23	LB136837
	Thallium	41.3	40.0	103	65 - 135	P	08/14/2025	12:23	LB136837
	Vanadium	36.7	40.0	92	65 - 135	P	08/14/2025	12:23	LB136837
	Zinc	43.0	40.0	108	65 - 135	P	08/14/2025	12:23	LB136837



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB13	Mercury	0.076	+/-0.2	U	0.20	CV	08/13/2025	14:41	LB136799

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB38	Mercury	0.076	+/-0.2	U	0.20	CV	08/13/2025	14:46	LB136799
CCB39	Mercury	0.076	+/-0.2	U	0.20	CV	08/13/2025	15:15	LB136799
CCB40	Mercury	0.076	+/-0.2	U	0.20	CV	08/13/2025	15:49	LB136799

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	08/13/2025	12:33	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	12:33	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	12:33	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	12:33	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	12:33	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	12:33	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	12:33	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	12:33	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	12:33	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	12:33	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	12:33	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	12:33	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	12:33	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	12:33	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	12:33	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	12:33	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	12:33	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	12:33	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	12:33	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	12:33	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	12:33	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	12:33	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	08/13/2025	13:03	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	13:03	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	13:03	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	13:03	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	13:03	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	13:03	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	13:03	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	13:03	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	13:03	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	13:03	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	13:03	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	13:03	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	13:03	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	13:03	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	13:03	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	13:03	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	13:03	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	13:03	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	13:03	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	13:03	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	13:03	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	13:03	LB136801
CCB02	Aluminum	11.3	+/-50	U	100	P	08/13/2025	13:46	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	13:46	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	13:46	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	13:46	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	13:46	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	13:46	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	13:46	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	13:46	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	13:46	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	13:46	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	13:46	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	13:46	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	13:46	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	13:46	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	13:46	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	13:46	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	13:46	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	08/13/2025	13:46	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	13:46	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	13:46	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	13:46	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	13:46	LB136801
CCB03	Aluminum	11.3	+/-50	U	100	P	08/13/2025	14:37	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	14:37	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	14:37	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	14:37	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	14:37	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	14:37	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	14:37	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	14:37	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	14:37	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	14:37	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	14:37	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	14:37	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	14:37	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	14:37	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	14:37	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	14:37	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	14:37	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	14:37	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	14:37	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	14:37	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	14:37	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	14:37	LB136801
CCB04	Aluminum	11.3	+/-50	U	100	P	08/13/2025	15:27	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	15:27	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	15:27	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	15:27	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	15:27	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	15:27	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	15:27	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	15:27	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	15:27	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	15:27	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	15:27	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	15:27	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	08/13/2025	15:27	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	15:27	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	15:27	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	15:27	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	15:27	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	15:27	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	15:27	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	15:27	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	15:27	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	15:27	LB136801
CCB05	Aluminum	11.3	+/-50	U	100	P	08/13/2025	16:19	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	16:19	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	16:19	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	16:19	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	16:19	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	16:19	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	16:19	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	16:19	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	16:19	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	16:19	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	16:19	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	16:19	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	16:19	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	16:19	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	16:19	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	16:19	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	16:19	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	16:19	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	16:19	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	16:19	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	16:19	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	16:19	LB136801
CCB06	Aluminum	11.3	+/-50	U	100	P	08/13/2025	17:09	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	17:09	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	17:09	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	17:09	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	17:09	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	17:09	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	17:09	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	17:09	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	17:09	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	17:09	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	17:09	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	17:09	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	17:09	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	17:09	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	17:09	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	17:09	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	17:09	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	17:09	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	17:09	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	17:09	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	17:09	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	17:09	LB136801
CCB07	Aluminum	11.3	+/-50	U	100	P	08/13/2025	17:50	LB136801
	Antimony	6.76	+/-25	U	50.0	P	08/13/2025	17:50	LB136801
	Arsenic	5.12	+/-10	U	20.0	P	08/13/2025	17:50	LB136801
	Barium	14.6	+/-50	U	100	P	08/13/2025	17:50	LB136801
	Beryllium	0.56	+/-3	U	6.00	P	08/13/2025	17:50	LB136801
	Cadmium	0.50	+/-3	U	6.00	P	08/13/2025	17:50	LB136801
	Calcium	234	+/-1000	U	2000	P	08/13/2025	17:50	LB136801
	Chromium	2.12	+/-5	U	10.0	P	08/13/2025	17:50	LB136801
	Cobalt	2.26	+/-15	U	30.0	P	08/13/2025	17:50	LB136801
	Copper	4.60	+/-10	U	20.0	P	08/13/2025	17:50	LB136801
	Iron	23.4	+/-50	U	100	P	08/13/2025	17:50	LB136801
	Lead	2.30	+/-6	U	12.0	P	08/13/2025	17:50	LB136801
	Magnesium	244	+/-1000	U	2000	P	08/13/2025	17:50	LB136801
	Manganese	5.94	+/-10	U	20.0	P	08/13/2025	17:50	LB136801
	Nickel	3.06	+/-20	U	40.0	P	08/13/2025	17:50	LB136801
	Potassium	918	+/-1000	U	2000	P	08/13/2025	17:50	LB136801
	Selenium	9.64	+/-10	U	20.0	P	08/13/2025	17:50	LB136801
	Silver	1.62	+/-5	U	10.0	P	08/13/2025	17:50	LB136801
	Sodium	868	+/-1000	U	2000	P	08/13/2025	17:50	LB136801
	Thallium	4.38	+/-20	U	40.0	P	08/13/2025	17:50	LB136801
	Vanadium	6.26	+/-20	U	40.0	P	08/13/2025	17:50	LB136801
	Zinc	16.7	+/-20	U	40.0	P	08/13/2025	17:50	LB136801

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	08/14/2025	12:13	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	12:13	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	12:13	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	12:13	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	12:13	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	12:13	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	12:13	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	12:13	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	12:13	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	12:13	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	12:13	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	12:13	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	12:13	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	12:13	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	12:13	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	12:13	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	12:13	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	12:13	LB136837

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	08/14/2025	12:54	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	12:54	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	12:54	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	12:54	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	12:54	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	12:54	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	12:54	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	12:54	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	12:54	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	12:54	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	12:54	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	12:54	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	12:54	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	12:54	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	12:54	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	12:54	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	12:54	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	12:54	LB136837
CCB02	Aluminum	11.3	+/-50	U	100	P	08/14/2025	13:46	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	13:46	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	13:46	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	13:46	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	13:46	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	13:46	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	13:46	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	13:46	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	13:46	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	13:46	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	13:46	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	13:46	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	13:46	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	13:46	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	13:46	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	13:46	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	13:46	LB136837

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	08/14/2025	13:46	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	13:46	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	13:46	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	13:46	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	13:46	LB136837
CCB03	Aluminum	11.3	+/-50	U	100	P	08/14/2025	14:45	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	14:45	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	14:45	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	14:45	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	14:45	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	14:45	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	14:45	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	14:45	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	14:45	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	14:45	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	14:45	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	14:45	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	14:45	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	14:45	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	14:45	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	14:45	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	14:45	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	14:45	LB136837
CCB04	Aluminum	11.3	+/-50	U	100	P	08/14/2025	16:02	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	16:02	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	16:02	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	16:02	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	16:02	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	16:02	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	16:02	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	16:02	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	16:02	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	16:02	LB136837

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	08/14/2025	16:02	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	16:02	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	16:02	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	16:02	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	16:02	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	16:02	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	16:02	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	16:02	LB136837
CCB05	Aluminum	11.3	+/-50	U	100	P	08/14/2025	17:00	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	17:00	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	17:00	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	17:00	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	17:00	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	17:00	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	17:00	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	17:00	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	17:00	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	17:00	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	17:00	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	17:00	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	17:00	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	17:00	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	17:00	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	17:00	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	17:00	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	17:00	LB136837
CCB06	Aluminum	11.3	+/-50	U	100	P	08/14/2025	18:05	LB136837
	Antimony	6.76	+/-25	U	50.0	P	08/14/2025	18:05	LB136837
	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	18:05	LB136837
	Beryllium	0.56	+/-3	U	6.00	P	08/14/2025	18:05	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	18:05	LB136837
	Calcium	234	+/-1000	U	2000	P	08/14/2025	18:05	LB136837

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	18:05	LB136837
	Cobalt	2.26	+/-15	U	30.0	P	08/14/2025	18:05	LB136837
	Copper	4.60	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Iron	23.4	+/-50	U	100	P	08/14/2025	18:05	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	18:05	LB136837
	Magnesium	244	+/-1000	U	2000	P	08/14/2025	18:05	LB136837
	Manganese	5.94	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Nickel	3.06	+/-20	U	40.0	P	08/14/2025	18:05	LB136837
	Potassium	918	+/-1000	U	2000	P	08/14/2025	18:05	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	18:05	LB136837
	Sodium	868	+/-1000	U	2000	P	08/14/2025	18:05	LB136837
	Thallium	4.38	+/-20	U	40.0	P	08/14/2025	18:05	LB136837
	Vanadium	6.26	+/-20	U	40.0	P	08/14/2025	18:05	LB136837
	Zinc	16.7	+/-20	U	40.0	P	08/14/2025	18:05	LB136837

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169231BL		SOLID		Batch Number:	PB169231		Prep Date:	08/13/2025	
	Mercury	0.0080	<0.014	U	0.014	CV	08/13/2025	14:55	LB136799

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169215BL	SOLID			Batch Number:	PB169215		Prep Date:	08/12/2025	
	Aluminum	0.84	<2.5	U	5.00	P	08/13/2025	15:15	LB136801
	Antimony	0.22	<1.25	U	2.50	P	08/13/2025	15:15	LB136801
	Arsenic	0.19	<0.5	U	1.00	P	08/13/2025	15:15	LB136801
	Barium	0.73	<2.5	U	5.00	P	08/13/2025	15:15	LB136801
	Beryllium	0.025	<0.15	U	0.30	P	08/13/2025	15:15	LB136801
	Cadmium	0.024	<0.15	U	0.30	P	08/13/2025	15:15	LB136801
	Calcium	11.1	<50	U	100	P	08/13/2025	15:15	LB136801
	Chromium	0.047	<0.25	U	0.50	P	08/13/2025	15:15	LB136801
	Cobalt	0.10	<0.75	U	1.50	P	08/13/2025	15:15	LB136801
	Copper	0.22	<0.5	U	1.00	P	08/13/2025	15:15	LB136801
	Iron	3.99	<2.5	U	5.00	P	08/13/2025	15:15	LB136801
	Lead	0.13	<0.3	U	0.60	P	08/13/2025	15:15	LB136801
	Magnesium	12.0	<50	U	100	P	08/13/2025	15:15	LB136801
	Manganese	0.14	<0.5	U	1.00	P	08/13/2025	15:15	LB136801
	Nickel	0.13	<1	U	2.00	P	08/13/2025	15:15	LB136801
	Potassium	27.7	<50	U	100	P	08/13/2025	15:15	LB136801
	Selenium	0.26	<0.5	U	1.00	P	08/13/2025	15:15	LB136801
	Silver	0.12	<0.25	U	0.50	P	08/13/2025	15:15	LB136801
	Sodium	17.8	<50	U	100	P	08/13/2025	15:15	LB136801
	Thallium	0.23	<1	U	2.00	P	08/13/2025	15:15	LB136801
	Vanadium	0.25	<1	U	2.00	P	08/13/2025	15:15	LB136801
	Zinc	0.23	<1	U	2.00	P	08/13/2025	15:15	LB136801

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture	SDG No.: Q2832
Contract: PORT06	Lab Code: ACE
ICS Source: EPA	Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	240000	255000	94	216000	294000	08/13/2025	12:41	LB136801
	Antimony	-4.82			-50	50	08/13/2025	12:41	LB136801
	Arsenic	13.5			-20	20	08/13/2025	12:41	LB136801
	Barium	-0.47	6.0	8	-94	106	08/13/2025	12:41	LB136801
	Beryllium	1.31			-6	6	08/13/2025	12:41	LB136801
	Cadmium	2.33	1.0	233	-5	7	08/13/2025	12:41	LB136801
	Calcium	229000	245000	94	208000	282000	08/13/2025	12:41	LB136801
	Chromium	58.2	52.0	112	42	62	08/13/2025	12:41	LB136801
	Cobalt	1.85			-30	30	08/13/2025	12:41	LB136801
	Copper	4.82	2.0	241	-18	22	08/13/2025	12:41	LB136801
	Iron	99200	101000	98	85600	116500	08/13/2025	12:41	LB136801
	Lead	-6.38			-12	12	08/13/2025	12:41	LB136801
	Magnesium	243000	255000	95	216000	294000	08/13/2025	12:41	LB136801
	Manganese	8.17	7.0	117	-13	27	08/13/2025	12:41	LB136801
	Nickel	5.22	2.0	261	-38	42	08/13/2025	12:41	LB136801
	Potassium	-4.10			0	0	08/13/2025	12:41	LB136801
	Selenium	2.91			-20	20	08/13/2025	12:41	LB136801
	Silver	2.33			-10	10	08/13/2025	12:41	LB136801
	Sodium	3.06			0	0	08/13/2025	12:41	LB136801
	Thallium	2.91			-40	40	08/13/2025	12:41	LB136801
	Vanadium	3.65			-40	40	08/13/2025	12:41	LB136801
	Zinc	2.20			-40	40	08/13/2025	12:41	LB136801
ICSAB01	Aluminum	247000	247000	100	209000	285000	08/13/2025	12:45	LB136801
	Antimony	588	618	95	525	711	08/13/2025	12:45	LB136801
	Arsenic	111	104	107	88.4	120	08/13/2025	12:45	LB136801
	Barium	492	537	92	437	637	08/13/2025	12:45	LB136801
	Beryllium	487	495	98	420	570	08/13/2025	12:45	LB136801
	Cadmium	994	972	102	826	1120	08/13/2025	12:45	LB136801
	Calcium	236000	235000	100	199000	271000	08/13/2025	12:45	LB136801
	Chromium	558	542	103	460	624	08/13/2025	12:45	LB136801
	Cobalt	498	476	105	404	548	08/13/2025	12:45	LB136801
	Copper	486	511	95	434	588	08/13/2025	12:45	LB136801
	Iron	102000	99300	103	84400	114500	08/13/2025	12:45	LB136801
	Lead	42.2	49.0	86	37	61	08/13/2025	12:45	LB136801
	Magnesium	250000	248000	101	210000	286000	08/13/2025	12:45	LB136801
	Manganese	493	507	97	430	584	08/13/2025	12:45	LB136801
	Nickel	992	954	104	810	1100	08/13/2025	12:45	LB136801
	Potassium	42.9			0	0	08/13/2025	12:45	LB136801
	Selenium	50.5	46.0	110	26	66	08/13/2025	12:45	LB136801
	Silver	216	201	108	170	232	08/13/2025	12:45	LB136801
	Sodium	-3.58			0	0	08/13/2025	12:45	LB136801
	Thallium	113	108	105	68	148	08/13/2025	12:45	LB136801

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture	SDG No.: Q2832
Contract: PORT06	Lab Code: ACE
ICS Source: EPA	Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	479	491	98	417	565	08/13/2025	12:45	LB136801
	Zinc	1040	952	109	809	1095	08/13/2025	12:45	LB136801
ICSA01	Aluminum	251000	255000	98	216000	294000	08/14/2025	12:27	LB136837
	Antimony	-1.10			-50	50	08/14/2025	12:27	LB136837
	Arsenic	7.57			-20	20	08/14/2025	12:27	LB136837
	Barium	0.097	6.0	2	-94	106	08/14/2025	12:27	LB136837
	Beryllium	1.36			-6	6	08/14/2025	12:27	LB136837
	Cadmium	2.91	1.0	291	-5	7	08/14/2025	12:27	LB136837
	Calcium	237000	245000	97	208000	282000	08/14/2025	12:27	LB136837
	Chromium	60.3	52.0	116	42	62	08/14/2025	12:27	LB136837
	Cobalt	1.84			-30	30	08/14/2025	12:27	LB136837
	Copper	7.21	2.0	360	-18	22	08/14/2025	12:27	LB136837
	Iron	99800	101000	99	85600	116500	08/14/2025	12:27	LB136837
	Lead	-5.21			-12	12	08/14/2025	12:27	LB136837
	Magnesium	251000	255000	98	216000	294000	08/14/2025	12:27	LB136837
	Manganese	7.95	7.0	114	-13	27	08/14/2025	12:27	LB136837
	Nickel	5.40	2.0	270	-38	42	08/14/2025	12:27	LB136837
	Potassium	130			0	0	08/14/2025	12:27	LB136837
	Selenium	-3.06			-20	20	08/14/2025	12:27	LB136837
	Silver	1.48			-10	10	08/14/2025	12:27	LB136837
	Sodium	111			0	0	08/14/2025	12:27	LB136837
	Thallium	-3.36			-40	40	08/14/2025	12:27	LB136837
	Vanadium	2.16			-40	40	08/14/2025	12:27	LB136837
	Zinc	3.33			-40	40	08/14/2025	12:27	LB136837
ICSAB01	Aluminum	249000	247000	101	209000	285000	08/14/2025	12:38	LB136837
	Antimony	593	618	96	525	711	08/14/2025	12:38	LB136837
	Arsenic	110	104	106	88.4	120	08/14/2025	12:38	LB136837
	Barium	485	537	90	437	637	08/14/2025	12:38	LB136837
	Beryllium	496	495	100	420	570	08/14/2025	12:38	LB136837
	Cadmium	989	972	102	826	1120	08/14/2025	12:38	LB136837
	Calcium	236000	235000	100	199000	271000	08/14/2025	12:38	LB136837
	Chromium	566	542	104	460	624	08/14/2025	12:38	LB136837
	Cobalt	494	476	104	404	548	08/14/2025	12:38	LB136837
	Copper	490	511	96	434	588	08/14/2025	12:38	LB136837
	Iron	98600	99300	99	84400	114500	08/14/2025	12:38	LB136837
	Lead	42.6	49.0	87	37	61	08/14/2025	12:38	LB136837
	Magnesium	252000	248000	102	210000	286000	08/14/2025	12:38	LB136837
	Manganese	487	507	96	430	584	08/14/2025	12:38	LB136837
	Nickel	987	954	104	810	1100	08/14/2025	12:38	LB136837
	Potassium	-0.28			0	0	08/14/2025	12:38	LB136837
	Selenium	46.6	46.0	101	26	66	08/14/2025	12:38	LB136837
	Silver	216	201	108	170	232	08/14/2025	12:38	LB136837

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

ICS Source: EPA

Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-6.45			0	0	08/14/2025	12:38	LB136837
	Thallium	109	108	101	68	148	08/14/2025	12:38	LB136837
	Vanadium	479	491	98	417	565	08/14/2025	12:38	LB136837
	Zinc	1040	952	109	809	1095	08/14/2025	12:38	LB136837



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2832
contract: PORT06 **lab code:** ACE
matrix: Solid **sample id:** Q2832-09 **client id:** TG-S05MS

Percent Solids for Sample: 90.9 **Spiked ID:** Q2832-09MS **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2950		3310		95.2	-374		P
Antimony	mg/Kg	75 - 125	40.0		7.25		38.1	86		P
Arsenic	mg/Kg	75 - 125	62.4		23.7		38.1	101		P
Barium	mg/Kg	75 - 125	217		217		9.5	4		P
Beryllium	mg/Kg	75 - 125	8.78		0.83		9.5	84		P
Cadmium	mg/Kg	75 - 125	11.1		1.71		9.5	98		P
Calcium	mg/Kg	75 - 125	3430		4400		47.6	-2032		P
Chromium	mg/Kg	75 - 125	47.1		40.4		19.0	35	N	P
Cobalt	mg/Kg	75 - 125	16.1		7.36		9.5	92		P
Copper	mg/Kg	75 - 125	236		206		14.3	210		P
Iron	mg/Kg	75 - 125	38600		35300		140	2387		P
Lead	mg/Kg	75 - 125	514		544		47.6	-63		P
Magnesium	mg/Kg	75 - 125	942		1030		95.2	-94		P
Manganese	mg/Kg	75 - 125	166		162		9.5	41		P
Nickel	mg/Kg	75 - 125	47.1		26.0		23.8	89		P
Potassium	mg/Kg	75 - 125	934		479		480	95		P
Selenium	mg/Kg	75 - 125	90.1		2.73		95.2	92		P
Silver	mg/Kg	75 - 125	4.97		1.19		3.6	105		P
Sodium	mg/Kg	75 - 125	274		162		140	80		P
Thallium	mg/Kg	75 - 125	78.9		1.87	U	95.2	83		P
Vanadium	mg/Kg	75 - 125	37.3		28.5		14.3	62	N	P
Zinc	mg/Kg	75 - 125	113		118		9.5	-55		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q2832</u>
contract: <u>PORT06</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2832-09</u>	client id: <u>TG-S05MSD</u>

Percent Solids for Sample: 90.9	Spiked ID: Q2832-09MSD	Percent Solids for Spike Sample: 90.9
--	-------------------------------	--

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2950		3310		94.8	-379		P
Antimony	mg/Kg	75 - 125	39.5		7.25		37.9	85		P
Arsenic	mg/Kg	75 - 125	61.4		23.7		37.9	99		P
Barium	mg/Kg	75 - 125	208		217		9.5	-97		P
Beryllium	mg/Kg	75 - 125	8.71		0.83		9.5	83		P
Cadmium	mg/Kg	75 - 125	11.0		1.71		9.5	98		P
Calcium	mg/Kg	75 - 125	3510		4400		47.4	-1873		P
Chromium	mg/Kg	75 - 125	53.9		40.4		19.0	71	N	P
Cobalt	mg/Kg	75 - 125	16.7		7.36		9.5	99		P
Copper	mg/Kg	75 - 125	231		206		14.2	175		P
Iron	mg/Kg	75 - 125	35300		35300		140	-10		P
Lead	mg/Kg	75 - 125	521		544		47.4	-49		P
Magnesium	mg/Kg	75 - 125	1060		1030		94.8	27		P
Manganese	mg/Kg	75 - 125	221		162		9.5	619		P
Nickel	mg/Kg	75 - 125	49.4		26.0		23.7	99		P
Potassium	mg/Kg	75 - 125	931		479		470	96		P
Selenium	mg/Kg	75 - 125	89.5		2.73		94.8	92		P
Silver	mg/Kg	75 - 125	4.66		1.19		3.6	97		P
Sodium	mg/Kg	75 - 125	263		162		140	72	N	P
Thallium	mg/Kg	75 - 125	76.6		1.87	U	94.8	81		P
Vanadium	mg/Kg	75 - 125	41.4		28.5		14.2	91		P
Zinc	mg/Kg	75 - 125	110		118		9.5	-87		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2832
contract: PORT06 **lab code:** ACE
matrix: Solid **sample id:** Q2840-01 **client id:** 0804-SOILMS
Percent Solids for Sample: 82.2 **Spiked ID:** Q2840-01MS **Percent Solids for Spike Sample:** 82.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.38		0.17		0.3	72	N	CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q2832</u>
contract:	<u>PORT06</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2840-01</u>	client id:	<u>0804-SOILMSD</u>
Percent Solids for Sample:	82.2	Spiked ID:	Q2840-01MSD	Percent Solids for Spike Sample:	82.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.54		0.17		0.33	113		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Matrix: Solid

Level: LOW

Client ID: TG-S05A

Sample ID: Q2832-09

Spiked ID: Q2832-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Chromium	mg/Kg	75 - 125	51.4		40.4		18.7	59	N	P
Sodium	mg/Kg	75 - 125	211		162		140	35	N	P
Vanadium	mg/Kg	75 - 125	33.5		28.5		14.0	36	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>Q2832</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Level:	<u>LOW</u>
Sample ID:	<u>Q2840-01</u>	Client ID:	<u>0804-SOILA</u>
	Spiked ID:	<u>Q2840-01A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.17		0.30	46	N	CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2832</u>
Contract:	<u>PORT06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2832-09</u>	Client ID:	<u>TG-S05DUP</u>
Percent Solids for Sample:	90.9	Duplicate ID	Q2832-09DUP	Percent Solids for Spike Sample:	90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3310		3340		1		P
Antimony	mg/Kg	20	7.25		7.51		4		P
Arsenic	mg/Kg	20	23.7		24.7		4		P
Barium	mg/Kg	20	217		222		2		P
Beryllium	mg/Kg	20	0.83		0.85		3		P
Cadmium	mg/Kg	20	1.71		1.85		8		P
Calcium	mg/Kg	20	4400		4470		2		P
Chromium	mg/Kg	20	40.4		41.5		3		P
Cobalt	mg/Kg	20	7.36		7.50		2		P
Copper	mg/Kg	20	206		214		4		P
Iron	mg/Kg	20	35300		35900		2		P
Lead	mg/Kg	20	544		562		3		P
Magnesium	mg/Kg	20	1030		1040		1		P
Manganese	mg/Kg	20	162		164		1		P
Nickel	mg/Kg	20	26.0		26.6		2		P
Potassium	mg/Kg	20	479		481		0		P
Selenium	mg/Kg	20	2.73		2.64		3		P
Silver	mg/Kg	20	1.19		1.11		7		P
Sodium	mg/Kg	20	162		156		4		P
Thallium	mg/Kg	20	1.87	U	1.91	U			P
Vanadium	mg/Kg	20	28.5		29.2		2		P
Zinc	mg/Kg	20	118		119		1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2832</u>
Contract:	<u>PORT06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2832-09MS</u>	Client ID:	<u>TG-S05MSD</u>
Percent Solids for Sample:	90.9	Duplicate ID	Q2832-09MSD	Percent Solids for Spike Sample:	90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	2950		2950		0		P
Antimony	mg/Kg	20	40.0		39.5		1		P
Arsenic	mg/Kg	20	62.4		61.4		2		P
Barium	mg/Kg	20	217		208		4		P
Beryllium	mg/Kg	20	8.78		8.71		1		P
Cadmium	mg/Kg	20	11.1		11.0		1		P
Calcium	mg/Kg	20	3430		3510		2		P
Chromium	mg/Kg	20	47.1		53.9		13		P
Cobalt	mg/Kg	20	16.1		16.7		4		P
Copper	mg/Kg	20	236		231		2		P
Iron	mg/Kg	20	38600		35300		9		P
Lead	mg/Kg	20	514		521		1		P
Magnesium	mg/Kg	20	942		1060		12		P
Manganese	mg/Kg	20	166		221		28	*	P
Nickel	mg/Kg	20	47.1		49.4		5		P
Potassium	mg/Kg	20	934		931		0		P
Selenium	mg/Kg	20	90.1		89.5		1		P
Silver	mg/Kg	20	4.97		4.66		6		P
Sodium	mg/Kg	20	274		263		4		P
Thallium	mg/Kg	20	78.9		76.6		3		P
Vanadium	mg/Kg	20	37.3		41.4		10		P
Zinc	mg/Kg	20	113		110		3		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2832</u>
Contract:	<u>PORT06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2840-01</u>	Client ID:	<u>0804-SOILDUP</u>
Percent Solids for Sample:	82.2	Duplicate ID	Q2840-01DUP	Percent Solids for Spike Sample:	82.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.17		0.13		29	*	CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2832</u>
Contract:	<u>PORT06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2840-01MS</u>	Client ID:	<u>0804-SOILMSD</u>
Percent Solids for Sample:	82.2	Duplicate ID	Q2840-01MSD	Percent Solids for Spike Sample:	82.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.38		0.54		34	*	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169215BS							
Aluminum	mg/Kg	100	101		101	80 - 120	P
Antimony	mg/Kg	40.0	42.1		105	80 - 120	P
Arsenic	mg/Kg	40.0	40.5		101	80 - 120	P
Barium	mg/Kg	10.0	9.46		95	80 - 120	P
Beryllium	mg/Kg	10.0	10.1		101	80 - 120	P
Cadmium	mg/Kg	10.0	9.62		96	80 - 120	P
Calcium	mg/Kg	50.0	51.7	J	103	80 - 120	P
Chromium	mg/Kg	20.0	20.8		104	80 - 120	P
Cobalt	mg/Kg	10.0	9.93		99	80 - 120	P
Copper	mg/Kg	15.0	15.8		105	80 - 120	P
Iron	mg/Kg	150	153		102	80 - 120	P
Lead	mg/Kg	50.0	48.5		97	80 - 120	P
Magnesium	mg/Kg	100	101		101	80 - 120	P
Manganese	mg/Kg	10.0	10.2		102	80 - 120	P
Nickel	mg/Kg	25.0	25.0		100	80 - 120	P
Potassium	mg/Kg	500	494		99	80 - 120	P
Selenium	mg/Kg	100	104		104	80 - 120	P
Silver	mg/Kg	3.8	3.87		102	80 - 120	P
Sodium	mg/Kg	150	140		93	80 - 120	P
Thallium	mg/Kg	100	108		108	80 - 120	P
Vanadium	mg/Kg	15.0	15.4		103	80 - 120	P
Zinc	mg/Kg	10.0	10.5		105	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169231BS Mercury	mg/Kg	0.27	0.24		88	80 - 120	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TG-S05L

Lab Name: Alliance **Contract:** PORT06
Lab Code: ACE **Lb No.:** lb136801 **Lab Sample ID :** Q2832-09L **SDG No.:** Q2832
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Differ-ence	Q	M
Aluminum	3310		3670		11		P
Antimony	7.25		7.47	J	3		P
Arsenic	23.7		26.1		10		P
Barium	217		236		9		P
Beryllium	0.83		0.99	J	19		P
Cadmium	1.71		1.34	J	22		P
Calcium	4400		5040		15		P
Chromium	40.4		46.3		15		P
Cobalt	7.36		7.27		1		P
Copper	206		242		17		P
Iron	35300		39700		12		P
Lead	544		571		5		P
Magnesium	1030		1170		14		P
Manganese	162		186		15		P
Nickel	26.0		26.4		2		P
Potassium	479		540		13		P
Selenium	2.73		3.04	J	12		P
Silver	1.19		1.48	J	24		P
Sodium	162		191	J	18		P
Thallium	1.87	U	9.36	U			P
Vanadium	28.5		32.3		13		P
Zinc	118		130		11		P

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

0804-SOILL

Lab Name: Alliance

Contract: PORT06

Lab Code: ACE

Lb No.: lb136799

Lab Sample ID : Q2840-01L

SDG No.: Q2832

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.17	0.14	13		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Method:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169215							
PB169215BL	PB169215BL	MB	SOLID	08/12/2025	2.00	100.0	100.00
PB169215BS	PB169215BS	LCS	SOLID	08/12/2025	2.00	100.0	100.00
Q2832-01	TG-S01	SAM	SOLID	08/12/2025	2.14	100.0	93.40
Q2832-03	TG-S02	SAM	SOLID	08/12/2025	2.12	100.0	94.00
Q2832-05	TG-S03	SAM	SOLID	08/12/2025	2.20	100.0	93.80
Q2832-07	TG-S04	SAM	SOLID	08/12/2025	2.21	100.0	93.10
Q2832-09	TG-S05	SAM	SOLID	08/12/2025	2.35	100.0	90.90
Q2832-09DUP	TG-S05DUP	DUP	SOLID	08/12/2025	2.30	100.0	90.90
Q2832-09MS	TG-S05MS	MS	SOLID	08/12/2025	2.31	100.0	90.90
Q2832-09MSD	TG-S05MSD	MSD	SOLID	08/12/2025	2.32	100.0	90.90

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q2832

Contract: PORT06

Lab Code: ACE

Method:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169231							
PB169231BL	PB169231BL	MB	SOLID	08/13/2025	0.51	35.0	100.00
PB169231BS	PB169231BS	LCS	SOLID	08/13/2025	0.51	35.0	100.00
Q2832-01	TG-S01	SAM	SOLID	08/13/2025	0.56	35.0	93.40
Q2832-03	TG-S02	SAM	SOLID	08/13/2025	0.55	35.0	94.00
Q2832-05	TG-S03	SAM	SOLID	08/13/2025	0.56	35.0	93.80
Q2832-07	TG-S04	SAM	SOLID	08/13/2025	0.56	35.0	93.10
Q2832-09	TG-S05	SAM	SOLID	08/13/2025	0.52	35.0	90.90
Q2840-01DUP	0804-SOILDUP	DUP	SOLID	08/13/2025	0.56	35.0	82.20
Q2840-01MS	0804-SOILMS	MS	SOLID	08/13/2025	0.56	35.0	82.20
Q2840-01MSD	0804-SOILMSD	MSD	SOLID	08/13/2025	0.52	35.0	82.20

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture

Contract: PORT06

Lab code: ACE

Sdg no.: Q2832

Instrument id number: _____

Method: _____

Run number: LB136799

Start date: 08/13/2025

End date: 08/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1411	HG
S0.2	S0.2	1	1413	HG
S2.5	S2.5	1	1415	HG
S5	S5	1	1417	HG
S7.5	S7.5	1	1420	HG
S10	S10	1	1422	HG
ICV13	ICV13	1	1439	HG
ICB13	ICB13	1	1441	HG
CCV38	CCV38	1	1444	HG
CCB38	CCB38	1	1446	HG
CRA	CRA	1	1448	HG
PB169231BL	PB169231BL	1	1455	HG
PB169231BS	PB169231BS	1	1457	HG
Q2832-03	TG-S02	1	1502	HG
Q2832-05	TG-S03	1	1505	HG
Q2832-07	TG-S04	1	1508	HG
Q2832-09	TG-S05	1	1511	HG
CCV39	CCV39	1	1513	HG
CCB39	CCB39	1	1515	HG
Q2840-01DUP	0804-SOILDUP	1	1525	HG
Q2840-01MS	0804-SOILMS	1	1527	HG
Q2840-01MSD	0804-SOILMSD	1	1532	HG
Q2840-01L	0804-SOILL	5	1540	HG
Q2840-01A	0804-SOILA	1	1542	HG
Q2832-01	TG-S01	5	1544	HG
CCV40	CCV40	1	1547	HG
CCB40	CCB40	1	1549	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture

Contract: PORT06

Lab code: ACE

Sdg no.: Q2832

Instrument id number:

Method:

Run number: LB136801

Start date: 08/13/2025

End date: 08/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1237	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1241	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1245	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1258	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169215BL	PB169215BL	1	1515	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1523	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1614	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09	TG-S05	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09DUP	TG-S05DUP	1	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09L	TG-S05L	5	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1705	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1709	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09MS	TG-S05MS	1	1713	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09MSD	TG-S05MSD	1	1717	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-09A	TG-S05A	1	1721	Cr,Na,V
Q2832-03	TG-S02	1	1725	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-05	TG-S03	1	1729	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-07	TG-S04	1	1733	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169215BS	PB169215BS	1	1742	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1746	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture

Contract: PORT06

Lab code: ACE

Sdg no.: Q2832

Instrument id number:

Method:

Run number: LB136837

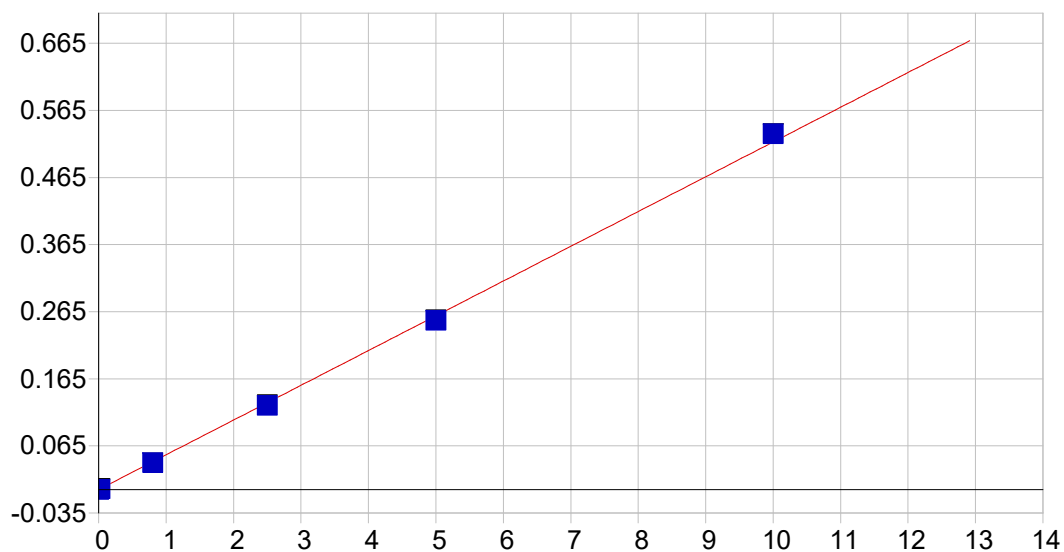
Start date: 08/14/2025

End date: 08/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1139	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1144	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1152	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1209	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1213	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1227	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1254	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2832-01	TG-S01	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1558	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1602	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL RAW DATA

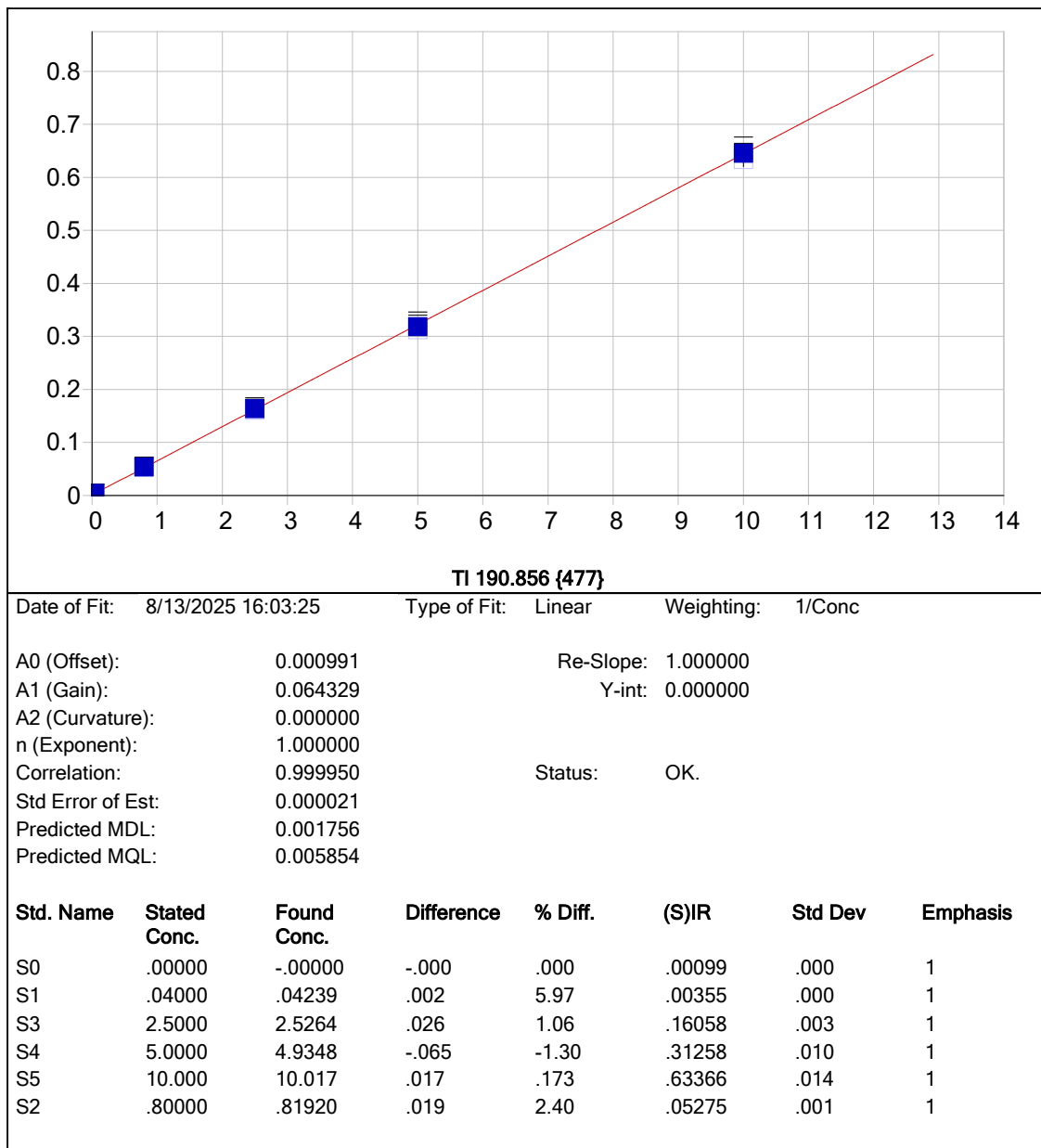


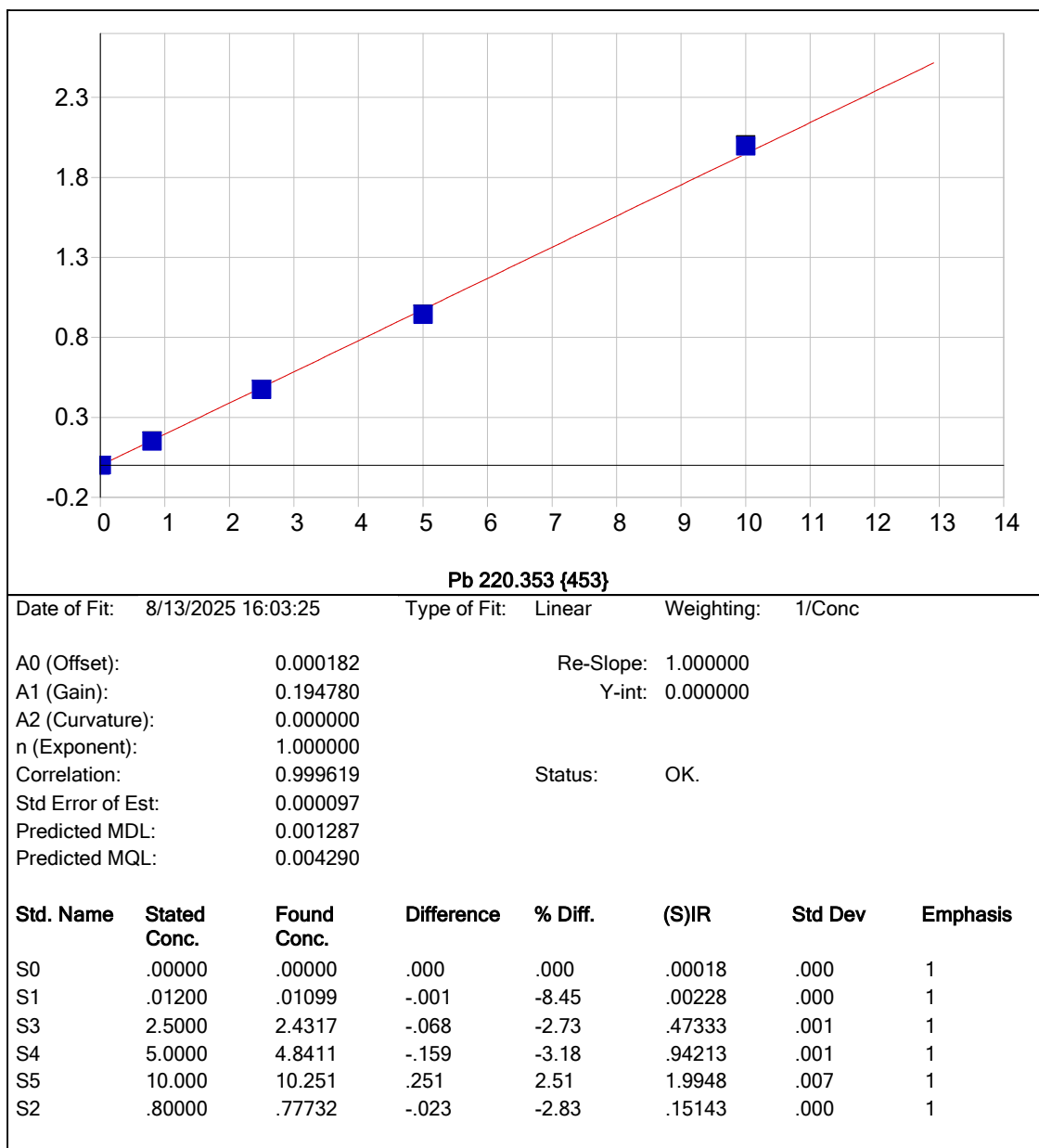
As 189.042 {479}

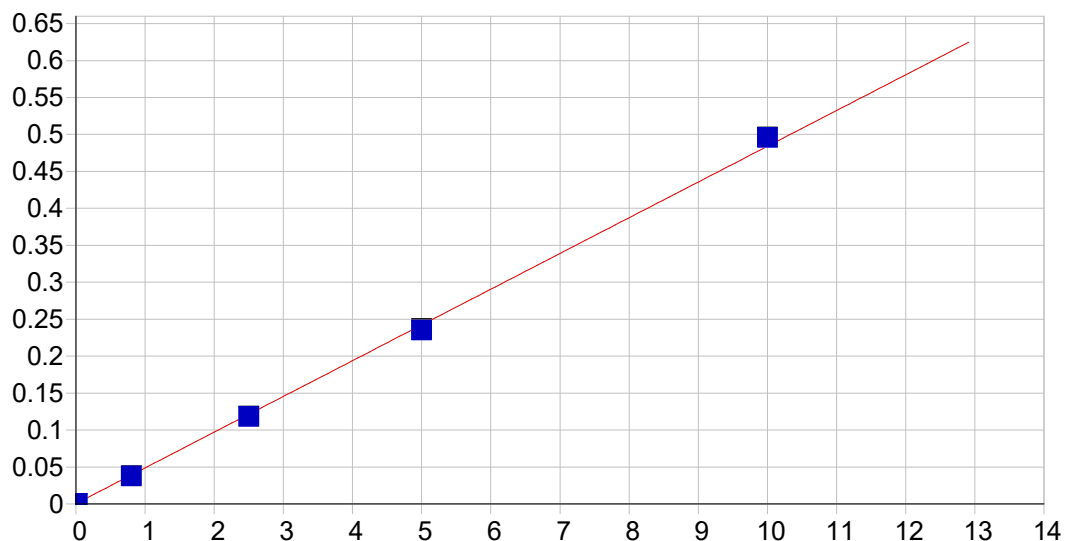
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000117 Re-Slope: 1.000000
A1 (Gain): 0.051802 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999647 Status: OK.
Std Error of Est: 0.000032
Predicted MDL: 0.002146
Predicted MQL: 0.007153

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00012	.000	1
S1	.02000	.02154	.002	7.68	.00099	.000	1
S3	2.5000	2.4240	-.076	-3.04	.12531	.001	1
S4	5.0000	4.8667	-.133	-2.67	.25171	.001	1
S5	10.000	10.239	.239	2.39	.52972	.001	1
S2	.80000	.76889	-.031	-3.89	.03967	.000	1





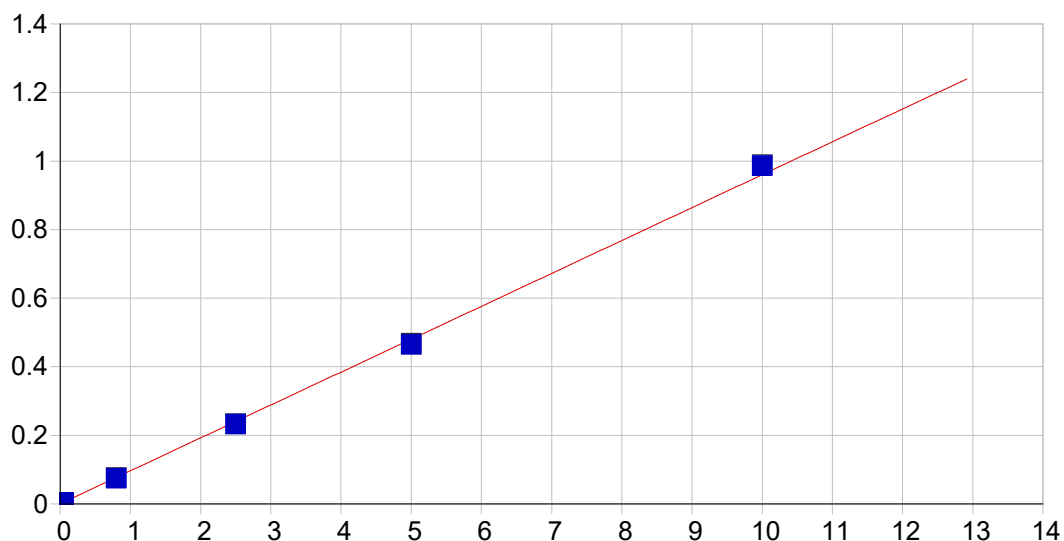


Se 196.090 {472}

Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.000420	Re-Slope:	1.000000
A1 (Gain):	0.048357	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.002878		
Predicted MQL:	0.009594		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00042	.000	1
S1	.02000	.01951	-.000	-2.46	.00136	.000	1
S3	2.5000	2.4318	-.068	-2.73	.11798	.001	1
S4	5.0000	4.8553	-.145	-2.89	.23514	.002	1
S5	10.000	10.242	.242	2.42	.49555	.001	1
S2	.80000	.77159	-.028	-3.55	.03772	.000	1

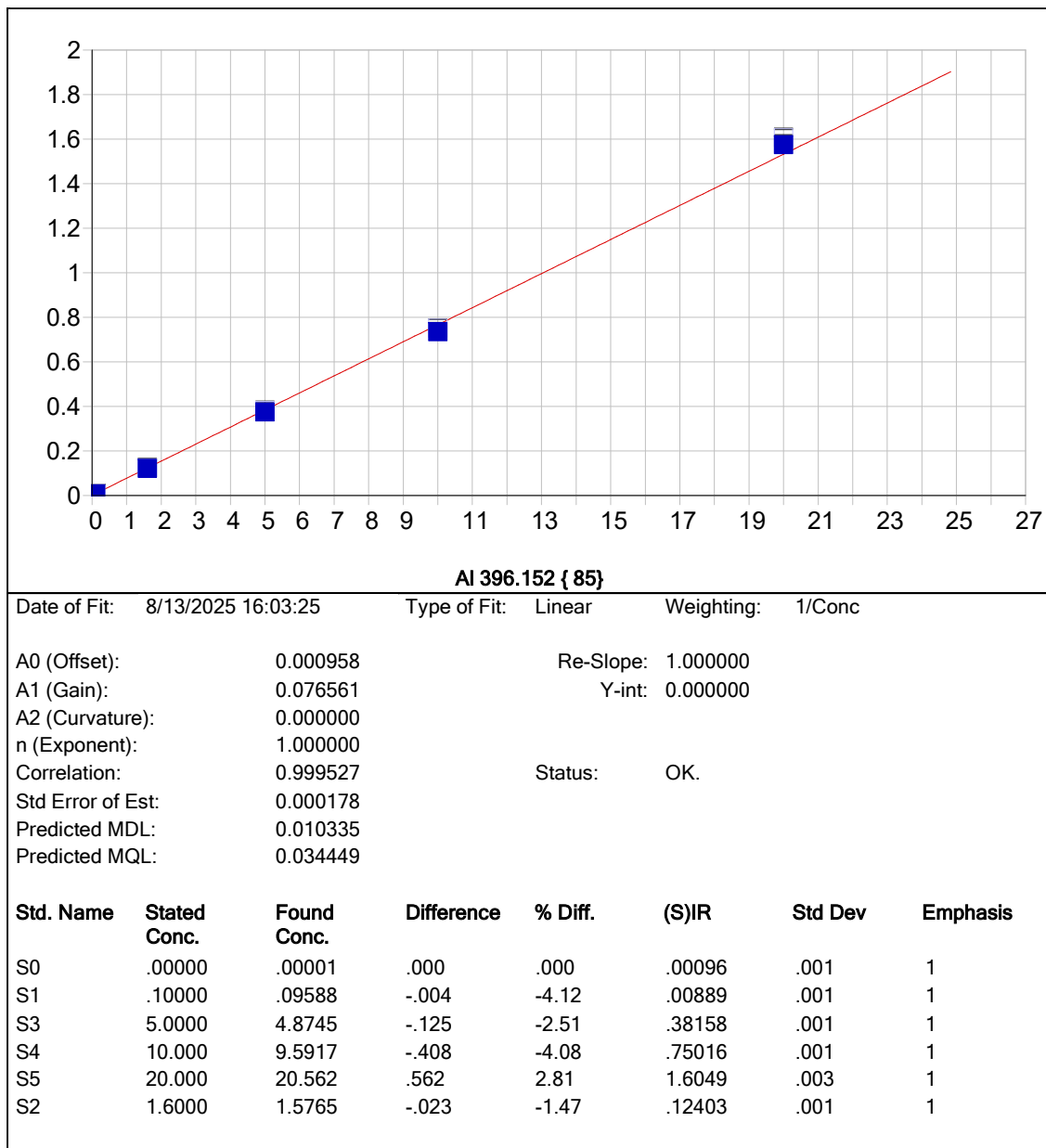


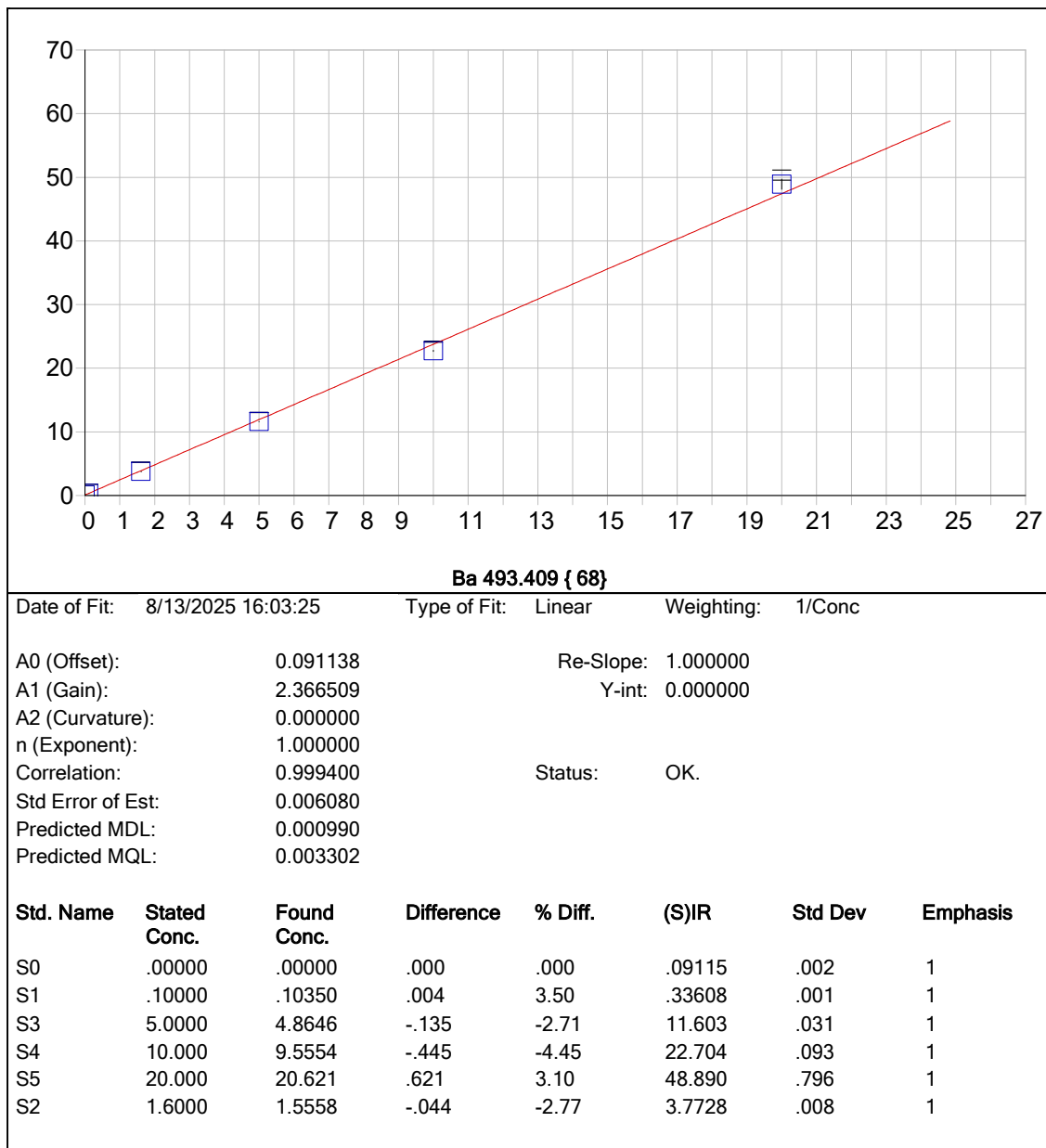
Sb 206.833 {463}

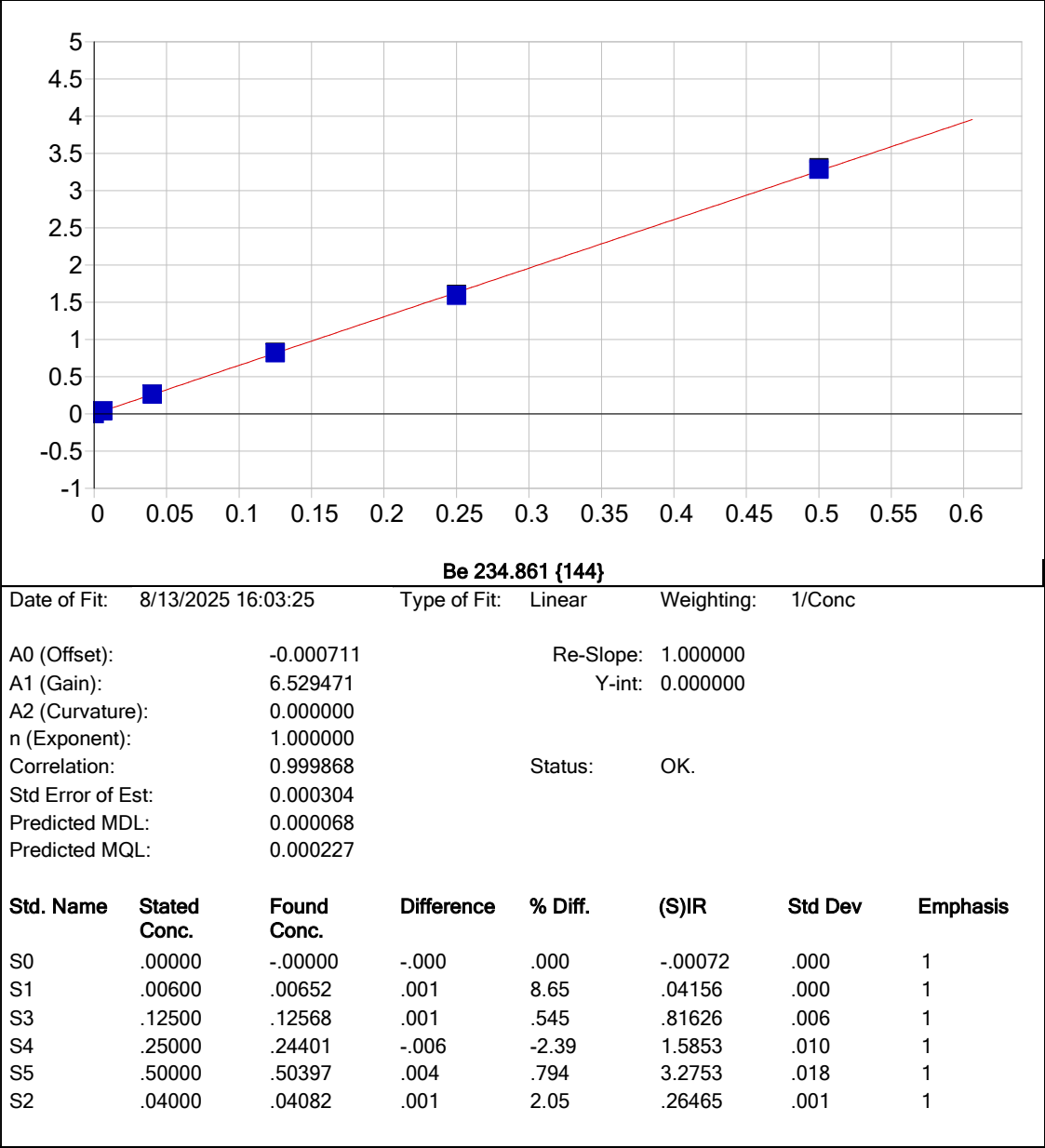
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

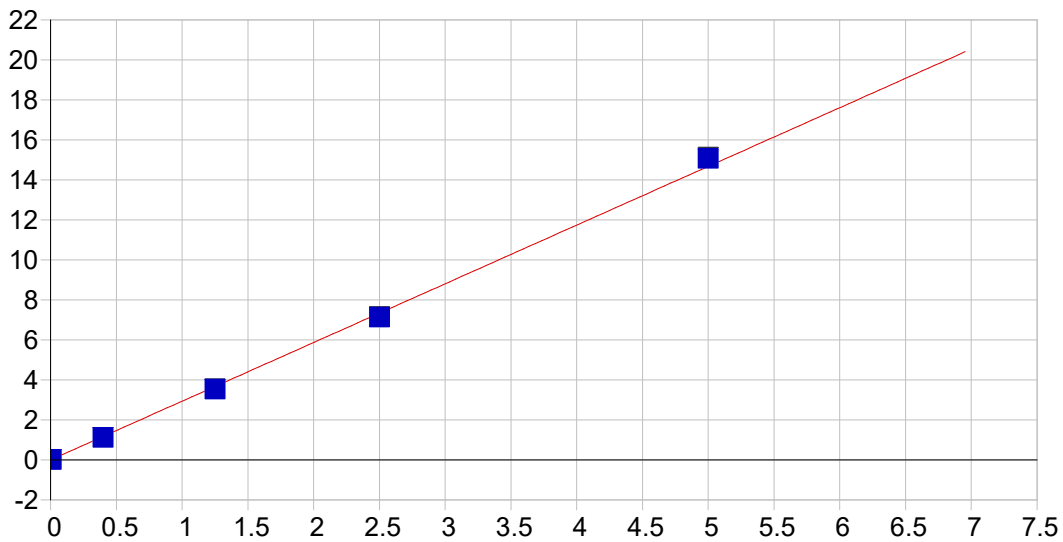
A0 (Offset): 0.000614 Re-Slope: 1.000000
A1 (Gain): 0.095945 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999554 Status: OK.
Std Error of Est: 0.000107
Predicted MDL: 0.001837
Predicted MQL: 0.006125

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00061	.000	1
S1	.05000	.05143	.001	2.86	.00556	.000	1
S3	2.5000	2.4172	-.083	-3.31	.23318	.001	1
S4	5.0000	4.8364	-.164	-3.27	.46595	.002	1
S5	10.000	10.272	.272	2.72	.98878	.001	1
S2	.80000	.77287	-.027	-3.39	.07498	.000	1







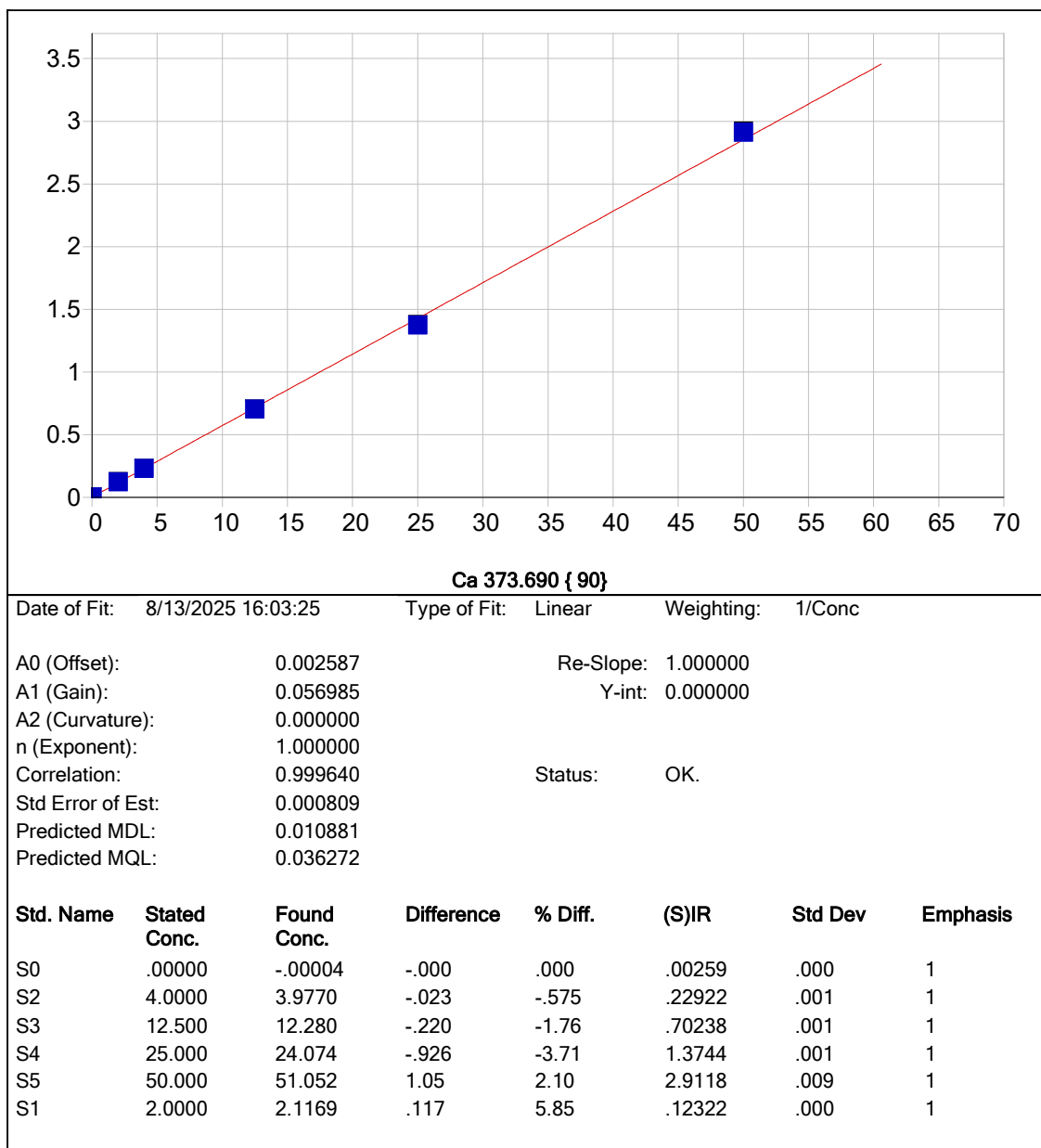


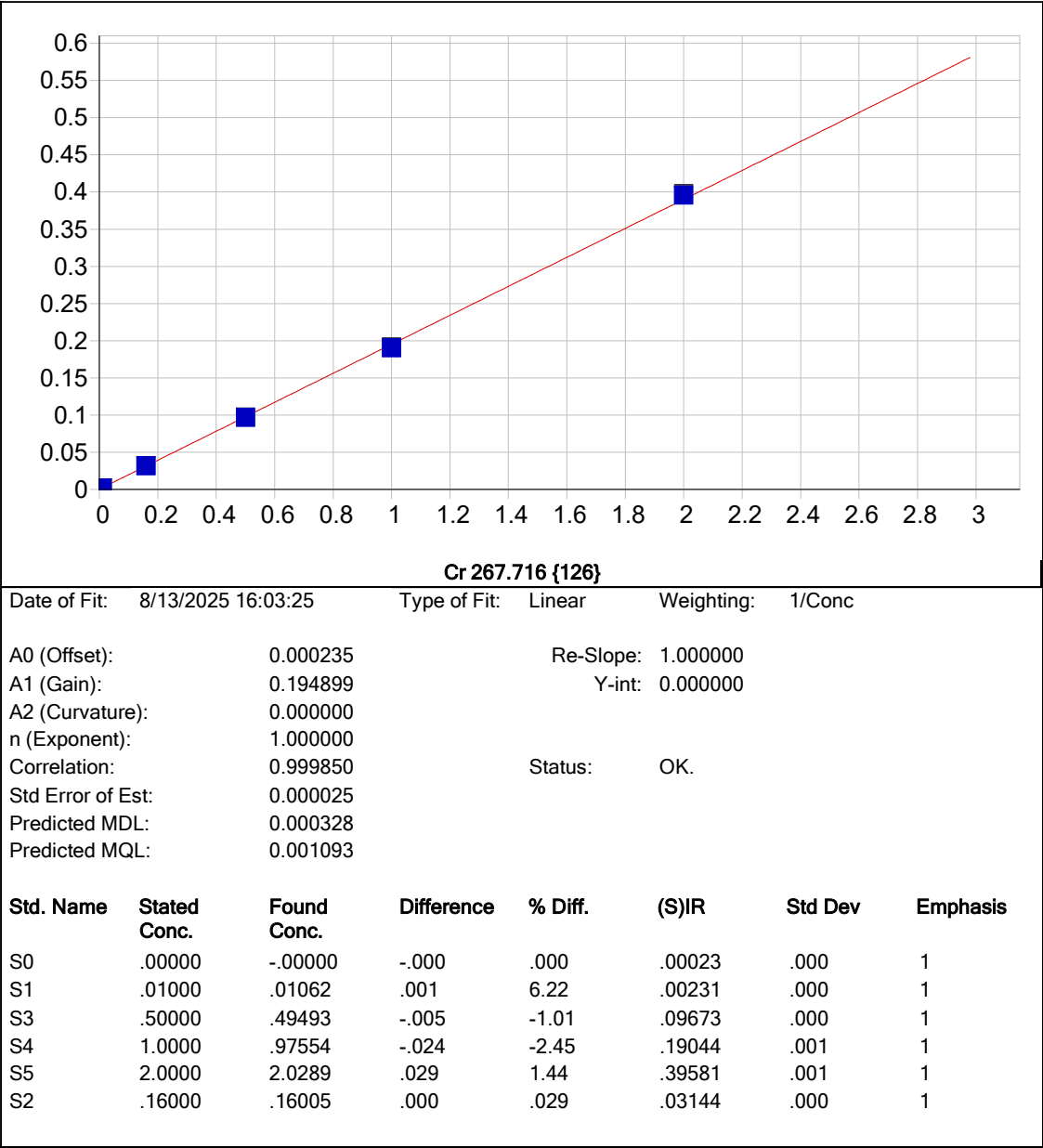
Cd 226.502 {449}

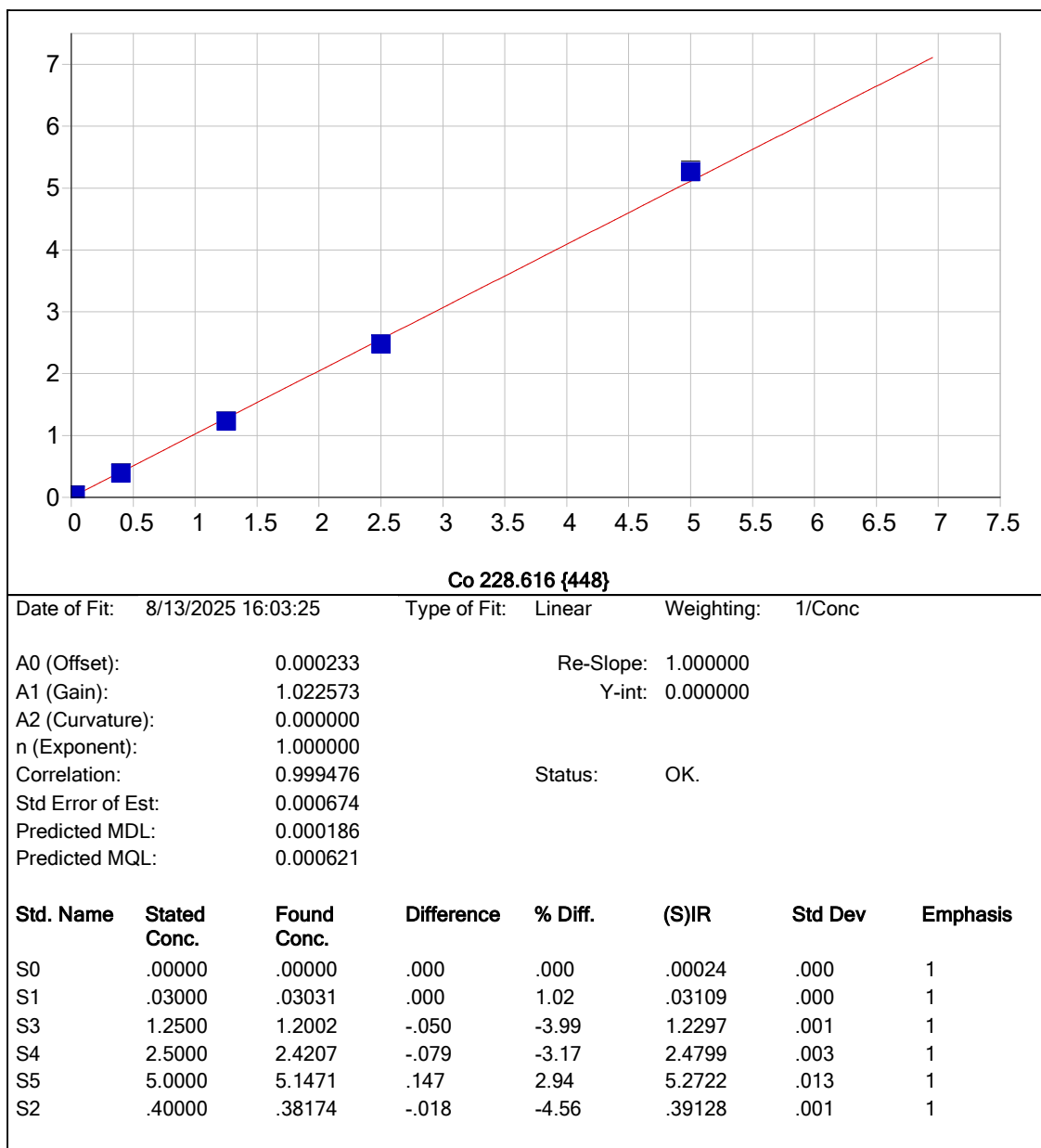
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

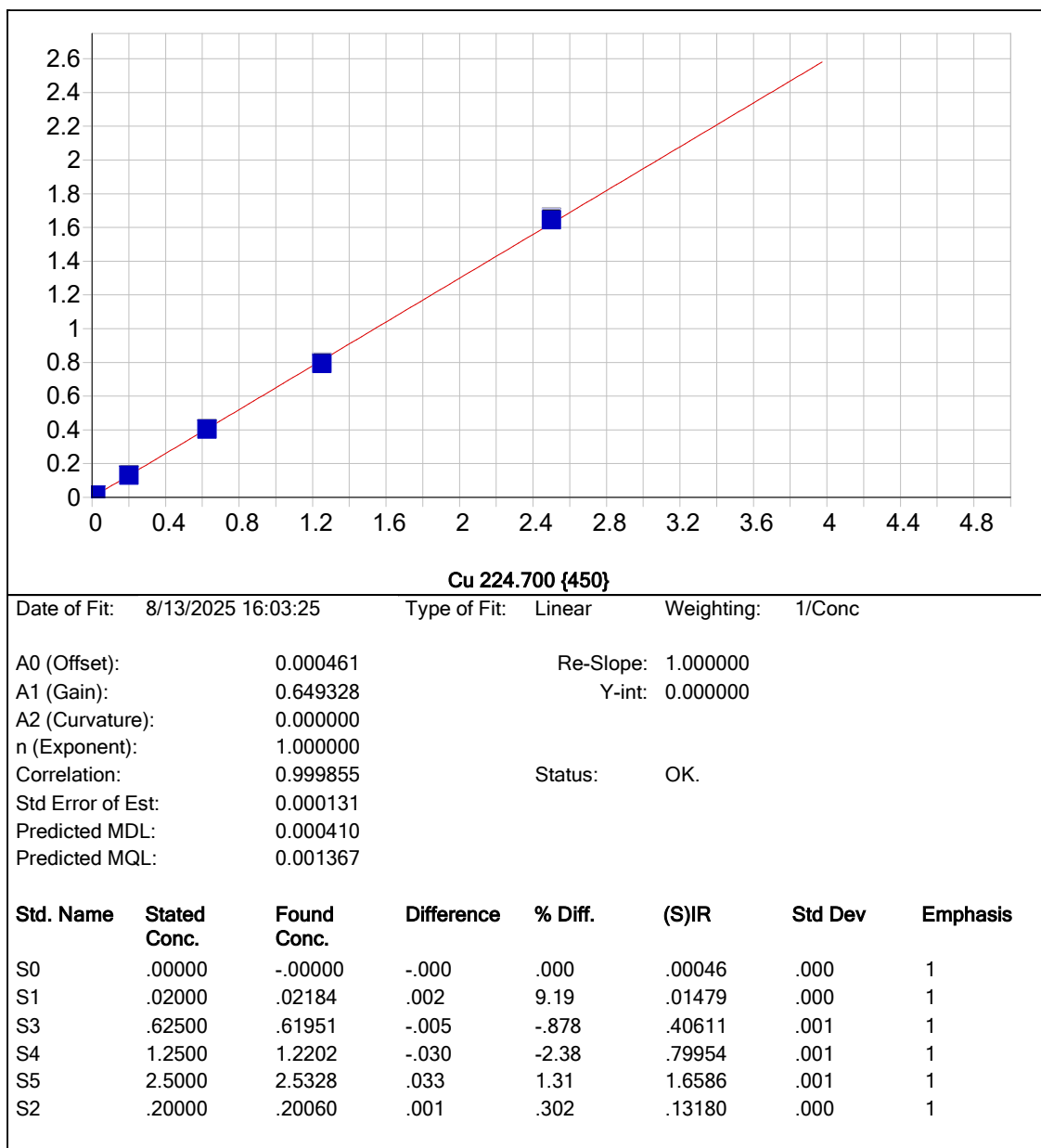
A0 (Offset): 0.000006 Re-Slope: 1.000000
A1 (Gain): 2.935216 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999545 Status: OK.
Std Error of Est: 0.000805
Predicted MDL: 0.000073
Predicted MQL: 0.000244

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.00600	.00575	-.000	-4.14	.01695	.000	1
S3	1.2500	1.2035	-.046	-3.72	3.5350	.002	1
S4	2.5000	2.4315	-.068	-2.74	7.1419	.005	1
S5	5.0000	5.1358	.136	2.72	15.084	.047	1
S2	.40000	.37946	-.021	-5.13	1.1146	.001	1



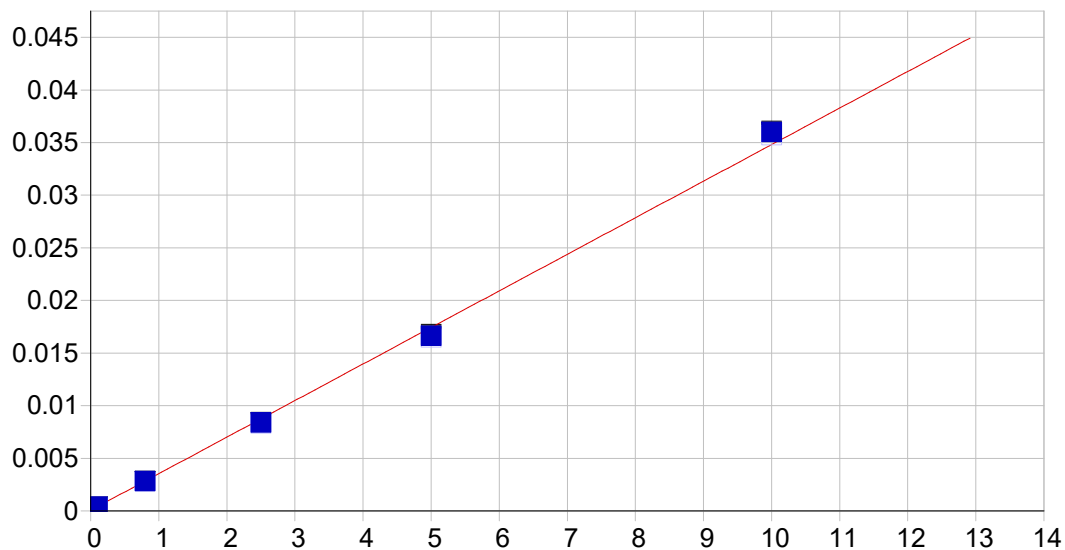






Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000461 Re-Slope: 1.000000
A1 (Gain): 0.649328 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999855 Status: OK.
Std Error of Est: 0.000131
Predicted MDL: 0.000410
Predicted MQL: 0.001367

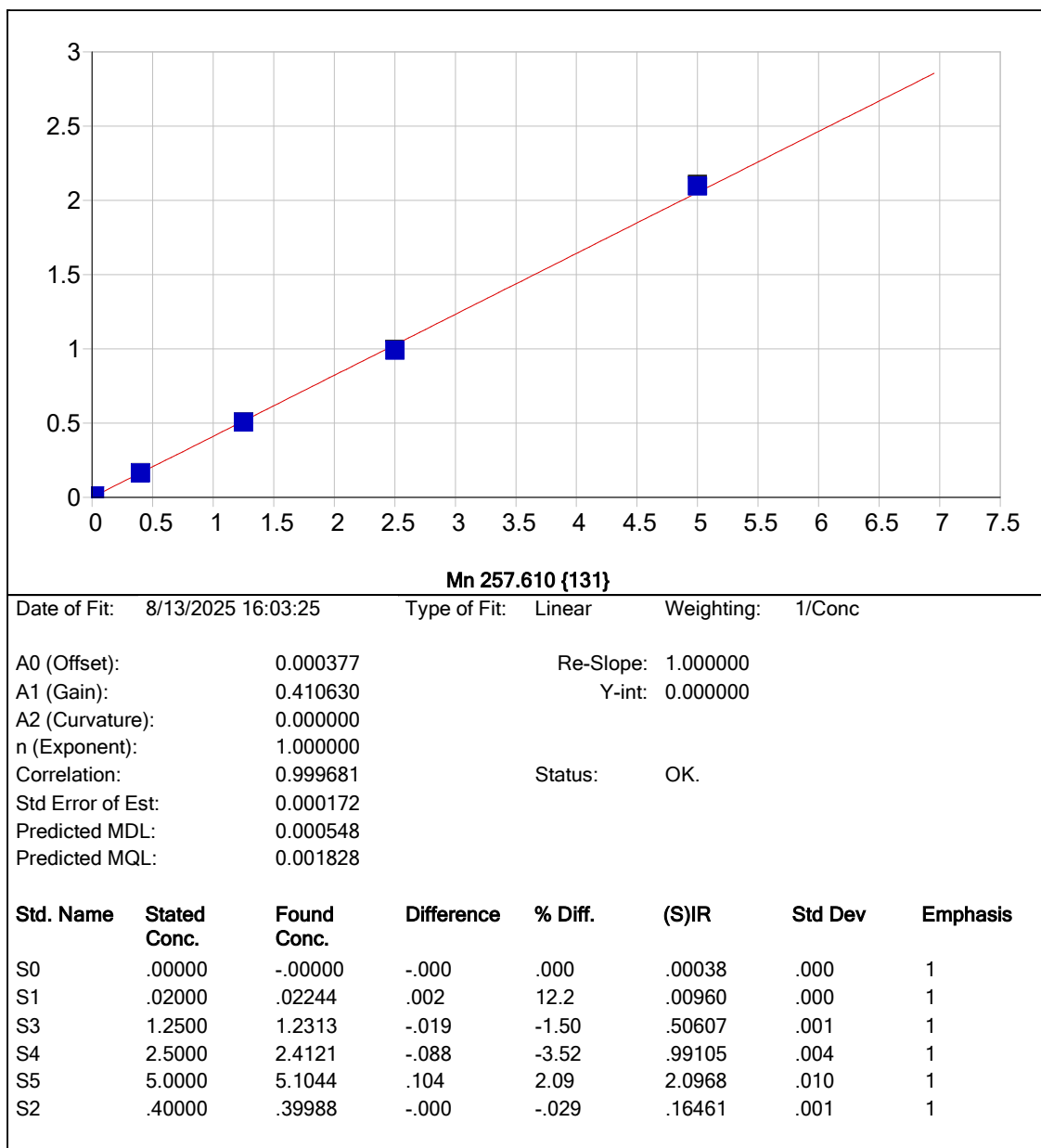


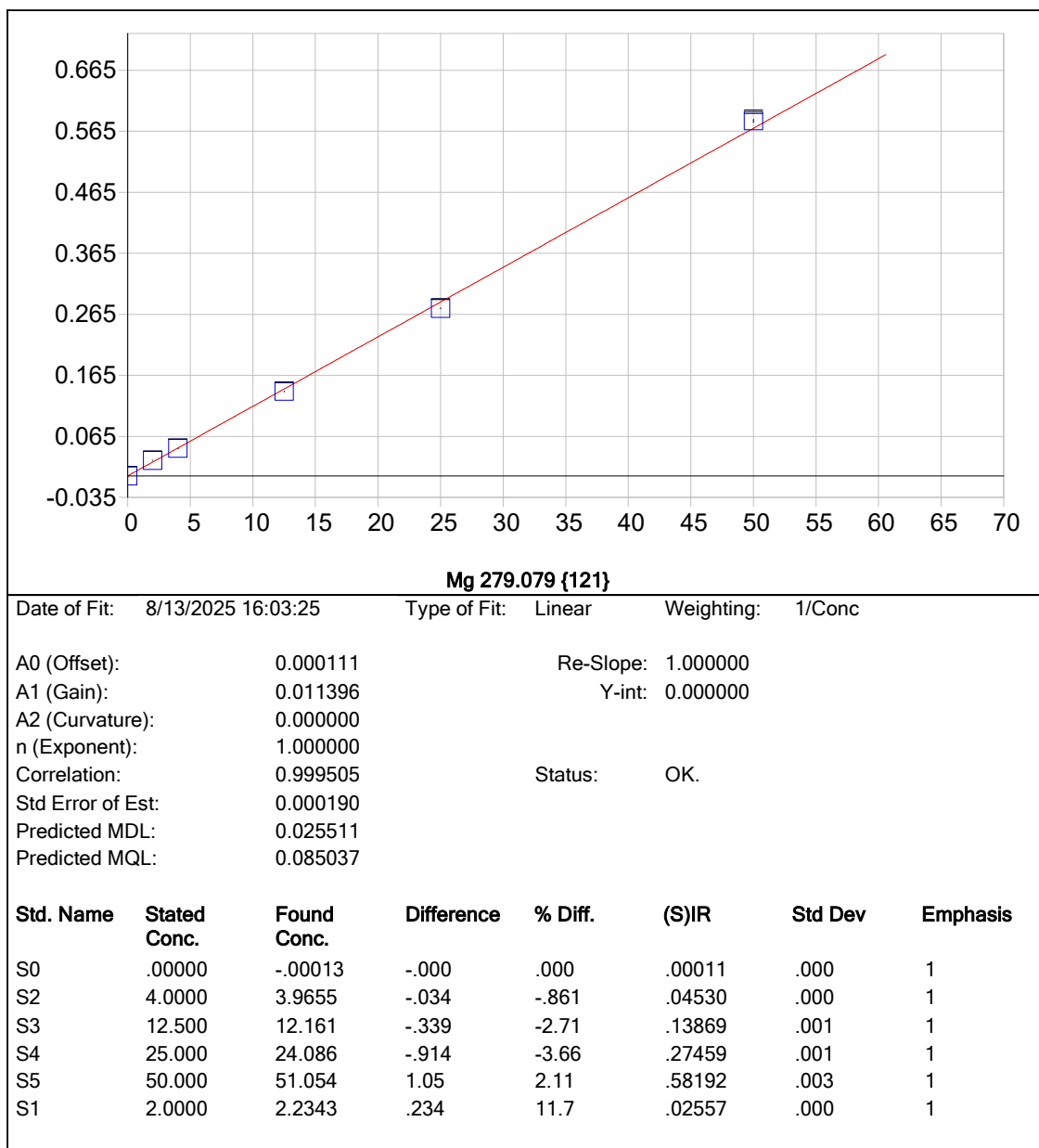
Fe 240.488 {140}

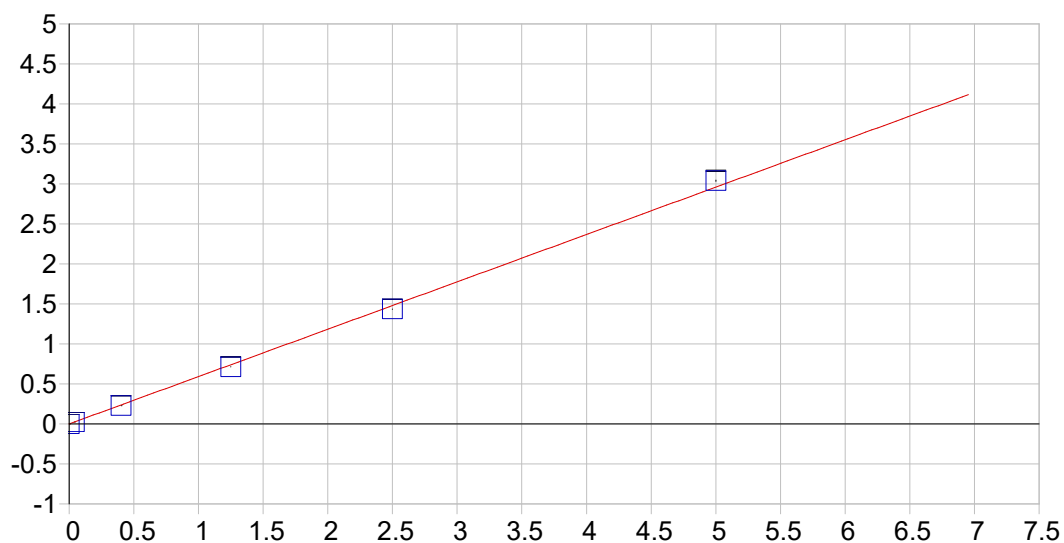
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000061 Re-Slope: 1.000000
A1 (Gain): 0.003475 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999264 Status: OK.
Std Error of Est: 0.000007
Predicted MDL: 0.006094
Predicted MQL: 0.020313

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00006	.000	1
S1	.10000	.09774	-.002	-2.26	.00040	.000	1
S3	2.5000	2.3953	-.105	-4.19	.00831	.000	1
S4	5.0000	4.7713	-.229	-4.57	.01649	.000	1
S5	10.000	10.342	.342	3.42	.03570	.000	1
S2	.80000	.79341	-.007	-.823	.00279	.000	1





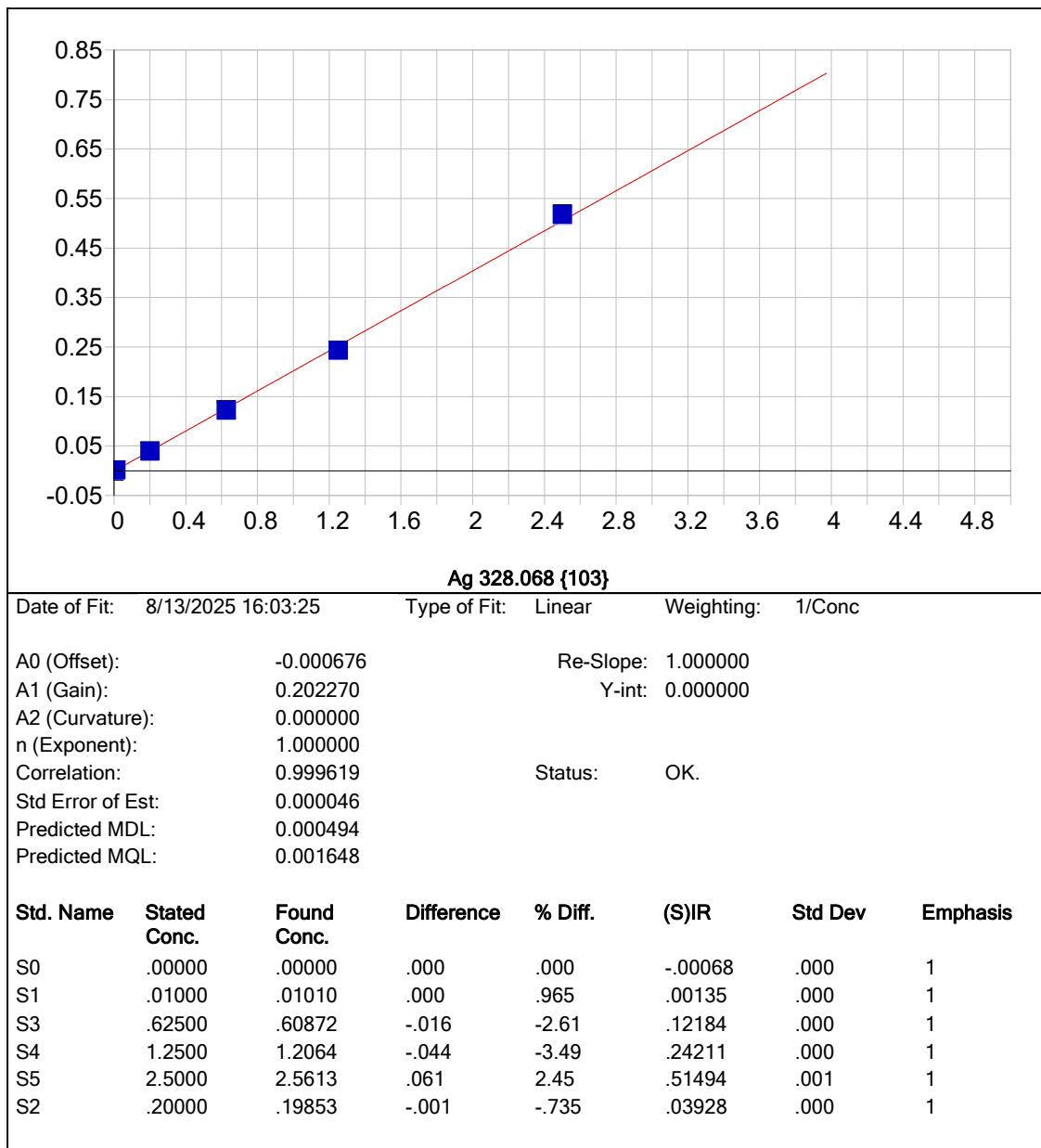


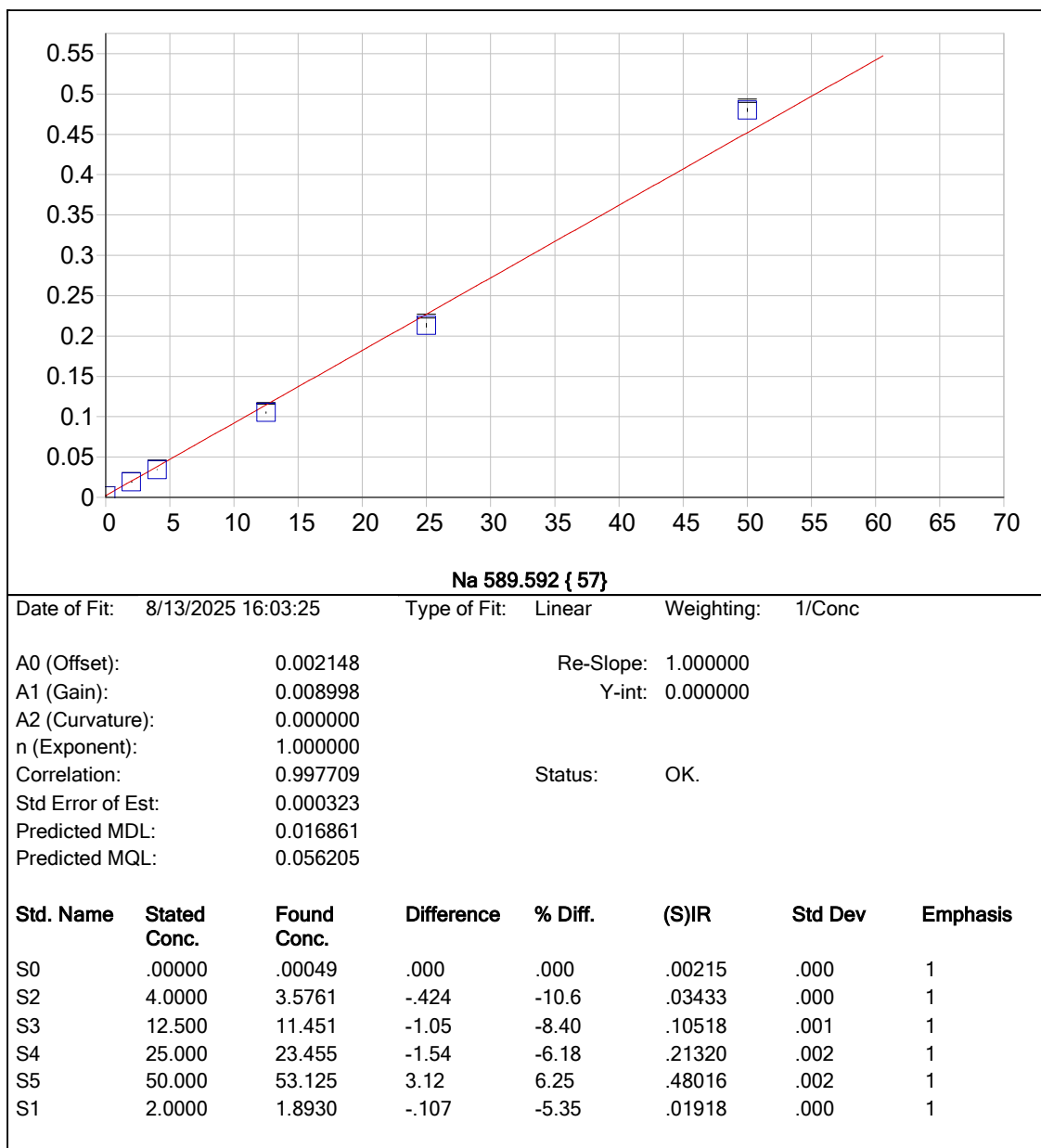
Ni 231.604 {446}

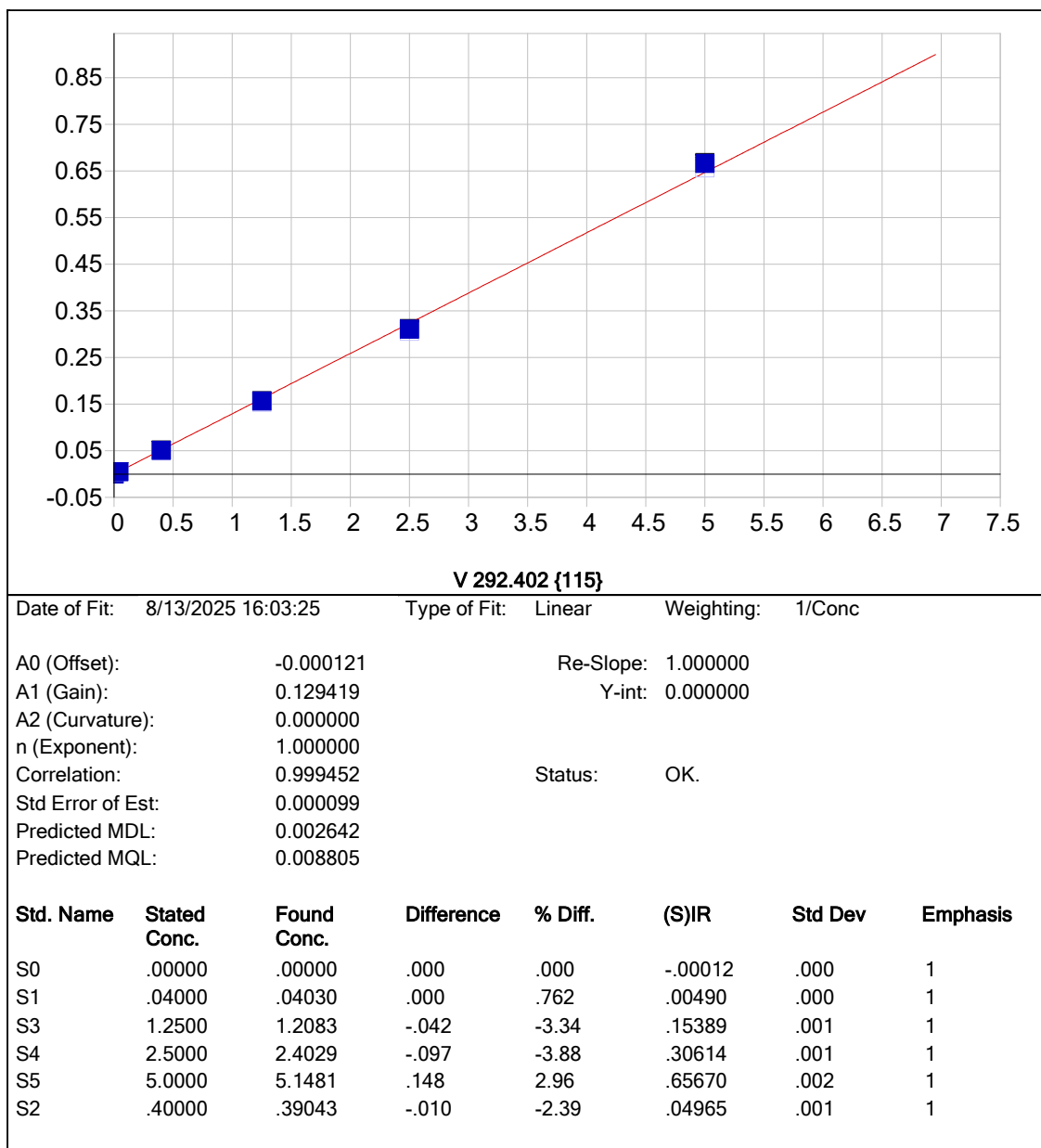
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

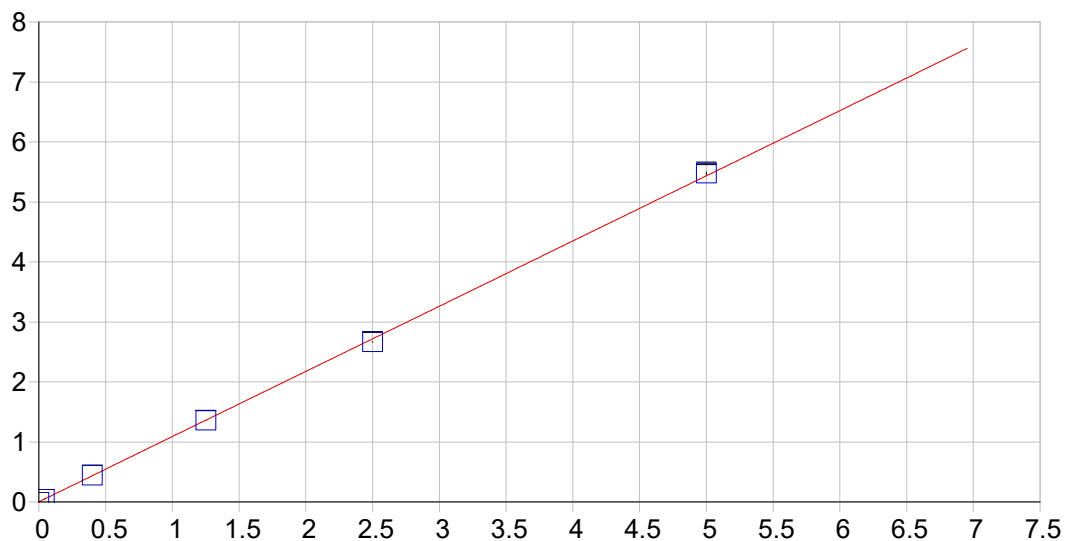
A0 (Offset): -0.000402 Re-Slope: 1.000000
A1 (Gain): 0.592023 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999554 Status: OK.
Std Error of Est: 0.000415
Predicted MDL: 0.000342
Predicted MQL: 0.001142

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00040	.000	1
S1	.04000	.04057	.001	1.42	.02361	.000	1
S3	1.2500	1.2056	-.044	-3.55	.71333	.001	1
S4	2.5000	2.4237	-.076	-3.05	1.4345	.002	1
S5	5.0000	5.1357	.136	2.71	3.0400	.008	1
S2	.40000	.38441	-.016	-3.90	.22718	.000	1







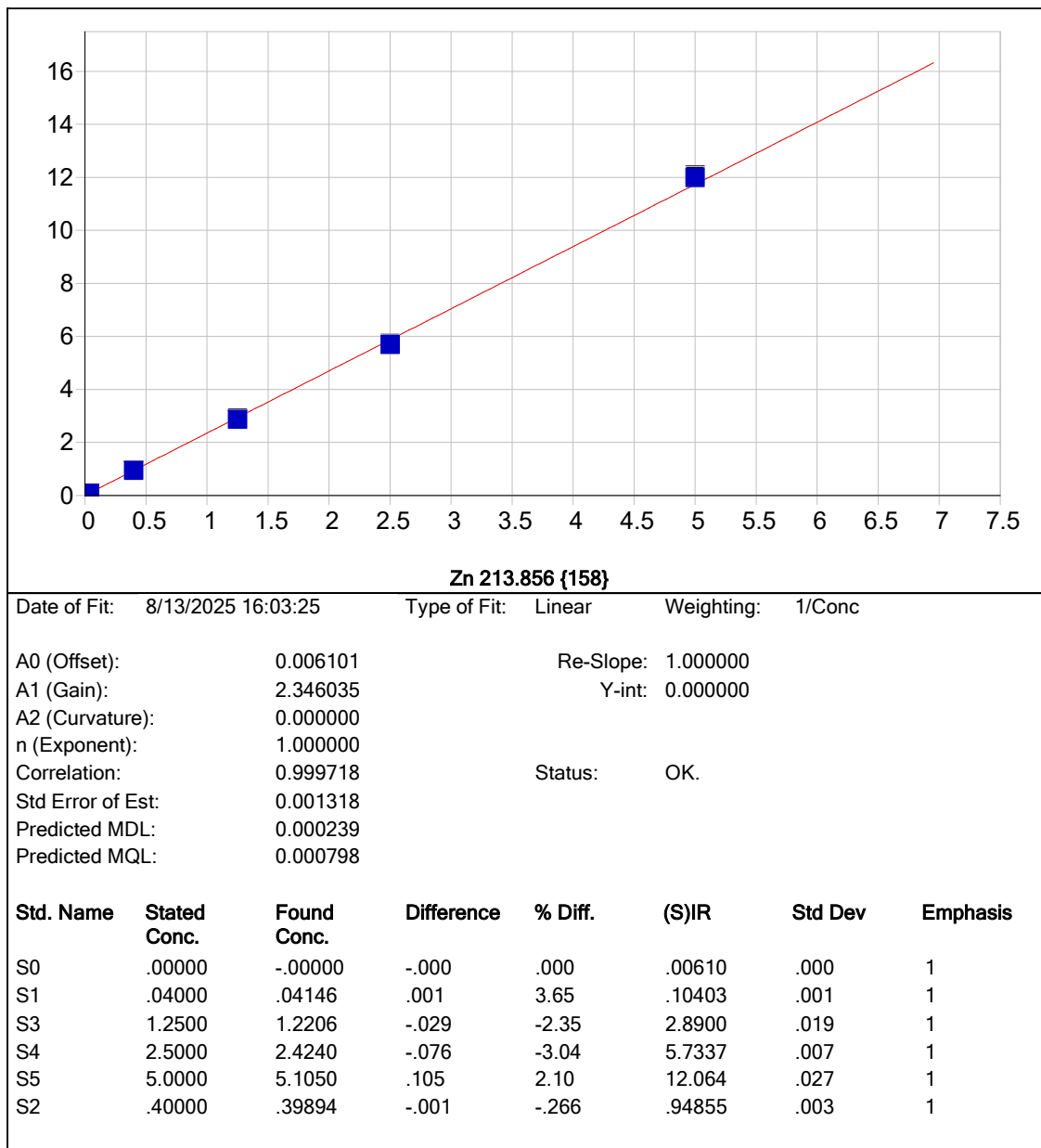


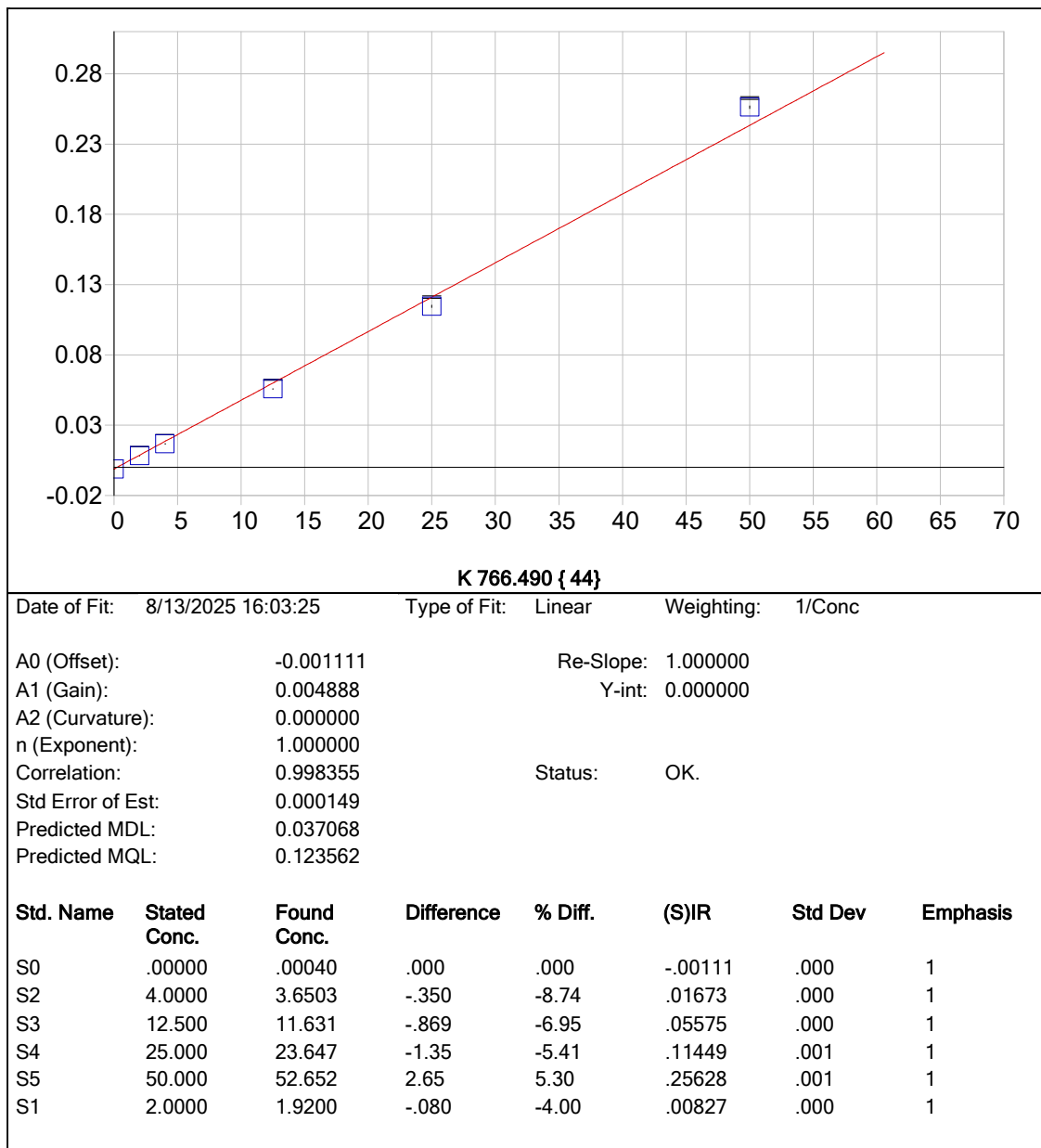
Zn 206.200 {464}

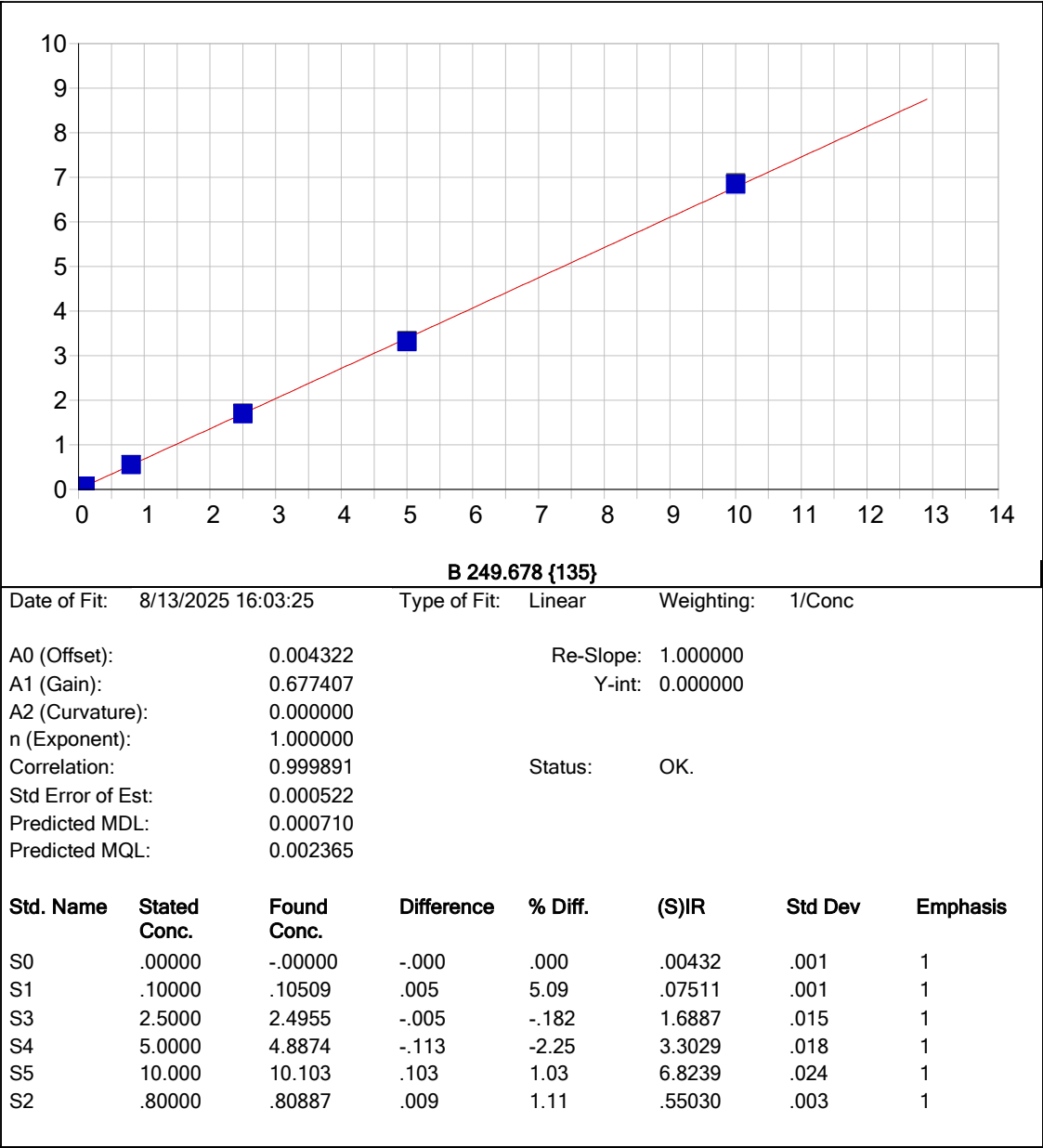
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

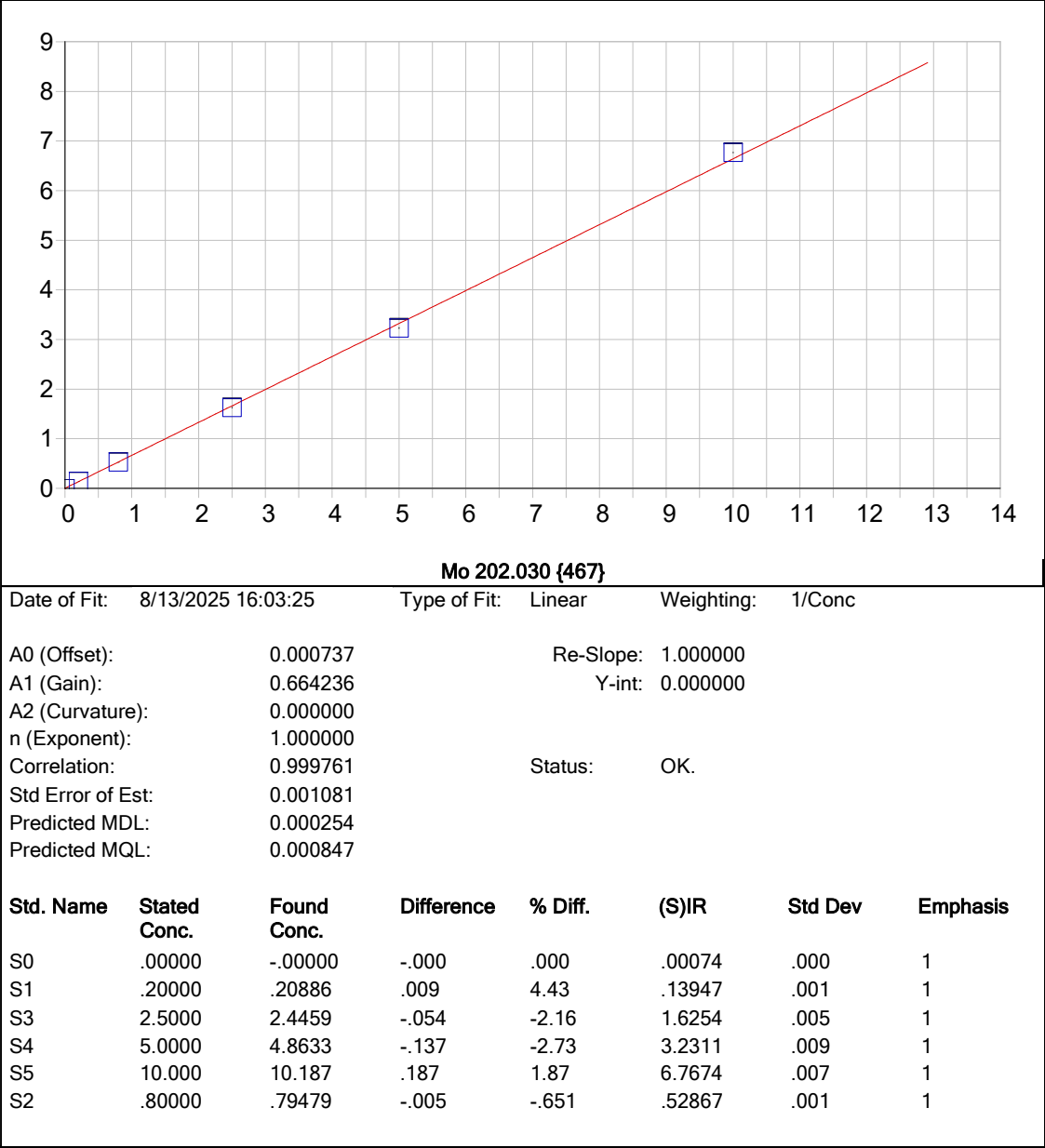
A0 (Offset):	0.002224	Re-Slope:	1.000000
A1 (Gain):	1.086588	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000323		
Predicted MDL:	0.000148		
Predicted MQL:	0.000494		

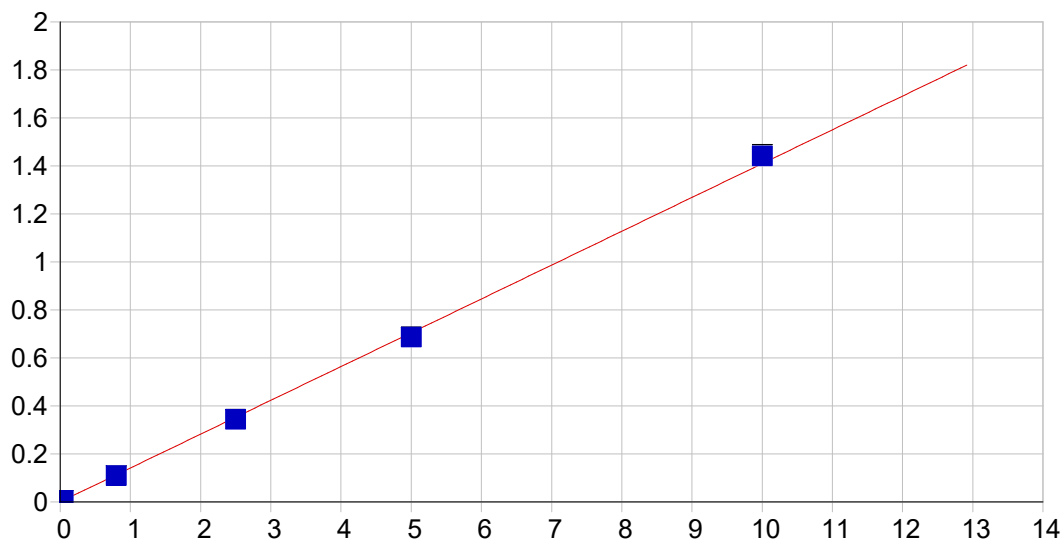
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00222	.000	1
S1	.04000	.04263	.003	6.58	.04855	.000	1
S3	1.2500	1.2478	-.002	-.173	1.3581	.001	1
S4	2.5000	2.4535	-.046	-1.86	2.6682	.006	1
S5	5.0000	5.0386	.039	.772	5.4771	.019	1
S2	.40000	.40741	.007	1.85	.44491	.001	1









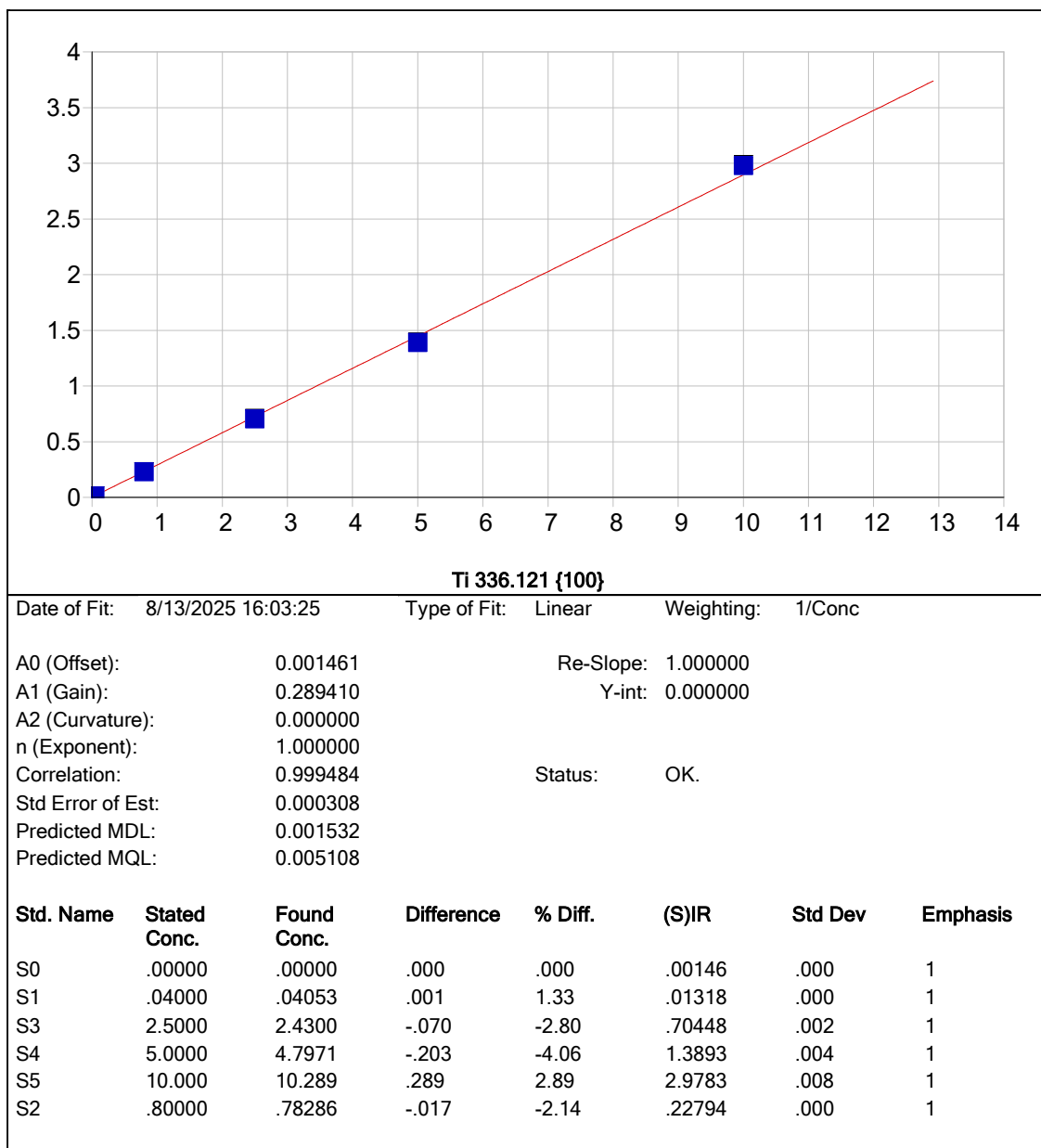


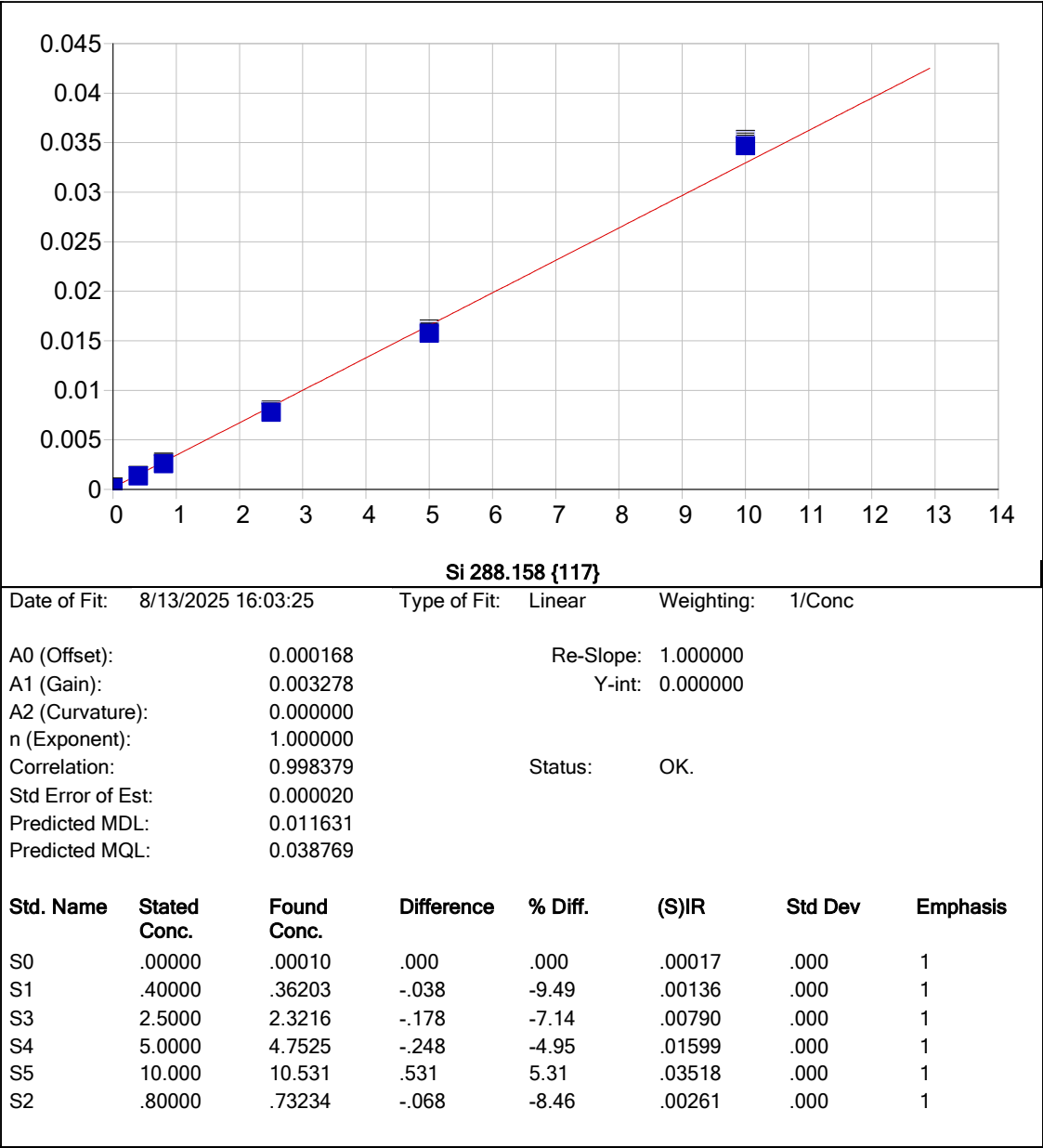
Sn 189.989 {478}

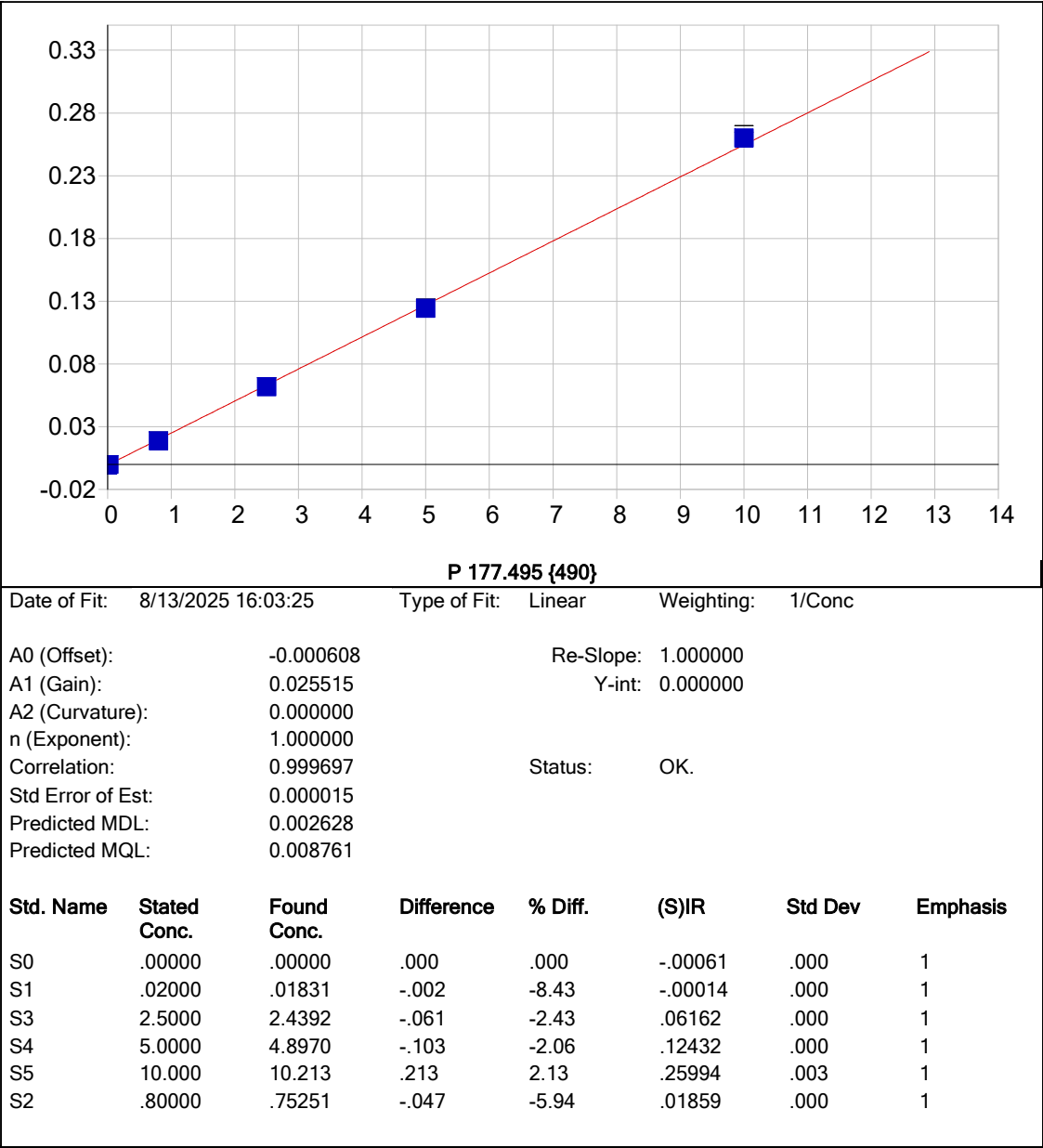
Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

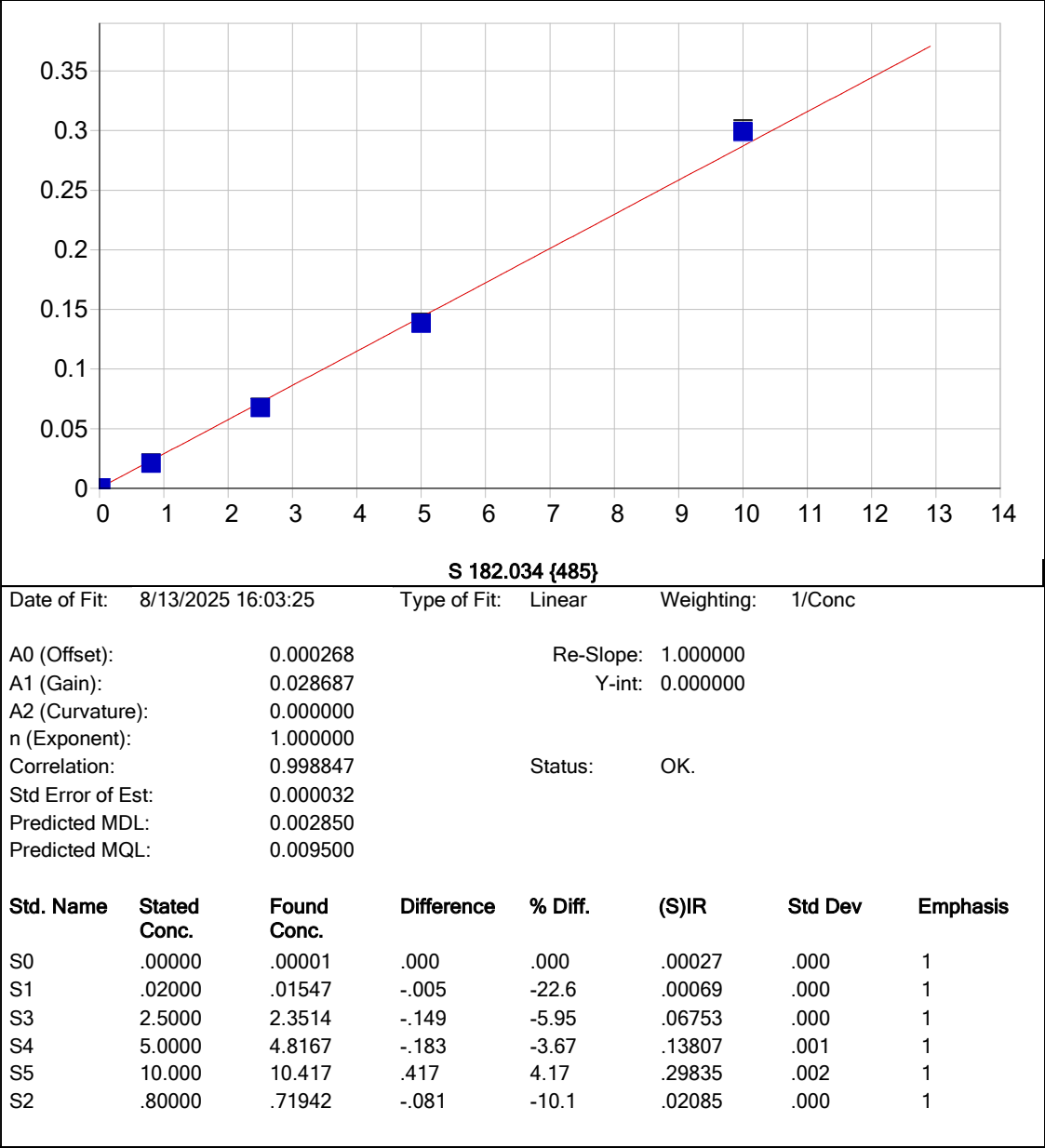
A0 (Offset): 0.000375 Re-Slope: 1.000000
A1 (Gain): 0.140910 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999689 Status: OK.
Std Error of Est: 0.000116
Predicted MDL: 0.000640
Predicted MQL: 0.002132

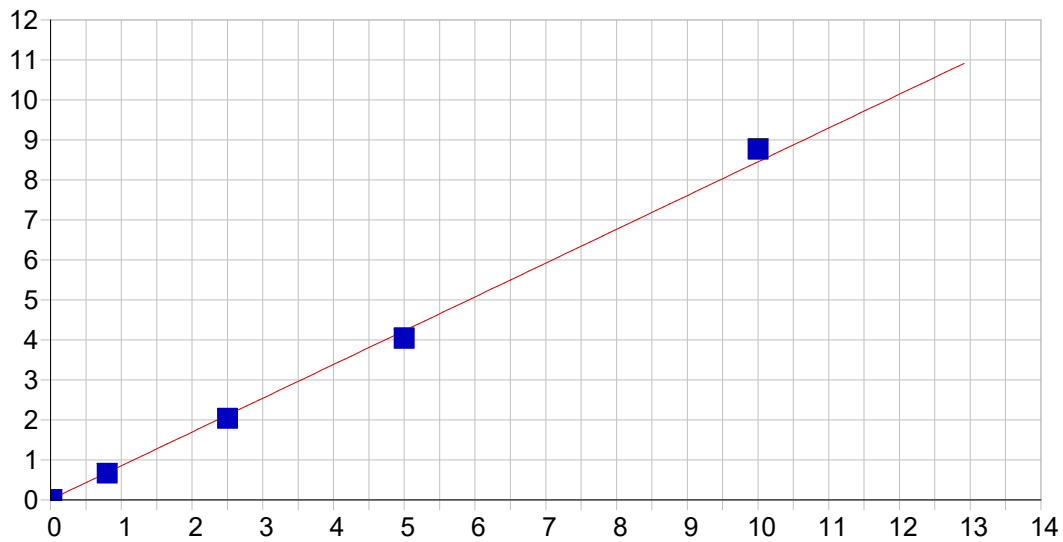
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00038	.000	1
S1	.04000	.04056	.001	1.40	.00608	.000	1
S3	2.5000	2.4362	-.064	-2.55	.34330	.000	1
S4	5.0000	4.8659	-.134	-2.68	.68531	.001	1
S5	10.000	10.226	.226	2.26	1.4399	.006	1
S2	.80000	.77101	-.029	-3.62	.10890	.000	1









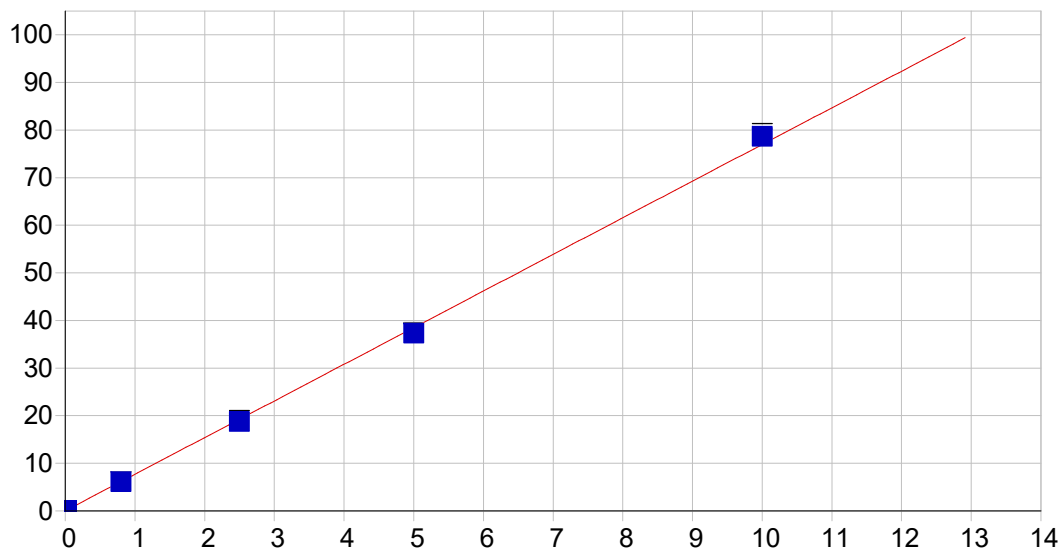


Li 670.784 { 50}

Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.008509 Re-Slope: 1.000000
A1 (Gain): 0.844447 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999199 Status: OK.
Std Error of Est: 0.000793
Predicted MDL: 0.001761
Predicted MQL: 0.005870

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00851	.002	1
S5	10.000	10.365	.365	3.65	8.7676	.018	1
S4	5.0000	4.7650	-.235	-4.70	4.0357	.015	1
S3	2.5000	2.3997	-.100	-4.01	2.0366	.003	1
S1	.02000	.01873	-.001	-6.35	.02462	.001	1
S2	.80000	.77199	-.028	-3.50	.66096	.001	1

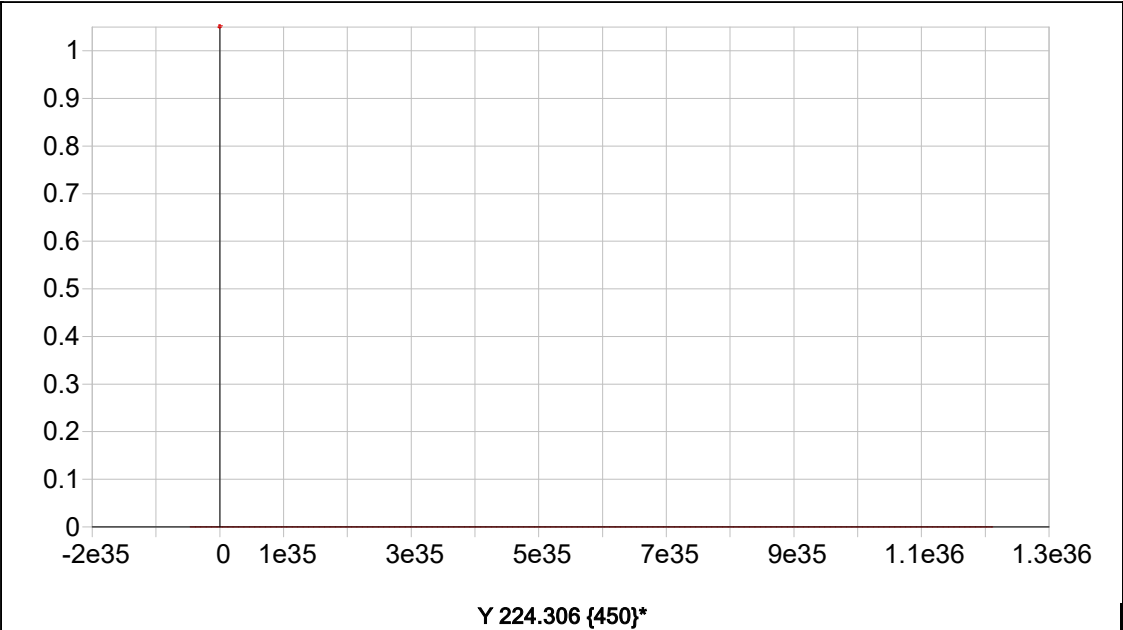


Sr 407.771 { 83}

Date of Fit: 8/13/2025 16:03:25 Type of Fit: Linear Weighting: 1/Conc

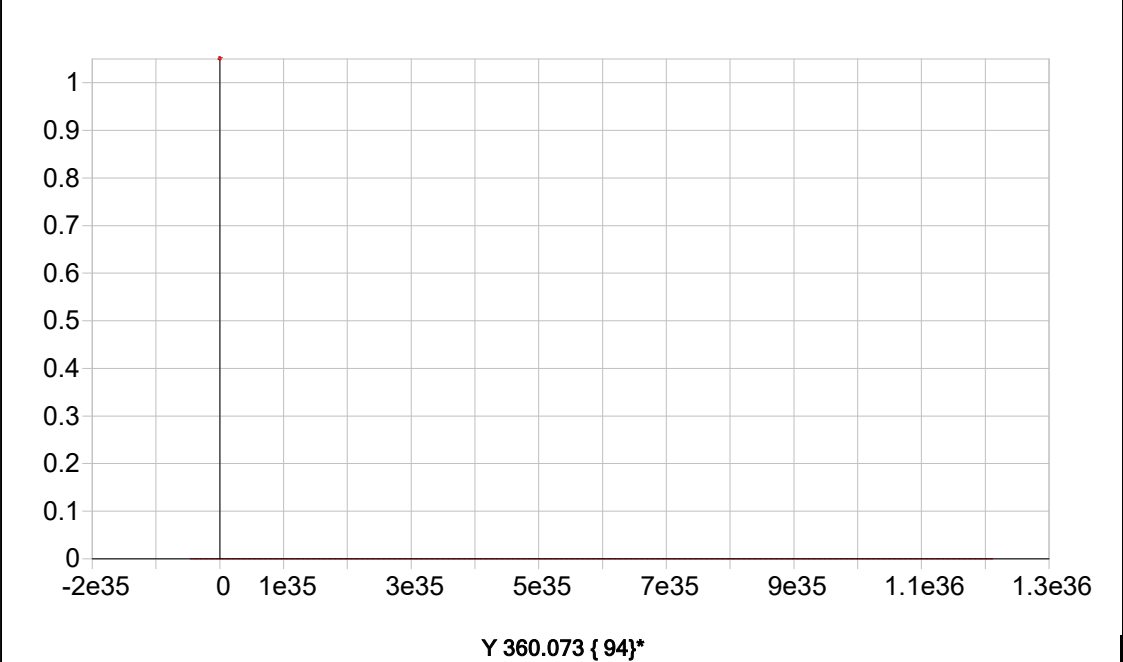
A0 (Offset): 0.003479 Re-Slope: 1.000000
A1 (Gain): 7.696765 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999695 Status: OK.
Std Error of Est: 0.004457
Predicted MDL: 0.000099
Predicted MQL: 0.000331

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00348	.001	1
S1	.02000	.02037	.000	1.86	.16101	.000	1
S3	2.5000	2.4354	-.065	-2.58	18.767	.251	1
S4	5.0000	4.8500	-.150	-3.00	37.370	.137	1
S5	10.000	10.222	.222	2.22	78.755	.586	1
S2	.80000	.79198	-.008	-1.00	6.1051	.006	1

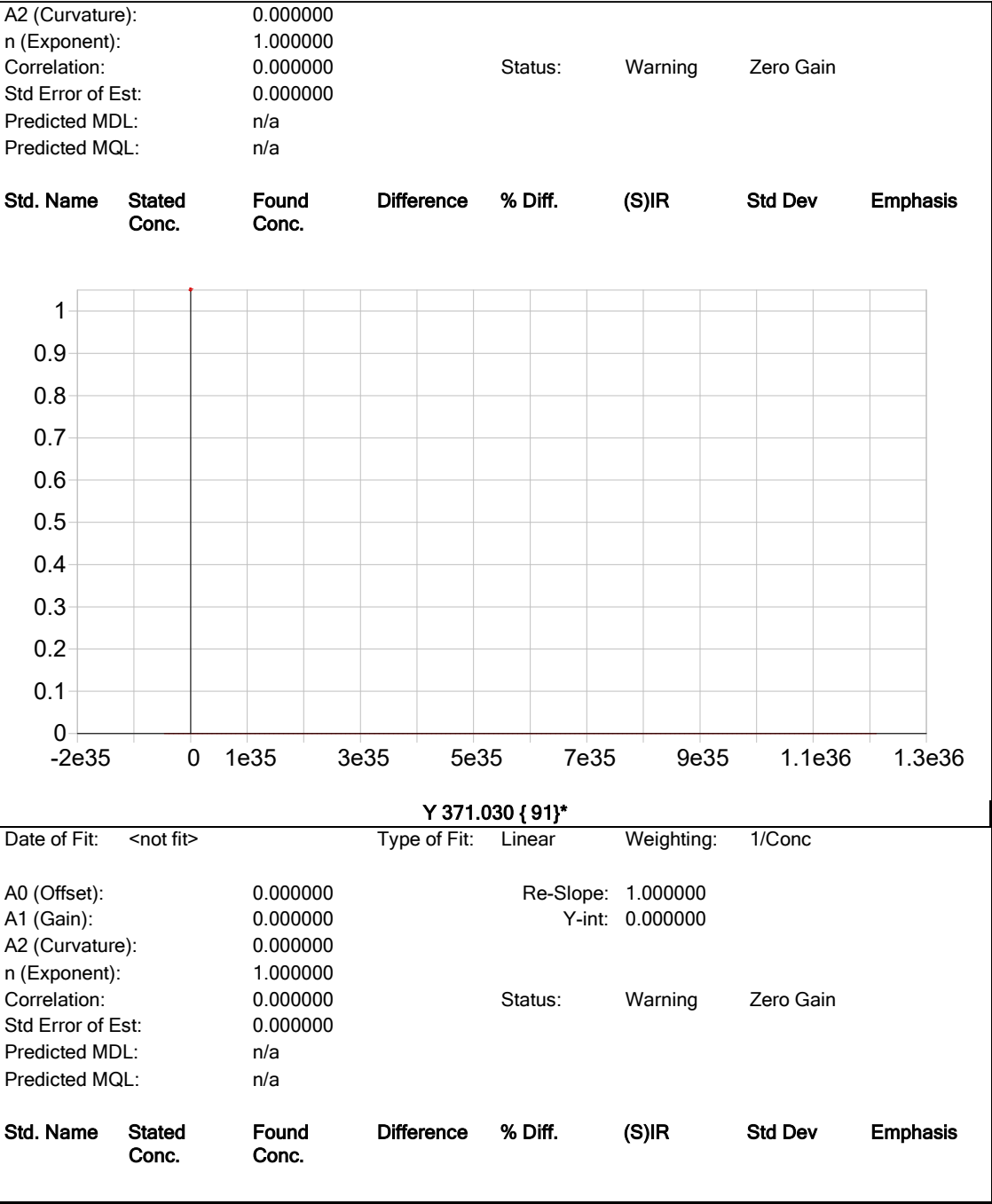


Date of Fit:	8/13/2025 16:03:25	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
-----------	--------------	-------------	------------	---------	-------	---------	----------



Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		



A2 (Curvature):		0.000000		Status:	Warning	Zero Gain	
n (Exponent):		1.000000					
Correlation:		0.000000					
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

Sample Name: S0 Acquired: 8/13/2025 11:56:09 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00012	.00099	.00018	.00042	.00061	.00096	.09115	-.00072
Stddev	.00001	.00008	.00023	.00004	.00002	.00054	.00169	.00032
%RSD	11.798	8.2372	126.08	9.5520	3.8011	56.597	1.8506	45.393
#1	-.00011	.00090	.00044	.00041	.00064	.00033	.08965	-.00044
#2	-.00011	.00105	.00010	.00039	.00060	.00128	.09082	-.00107
#3	-.00013	.00103	.00001	.00047	.00060	.00126	.09297	-.00063
Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00001	.00259	.00023	.00024	.00046	.00006	.00038	.00011
Stddev	.00012	.00023	.00003	.00019	.00014	.00002	.00016	.00026
%RSD	1445.8	8.8787	10.873	79.569	31.413	26.412	41.366	237.07
#1	.00006	.00236	.00021	.00038	.00040	.00005	.00056	-.00017
#2	.00010	.00282	.00025	.00031	.00036	.00005	.00029	.00017
#3	-.00013	.00258	.00024	.00002	.00062	.00008	.00029	.00034
Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00040	-.00068	.00215	-.00012	.00610	-.00111	.00432	.00074
Stddev	.00015	.00004	.00007	.00017	.00034	.00011	.00059	.00007
%RSD	36.354	5.4678	3.4595	141.44	5.5783	10.063	13.565	10.186
#1	-.00051	-.00071	.00207	-.00032	.00577	-.00104	.00382	.00068
#2	-.00046	-.00064	.00221	-.00005	.00645	-.00104	.00418	.00082
#3	-.00024	-.00068	.00218	-.00000	.00608	-.00124	.00496	.00071
Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.00038	.00146	.00017	-.00061	.00027	.00851	.00348	
Stddev	.00011	.00026	.00004	.00004	.00002	.00192	.00068	
%RSD	28.119	17.986	24.511	6.9450	8.5623	22.614	19.590	
#1	.00049	.00139	.00018	-.00064	.00029	.01058	.00315	
#2	.00035	.00124	.00020	-.00063	.00025	.00817	.00427	
#3	.00029	.00175	.00012	-.00056	.00027	.00678	.00303	

Sample Name: S0 Acquired: 8/13/2025 11:56:09 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5846.1	103620.	10717.	4580.8	7518.8
Stddev	9.1	117.	61.	12.7	13.9
%RSD	.15484	.11285	.56536	.27636	.18486
#1	5840.1	103630.	10779.	4578.3	7505.2
#2	5856.5	103740.	10713.	4569.6	7533.0
#3	5841.7	103500.	10658.	4594.6	7518.2

Sample Name: S1 Acquired: 8/13/2025 12:00:31 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00099	.00355	.00228	.00136	.00556	.00889	.33608	.04156
Stddev	.00005	.00006	.00017	.00003	.00005	.00066	.00075	.00037
%RSD	4.8850	1.5813	7.4028	2.2296	.85816	7.4060	.22369	.88732
#1	.00105	.00362	.00245	.00133	.00561	.00814	.33565	.04114
#2	.00097	.00352	.00211	.00139	.00553	.00921	.33695	.04177
#3	.00096	.00352	.00227	.00137	.00554	.00933	.33565	.04178
Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01695	.12322	.00231	.03109	.01479	.00040	.00960	.02557
Stddev	.00025	.00033	.00008	.00014	.00016	.00001	.00019	.00029
%RSD	1.5039	.27128	3.6790	.46259	1.1040	3.2185	1.9325	1.1517
#1	.01723	.12357	.00240	.03125	.01493	.00039	.00972	.02591
#2	.01674	.12319	.00224	.03107	.01481	.00039	.00938	.02536
#3	.01687	.12290	.00228	.03097	.01461	.00041	.00969	.02545
Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02361	.00135	.01918	.00490	.10403	.00827	.07511	.13947
Stddev	.00031	.00010	.00010	.00027	.00097	.00012	.00058	.00109
%RSD	1.3018	7.3903	.54544	5.5792	.93125	1.4218	.77058	.78236
#1	.02361	.00124	.01927	.00490	.10503	.00832	.07555	.14042
#2	.02392	.00143	.01906	.00518	.10309	.00837	.07532	.13828
#3	.02331	.00137	.01921	.00463	.10396	.00814	.07445	.13971
Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.00608	.01318	.00136	-.00014	.00069	.02462	.16101	
Stddev	.00005	.00035	.00001	.00005	.00004	.00110	.00037	
%RSD	.85809	2.6841	1.0584	33.670	5.3741	4.4543	.22731	
#1	.00603	.01359	.00137	-.00013	.00065	.02486	.16105	
#2	.00611	.01293	.00136	-.00010	.00069	.02558	.16136	
#3	.00612	.01303	.00134	-.00019	.00072	.02342	.16063	

Sample Name: S1 Acquired: 8/13/2025 12:00:31 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5596.1	98960.	10361.	4343.9	7086.6
Stddev	14.0	81.	27.	17.9	21.9
%RSD	.25060	.08209	.25637	.41295	.30968
#1	5581.6	99054.	10336.	4325.5	7061.3
#2	5609.6	98918.	10358.	4361.3	7099.9
#3	5597.2	98908.	10389.	4344.8	7098.7

Sample Name: S2 Acquired: 8/13/2025 12:04:50 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03967	.05275	.15143	.03772	.07498	.12403	3.7728	.26465
Stddev	.00017	.00134	.00039	.00033	.00047	.00079	.0077	.00071
%RSD	.42943	2.5471	.25485	.86907	.62659	.64084	.20458	.26811

#1	.03986	.05430	.15122	.03806	.07525	.12320	3.7719	.26401
#2	.03952	.05205	.15119	.03740	.07443	.12411	3.7810	.26452
#3	.03963	.05190	.15187	.03770	.07524	.12479	3.7656	.26541

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1146	.22922	.03144	.39128	.13180	.00279	.16461	.04530
Stddev	.0010	.00072	.00010	.00061	.00041	.00001	.00103	.00012
%RSD	.08950	.31246	.30475	.15648	.30983	.47946	.62526	.25702

#1	1.1137	.22890	.03148	.39071	.13195	.00280	.16344	.04533
#2	1.1144	.22871	.03151	.39122	.13134	.00281	.16537	.04518
#3	1.1156	.23004	.03133	.39193	.13211	.00278	.16503	.04540

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.22718	.03928	.03433	.04965	.94855	.01673	.55030	.52867
Stddev	.00038	.00007	.00014	.00057	.00336	.00008	.00269	.00118
%RSD	.16859	.18510	.41651	1.1458	.35431	.46016	.48855	.22400

#1	.22712	.03922	.03446	.04908	.95191	.01673	.54997	.52957
#2	.22683	.03928	.03434	.05022	.94855	.01666	.54780	.52733
#3	.22759	.03936	.03418	.04966	.94519	.01681	.55314	.52911

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.10890	.22794	.00261	.01859	.02085	.66096	6.1051	
Stddev	.00025	.00027	.00011	.00016	.00006	.00124	.0056	
%RSD	.22625	.11781	4.2783	.84896	.31127	.18771	.09106	

#1	.10884	.22767	.00256	.01871	.02082	.65952	6.1067	
#2	.10869	.22821	.00253	.01841	.02080	.66166	6.1096	
#3	.10917	.22795	.00274	.01864	.02092	.66169	6.0989	

Sample Name: S2 Acquired: 8/13/2025 12:04:50 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5834.2	102520.	10899.	4543.5	7278.7
Stddev	20.7	109.	36.	24.3	11.2
%RSD	.35442	.10614	.33016	.53424	.15406
#1	5819.3	102440.	10928.	4519.2	7269.0
#2	5857.8	102480.	10911.	4543.5	7291.0
#3	5825.5	102650.	10859.	4567.7	7276.1

Sample Name: S3 Acquired: 8/13/2025 12:08:54 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12531	.16058	.47333	.11798	.23318	.38158	11.603	.81626
Stddev	.00058	.00332	.00073	.00073	.00074	.00072	.031	.00597
%RSD	.46412	2.0683	.15377	.61790	.31580	.18754	.26425	.73117

#1	.12467	.15726	.47319	.11744	.23264	.38084	11.638	.80962
#2	.12544	.16058	.47269	.11770	.23289	.38227	11.588	.82118
#3	.12581	.16390	.47412	.11881	.23402	.38164	11.583	.81798

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.5350	.70238	.09673	1.2297	.40611	.00831	.50607	.13869
Stddev	.0024	.00099	.00024	.0012	.00073	.00005	.00116	.00076
%RSD	.06726	.14074	.24898	.09641	.17916	.54279	.22970	.54688

#1	3.5374	.70151	.09697	1.2306	.40542	.00836	.50715	.13790
#2	3.5326	.70346	.09674	1.2283	.40603	.00827	.50484	.13941
#3	3.5349	.70218	.09649	1.2300	.40687	.00830	.50623	.13877

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.71333	.12184	.10518	.15389	2.8900	.05575	1.6887	1.6254
Stddev	.00078	.00030	.00102	.00062	.0188	.00038	.0146	.0050
%RSD	.10954	.24376	.96671	.40450	.65142	.67359	.86512	.30965

#1	.71412	.12213	.10611	.15461	2.8818	.05614	1.6726	1.6213
#2	.71256	.12184	.10409	.15347	2.9115	.05539	1.7012	1.6238
#3	.71329	.12154	.10534	.15360	2.8767	.05571	1.6921	1.6310

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.34330	.70448	.00790	.06162	.06753	2.0366	18.767
Stddev	.00049	.00197	.00009	.00011	.00005	.0029	.251
%RSD	.14245	.27950	1.1216	.17170	.07487	.14186	1.3398

#1	.34346	.70603	.00800	.06173	.06758	2.0394	18.554
#2	.34275	.70515	.00783	.06151	.06748	2.0336	18.702
#3	.34369	.70226	.00788	.06162	.06754	2.0368	19.044

Sample Name: S3 Acquired: 8/13/2025 12:08:54 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5699.2	100690.	10886.	4460.2	6930.0
Stddev	3.9	199.	97.	19.9	11.7
%RSD	.06886	.19730	.89149	.44656	.16855
#1	5696.3	100900.	10995.	4459.0	6920.0
#2	5697.6	100660.	10808.	4440.9	6927.2
#3	5703.7	100510.	10855.	4480.6	6942.8

Sample Name: S4 Acquired: 8/13/2025 12:12:59 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25171	.31258	.94213	.23514	.46595	.75016	22.704	1.5853
Stddev	.00069	.01034	.00065	.00177	.00239	.00078	.093	.0097
%RSD	.27577	3.3092	.06919	.75396	.51292	.10357	.40974	.60926

#1	.25114	.30068	.94248	.23321	.46327	.75065	22.653	1.5887
#2	.25150	.31762	.94254	.23553	.46673	.75057	22.811	1.5927
#3	.25248	.31943	.94138	.23669	.46786	.74927	22.648	1.5743

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.1419	1.3744	.19044	2.4799	.79954	.01649	.99105	.27459
Stddev	.0046	.0008	.00058	.0031	.00135	.00014	.00440	.00068
%RSD	.06505	.06197	.30335	.12447	.16861	.84838	.44438	.24795

#1	7.1419	1.3754	.19006	2.4776	.79959	.01644	.99522	.27420
#2	7.1372	1.3737	.19016	2.4786	.79817	.01638	.98644	.27538
#3	7.1465	1.3742	.19111	2.4834	.80087	.01665	.99148	.27419

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4345	.24211	.21320	.30614	5.7337	.11449	3.3029	3.2311
Stddev	.0023	.00003	.00243	.00090	.0074	.00085	.0182	.0094
%RSD	.15854	.01145	1.1377	.29499	.12914	.74073	.55153	.29198

#1	1.4328	.24213	.21323	.30617	5.7299	.11433	3.3136	3.2217
#2	1.4336	.24212	.21075	.30522	5.7422	.11373	3.3132	3.2310
#3	1.4371	.24208	.21561	.30702	5.7290	.11540	3.2818	3.2406

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.68531	1.3893	.01599	.12432	.13807	4.0357	37.370
Stddev	.00107	.0039	.00017	.00015	.00056	.0152	.137
%RSD	.15632	.27905	1.0925	.11901	.40504	.37562	.36677

#1	.68525	1.3930	.01595	.12431	.13743	4.0455	37.528
#2	.68427	1.3852	.01585	.12447	.13836	4.0182	37.305
#3	.68641	1.3896	.01619	.12417	.13843	4.0433	37.278

Sample Name: S4 Acquired: 8/13/2025 12:12:59 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5645.0	100180.	11009.	4394.4	6724.3
Stddev	9.9	387.	45.	13.7	10.8
%RSD	.17453	.38664	.40904	.31203	.16008
#1	5637.2	100530.	11017.	4410.2	6712.5
#2	5656.1	100250.	10960.	4387.4	6733.6
#3	5641.7	99765.	11049.	4385.6	6726.7

Sample Name: S5 Acquired: 8/13/2025 12:17:10 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.52972	.63366	1.9948	.49555	.98878	1.6049	48.890	3.2753
Stddev	.00057	.01358	.0073	.00077	.00085	.0029	.796	.0185
%RSD	.10790	2.1431	.36699	.15481	.08636	.18246	1.6274	.56399

#1	.52944	.63123	2.0027	.49576	.98862	1.6046	48.872	3.2867
#2	.53037	.64829	1.9937	.49619	.98802	1.6021	48.104	3.2540
#3	.52933	.62146	1.9881	.49470	.98970	1.6079	49.695	3.2852

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15.084	2.9118	.39581	5.2722	1.6586	.03570	2.0968	.58192
Stddev	.047	.0087	.00140	.0125	.0012	.00010	.0099	.00261
%RSD	.31162	.29870	.35251	.23744	.07043	.27258	.47176	.44855

#1	15.136	2.9107	.39742	5.2866	1.6599	.03562	2.0982	.58223
#2	15.073	2.9037	.39514	5.2641	1.6576	.03581	2.0863	.57917
#3	15.044	2.9210	.39488	5.2659	1.6584	.03567	2.1059	.58436

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0400	.51494	.48016	.65670	12.064	.25628	6.8239	6.7674
Stddev	.0075	.00113	.00190	.00204	.027	.00097	.0245	.0069
%RSD	.24774	.22012	.39602	.31018	.22014	.38010	.35844	.10149

#1	3.0487	.51523	.48100	.65617	12.080	.25638	6.8324	6.7742
#2	3.0363	.51591	.48149	.65498	12.079	.25719	6.7963	6.7676
#3	3.0351	.51370	.47798	.65895	12.034	.25525	6.8429	6.7605

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	1.4399	2.9783	.03518	.25994	.29835	8.7676	78.755	
Stddev	.0062	.0076	.00014	.00260	.00217	.0184	.586	
%RSD	.43098	.25457	.39135	1.0012	.72611	.20932	.74368	

#1	1.4454	2.9785	.03504	.26244	.29893	8.7630	78.239	
#2	1.4412	2.9706	.03531	.26012	.30016	8.7520	78.635	
#3	1.4332	2.9857	.03519	.25724	.29595	8.7879	79.392	

Sample Name: S5 Acquired: 8/13/2025 12:17:10 Type: Cal
Method: 6010-200.7 NEW(v96) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5431.8	95688.	10758.	4147.7	6335.1
Stddev	6.9	332.	45.	6.1	13.8
%RSD	.12679	.34662	.42271	.14602	.21731
#1	5424.4	95521.	10733.	4142.1	6319.3
#2	5438.0	95473.	10810.	4146.9	6341.8
#3	5433.1	96070.	10730.	4154.1	6344.2

Sample Name: ICV01 Acquired: 8/13/2025 12:21:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.872529	3.747317	3.774946	3.879669	3.998496	7.680930
Stddev	.003902	.037013	.002479	.002217	.003616	.014768
%RSD	.1007619	.9877262	.0656677	.0571342	.0904217	.1922650

#1	3.869111	3.761842	3.775273	3.880245	3.994378	7.664547
#2	3.876781	3.705245	3.772320	3.877221	3.999959	7.685023
#3	3.871695	3.774865	3.777245	3.881540	4.001150	7.693219

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.787087	.1894277	1.917346	19.17133	.7879995	1.951427
Stddev	.066900	.0012904	.002480	.04239	.0021177	.002684
%RSD	.8591090	.6812079	.1293524	.2210986	.2687385	.1375592

#1	7.825703	.1883907	1.918168	19.13004	.7870095	1.952023
#2	7.825719	.1908728	1.914559	19.16923	.7865583	1.948495
#3	7.709838	.1890195	1.919310	19.21473	.7904309	1.953764

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9971016	3.950722	1.921770	19.09299	1.945451	1.032062
Stddev	.0002298	.013018	.007647	.07624	.001243	.001841
%RSD	.0230492	.3295101	.3979201	.3992970	.0638887	.1783370

#1	.9968415	3.961226	1.913017	19.02672	1.946515	1.029977
#2	.9971860	3.936157	1.925135	19.07593	1.944085	1.033462
#3	.9972774	3.954781	1.927157	19.17631	1.945754	1.032747

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.09833	1.937518	1.949359	19.37323	3.744833	3.976290
Stddev	.11337	.000955	.006075	.14820	.031631	.002192
%RSD	.5936094	.0492879	.3116617	.7649614	.8446475	.0551334

#1	19.13358	1.938246	1.942348	19.41682	3.721577	3.978804
#2	18.97152	1.936437	1.952632	19.20813	3.780851	3.974774
#3	19.18989	1.937872	1.953095	19.49475	3.732071	3.975293

Sample Name: ICV01 Acquired: 8/13/2025 12:21:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.853517	3.852559	3.736703	F .0077036	F .0271601	F -.002909
Stddev	.004442	.006257	.022650	.0014054	.0016283	.000859
%RSD	.1152699	.1624205	.6061370	18.24403	5.995220	29.52355
#1	3.852701	3.856439	3.762802	.0088118	.0256722	-.003731
#2	3.849539	3.845341	3.722186	.0061228	.0269086	-.002979
#3	3.858310	3.855899	3.725122	.0081763	.0288995	-.002017

Elem	Sr4077
Units	ppm
Avg	F -.003642
Stddev	.000035
%RSD	.9554361
#1	-.003668
#2	-.003602
#3	-.003654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5737.902	102195.8	11664.72	4400.772	6955.925
Stddev	8.744	439.9	73.91	18.175	12.061
%RSD	.1523977	.4304161	.6336377	.4129998	.1733879
#1	5729.834	102378.4	11747.31	4404.439	6942.067
#2	5736.678	102514.9	11604.79	4416.834	6964.047
#3	5747.194	101694.0	11642.06	4381.043	6961.661

Sample Name: LLICV01 Acquired: 8/13/2025 12:28:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212869	.0429580	.0111791	.0192117	.0500587	.0951201	.0946827
Stddev	.0006105	.0016753	.0008049	.0015265	.0008149	.0080282	.0009918
%RSD	2.867938	3.899746	7.200015	7.945656	1.627822	8.440043	1.047528

#1	.0218636	.0410657	.0117637	.0203123	.0498314	.0892454	.0958260
#2	.0206474	.0435562	.0115126	.0174690	.0493816	.0918472	.0940538
#3	.0213498	.0442520	.0102611	.0198537	.0509631	.1042677	.0941682

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060843	.0055941	2.040672	.0104963	.0294114	.0213323	.1068463
Stddev	.0000529	.0000093	.006249	.0000555	.0000699	.0001400	.0039101
%RSD	.8691142	.1670398	.3062115	.5291471	.2377351	.6562415	3.659527

#1	.0060266	.0055895	2.035366	.0104408	.0294738	.0214512	.1066157
#2	.0060959	.0056049	2.039089	.0104963	.0294246	.0213678	.1108666
#3	.0061304	.0055880	2.047559	.0105519	.0293359	.0211780	.1030567

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210293	2.116955	.0395706	.0101235	1.848759	.0389247	.0424371
Stddev	.0002964	.023230	.0001587	.0003544	.012154	.0002070	.0005068
%RSD	1.409592	1.097332	.4009776	3.500519	.6574014	.5317571	1.194122

#1	.0208042	2.109694	.0397342	.0100837	1.852025	.0391251	.0425327
#2	.0213652	2.098222	.0394174	.0104961	1.835306	.0387117	.0418893
#3	.0209187	2.142948	.0395601	.0097907	1.858946	.0389372	.0428892

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.992274	.1113647	.2068390	.0383012	.0383031	.3725319	.0208482
Stddev	.025784	.0007750	.0005443	.0000473	.0010136	.0088729	.0009790
%RSD	1.294212	.6959354	.2631299	.1234586	2.646283	2.381779	4.695647

#1	2.013299	.1115285	.2071337	.0383426	.0386341	.3822381	.0198549
#2	2.000017	.1120447	.2062110	.0383112	.0391099	.3648378	.0208777
#3	1.963505	.1105208	.2071724	.0382497	.0371654	.3705199	.0218121

Sample Name: LLICV01 Acquired: 8/13/2025 12:28:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0182723	.0169958	.0196862
Stddev	.0009029	.0002173	.0000835
%RSD	4.941298	1.278290	.4239678

#1	.0173798	.0167453	.0197119
#2	.0182516	.0171085	.0195930
#3	.0191853	.0171335	.0197539

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5807.924	104228.6	11501.84	4465.294	7444.260
Stddev	15.704	182.0	26.10	16.352	12.443
%RSD	.2703829	.1746627	.2269126	.3662041	.1671490

#1	5790.519	104032.4	11473.85	4450.376	7441.534
#2	5812.221	104392.1	11525.51	4482.777	7433.405
#3	5821.031	104261.4	11506.15	4462.729	7457.840

Sample Name: ICB01 Acquired: 8/13/2025 12:33:04 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020461	.0006381	-.000063	-.000772	.0010903	-.002729	-.004066
Stddev	.0012696	.0009465	.000677	.001823	.0010147	.003038	.000165
%RSD	62.04908	148.3491	1080.785	236.2314	93.05941	111.3193	4.051191
#1	.0031922	.0009866	-.000840	.000282	.0013354	-.002780	-.004239
#2	.0022647	.0013609	.000260	-.002877	.0019600	.000334	-.003912
#3	.0006814	-.000433	.000393	.000280	-.000024	-.005740	-.004046
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000014	.0000246	.0017245	.0003299	.0001895	.0003046	.0079953
Stddev	.000020	.0000281	.0036808	.0000707	.0001241	.0004185	.0035244
%RSD	141.3374	114.2945	213.4394	21.41632	65.47087	137.4151	44.08091
#1	-.000033	-.000007	-.002495	.0004113	.0003019	.0007554	.0052188
#2	-.000017	.000035	.004273	.0002839	.0002102	.0002299	.0119603
#3	.000007	.000046	.003396	.0002946	.0000564	-.000072	.0068069
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001986	.0058094	.0007518	.0000605	-.049108	.0005254	.0024536
Stddev	.0002193	.0140103	.0003315	.0003838	.004769	.0014947	.0002481
%RSD	110.4549	241.1671	44.09304	634.1919	9.710924	284.4610	10.11297
#1	.0004387	-.005213	.0004171	-.000383	-.054107	-.000838	.0021671
#2	.0000090	.021576	.0010800	.000282	-.044609	.002123	.0025914
#3	.0001479	.001065	.0007581	.000282	-.048608	.000291	.0026021
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223962	.0069915	.0001878	.0007363	.0006101	-.005488	.0031793
Stddev	.0195386	.0003020	.0002695	.0004124	.0014125	.002475	.0022545
%RSD	87.24066	4.319832	143.5270	56.01670	231.5253	45.09840	70.91221
#1	.0139851	.0073368	-.000110	.0002985	.0011362	-.007188	.0057763
#2	.0447318	.0067764	.000257	.0011175	.0016839	-.006628	.0020369
#3	.0084718	.0068614	.000416	.0007929	-.000990	-.002649	.0017246

Sample Name: ICB01 Acquired: 8/13/2025 12:33:04 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009618	-.002107	-.000051
Stddev	.0030958	.000913	.000032
%RSD	321.8765	43.32888	63.30726

#1	.0035907	-.001119	-.000018
#2	-.002450	-.002919	-.000082
#3	.001745	-.002284	-.000053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.177	105800.6	11530.31	4505.262	7705.778
Stddev	8.657	219.9	52.01	12.467	10.457
%RSD	.1462266	.2078285	.4510980	.2767269	.1357041

#1	5911.799	105655.1	11495.27	4490.964	7698.761
#2	5919.644	106053.6	11590.08	4513.864	7700.776
#3	5929.088	105693.2	11505.60	4510.958	7717.797

Sample Name: CRI01 Acquired: 8/13/2025 12:37:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205849	.0406733	.0100082	.0210974	.0501601	.0928898	.0938578
Stddev	.0025719	.0016188	.0006348	.0034708	.0007561	.0136325	.0004453
%RSD	12.49421	3.980102	6.342546	16.45142	1.507352	14.67594	.4744453

#1	.0201310	.0415070	.0106766	.0173189	.0497882	.0820636	.0933436
#2	.0233536	.0417054	.0099343	.0241437	.0510301	.0884066	.0941134
#3	.0182702	.0388075	.0094135	.0218297	.0496620	.1081993	.0941165

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060104	.0054936	2.009743	.0099982	.0290122	.0208848	.0959440
Stddev	.0000683	.0000424	.002405	.0003607	.0001192	.0002381	.0069841
%RSD	1.135550	.7720568	.1196751	3.607919	.4106902	1.139924	7.279389

#1	.0060431	.0055425	2.007013	.0104143	.0290463	.0207539	.0954112
#2	.0060560	.0054701	2.011551	.0098071	.0291106	.0211595	.0892415
#3	.0059319	.0054681	2.010665	.0097732	.0288798	.0207408	.1031793

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208250	2.117900	.0386926	.0103327	1.812239	.0422618	.0410103
Stddev	.0000943	.029259	.0001655	.0003137	.002549	.0013977	.0006691
%RSD	.4529240	1.381504	.4276398	3.036040	.1406721	3.307217	1.631641

#1	.0209006	2.088228	.0386578	.0100788	1.809427	.0434929	.0417796
#2	.0208551	2.146728	.0388727	.0102360	1.812888	.0425501	.0406878
#3	.0207193	2.118745	.0385473	.0106834	1.814400	.0407424	.0405634

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.934812	.1007527	.2026697	.0373197	.0381128	.3571710	.0209912
Stddev	.054165	.0010837	.0006563	.0008661	.0007433	.0073746	.0023370
%RSD	2.799475	1.075571	.3238405	2.320852	1.950235	2.064722	11.13306

#1	1.991669	.1000124	.2033662	.0381476	.0385008	.3655936	.0212222
#2	1.883817	.1019965	.2025803	.0373917	.0385818	.3540456	.0185474
#3	1.928950	.1002492	.2020627	.0364199	.0372558	.3518738	.0232041

Sample Name: CRI01 Acquired: 8/13/2025 12:37:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0155669	.0169876	.0194383
Stddev	.0011020	.0005103	.0000266
%RSD	7.079181	3.004134	.1366103

#1	.0166446	.0175666	.0194401
#2	.0156141	.0167930	.0194109
#3	.0144421	.0166033	.0194639

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5878.336	104791.1	11474.11	4497.042	7517.225
Stddev	1.598	168.5	52.55	39.435	13.274
%RSD	.0271765	.1608003	.4579527	.8769002	.1765840

#1	5876.496	104708.3	11520.15	4454.636	7504.717
#2	5879.138	104985.0	11416.86	4532.611	7515.805
#3	5879.373	104679.9	11485.30	4503.879	7531.152

Sample Name: ICSA01 Acquired: 8/13/2025 12:41:39 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134755	.0029051	-.006379	.0029114	-.004818	240.2699
Stddev	.0015729	.0020732	.001490	.0036164	.003585	.5040
%RSD	11.67198	71.36207	23.36131	124.2155	74.40217	.2097530

#1	.0138604	.0051580	-.004993	.0061073	-.003015	240.6353
#2	.0117460	.0010778	-.006189	.0036411	-.008947	240.4794
#3	.0148203	.0024795	-.007955	-.001014	-.002493	239.6949

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000470	.0013114	.0023261	229.2883	.0581592	.0018541
Stddev	.000774	.0000873	.0001227	.4618	.0006300	.0001184
%RSD	164.6725	6.658843	5.275484	.2013844	1.083154	6.383889

#1	-.001110	.0013001	.0024222	229.7292	.0588785	.0019160
#2	-.000690	.0012303	.0021878	229.3273	.0578935	.0017176
#3	.000390	.0014038	.0023681	228.8082	.0577057	.0019286

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048240	99.17169	.0081692	243.0898	.0052171	.0023332
Stddev	.0002039	.45403	.0001293	.4697	.0001901	.0004527
%RSD	4.227024	.4578214	1.583067	.1932077	3.643411	19.40112

#1	.0049235	99.35140	.0082993	243.6319	.0051780	.0019210
#2	.0045895	99.50836	.0080407	242.8316	.0050496	.0022609
#3	.0049592	98.65531	.0081676	242.8058	.0054237	.0028176

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030553	.0036474	.0021994	-.004103	.0465611	.0004396
Stddev	.0145555	.0010886	.0002810	.002135	.0024231	.0005469
%RSD	476.4051	29.84718	12.77678	52.04560	5.204049	124.4199

#1	.0192408	.0049021	.0024178	-.001849	.0450116	.0010710
#2	-.008960	.0030859	.0018824	-.004363	.0493534	.0001180
#3	-.001115	.0029541	.0022981	-.006096	.0453184	.0001296

Sample Name: ICSA01 Acquired: 8/13/2025 12:41:39 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003408	-.005384	.0191567	.0080433	-.007991	F -.029667
Stddev	.000954	.000165	.0046077	.0006923	.006152	.002334
%RSD	27.99310	3.060358	24.05245	8.607079	76.97972	7.868185

#1	-.004471	-.005566	.0231435	.0087184	-.006961	-.031462
#2	-.003127	-.005341	.0141122	.0080764	-.014593	-.030511
#3	-.002626	-.005244	.0202145	.0073350	-.002420	-.027028

Elem	Sr4077
Units	ppm
Avg	-.000415
Stddev	.000141
%RSD	33.96231

#1	-.000341
#2	-.000577
#3	-.000326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5204.532	91132.91	11089.70	3980.441	5989.069
Stddev	4.463	395.10	51.37	18.704	3.737
%RSD	.0857542	.4335453	.4631804	.4698862	.0624027

#1	5200.730	90746.55	11031.60	3965.808	5986.924
#2	5203.419	91115.98	11108.42	3974.002	5993.384
#3	5209.446	91536.21	11129.08	4001.514	5986.898

Sample Name: ICSAB01 Acquired: 8/13/2025 12:45:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106466	.1128171	.0422017	.0505495	.5881123	246.7037
Stddev	.0050037	.0025893	.0034502	.0021315	.0030349	.6852
%RSD	4.522257	2.295135	8.175500	4.216752	.5160492	.2777456

#1	.1124155	.1106635	.0387382	.0493812	.5915942	247.4761
#2	.1049987	.1120977	.0456384	.0530098	.5867150	246.1690
#3	.1145255	.1156900	.0422284	.0492575	.5860276	246.4660

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4924139	.4866317	.9942478	235.8991	.5580352	.4980184
Stddev	.0033397	.0019292	.0017136	.8031	.0014520	.0009333
%RSD	.6782315	.3964369	.1723476	.3404239	.2601970	.1873945

#1	.4956595	.4888437	.9932979	236.6501	.5584377	.4975656
#2	.4889874	.4852974	.9932195	235.0525	.5564244	.4973979
#3	.4925949	.4857540	.9962259	235.9946	.5592434	.4990917

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4858476	101.6958	.4933530	249.5102	.9920598	.2159779
Stddev	.0008161	.4135	.0021714	.7409	.0003657	.0004686
%RSD	.1679772	.4066189	.4401321	.2969430	.0368587	.2169859

#1	.4867018	101.6401	.4950965	250.0856	.9922602	.2158847
#2	.4850758	101.3129	.4909208	248.6742	.9916377	.2155629
#3	.4857651	102.1343	.4940419	249.7708	.9922814	.2164862

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003581	.4786019	1.036676	.0429249	.9922032	1.025640
Stddev	.008404	.0016721	.002684	.0122727	.0026526	.001398
%RSD	234.7125	.3493630	.2588793	28.59119	.2673424	.1363193

#1	-.000562	.4803976	1.039605	.0438434	.9934008	1.027173
#2	-.013077	.4783184	1.036091	.0302187	.9891630	1.024434
#3	.002897	.4770897	1.034334	.0547126	.9940459	1.025315

Sample Name: ICSAB01 Acquired: 8/13/2025 12:45:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.014192	.9962127	1.025751	F .0085425	F -.003250	F -.032460
Stddev	.002322	.0030495	.003653	.0045384	.001359	.000917
%RSD	.2289273	.3061054	.3560896	53.12684	41.81546	2.824814
#1	1.011822	.9987402	1.028019	.0051222	-.002467	-.032318
#2	1.014294	.9928257	1.021537	.0068141	-.002463	-.031622
#3	1.016462	.9970721	1.027696	.0136911	-.004819	-.033439

Elem	Sr4077
Units	ppm
Avg	F .0006371
Stddev	.0005195
%RSD	81.53226
#1	.0011466
#2	.0006567
#3	.0001082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5276.807	92053.53	11147.28	4022.523	6063.212
Stddev	4.006	308.37	48.84	17.541	2.865
%RSD	.0759231	.3349901	.4381269	.4360805	.0472593
#1	5272.726	91974.87	11094.33	4006.839	6063.869
#2	5276.961	92393.61	11190.56	4041.465	6060.075
#3	5280.734	91792.10	11156.96	4019.266	6065.691

Sample Name: ICSADLX20 Acquired: 8/13/2025 12:49:58 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016662	.0004461	-.000930	-.000543	-.002258	11.81398	-.003443
Stddev	.0021118	.0015700	.000423	.001440	.000380	.04807	.000460
%RSD	126.7443	351.9226	45.49889	265.3630	16.81115	.4068997	13.36699

#1	.0016100	-.000817	-.000838	.000136	-.002189	11.85082	-.003069
#2	-.000417	-.000048	-.001391	.000433	-.001918	11.83152	-.003957
#3	.003806	.002204	-.000560	-.002196	-.002668	11.75960	-.003303

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001197	.0000111	11.78764	.0027379	-.000011	.0003281	4.713823
Stddev	.0000386	.0000244	.00732	.0001998	.000070	.0002010	.011185
%RSD	32.21384	220.3649	.0620667	7.297680	638.5062	61.27001	.2372759

#1	.0001472	.0000170	11.77984	.0029549	.000069	.0002794	4.703251
#2	.0001362	-.000016	11.78872	.0026973	-.000042	.0001559	4.712684
#3	.0000756	.000032	11.79435	.0025615	-.000060	.0005490	4.725533

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001094	12.22265	.0002019	-.000183	-.067916	.0012792	-.000401
Stddev	.0004360	.04381	.0001770	.000358	.025394	.0010677	.000237
%RSD	398.5806	.3584475	87.67820	195.9442	37.39100	83.46339	59.16842

#1	-.000390	12.24687	.0000780	.000229	-.042532	.0003052	-.000454
#2	.000304	12.17208	.0001230	-.000423	-.093321	.0024207	-.000606
#3	.000414	12.24901	.0004046	-.000355	-.067894	.0011116	-.000141

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.039682	.0002339	-.000140	-.001188	-.000089	.0019297	.0018500
Stddev	.005958	.0006861	.000045	.000313	.001067	.0032203	.0011160
%RSD	15.01318	293.3161	32.09339	26.35886	1197.441	166.8847	60.32268

#1	-.046553	.0008541	-.000191	-.001483	-.001279	.0055024	.0026517
#2	-.036549	-.000503	-.000110	-.000859	.000231	-.000749	.0023227
#3	-.035946	.000351	-.000117	-.001223	.000781	.001036	.0005755

Sample Name: ICSADLX20 Acquired: 8/13/2025 12:49:58 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002158	-.006689	-.000026
Stddev	.002637	.001510	.000012
%RSD	122.1855	22.57041	45.33292

#1	.000680	-.005457	-.000033
#2	-.004532	-.008373	-.000031
#3	-.002623	-.006236	-.000012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5846.827	102377.5	11319.59	4431.459	7393.786
Stddev	14.168	530.5	58.08	28.994	6.043
%RSD	.2423127	.5181323	.5131334	.6542756	.0817341

#1	5832.313	101789.3	11252.53	4413.340	7393.536
#2	5860.621	102819.6	11353.47	4464.899	7399.950
#3	5847.547	102523.7	11352.79	4416.138	7387.871

Sample Name: ICSABDLX20 Acquired: 8/13/2025 12:54:14 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051708	.0080030	.0014689	.0049421	.0284657	12.31042	.0200983
Stddev	.0014910	.0012738	.0004836	.0037558	.0005819	.02913	.0013867
%RSD	28.83515	15.91616	32.92407	75.99624	2.044308	.2366435	6.899455

#1	.0039537	.0066374	.0009183	.0081381	.0280884	12.28041	.0185246
#2	.0068339	.0091589	.0018251	.0008054	.0291359	12.31227	.0211409
#3	.0047248	.0082129	.0016633	.0058827	.0281729	12.33859	.0206294

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253331	.0471222	12.20490	.0284416	.0237561	.0253892	4.821184
Stddev	.0003163	.0000573	.03281	.0003447	.0000645	.0000652	.016281
%RSD	1.248658	.1215111	.2687919	1.211763	.2715122	.2569712	.3376936

#1	.0249733	.0471883	12.17052	.0288051	.0238197	.0254628	4.839821
#2	.0254583	.0470891	12.20832	.0281195	.0237577	.0253384	4.809724
#3	.0255676	.0470890	12.23587	.0284004	.0236907	.0253666	4.814009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0251611	12.66865	.0478411	.0100466	-.082355	.0245321	.0501608
Stddev	.0005361	.04374	.0001212	.0004238	.003989	.0017694	.0001986
%RSD	2.130691	.3452777	.2534120	4.218723	4.843279	7.212456	.3959678

#1	.0257800	12.62920	.0479292	.0099463	-.082937	.0260297	.0503138
#2	.0248380	12.66106	.0477029	.0096818	-.078108	.0249868	.0499363
#3	.0248654	12.71569	.0478913	.0105115	-.086021	.0225797	.0502324

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.027170	.0494710	.0516894	.0481216	.0498170	.0454517	.0023753
Stddev	.023706	.0003120	.0001934	.0008298	.0014647	.0036934	.0026308
%RSD	87.25090	.6305877	.3742337	1.724347	2.940181	8.125891	110.7588

#1	-.042417	.0491541	.0519127	.0490324	.0515066	.0421454	.0036628
#2	.000142	.0494810	.0515731	.0474087	.0489078	.0494377	.0041143
#3	-.039233	.0497778	.0515823	.0479235	.0490365	.0447721	-.000651

Sample Name: ICSABDLX20 Acquired: 8/13/2025 12:54:14 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003774	-.007824	-.000041
Stddev	.000901	.001075	.000051
%RSD	23.88389	13.74498	124.4206

#1	-.002900	-.008639	-.000082
#2	-.004701	-.008228	.000016
#3	-.003722	-.006605	-.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5788.032	102529.6	11275.12	4431.801	7304.387
Stddev	6.942	244.8	64.99	17.825	10.346
%RSD	.1199305	.2387992	.5763729	.4022091	.1416355

#1	5788.647	102437.3	11342.62	4415.268	7297.166
#2	5780.803	102807.2	11269.78	4450.685	7299.757
#3	5794.645	102344.4	11212.97	4429.449	7316.239

Sample Name: CCV01 Acquired: 8/13/2025 12:58:27 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.904034	4.815737	4.855153	4.926587	4.929568	9.630559	9.639505
Stddev	.003827	.093365	.003356	.000953	.020754	.015530	.074813
%RSD	.0780312	1.938746	.0691173	.0193419	.4210013	.1612545	.7761128

#1	4.903444	4.836858	4.852830	4.925749	4.906877	9.642837	9.631930
#2	4.908121	4.896731	4.853628	4.926387	4.934237	9.613101	9.568767
#3	4.900537	4.713620	4.859000	4.927623	4.947589	9.635739	9.717818

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2396649	2.431220	24.08287	1.004169	2.424524	1.228070	5.033339
Stddev	.0007196	.002959	.09699	.001192	.004031	.002902	.025154
%RSD	.3002633	.1217028	.4027220	.1187049	.1662660	.2363132	.4997529

#1	.2396428	2.429014	24.14632	1.005306	2.421873	1.227030	5.004453
#2	.2389566	2.430064	23.97123	1.004273	2.422536	1.225830	5.045148
#3	.2403954	2.434583	24.13107	1.002928	2.429163	1.231348	5.050415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.391793	24.03336	2.428809	1.232624	24.64873	2.424834	2.485846
Stddev	.014767	.10979	.004260	.001100	.04149	.010607	.001488
%RSD	.6173828	.4568282	.1753993	.0892242	.1683048	.4374388	.0598746

#1	2.385681	24.03945	2.425560	1.232369	24.60117	2.423347	2.487404
#2	2.381063	23.92066	2.427235	1.233829	24.67747	2.415049	2.484439
#3	2.408634	24.13998	2.433632	1.231674	24.66755	2.436106	2.485694

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.03939	4.708310	4.951383	4.865971	4.797024	5.028014	4.746392
Stddev	.11178	.012115	.006688	.003206	.016798	.019018	.004821
%RSD	.4464116	.2573088	.1350742	.0658779	.3501760	.3782440	.1015688

#1	24.92825	4.705204	4.947132	4.863532	4.785107	5.007270	4.750071
#2	25.15180	4.698050	4.947924	4.864781	4.789728	5.032148	4.748170
#3	25.03813	4.721676	4.959092	4.869602	4.816236	5.044626	4.740934

Sample Name: CCV01 Acquired: 8/13/2025 12:58:27 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.763198	4.755884	4.799049
Stddev	.007889	.015111	.023342
%RSD	.1656218	.3177372	.4863836

#1	4.763274	4.747278	4.817676
#2	4.771049	4.747042	4.772865
#3	4.755272	4.773333	4.806607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5716.124	98246.45	11482.45	4313.172	6870.297
Stddev	19.794	201.04	26.66	7.498	22.475
%RSD	.3462904	.2046323	.2322168	.1738287	.3271372

#1	5722.865	98226.65	11474.21	4304.542	6876.671
#2	5731.667	98056.03	11512.26	4316.889	6888.896
#3	5693.839	98456.65	11460.87	4318.085	6845.322

Sample Name: CCB01 Acquired: 8/13/2025 13:03:05 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000665	.0002982	-.000160	.0019303	-.000085	-.014664	-.003595
Stddev	.000786	.0006068	.000133	.0005636	.001328	.005725	.001019
%RSD	118.1845	203.5272	82.78132	29.19613	1554.203	39.03765	28.33739

#1	-.001490	.0005790	-.000264	.0025654	-.001515	-.020811	-.004488
#2	.000074	-.000398	-.000011	.0014897	.000151	-.013698	-.002485
#3	-.000579	.000714	-.000206	.0017359	.001108	-.009484	-.003813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000038	-.000159	-.023724	.0014164	-.000206	.0009549	-.007527
Stddev	.000034	.000037	.000970	.0005836	.000143	.0003958	.000646
%RSD	88.68050	22.99370	4.087030	41.20752	69.44955	41.45068	8.585247

#1	-.000047	-.000191	-.022623	.0020379	-.000325	.0014098	-.006947
#2	-.000001	-.000119	-.024447	.0008800	-.000047	.0007663	-.008224
#3	-.000068	-.000168	-.024103	.0013311	-.000245	.0006887	-.007412

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	-.022407	-.000059	.0003136	-.097923	-.001545	.0010055
Stddev	.000325	.006411	.000094	.0005164	.006892	.000712	.0001678
%RSD	333.1988	28.61382	159.2137	164.6458	7.038613	46.12859	16.68869

#1	-.000233	-.020516	-.000124	.0001423	-.096068	-.001737	.0010634
#2	-.000332	-.017153	.000049	-.000095	-.105553	-.002141	.0008164
#3	.000273	-.029551	-.000102	.000894	-.092147	-.000755	.0011367

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014650	.0059156	-.000159	.0000338	-.001152	.0038132	.0010622
Stddev	.016514	.0003154	.000202	.0004324	.000530	.0062807	.0014760
%RSD	112.7205	5.331710	127.4271	1278.706	45.99109	164.7087	138.9568

#1	.002381	.0060799	-.000132	.0002199	-.001375	-.003419	.0027407
#2	-.030592	.0061148	-.000373	-.000460	-.000547	.006957	.0004786
#3	-.015740	.0055519	.000029	.000342	-.001533	.007902	-.000033

Sample Name: CCB01 Acquired: 8/13/2025 13:03:05 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001350	-.004000	-.000299
Stddev	.001798	.001573	.000052
%RSD	133.2183	39.32689	17.41513

#1	-.001136	-.003459	-.000260
#2	.000332	-.002769	-.000279
#3	-.003245	-.005772	-.000358

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5851.750	104344.0	11399.46	4448.811	7637.193
Stddev	5.292	478.6	120.53	11.758	4.517
%RSD	.0904386	.4586607	1.057325	.2642944	.0591440

#1	5853.156	104753.0	11439.63	4458.315	7638.654
#2	5856.197	103817.6	11263.97	4452.457	7640.799
#3	5845.897	104461.4	11494.76	4435.662	7632.127

Sample Name: Q2828-01 Acquired: 8/13/2025 13:07:24 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1134400	.0091516	1.533352	.0108986	.1062454	166.4215	2.636055
Stddev	.0015758	.0040709	.001904	.0014848	.0027283	1.3196	.011931
%RSD	1.389133	44.48259	.1241626	13.62367	2.567924	.7929354	.4526193

#1	.1134908	.0050198	1.532807	.0121019	.1073272	166.8840	2.626658
#2	.1118394	.0092765	1.531779	.0113547	.1082669	164.9329	2.632029
#3	.1149898	.0131587	1.535469	.0092393	.1031421	167.4476	2.649479

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202952	.1062010	186.2417	1.308005	.8657477	1.634701	256.9624
Stddev	.0001481	.0004095	2.7180	.004477	.0004183	.003580	4.5732
%RSD	.7299014	.3855493	1.459390	.3423139	.0483169	.2189785	1.779725

#1	.0204270	.1057696	187.4768	1.309300	.8659356	1.631343	260.6307
#2	.0203238	.1065842	188.1228	1.303023	.8660392	1.638467	251.8385
#3	.0201349	.1062493	183.1255	1.311693	.8652684	1.634294	258.4179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.443344	25.86734	3.062504	.0338287	18.71360	.6835053	5.160948
Stddev	.009517	.03745	.001462	.0016321	.22414	.0004427	.011324
%RSD	.2141747	.1447709	.0477248	4.824718	1.197735	.0647699	.2194135

#1	4.437145	25.90887	3.063683	.0353896	18.54055	.6837543	5.173606
#2	4.438587	25.85698	3.060869	.0321336	18.63345	.6829942	5.157459
#3	4.454301	25.83616	3.062961	.0339629	18.96680	.6837675	5.151780

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.638579	.9711255	.1761253	.1868855	14.96628	4.791280	3.820196
Stddev	.038190	.0151179	.0001415	.0008033	.02037	.037473	.012040
%RSD	.5752779	1.556740	.0803617	.4298641	.1361015	.7821169	.3151649

#1	6.607898	.9861273	.1759761	.1872383	14.96144	4.786174	3.810288
#2	6.626488	.9558942	.1761422	.1859661	14.94876	4.756621	3.816704
#3	6.681351	.9713551	.1762576	.1874521	14.98863	4.831044	3.833596

Sample Name: Q2828-01 Acquired: 8/13/2025 13:07:24 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.773174	.3623238	1.257674
Stddev	.036608	.0018432	.014664
%RSD	.4709588	.5087047	1.165947

#1	7.764086	.3632790	1.273092
#2	7.741966	.3601991	1.256028
#3	7.813471	.3634933	1.243903

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10847.07	190843.4	24787.89	8059.269	5851.491
Stddev	23.51	876.4	139.91	14.056	6.464
%RSD	.2167710	.4592384	.5644095	.1744020	.1104658

#1	10874.18	191183.3	24628.60	8043.386	5858.912
#2	10832.27	191499.0	24844.22	8064.318	5847.087
#3	10834.77	189847.9	24890.85	8070.102	5848.474

Sample Name: Q2828-01DUP Acquired: 8/13/2025 13:12:06 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1158155	.0148352	1.532858	.0134744	.1128472	165.6223	2.601885
Stddev	.0015015	.0029402	.002353	.0008166	.0007135	2.9241	.010841
%RSD	1.296437	19.81900	.1535243	6.060074	.6322709	1.765542	.4166676

#1	.1172474	.0115629	1.530339	.0142994	.1134845	162.3270	2.595097
#2	.1142530	.0172546	1.535001	.0134573	.1120763	166.6324	2.596170
#3	.1159463	.0156882	1.533233	.0126666	.1129807	167.9075	2.614388

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203181	.1055997	186.2800	1.293369	.8525037	1.653211	255.0616
Stddev	.0001062	.0001265	1.5873	.005095	.0013593	.002973	2.7857
%RSD	.5225224	.1198118	.8521250	.3939655	.1594527	.1798595	1.092172

#1	.0202344	.1055010	185.3925	1.288126	.8524774	1.650434	258.2317
#2	.0202824	.1057423	188.1126	1.293677	.8538760	1.656348	253.0042
#3	.0204375	.1055557	185.3349	1.298303	.8511577	1.652852	253.9490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.454185	25.99138	3.023303	.0339602	18.67039	.6861745	5.142791
Stddev	.020187	.05425	.003063	.0012542	.03486	.0049921	.006382
%RSD	.4532054	.2087361	.1013161	3.693023	.1867154	.7275241	.1240934

#1	4.439820	25.92941	3.019793	.0353625	18.63341	.6808485	5.135883
#2	4.445471	26.01442	3.025437	.0329458	18.70265	.6869278	5.144023
#3	4.477265	26.03032	3.024679	.0335723	18.67511	.6907471	5.148467

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.603250	.9747618	.1783009	.1853271	14.84422	3.869544	3.781350
Stddev	.030996	.0059859	.0001001	.0016453	.05866	.022660	.011464
%RSD	.4694029	.6140847	.0561218	.8877616	.3951431	.5856026	.3031768

#1	6.637791	.9810424	.1784010	.1870788	14.81215	3.844501	3.782269
#2	6.594100	.9691223	.1783006	.1850881	14.80859	3.888632	3.769455
#3	6.577859	.9741207	.1782009	.1838145	14.91192	3.875500	3.792328

Sample Name: Q2828-01DUP Acquired: 8/13/2025 13:12:06 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.734245	.3603983	1.261066
Stddev	.040429	.0010436	.015900
%RSD	.5227262	.2895702	1.260865

#1	7.738389	.3607265	1.251076
#2	7.691904	.3592301	1.279401
#3	7.772442	.3612384	1.252720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10603.16	189222.5	24470.91	8067.296	5787.316
Stddev	22.72	175.1	131.64	26.251	12.262
%RSD	.2143126	.0925284	.5379531	.3254063	.2118816

#1	10617.09	189391.1	24546.45	8045.391	5799.051
#2	10576.94	189041.6	24547.38	8096.394	5774.587
#3	10615.46	189234.8	24318.91	8060.102	5788.311

Sample Name: Q2828-01LX5 Acquired: 8/13/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374715	.0054799	.3129119	.0034262	.0352743	56.94094	.8923724
Stddev	.0030387	.0019713	.0007200	.0013189	.0009382	.14880	.0014934
%RSD	8.109254	35.97277	.2301101	38.49380	2.659784	.2613265	.1673533

#1	.0384185	.0032081	.3121144	.0021354	.0354689	56.76937	.8911017
#2	.0399239	.0064933	.3135144	.0047714	.0360999	57.03476	.8940173
#3	.0340721	.0067382	.3131068	.0033718	.0342540	57.01870	.8919981

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072923	.0167536	65.96660	.4662722	.1679308	.5963318	87.31986
Stddev	.0000975	.0000931	.09158	.0050144	.0005588	.0009259	.27581
%RSD	1.337256	.5558538	.1388234	1.075420	.3327414	.1552667	.3158593

#1	.0072447	.0166691	65.86390	.4715687	.1673239	.5952874	87.59274
#2	.0074045	.0167382	66.03976	.4656498	.1680448	.5966561	87.32562
#3	.0072278	.0168534	65.99613	.4615980	.1684239	.5970519	87.04121

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.597058	9.332307	.6110464	.0122545	5.451154	.2416844	1.868615
Stddev	.003012	.015072	.0011982	.0002839	.017208	.0020022	.007942
%RSD	.1885819	.1615043	.1960946	2.316671	.3156702	.8284214	.4250164

#1	1.593591	9.334797	.6099449	.0121666	5.462255	.2423569	1.860546
#2	1.599027	9.316146	.6108720	.0125719	5.459874	.2432637	1.876424
#3	1.598556	9.345980	.6123222	.0120249	5.431331	.2394325	1.868875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.008778	.3605193	.0609411	.0368072	5.260559	1.535192	.7285319
Stddev	.030265	.0011303	.0002233	.0000442	.003747	.026223	.0044502
%RSD	1.506614	.3135261	.3664465	.1200149	.0712353	1.708100	.6108499

#1	2.017505	.3592621	.0611443	.0367570	5.260691	1.561722	.7238226
#2	1.975108	.3614515	.0609771	.0368244	5.264239	1.534565	.7291056
#3	2.033720	.3608444	.0607020	.0368402	5.256747	1.509288	.7326675

Sample Name: Q2828-01LX5 Acquired: 8/13/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.417286	.1153787	.4399982
Stddev	.005971	.0004917	.0016475
%RSD	.4212716	.4261647	.3744271

#1	1.424138	.1157406	.4381381
#2	1.413197	.1155766	.4412736
#3	1.414524	.1148189	.4405829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6797.836	120467.2	14251.06	5159.481	6763.759
Stddev	4.545	191.4	72.55	18.358	6.699
%RSD	.0668549	.1589031	.5090718	.3558027	.0990436

#1	6800.417	120479.8	14330.11	5172.609	6771.340
#2	6792.589	120269.8	14187.52	5138.503	6761.305
#3	6800.503	120652.0	14235.56	5167.330	6758.634

Sample Name: Q2828-01MS Acquired: 8/13/2025 13:20:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4351764	1.631806	2.687091	.7305922	.2975854	226.5995	2.854597
Stddev	.0027281	.050930	.004847	.0045100	.0030584	2.1090	.021283
%RSD	.6268927	3.121092	.1803775	.6173082	1.027749	.9307268	.7455781

#1	.4355422	1.578458	2.686194	.7279700	.2973353	224.1644	2.830455
#2	.4322839	1.637048	2.682755	.7280067	.2946597	227.7955	2.870649
#3	.4377032	1.679913	2.692323	.7357998	.3007612	227.8387	2.862687

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0971046	.3053206	253.8815	1.519295	1.149584	1.963534	249.5014
Stddev	.0007481	.0006048	2.5695	.010415	.002146	.000298	2.4786
%RSD	.7704324	.1980948	1.012103	.6855172	.1866773	.0151547	.9934152

#1	.0962449	.3052109	250.9508	1.507276	1.148241	1.963518	246.8062
#2	.0976077	.3047781	255.7482	1.525667	1.148453	1.963244	251.6829
#3	.0974611	.3059728	254.9454	1.524943	1.152059	1.963839	250.0152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.333563	35.79715	3.824304	.0783584	24.96618	1.366538	5.945174
Stddev	.014569	.18385	.005270	.0007498	.00881	.006098	.024668
%RSD	.2731514	.5135933	.1378003	.9568491	.0352953	.4462156	.4149186

#1	5.317401	35.61445	3.825148	.0774946	24.95866	1.359577	5.966449
#2	5.345686	35.98213	3.818663	.0787399	24.97587	1.370936	5.918134
#3	5.337603	35.79488	3.829101	.0788406	24.96401	1.369101	5.950938

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.41596	1.260318	.3335284	.8504869	15.32760	5.942173	9.990505
Stddev	.01873	.012414	.0010168	.0028623	.04145	.028959	.025481
%RSD	.1395949	.9849807	.3048548	.3365440	.2703969	.4873392	.2550539

#1	13.39991	1.246265	.3325826	.8484021	15.27986	5.910251	10.00195
#2	13.41145	1.269790	.3333989	.8493084	15.34852	5.949513	9.96131
#3	13.43654	1.264899	.3346037	.8537503	15.35441	5.966756	10.00826

Sample Name: Q2828-01MS Acquired: 8/13/2025 13:20:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.405993	.4839844	1.580557
Stddev	.052539	.0012301	.017248
%RSD	.5585735	.2541656	1.091286

#1	9.353141	.4831675	1.576974
#2	9.406625	.4833866	1.565381
#3	9.458214	.4853992	1.599315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11150.53	196965.1	26052.92	8416.630	5545.990
Stddev	18.99	1494.4	236.39	16.122	5.603
%RSD	.1703315	.7587226	.9073641	.1915531	.1010329

#1	11166.06	198514.7	26310.19	8428.839	5552.447
#2	11129.35	195532.8	25845.28	8398.355	5542.405
#3	11156.16	196847.8	26003.31	8422.697	5543.117

Sample Name: Q2828-01MSD Acquired: 8/13/2025 13:25:37 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4615840	1.715748	2.650532	.7844096	.2400832	241.6083	2.750904
Stddev	.0014728	.030870	.001999	.0023306	.0007801	2.2615	.042241
%RSD	.3190697	1.799219	.0754252	.2971139	.3249339	.9360124	1.535533

#1	.4603177	1.687476	2.648324	.7818328	.2407470	244.0371	2.751524
#2	.4612341	1.711081	2.651052	.7863701	.2402786	239.5632	2.792832
#3	.4632002	1.748685	2.652220	.7850259	.2392239	241.2247	2.708357

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1061506	.3148512	282.9101	1.746571	1.203677	1.923987	288.2252
Stddev	.0002332	.0006359	1.8151	.007134	.001830	.002565	3.2417
%RSD	.2196529	.2019656	.6415928	.4084683	.1520090	.1333316	1.124696

#1	.1063684	.3141310	284.3286	1.748688	1.201599	1.921458	291.5038
#2	.1059046	.3153350	283.5371	1.738618	1.204387	1.926587	285.0218
#3	.1061787	.3150876	280.8646	1.752407	1.205046	1.923916	288.1502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.736477	39.05291	4.079435	.0788640	24.11455	.9461061	5.724962
Stddev	.029504	.08312	.005347	.0010605	.10649	.0024564	.021914
%RSD	.5143223	.2128394	.1310627	1.344657	.4416175	.2596280	.3827767

#1	5.757364	39.14467	4.073860	.0799670	24.15044	.9489230	5.730063
#2	5.749342	38.98265	4.084519	.0778519	24.19847	.9449851	5.700947
#3	5.702725	39.03143	4.079925	.0787732	23.99475	.9444103	5.743875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.30633	1.279237	.3421945	.8797464	14.67077	1.143119	9.957083
Stddev	.03329	.008530	.0006492	.0033389	.04647	.017539	.045158
%RSD	.2502135	.6668188	.1897172	.3795345	.3167335	1.534312	.4535276

#1	13.32852	1.287682	.3420382	.8771325	14.68701	1.162189	10.00213
#2	13.32244	1.270624	.3416377	.8785990	14.70694	1.139488	9.95730
#3	13.26805	1.279405	.3429076	.8835078	14.61836	1.127679	9.91182

Sample Name: Q2828-01MSD Acquired: 8/13/2025 13:25:37 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.579984	.4892810	1.560177
Stddev	.022632	.0022723	.017256
%RSD	.2362426	.4644240	1.106057

#1	9.568223	.4909751	1.564974
#2	9.565654	.4901691	1.574528
#3	9.606075	.4866987	1.541030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10569.60	185523.5	24488.62	8022.232	5387.879
Stddev	8.81	562.7	26.55	28.638	5.614
%RSD	.0833058	.3033084	.1084259	.3569804	.1042035

#1	10575.21	185376.6	24463.69	8033.160	5388.470
#2	10574.14	186145.1	24516.54	8043.797	5393.175
#3	10559.46	185048.8	24485.63	7989.739	5381.993

Sample Name: Q2828-01A Acquired: 8/13/2025 13:30:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4985563	1.727627	2.394146	.9585126	.5136132	174.0700	2.651098
Stddev	.0127946	.072811	.112491	.0253087	.0159573	.9918	.008567
%RSD	2.566324	4.214509	4.698568	2.640417	3.106871	.5697729	.3231585

#1	.5020827	1.759048	2.438899	.9679940	.5192490	175.2100	2.659650
#2	.5092178	1.779450	2.477372	.9777115	.5259879	173.4052	2.642516
#3	.4843683	1.644381	2.266166	.9298321	.4956028	173.5948	2.651128

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1078394	.2920576	192.9332	1.479441	1.018800	1.764613	257.2287
Stddev	.0002290	.0151426	1.1552	.004351	.051056	.045010	1.6002
%RSD	.2123098	5.184791	.5987651	.2940722	5.011344	2.550723	.6220730

#1	.1076176	.2988290	191.6937	1.475171	1.041834	1.784497	257.5228
#2	.1078256	.3026328	193.9798	1.479284	1.054280	1.796258	255.5018
#3	.1080749	.2747109	193.1260	1.483868	.960285	1.713085	258.6613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.586002	27.82926	3.425555	.0742261	20.53416	.8293754	5.280278
Stddev	.011470	.06904	.164230	.0007513	.06541	.0017896	.006902
%RSD	.2501002	.2480940	4.794263	1.012168	.3185292	.2157720	.1307175

#1	4.592972	27.89665	3.498943	.0742723	20.58898	.8306126	5.284897
#2	4.572764	27.75868	3.540296	.0734528	20.46176	.8273234	5.283594
#3	4.592270	27.83246	3.237428	.0749533	20.55175	.8301902	5.272344

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.34843	1.100116	.3691177	.8588195	14.91686	3.738774	9.330480
Stddev	.02891	.006739	.0088644	.0359762	.03014	.020807	.451604
%RSD	.2340916	.6125717	2.401496	4.189034	.2020420	.5565135	4.840099

#1	12.34718	1.099619	.3739229	.8760554	14.93945	3.717871	9.532941
#2	12.32017	1.093640	.3745419	.8829352	14.88264	3.738969	9.645426
#3	12.37794	1.107091	.3588883	.8174681	14.92848	3.759484	8.813072

Sample Name: Q2828-01A Acquired: 8/13/2025 13:30:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.567011	.4534073	1.365456
Stddev	.382646	.0018455	.006631
%RSD	5.056764	.4070324	.4855914

#1	7.729611	.4554836	1.370162
#2	7.841503	.4519537	1.357873
#3	7.129917	.4527845	1.368333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10592.85	185875.3	24225.45	7907.430	5852.049
Stddev	136.59	303.8	18.83	33.349	226.891
%RSD	1.289441	.1634175	.0777375	.4217425	3.877115

#1	10528.16	186222.7	24242.12	7875.736	5746.291
#2	10500.63	185659.7	24205.02	7904.335	5697.344
#3	10749.77	185743.6	24229.21	7942.219	6112.511

Sample Name: CCV02 Acquired: 8/13/2025 13:42:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.949760	4.959503	4.852074	4.982082	4.970518	9.695432	9.662181
Stddev	.008222	.043373	.003983	.004322	.002979	.013974	.133465
%RSD	.1661075	.8745405	.0820986	.0867538	.0599281	.1441246	1.381311

#1	4.945489	4.927510	4.855461	4.981265	4.973161	9.707947	9.655441
#2	4.959239	4.942129	4.847685	4.978226	4.971104	9.680354	9.532215
#3	4.944553	5.008869	4.853075	4.986754	4.967290	9.697994	9.798889

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2404294	2.432348	24.24217	.9874279	2.426362	1.233085	4.979648
Stddev	.0010260	.003406	.06117	.0023567	.002690	.001601	.035100
%RSD	.4267275	.1400448	.2523355	.2386671	.1108509	.1298123	.7048683

#1	.2401409	2.435142	24.26725	.9899564	2.428882	1.231449	5.014956
#2	.2395785	2.428553	24.17244	.9852925	2.423530	1.233160	4.979228
#3	.2415687	2.433349	24.28681	.9870347	2.426673	1.234647	4.944760

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.415383	24.10653	2.434774	1.235911	24.10775	2.445297	2.459773
Stddev	.009072	.14085	.003600	.000164	.17284	.004068	.006594
%RSD	.3755825	.5842922	.1478514	.0132602	.7169484	.1663490	.2680792

#1	2.421927	24.10849	2.438770	1.235770	24.27911	2.449432	2.452422
#2	2.405027	23.96471	2.431785	1.236091	24.11068	2.441300	2.461730
#3	2.419194	24.24639	2.433767	1.235874	23.93347	2.445160	2.465167

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.58278	4.818771	4.982915	4.884147	4.850847	5.108879	4.740257
Stddev	.14503	.020018	.005117	.009146	.017529	.024578	.019218
%RSD	.5899829	.4154131	.1026955	.1872541	.3613697	.4810744	.4054274

#1	24.66268	4.807965	4.979921	4.893465	4.869623	5.131006	4.761259
#2	24.67030	4.806478	4.979999	4.883790	4.834910	5.082425	4.735965
#3	24.41537	4.841870	4.988823	4.875184	4.848008	5.113205	4.723548

Sample Name: CCV02 Acquired: 8/13/2025 13:42:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.789228	4.691877	4.874356
Stddev	.008200	.014598	.024380
%RSD	.1712100	.3111262	.5001740

#1	4.790081	4.708733	4.850932
#2	4.796967	4.683532	4.899591
#3	4.780635	4.683367	4.872544

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5628.741	99513.57	11398.15	4267.446	6777.463
Stddev	7.659	284.50	60.04	14.171	10.063
%RSD	.1360747	.2858916	.5267156	.3320646	.1484718

#1	5629.214	99203.61	11377.40	4278.198	6772.061
#2	5636.153	99762.81	11465.81	4272.752	6789.073
#3	5620.856	99574.29	11351.24	4251.388	6771.255

Sample Name: CCB02 Acquired: 8/13/2025 13:46:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007395	-.000110	-.000212	.0008023	-.001855	-.017428	-.005219
Stddev	.0009079	.001248	.001121	.0027119	.001276	.002048	.001690
%RSD	122.7650	1135.386	529.6019	338.0241	68.78618	11.75390	32.37903

#1	.0002206	-.000462	.000716	-.001961	-.003304	-.018412	-.003322
#2	.0017879	.001277	.000106	.000907	-.000898	-.015073	-.006563
#3	.0002101	-.001144	-.001457	.003460	-.001364	-.018798	-.005773

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000071	-.000106	-.014381	.0001949	-.000093	-.000229	-.007042
Stddev	.000017	.000042	.008184	.0003369	.000093	.000264	.000950
%RSD	23.97527	39.50109	56.90658	172.9026	99.95443	115.5440	13.49072

#1	-.000055	-.000104	-.022739	.0005834	-.000196	-.000451	-.008084
#2	-.000070	-.000148	-.014022	-.000016	-.000014	.000064	-.006816
#3	-.000089	-.000065	-.006383	.000018	-.000070	-.000299	-.006225

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000148	-.012578	-.000139	-.000051	-.007774	-.000516	-.000457
Stddev	.000238	.004012	.000274	.000282	.008801	.000422	.000184
%RSD	160.4225	31.89640	197.0884	549.7045	113.2215	81.75090	40.21013

#1	-.000381	-.010357	-.000275	.000272	-.005774	-.000908	-.000394
#2	-.000158	-.017209	.000177	-.000245	-.017403	-.000070	-.000664
#3	.000094	-.010168	-.000319	-.000180	-.000144	-.000570	-.000313

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1141832	.0063237	.0000460	.0003722	-.000269	.0103934	.0006505
Stddev	.0261732	.0003078	.0001857	.0001704	.001067	.0175891	.0015128
%RSD	22.92217	4.867042	403.9285	45.78533	396.2427	169.2337	232.5626

#1	.0840241	.0066199	.0000858	.0002075	-.001092	.0031930	.0022614
#2	.1275707	.0063457	.0002085	.0003612	-.000652	-.002453	-.000740
#3	.1309546	.0060055	-.000156	.0005478	.000936	.030440	.000430

Sample Name: CCB02 Acquired: 8/13/2025 13:46:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000826	-.002222	-.000385
Stddev	.001082	.000297	.000013
%RSD	130.9256	13.36158	3.308400

#1	.000422	-.002151	-.000370
#2	-.001416	-.001967	-.000393
#3	-.001484	-.002548	-.000392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5806.516	104236.5	11409.06	4447.255	7564.010
Stddev	9.174	248.6	90.83	17.722	3.764
%RSD	.1580008	.2385264	.7961604	.3984855	.0497651

#1	5796.239	103984.8	11416.82	4427.024	7564.422
#2	5809.427	104242.7	11495.76	4454.709	7567.552
#3	5813.882	104482.0	11314.59	4460.032	7560.057

Sample Name: Q2830-01 Acquired: 8/13/2025 13:50:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453111	-.056883	.3865274	.0131982	-.022559	152.2161	1.736366
Stddev	.0009073	.001454	.0008237	.0036534	.002791	.1455	.004921
%RSD	.6244071	2.556802	.2131029	27.68147	12.37309	.0956025	.2834265

#1	.1454709	-.055205	.3867949	.0146423	-.019433	152.2886	1.740244
#2	.1461279	-.057657	.3871841	.0159088	-.024800	152.0486	1.730830
#3	.1443344	-.057787	.3856032	.0090434	-.023445	152.3112	1.738026

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173701	.0147549	24.50382	.2734636	.1620453	.1345569	440.7952
Stddev	.0000865	.0008025	.05598	.0015646	.0002981	.0032392	7.2620
%RSD	.4981133	5.438563	.2284726	.5721374	.1839742	2.407349	1.647467

#1	.0173360	.0138483	24.56844	.2752627	.1618765	.1308169	448.8563
#2	.0174684	.0150422	24.46997	.2727076	.1623895	.1363828	438.7644
#3	.0173057	.0153741	24.47305	.2724207	.1618698	.1364711	434.7647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.053170	43.39191	.2419968	.0125469	1.615406	.5301259	.7093288
Stddev	.008929	.11217	.0005779	.0023185	.023901	.0024664	.0028820
%RSD	.1265909	.2584947	.2387986	18.47885	1.479546	.4652570	.4063013

#1	7.063184	43.45313	.2413544	.0150755	1.641766	.5327165	.7093729
#2	7.046041	43.46015	.2424743	.0120445	1.609304	.5278059	.7121884
#3	7.050282	43.26246	.2421617	.0105208	1.595148	.5298554	.7064249

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.93763	.2061289	.0039361	.0175232	2.264388	6.567941	9.327685
Stddev	.06222	.0197373	.0001829	.0016550	.003505	.048097	.006302
%RSD	.5212011	9.575225	4.645983	9.444708	.1547686	.7323005	.0675626

#1	12.00235	.2284110	.0038572	.0161573	2.266175	6.609928	9.323849
#2	11.87826	.1991339	.0038059	.0193637	2.260350	6.578430	9.324248
#3	11.93228	.1908417	.0041452	.0170487	2.266640	6.515465	9.334958

Sample Name: Q2830-01 Acquired: 8/13/2025 13:50:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.041949	.6125078	-.279202
Stddev	.016170	.0010017	.006923
%RSD	.7919129	.1635426	2.479715

#1	2.026327	.6136305	-.286871
#2	2.040902	.6117053	-.277326
#3	2.058617	.6121878	-.273411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6119.552	107055.6	13022.57	4596.786	6449.588
Stddev	7.994	543.1	11.22	22.320	6.216
%RSD	.1306277	.5073419	.0861711	.4855565	.0963758

#1	6110.346	106533.9	13031.54	4571.547	6453.282
#2	6124.736	107014.8	13009.99	4604.886	6442.412
#3	6123.575	107617.9	13026.18	4613.925	6453.071

Sample Name: Q2830-03 Acquired: 8/13/2025 13:55:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1069329	-.058267	.3408371	.0184989	-.023934	285.4843	1.256137
Stddev	.0054180	.001836	.0010438	.0029298	.001281	1.7627	.009323
%RSD	5.066772	3.151502	.3062355	15.83794	5.350297	.6174488	.7421650

#1	.1059495	-.060360	.3403176	.0152174	-.025344	287.4928	1.256099
#2	.1020739	-.056925	.3420387	.0194269	-.022843	284.1942	1.265479
#3	.1127753	-.057517	.3401551	.0208524	-.023616	284.7659	1.246834

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0200945	.0183256	13.93393	.4177108	.2867184	.1966260	546.8259
Stddev	.0000651	.0003885	.03499	.0007056	.0009352	.0044343	4.2256
%RSD	.3237473	2.119844	.2511435	.1689157	.3261755	2.255180	.7727529

#1	.0200965	.0184833	13.90667	.4177481	.2865534	.1995388	544.2780
#2	.0201585	.0186104	13.97339	.4183969	.2877250	.1988165	544.4962
#3	.0200284	.0178830	13.92172	.4169873	.2858766	.1915228	551.7036

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.443343	93.59478	.5106256	.0164036	2.137585	.5050311	1.294008
Stddev	.039951	.38588	.0018568	.0021047	.020426	.0025238	.003464
%RSD	.5367407	.4122851	.3636318	12.83043	.9555561	.4997373	.2676837

#1	7.436096	93.47368	.5093758	.0148412	2.142030	.5021470	1.292839
#2	7.486422	94.02668	.5127593	.0155727	2.155422	.5068353	1.297905
#3	7.407512	93.28397	.5097418	.0187968	2.115302	.5061110	1.291280

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.98573	^ *****	.0084098	.0201118	4.861828	6.028986	3.927140
Stddev	.02819	-----	.0005355	.0002997	.016239	.030391	.010970
%RSD	.0881428	-----	6.367142	1.490399	.3340137	.5040852	.2793332

#1	31.98346	^ -----	.0090075	.0202926	4.852424	6.037934	3.927290
#2	32.01500	^ -----	.0079740	.0197658	4.880580	5.995126	3.938034
#3	31.95875	^ -----	.0082479	.0202769	4.852481	6.053899	3.916096

Sample Name: Q2830-03 Acquired: 8/13/2025 13:55:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.148863	.9060076	-.400646
Stddev	.010284	.0038149	.004533
%RSD	.8951699	.4210639	1.131329

#1	1.141996	.9036094	-.398279
#2	1.160687	.9104067	-.397786
#3	1.143906	.9040068	-.405872

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5872.360	103376.9	12822.03	4485.751	6090.982
Stddev	16.435	298.3	80.93	24.339	17.017
%RSD	.2798652	.2885852	.6311699	.5425853	.2793761

#1	5856.661	103071.6	12809.47	4492.041	6081.982
#2	5870.977	103391.2	12748.11	4458.884	6080.356
#3	5889.443	103667.8	12908.50	4506.327	6110.609

Sample Name: Q2830-05 Acquired: 8/13/2025 13:59:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0981097	-.049740	.3946600	.0048797	-.022567	210.1859	2.187957
Stddev	.0010152	.003686	.0005067	.0022408	.000572	2.9339	.004397
%RSD	1.034745	7.409790	.1283799	45.92187	2.533900	1.395850	.2009432

#1	.0988646	-.045697	.3949134	.0052919	-.022903	213.3367	2.185531
#2	.0969556	-.050611	.3940766	.0068858	-.021906	207.5326	2.193032
#3	.0985090	-.052913	.3949900	.0024613	-.022891	209.6885	2.185309

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0251375	.0285491	20.79386	.3784151	.3824168	.1868235	469.9531
Stddev	.0002079	.0002725	.02010	.0005088	.0003619	.0012097	1.2231
%RSD	.8268877	.9545306	.0966698	.1344550	.0946473	.6475056	.2602682

#1	.0253632	.0287931	20.80846	.3788631	.3820680	.1859195	468.5525
#2	.0249540	.0282550	20.80218	.3785203	.3823918	.1863532	470.8111
#3	.0250954	.0285993	20.77093	.3778619	.3827906	.1881977	470.4956

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.99003	91.00166	.6855060	.0110437	2.210052	.4841577	1.257853
Stddev	.01316	.10038	.0021833	.0003044	.019969	.0007250	.002923
%RSD	.1013234	.1103038	.3184924	2.756213	.9035583	.1497453	.2323714

#1	13.00512	91.06672	.6833150	.0106936	2.188100	.4844402	1.254484
#2	12.98403	90.88605	.6855213	.0111919	2.227138	.4846989	1.259366
#3	12.98094	91.05220	.6876815	.0112456	2.214919	.4833340	1.259709

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.36584	^ *****	.0106158	.0188448	5.040346	6.474977	6.195487
Stddev	.15145	-----	.0000928	.0016341	.002647	.029825	.013510
%RSD	.4679389	-----	.8743992	8.671432	.0525142	.4606186	.2180576

#1	32.19118	^ -----	.0105786	.0169585	5.043362	6.445573	6.182473
#2	32.46086	^ -----	.0105473	.0198295	5.038409	6.505206	6.209443
#3	32.44548	^ -----	.0107215	.0197465	5.039267	6.474154	6.194545

Sample Name: Q2830-05 Acquired: 8/13/2025 13:59:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.052204	.9037890	-.277054
Stddev	.008756	.0020129	.001073
%RSD	.4266834	.2227147	.3874281

#1	2.062032	.9015527	-.275819
#2	2.045234	.9054556	-.277761
#3	2.049345	.9043587	-.277582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6912.601	123022.2	15099.17	5259.239	6026.339
Stddev	4.661	262.8	57.80	16.562	4.823
%RSD	.0674281	.2135984	.3828035	.3149163	.0800352

#1	6907.804	123213.6	15054.11	5277.778	6026.448
#2	6917.113	123130.5	15164.34	5254.035	6031.106
#3	6912.885	122722.6	15079.06	5245.903	6021.462

Sample Name: Q2830-07 Acquired: 8/13/2025 14:03:39 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2164020	-.086202	.3725533	.0126132	-.034533	232.5435	2.703325
Stddev	.0020258	.002440	.0048387	.0019213	.003323	2.7196	.011360
%RSD	.9361312	2.830043	1.298802	15.23228	9.623952	1.169486	.4202122

#1	.2150516	-.084667	.3724754	.0146163	-.038242	230.4673	2.707604
#2	.2154232	-.089015	.3677541	.0107858	-.033529	231.5412	2.711924
#3	.2187314	-.084925	.3774306	.0124376	-.031827	235.6220	2.690447

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0318307	.0331737	26.50333	.4026310	.2514180	.1070152	635.3351
Stddev	.0001591	.0004114	.02141	.0005523	.0004308	.0017124	2.7732
%RSD	.4999650	1.240123	.0807693	.1371638	.1713455	1.600164	.4364864

#1	.0318912	.0336477	26.52071	.4020195	.2515941	.1073989	632.2128
#2	.0316502	.0329649	26.47941	.4027800	.2509270	.1051435	637.5117
#3	.0319507	.0329086	26.50986	.4030935	.2517328	.1085033	636.2809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.406815	69.61454	.4438670	.0160380	2.111442	.7571068	.9436670
Stddev	.027553	.13335	.0004000	.0011218	.009959	.0021030	.0014319
%RSD	.2929047	.1915481	.0901211	6.994476	.4716822	.2777619	.1517369

#1	9.420118	69.54421	.4440964	.0147561	2.122432	.7581159	.9449674
#2	9.425192	69.53109	.4434051	.0168399	2.103015	.7546894	.9439012
#3	9.375135	69.76833	.4440995	.0165181	2.108878	.7585150	.9421325

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.91657	^ *****	.0071506	.0224507	3.350843	7.718096	16.67951
Stddev	.05597	-----	.0001171	.0008657	.006427	.022225	.05170
%RSD	.2675800	-----	1.637720	3.856207	.1917944	.2879593	.3099444

#1	20.95895	^ -----	.0071322	.0216211	3.355016	7.694176	16.66228
#2	20.93763	^ -----	.0070437	.0223826	3.354071	7.738108	16.63863
#3	20.85312	^ -----	.0072758	.0233485	3.343442	7.722005	16.73762

Sample Name: Q2830-07 Acquired: 8/13/2025 14:03:39 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.752929	.8552609	-.447667
Stddev	.024383	.0016938	.002827
%RSD	1.391001	.1980485	.6314977
#1	1.725597	.8565158	-.444412
#2	1.760741	.8559327	-.449082
#3	1.772449	.8533342	-.449507

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6521.479	116295.9	14513.92	4946.778	5954.749
Stddev	13.480	81.2	47.96	18.246	7.674
%RSD	.2066945	.0698483	.3304376	.3688440	.1288658
#1	6505.990	116366.6	14528.89	4965.887	5946.839
#2	6527.894	116207.1	14552.61	4929.539	5962.162
#3	6530.553	116313.8	14460.26	4944.908	5955.247

Sample Name: Q2831-01 Acquired: 8/13/2025 14:07:58 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0842644	-.028549	.7568970	.0092254	-.001733	129.3234	.9619753
Stddev	.0018064	.003787	.0025219	.0046695	.001596	.2170	.0032684
%RSD	2.143742	13.26499	.3331951	50.61560	92.09078	.1677751	.3397588

#1	.0857302	-.029119	.7546658	.0103259	-.003434	129.3041	.9582198
#2	.0822463	-.024510	.7596333	.0041040	-.001495	129.1166	.9635293
#3	.0848167	-.032019	.7563920	.0132464	-.000269	129.5493	.9641767

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110824	.0130389	29.22138	.2229414	.1304059	.4015786	287.3479
Stddev	.0000183	.0001943	.03085	.0004774	.0007261	.0005560	.9555
%RSD	.1649328	1.490445	.1055895	.2141515	.5568365	.1384538	.3325383

#1	.0110677	.0128947	29.24894	.2230085	.1298015	.4016671	286.4096
#2	.0110767	.0129622	29.18805	.2224339	.1302048	.4009837	288.3198
#3	.0111029	.0132599	29.22716	.2233817	.1312114	.4020851	287.3142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.318509	44.53995	.2586293	.0106994	2.636514	.3195009	1.659430
Stddev	.015617	.11522	.0008225	.0000502	.014832	.0014166	.006740
%RSD	.2133840	.2586944	.3180095	.4688305	.5625434	.4433748	.4061625

#1	7.322214	44.64692	.2576882	.0107320	2.620050	.3178988	1.665255
#2	7.301373	44.41795	.2592102	.0106417	2.648828	.3200162	1.652048
#3	7.331940	44.55498	.2589895	.0107246	2.640665	.3205878	1.660988

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.90753	.1555091	.0052800	.0739703	3.042918	11.72958	7.082379
Stddev	.03364	.0093015	.0002461	.0008128	.002422	.04835	.013683
%RSD	.2606456	5.981301	4.661024	1.098832	.0795903	.4122122	.1931991

#1	12.87202	.1485422	.0050530	.0748184	3.044507	11.67378	7.087302
#2	12.93892	.1660717	.0055416	.0731981	3.040131	11.75898	7.066916
#3	12.91166	.1519134	.0052453	.0738942	3.044117	11.75599	7.092920

Sample Name: Q2831-01 Acquired: 8/13/2025 14:07:58 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.757684	.2486897	-.132920
Stddev	.044599	.0011034	.001025
%RSD	.5748951	.4436814	.7711807

#1	7.706414	.2483096	-.131963
#2	7.787511	.2478265	-.134002
#3	7.779126	.2499329	-.132795

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6320.222	111627.8	13570.13	4762.696	6503.062
Stddev	13.159	29.7	59.74	6.222	11.252
%RSD	.2082032	.0266202	.4402398	.1306349	.1730257

#1	6327.456	111641.2	13526.41	4769.809	6511.421
#2	6328.177	111593.7	13638.20	4760.011	6507.496
#3	6305.033	111648.5	13545.78	4758.267	6490.269

Sample Name: Q2818-01 Acquired: 8/13/2025 14:11:59 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2462969	-.069644	.3354100	.0130213	-.018397	112.4632
Stddev	.0012952	.003752	.0013166	.0048755	.000980	.2340
%RSD	.5258676	5.387055	.3925382	37.44268	5.327224	.2080750

#1	.2449346	-.067971	.3359474	.0186501	-.017518	112.5226
#2	.2464436	-.067019	.3339097	.0102981	-.018220	112.6618
#3	.2475125	-.073941	.3363729	.0101158	-.019454	112.2053

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8276041	.0201980	.0267863	35.14157	1.105311	.0887568
Stddev	.0039778	.0000887	.0003532	.10878	.004022	.0002024
%RSD	.4806467	.4393552	1.318600	.3095544	.3639050	.2279821

#1	.8265402	.0201625	.0271701	35.13530	1.103455	.0889904
#2	.8320057	.0202990	.0264749	35.25336	1.109926	.0886411
#3	.8242664	.0201326	.0267140	35.03606	1.102551	.0886389

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5169805	540.4245	2.067864	12.72622	.1702107	.0153687
Stddev	.0014479	1.1601	.010081	.07795	.0007809	.0013469
%RSD	.2800703	.2146682	.4875018	.6125339	.4587622	8.763910

#1	.5172343	539.9670	2.066710	12.76450	.1693470	.0158187
#2	.5154225	539.5629	2.078472	12.77763	.1708666	.0138544
#3	.5182848	541.7437	2.058410	12.63653	.1704185	.0164329

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.627463	1.127048	1.580430	23.04248	^ *****	.0151367
Stddev	.013806	.004197	.003761	.14557	----	.0003061
%RSD	.5254600	.3724033	.2379777	.6317488	----	2.022111

#1	2.615976	1.129014	1.583086	22.95315	^ ----	.0154716
#2	2.642780	1.129901	1.582077	23.21046	^ ----	.0148713
#3	2.623633	1.122229	1.576126	22.96385	^ ----	.0150672

Sample Name: Q2818-01 Acquired: 8/13/2025 14:11:59 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0584856	2.938632	3.014497	F 46.56130	16.56324	.0715998
Stddev	.0018447	.010070	.024435	.18311	.10076	.0004075
%RSD	3.154063	.3426813	.8105747	.3932588	.6083331	.5691201

#1	.0566042	2.934504	3.008757	46.46829	16.53407	.0711311
#2	.0585614	2.950111	3.041290	46.44336	16.48029	.0718701
#3	.0602912	2.931282	2.993443	46.77224	16.67537	.0717983

Elem	Sr4077
Units	ppm
Avg	-.203737
Stddev	.002307
%RSD	1.132247

#1	-.203987
#2	-.201316
#3	-.205909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6505.282	116815.1	14586.43	4966.785	6412.573
Stddev	6.301	286.7	28.92	21.413	2.696
%RSD	.0968644	.2454425	.1982957	.4311184	.0420488

#1	6503.059	116812.9	14567.60	4942.072	6409.605
#2	6512.393	116529.4	14571.96	4979.821	6414.872
#3	6500.393	117102.8	14619.74	4978.461	6413.243

Sample Name: Q2818-02 Acquired: 8/13/2025 14:16:10 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545211	-.069890	.3866487	.0127639	-.017780	108.6222
Stddev	.0016831	.003461	.0014114	.0036067	.001657	.2133
%RSD	.6612892	4.952637	.3650320	28.25681	9.320586	.1963731

#1	.2553146	-.073679	.3851463	.0140571	-.019657	108.4475
#2	.2556607	-.066894	.3868531	.0086890	-.016516	108.8599
#3	.2525879	-.069096	.3879468	.0155457	-.017168	108.5592

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7594194	.0201688	.0271667	32.80926	1.098975	.0855620
Stddev	.0033874	.0001196	.0006660	.08813	.001460	.0000602
%RSD	.4460551	.5927880	2.451716	.2686042	.1328341	.0703293

#1	.7557895	.0200884	.0264044	32.71273	1.100395	.0855333
#2	.7624963	.0203062	.0276359	32.88541	1.099053	.0856311
#3	.7599725	.0201118	.0274599	32.82965	1.097478	.0855215

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4744454	534.4423	1.931949	11.77155	.1668473	.0150368
Stddev	.0022762	3.1452	.009811	.02410	.0001242	.0013096
%RSD	.4797657	.5885101	.5078149	.2047647	.0744245	8.708974

#1	.4722957	536.7234	1.921135	11.74549	.1669135	.0153019
#2	.4768300	530.8543	1.940279	11.77610	.1669242	.0136151
#3	.4742105	535.7491	1.934433	11.79305	.1667040	.0161936

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.452424	1.133393	1.477880	21.72002	^ *****	.0141732
Stddev	.004034	.005879	.004034	.03342	----	.0001423
%RSD	.1645005	.5186950	.2729910	.1538895	----	1.004391

#1	2.456539	1.129117	1.481070	21.68251	^ ----	.0140227
#2	2.448476	1.140097	1.479226	21.74666	^ ----	.0141912
#3	2.452256	1.130965	1.473345	21.73087	^ ----	.0143057

Sample Name: Q2818-02 Acquired: 8/13/2025 14:16:10 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0578646	2.805185	3.128855	F 44.96693	14.47537	.0694440
Stddev	.0006240	.009307	.023205	.06087	.10163	.0007622
%RSD	1.078428	.3317661	.7416472	.1353728	.7020610	1.097547

#1	.0572046	2.797529	3.155627	44.90487	14.36199	.0702671
#2	.0579440	2.815544	3.116429	45.02654	14.50585	.0687626
#3	.0584451	2.802483	3.114510	44.96938	14.55826	.0693022

Elem	Sr4077
Units	ppm
Avg	-.224434
Stddev	.004153
%RSD	1.850307

#1	-.227936
#2	-.219846
#3	-.225521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6436.522	116239.7	14489.29	4933.282	6323.225
Stddev	9.761	77.4	57.37	12.272	10.112
%RSD	.1516498	.0666187	.3959303	.2487548	.1599176

#1	6443.927	116314.2	14530.81	4919.397	6330.209
#2	6440.177	116245.2	14423.83	4937.773	6327.836
#3	6425.461	116159.7	14513.23	4942.676	6311.629

Sample Name: Q2823-01 Acquired: 8/13/2025 14:20:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595789	-.019709	.6776581	.0015832	-.010210	79.00177	.7523120
Stddev	.0034710	.001638	.0010042	.0019171	.000188	.08725	.0019272
%RSD	5.825966	8.312127	.1481942	121.0878	1.845286	.1104444	.2561695

#1	.0632265	-.018900	.6786612	.0033229	-.010356	79.07834	.7541088
#2	.0591935	-.018632	.6766527	-.000472	-.009997	78.90677	.7525504
#3	.0563166	-.021594	.6776602	.001899	-.010276	79.02019	.7502766

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071076	.0087216	39.35586	.2045438	.0829697	.2532587	208.5730
Stddev	.0001596	.0002049	.07032	.0009577	.0005058	.0008350	.6916
%RSD	2.245017	2.348884	.1786734	.4682113	.6095739	.3297056	.3315707

#1	.0072905	.0088676	39.43584	.2040452	.0824443	.2528842	208.2867
#2	.0070354	.0084874	39.32795	.2056479	.0830114	.2526764	209.3618
#3	.0069969	.0088099	39.30377	.2039382	.0834533	.2542154	208.0706

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.078888	31.45919	.1655363	.0060345	4.077726	.2871253	.6014302
Stddev	.007116	.06920	.0005944	.0008514	.040903	.0008044	.0012764
%RSD	.2311380	.2199715	.3590567	14.10940	1.003078	.2801656	.2122278

#1	3.086641	31.53791	.1660194	.0063611	4.057113	.2874946	.6012849
#2	3.077368	31.43171	.1648725	.0066744	4.124834	.2876787	.6002326
#3	3.072654	31.40795	.1657169	.0050682	4.051231	.2862025	.6027730

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.947202	.0832210	.0074125	.0262555	2.867014	1.927358	3.548915
Stddev	.038130	.0017401	.0001892	.0001883	.002132	.006536	.003031
%RSD	.4797947	2.090957	2.552212	.7173225	.0743457	.3391339	.0853944

#1	7.929443	.0827836	.0075810	.0264117	2.868529	1.920358	3.549962
#2	7.990973	.0851380	.0074488	.0263084	2.864577	1.933302	3.545500
#3	7.921191	.0817413	.0072079	.0260463	2.867938	1.928414	3.551283

Sample Name: Q2823-01 Acquired: 8/13/2025 14:20:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.176423	.1429790	-.052955
Stddev	.005012	.0009951	.000635
%RSD	.2302675	.6959702	1.198276

#1	2.182205	.1440108	-.052615
#2	2.173326	.1420252	-.053687
#3	2.173737	.1429009	-.052562

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6096.054	109663.4	13198.58	4675.450	6669.800
Stddev	15.783	115.6	45.71	6.149	15.250
%RSD	.2589088	.1053905	.3463608	.1315232	.2286411

#1	6108.999	109642.7	13155.17	4668.473	6681.476
#2	6100.691	109559.7	13246.29	4677.796	6675.378
#3	6078.471	109788.0	13194.28	4680.081	6652.547

Sample Name: Q2831-03 Acquired: 8/13/2025 14:24:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001782	.0022204	.0072347	.0057846	-.000345	.2128086	.2527329
Stddev	.001345	.0018925	.0013501	.0020184	.001414	.0027700	.0016029
%RSD	75.48122	85.23361	18.66155	34.89236	410.2523	1.301650	.6342331

#1	-.000765	.0042956	.0075343	.0059234	.001027	.2155533	.2535139
#2	-.003307	.0017760	.0084098	.0077301	-.001796	.2128587	.2508892
#3	-.001274	.0005897	.0057599	.0037004	-.000265	.2100139	.2537956

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000979	.0009984	18.27654	.0001951	.0007236	.0133758	.0766454
Stddev	.0000255	.0000861	.02150	.0002028	.0001225	.0002703	.0055073
%RSD	26.09615	8.620233	.1176456	103.9375	16.92504	2.020487	7.185439

#1	.0000888	.0010729	18.29203	-.000013	.0006898	.0134573	.0800146
#2	.0001267	.0010182	18.25199	.000392	.0006216	.0130742	.0796315
#3	.0000781	.0009042	18.28560	.000206	.0008594	.0135959	.0702899

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4360914	5.240611	.0046601	.0002476	346.6346	.0004213	.4801889
Stddev	.0001023	.028827	.0004023	.0001374	4.4560	.0023461	.0003268
%RSD	.0234688	.5500614	8.633362	55.48468	1.285492	556.8789	.0680459

#1	.4359813	5.214469	.0050681	.0003150	347.2159	-.002265	.4800080
#2	.4361837	5.271526	.0046484	.0000895	350.7714	.001462	.4805661
#3	.4361091	5.235838	.0042637	.0003382	341.9165	.002067	.4799926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.283750	.0615317	-.000045	.0126468	-.000006	1.012198	.0363648
Stddev	.029012	.0002360	.000100	.0009100	.000794	.011543	.0018684
%RSD	2.259923	.3836309	223.5305	7.195346	12531.79	1.140378	5.137891

#1	1.252012	.0617605	-.000143	.0133302	-.000835	1.000759	.0373706
#2	1.308903	.0612890	.000057	.0116139	.000068	1.023842	.0342090
#3	1.290334	.0615455	-.000048	.0129963	.000748	1.011991	.0375149

Sample Name: Q2831-03 Acquired: 8/13/2025 14:24:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.475763	-.011109	.0848972
Stddev	.020844	.000913	.0001657
%RSD	.8419229	8.215181	.1951584

#1	2.499631	-.010942	.0849354
#2	2.461143	-.010291	.0847158
#3	2.466515	-.012094	.0850406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5385.989	94690.45	11623.75	4075.253	6446.534
Stddev	4.937	253.82	57.76	10.361	4.117
%RSD	.0916672	.2680559	.4969014	.2542410	.0638679

#1	5390.458	94887.34	11557.40	4081.787	6446.719
#2	5386.819	94403.99	11662.82	4063.306	6450.557
#3	5380.689	94780.03	11651.02	4080.665	6442.328

Sample Name: Q2831-03DUP Acquired: 8/13/2025 14:28:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003354	.0014374	.0034986	.0042349	.0005220	.1115003	.1365477
Stddev	.000283	.0009253	.0011448	.0008564	.0013241	.0033446	.0010934
%RSD	8.424692	64.37288	32.72062	20.22219	253.6791	2.999625	.8007627

#1	-.003031	.0020996	.0047531	.0032468	.0011585	.1123039	.1361672
#2	-.003473	.0018325	.0032321	.0047640	.0014076	.1078271	.1377805
#3	-.003557	.0003802	.0025106	.0046938	-.001000	.1143698	.1356954

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000020	.0004604	10.20916	-.000284	.0000906	.0075155	.0398376
Stddev	.000058	.0000458	.02268	.000087	.0000781	.0003572	.0037292
%RSD	295.5362	9.953500	.2221622	30.70127	86.22854	4.753048	9.361138

#1	.000045	.0004936	10.20332	-.000298	.0000717	.0071280	.0441430
#2	-.000069	.0004081	10.23418	-.000364	.0000236	.0075867	.0377548
#3	-.000035	.0004796	10.18996	-.000191	.0001764	.0078317	.0376150

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2470744	2.956949	.0029505	.0001497	189.9947	-.000525	.2629899
Stddev	.0009725	.015717	.0001315	.0002272	.5586	.001145	.0009218
%RSD	.3936256	.5315327	4.457111	151.7977	.2939906	218.1441	.3505160

#1	.2460813	2.939145	.0029633	-.000055	190.6256	-.000821	.2620424
#2	.2471167	2.968900	.0028131	.000394	189.5632	-.001494	.2638837
#3	.2480250	2.962801	.0030752	.000110	189.7952	.000739	.2630436

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6666184	.0327151	.0000563	-.000364	-.000543	.5428755	.0242340
Stddev	.0221596	.0001096	.0000735	.000304	.001098	.0123307	.0026964
%RSD	3.324182	.3351035	130.6769	83.40287	202.2671	2.271361	11.12637

#1	.6918465	.0325885	.0000677	-.000625	-.001644	.5383948	.0212463
#2	.6577061	.0327748	-.000022	-.000031	.000551	.5568200	.0264865
#3	.6503024	.0327818	.000123	-.000436	-.000535	.5334116	.0249691

Sample Name: Q2831-03DUP Acquired: 8/13/2025 14:28:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.343508	-.009309	.0470925
Stddev	.003919	.001076	.0001571
%RSD	.2916972	11.55872	.3336625

#1	1.347467	-.009336	.0470512
#2	1.339631	-.010371	.0472661
#3	1.343427	-.008220	.0469601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.051	97698.65	11644.48	4184.562	6724.039
Stddev	3.895	466.06	34.27	16.117	10.535
%RSD	.0706947	.4770432	.2942668	.3851555	.1566725

#1	5512.259	97160.55	11642.56	4177.265	6734.819
#2	5512.340	97960.96	11611.21	4173.384	6723.532
#3	5505.553	97974.46	11679.66	4203.037	6713.768

Sample Name: CCV03 Acquired: 8/13/2025 14:33:12 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.986424	4.822139	4.858771	5.024045	5.017082	9.649308	9.671877
Stddev	.003959	.085199	.007191	.017583	.010405	.020193	.045147
%RSD	.0793983	1.766839	.1480049	.3499746	.2073991	.2092710	.4667852

#1	4.990412	4.914749	4.851550	5.029091	5.009077	9.640154	9.679255
#2	4.982494	4.747085	4.858832	5.004491	5.013324	9.672457	9.712880
#3	4.986365	4.804581	4.865932	5.038553	5.028844	9.635314	9.623495

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2382256	2.432166	24.13075	.9926120	2.431683	1.239833	5.013994
Stddev	.0018072	.002384	.04250	.0020740	.003451	.001124	.046923
%RSD	.7585863	.0980048	.1761411	.2089462	.1419019	.0906852	.9358501

#1	.2401196	2.431048	24.17977	.9908566	2.428915	1.240269	4.971475
#2	.2380372	2.430546	24.10842	.9920788	2.430586	1.238556	5.006168
#3	.2365201	2.434903	24.10406	.9949005	2.435549	1.240675	5.064338

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.389669	23.92152	2.442080	1.238723	23.27223	2.445371	2.483963
Stddev	.008551	.01033	.003269	.002431	.13607	.007631	.008131
%RSD	.3578296	.0431736	.1338689	.1962353	.5846781	.3120772	.3273534

#1	2.397991	23.92854	2.441360	1.237511	23.13046	2.448595	2.491076
#2	2.390109	23.92636	2.439231	1.237136	23.28446	2.450861	2.485714
#3	2.380906	23.90966	2.445649	1.241521	23.40177	2.436657	2.475099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.67334	4.759229	5.020476	4.883955	4.832826	5.100712	4.779387
Stddev	.16418	.037341	.006420	.010498	.003462	.038615	.011436
%RSD	.6654027	.7846068	.1278746	.2149406	.0716289	.7570491	.2392803

#1	24.48716	4.796477	5.021408	4.892453	4.829107	5.059807	4.778083
#2	24.73554	4.759413	5.013642	4.872220	4.833417	5.105796	4.768659
#3	24.79734	4.721796	5.026380	4.887192	4.835954	5.136533	4.791419

Sample Name: CCV03 Acquired: 8/13/2025 14:33:12 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.787702	4.582997	4.827607
Stddev	.033485	.005874	.012223
%RSD	.6993966	.1281670	.2531995

#1	4.808043	4.579106	4.829398
#2	4.749054	4.589754	4.838837
#3	4.806008	4.580131	4.814587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5574.767	98989.92	11516.30	4230.194	6730.322
Stddev	3.921	397.78	60.67	5.893	7.412
%RSD	.0703324	.4018375	.5268301	.1393006	.1101267

#1	5573.760	99432.30	11463.50	4224.832	6729.355
#2	5579.094	98875.74	11502.83	4229.246	6738.170
#3	5571.448	98661.72	11582.57	4236.503	6723.441

Sample Name: CCB03 Acquired: 8/13/2025 14:37:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013043	-.000444	-.000035	.0014647	-.000561	-.013096	-.007571
Stddev	.0010760	.000922	.000585	.0012494	.000295	.002866	.000470
%RSD	82.49632	207.4499	1672.267	85.29743	52.54865	21.88644	6.204061

#1	.0000706	.000239	.000442	.0020247	-.000875	-.012492	-.007045
#2	.0020486	-.001493	-.000688	.0023362	-.000291	-.010581	-.007949
#3	.0017939	-.000079	.000140	.0000333	-.000517	-.016217	-.007719

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000034	-.000120	-.010327	.0001169	-.000137	.0004249	-.007554
Stddev	.0000183	.000021	.005361	.0002231	.000052	.0002892	.002689
%RSD	541.4829	17.32571	51.91306	190.8846	38.10200	68.06249	35.60151

#1	.0000243	-.000125	-.010753	.0001450	-.000078	.0007587	-.006192
#2	-.000004	-.000138	-.015462	.0003246	-.000175	.0002634	-.005818
#3	-.000010	-.000097	-.004765	-.000119	-.000159	.0002525	-.010651

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000657	-.023313	-.000155	.0007437	.1904242	.0000452	-.000538
Stddev	.000429	.009521	.000080	.0004234	.0047336	.0020678	.000099
%RSD	65.34766	40.83963	51.30466	56.92453	2.485802	4578.159	18.42797

#1	-.000597	-.016827	-.000124	.0002873	.1873210	.0021762	-.000624
#2	-.001113	-.018867	-.000246	.0011237	.1880790	-.001953	-.000430
#3	-.000261	-.034243	-.000096	.0008202	.1958725	-.000088	-.000561

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2739713	.0035535	.0000632	-.000024	-.000684	.0102449	.0004323
Stddev	.0411817	.0004324	.0001732	.000330	.000986	.0066173	.0012958
%RSD	15.03137	12.16744	274.1544	1388.755	144.2009	64.59191	299.7441

#1	.2747650	.0032845	.0001078	-.000324	-.001277	.0150189	.0003350
#2	.3147504	.0033237	-.000128	-.000077	.000455	.0130246	.0017740
#3	.2323986	.0040522	.000210	.000329	-.001230	.0026911	-.000812

Sample Name: CCB03 Acquired: 8/13/2025 14:37:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001712	.0016517	-.000300
Stddev	.0001214	.0005783	.000041
%RSD	70.91110	35.01581	13.72156

#1	.0000660	.0023193	-.000345
#2	.0003040	.0013039	-.000293
#3	.0001435	.0013318	-.000263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5808.967	103706.5	11557.20	4391.536	7615.299
Stddev	13.586	22.7	49.75	20.429	14.576
%RSD	.2338870	.0219044	.4304791	.4652011	.1914060

#1	5810.487	103729.6	11515.66	4369.999	7611.062
#2	5821.730	103705.7	11543.61	4410.640	7631.524
#3	5794.685	103684.1	11612.34	4393.970	7603.310

Sample Name: Q2831-03LX5 Acquired: 8/13/2025 14:41:43 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000224	.0008080	.0007574	.0013239	-.000649	.0318481	.0454297
Stddev	.000812	.0002989	.0003265	.0019765	.001485	.0010529	.0008129
%RSD	362.5866	36.99664	43.11248	149.2915	228.7796	3.306092	1.789435

#1	-.001148	.0011313	.0009554	-.000886	-.001682	.0322999	.0462405
#2	.000100	.0007510	.0003805	.001933	-.001318	.0325996	.0446146
#3	.000376	.0005416	.0009362	.002924	.001053	.0306446	.0454341

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000047	.0000973	3.744385	.0000387	.0000530	.0024554	.0085002
Stddev	.0000088	.0000408	.011643	.0000553	.0000989	.0001339	.0007300
%RSD	189.2416	41.95617	.3109418	143.1035	186.5810	5.452624	8.588246

#1	-.000004	.0000666	3.757727	.0000986	.0000058	.0023697	.0085723
#2	.000013	.0001436	3.739145	.0000279	-.000013	.0023868	.0077368
#3	.000005	.0000817	3.736283	-.000010	.000167	.0026097	.0091915

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0880318	1.067370	.0005679	.0002273	65.56280	.0001943	.0933207
Stddev	.0002132	.007704	.0000554	.0003818	.53608	.0014219	.0006836
%RSD	.2421539	.7217580	9.747564	167.9915	.8176580	731.7425	.7324795

#1	.0882504	1.066151	.0006241	.0002473	65.17578	.0005096	.0928510
#2	.0878245	1.060348	.0005134	-.000164	66.17469	-.001359	.0941049
#3	.0880206	1.075610	.0005663	.000599	65.33794	.001432	.0930062

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3965807	.0144797	-.000184	.0026916	-.000028	.2001550	.0066870
Stddev	.0160923	.0005667	.000141	.0001849	.001149	.0095789	.0022604
%RSD	4.057775	3.913686	76.91514	6.869458	4079.186	4.785760	33.80202

#1	.3871823	.0143500	-.000126	.0027694	.001112	.2107249	.0040900
#2	.4151621	.0139891	-.000080	.0024805	-.001187	.1920481	.0082107
#3	.3873976	.0151000	-.000345	.0028250	-.000009	.1976919	.0077605

Sample Name: Q2831-03LX5 Acquired: 8/13/2025 14:41:43 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4870356	.0004293	.0170986
Stddev	.0016418	.0011333	.0000646
%RSD	.3371069	264.0082	.3778988

#1	.4886342	.0017373	.0170310
#2	.4853537	-.000192	.0171597
#3	.4871187	-.000257	.0171052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5585.186	100202.2	11652.56	4255.730	6912.357
Stddev	1.550	72.2	89.21	18.708	5.359
%RSD	.0277572	.0721033	.7655904	.4395848	.0775208

#1	5585.117	100261.2	11574.69	4275.163	6906.259
#2	5586.770	100121.6	11749.90	4237.844	6916.315
#3	5583.672	100223.8	11633.10	4254.183	6914.497

Sample Name: Q2831-03MS Acquired: 8/13/2025 14:46:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8458270	1.737286	.9652560	2.107903	.8443818	2.148898	.3826328
Stddev	.0032919	.055051	.0019581	.005155	.0007695	.011355	.0004337
%RSD	.3891977	3.168775	.2028598	.2445769	.0911301	.5284083	.1133377

#1	.8420374	1.792371	.9674898	2.110184	.8451014	2.159785	.3821437
#2	.8479788	1.737216	.9638363	2.111525	.8435706	2.137127	.3829703
#3	.8474648	1.682270	.9644419	2.102001	.8444732	2.149782	.3827843

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1909194	.2022705	14.48074	.4198337	.2044384	.3160573	3.317671
Stddev	.0006541	.0005574	.03179	.0017132	.0006591	.0005505	.022368
%RSD	.3425861	.2755808	.2195316	.4080718	.3224065	.1741778	.6742153

#1	.1906266	.2027879	14.50251	.4184322	.2051783	.3160583	3.327126
#2	.1904629	.2016802	14.44426	.4193253	.2039140	.3155063	3.333758
#3	.1916687	.2023436	14.49546	.4217436	.2042230	.3166073	3.292127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5195057	5.857036	.5152142	.0776577	257.9875	.3094912	.5653778
Stddev	.0007524	.036244	.0015212	.0004349	2.0905	.0026752	.0021538
%RSD	.1448350	.6188112	.2952615	.5600181	.8103231	.8643875	.3809552

#1	.5199643	5.825510	.5162708	.0781599	259.7102	.3074428	.5641219
#2	.5199155	5.896636	.5134706	.0774043	255.6617	.3125178	.5678648
#3	.5186373	5.848962	.5159011	.0774089	258.5907	.3085129	.5641467

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.81714	.3078938	.4365804	.7112207	.2010500	1.682962	5.963440
Stddev	.05405	.0015414	.0007741	.0016633	.0003920	.007348	.047251
%RSD	.4573821	.5006193	.1773155	.2338691	.1949985	.4366399	.7923422

#1	11.75549	.3075952	.4370464	.7127760	.2013333	1.685239	6.017025
#2	11.85636	.3065235	.4356868	.7094671	.2012142	1.674745	5.945545
#3	11.83957	.3095626	.4370079	.7114188	.2006026	1.688903	5.927751

Sample Name: Q2831-03MS Acquired: 8/13/2025 14:46:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.831955	.1880088	.2552432
Stddev	.004998	.0007590	.0000944
%RSD	.2728126	.4037142	.0369676

#1	1.835144	.1885904	.2553116
#2	1.834526	.1871502	.2551356
#3	1.826195	.1882857	.2552825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5439.391	97001.11	11758.90	4135.885	6517.757
Stddev	8.286	426.72	49.67	13.807	13.219
%RSD	.1523291	.4399137	.4224153	.3338441	.2028180

#1	5429.842	97463.44	11784.21	4151.551	6505.464
#2	5443.642	96917.51	11790.81	4130.611	6531.740
#3	5444.688	96622.38	11701.67	4125.491	6516.068

Sample Name: Q2831-03MSD Acquired: 8/13/2025 14:50:08 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8248648	1.750507	.9362422	2.071232	.8250552	2.146683	.4082486
Stddev	.0033446	.018036	.0017761	.009606	.0010754	.016818	.0020494
%RSD	.4054669	1.030313	.1897025	.4637894	.1303381	.7834435	.5019883

#1	.8263015	1.768061	.9345192	2.082132	.8241325	2.151418	.4096091
#2	.8210419	1.732026	.9380670	2.064003	.8247969	2.160626	.4058915
#3	.8272509	1.751433	.9361406	2.067560	.8262362	2.128005	.4092451

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864374	.1978592	16.49128	.4134135	.1997713	.3086908	3.292396
Stddev	.0015550	.0004035	.00567	.0014333	.0001766	.0006836	.027436
%RSD	.8340785	.2039125	.0343917	.3467045	.0884234	.2214542	.8333133

#1	.1881190	.1980268	16.48739	.4137637	.1996369	.3082781	3.262573
#2	.1861416	.1973989	16.48867	.4118375	.1997055	.3094799	3.298051
#3	.1850514	.1981519	16.49779	.4146392	.1999714	.3083144	3.316563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5638115	6.376995	.5031403	.0762612	299.6543	.3025380	.6117689
Stddev	.0036059	.039751	.0005890	.0003046	4.3223	.0038459	.0018888
%RSD	.6395530	.6233514	.1170613	.3994313	1.442421	1.271200	.3087506

#1	.5651357	6.342419	.5026829	.0759154	294.6635	.3018415	.6129626
#2	.5597308	6.420427	.5029330	.0764897	302.1703	.3066846	.6127529
#3	.5665681	6.368138	.5038049	.0763785	302.1293	.2990880	.6095912

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87250	.3056645	.4329779	.6947003	.1979171	1.791201	5.774218
Stddev	.13244	.0025377	.0006989	.0005534	.0006869	.020793	.008269
%RSD	1.115480	.8302192	.1614189	.0796592	.3470739	1.160863	.1432019

#1	11.74365	.3085916	.4337263	.6947725	.1977898	1.767312	5.777394
#2	11.86559	.3043194	.4323421	.6941144	.1973027	1.801060	5.764832
#3	12.00825	.3040825	.4328652	.6952141	.1986588	1.805231	5.780427

Sample Name: Q2831-03MSD Acquired: 8/13/2025 14:50:08 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.043275	.1853131	.2619561
Stddev	.006391	.0008483	.0012361
%RSD	.3127669	.4577749	.4718664

#1	2.047637	.1849999	.2622989
#2	2.035939	.1846659	.2605848
#3	2.046250	.1862735	.2629846

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5412.546	95621.60	11643.53	4093.967	6490.141
Stddev	5.226	213.61	87.78	14.727	6.093
%RSD	.0965558	.2233897	.7539105	.3597244	.0938754

#1	5411.979	95831.57	11557.82	4098.980	6491.923
#2	5407.627	95404.52	11639.54	4077.388	6483.357
#3	5418.032	95628.70	11733.25	4105.532	6495.145

Sample Name: Q2831-03A Acquired: 8/13/2025 14:54:16 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8161852	1.719967	.9271782	2.051999	.8218899	2.112069	.4152201
Stddev	.0025675	.051805	.0016566	.006699	.0029110	.013334	.0011182
%RSD	.3145669	3.011978	.1786717	.3264794	.3541796	.6313132	.2693077

#1	.8133408	1.661563	.9290787	2.047123	.8245381	2.114963	.4163468
#2	.8183312	1.737965	.9264162	2.049236	.8187730	2.123719	.4141106
#3	.8168838	1.760372	.9260397	2.059638	.8223585	2.097526	.4152031

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1823069	.1958270	17.37746	.4037123	.1970383	.3050489	3.259105
Stddev	.0014486	.0001843	.03862	.0003254	.0002935	.0003343	.021954
%RSD	.7945675	.0941342	.2222462	.0805935	.1489609	.1096017	.6736165

#1	.1823624	.1956581	17.42196	.4036041	.1968462	.3051724	3.261160
#2	.1808314	.1957992	17.35258	.4040780	.1968926	.3046704	3.279959
#3	.1837269	.1960236	17.35786	.4034549	.1973762	.3053040	3.236196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5818434	6.601214	.4985090	.0749881	315.4277	.2977980	.6383998
Stddev	.0018705	.047845	.0001743	.0004465	2.4947	.0015731	.0014964
%RSD	.3214869	.7247877	.0349711	.5953886	.7908790	.5282555	.2344010

#1	.5838508	6.610990	.4983779	.0748782	313.5838	.2996047	.6395410
#2	.5801493	6.549237	.4987068	.0754792	318.2663	.2970575	.6367055
#3	.5815301	6.643416	.4984423	.0746068	314.4331	.2967318	.6389528

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.90156	.3035321	.4269753	.7003077	.1937429	1.872723	5.769628
Stddev	.08156	.0031720	.0007963	.0021545	.0006656	.012466	.014138
%RSD	.6852792	1.045028	.1865055	.3076533	.3435298	.6656707	.2450370

#1	11.93287	.3038839	.4269369	.6982305	.1936932	1.864609	5.757904
#2	11.96281	.3001988	.4261989	.7025320	.1931036	1.887077	5.785328
#3	11.80898	.3065135	.4277901	.7001606	.1944320	1.866484	5.765653

Sample Name: Q2831-03A Acquired: 8/13/2025 14:54:16 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.199047	.1836694	.2632172
Stddev	.016043	.0014938	.0005194
%RSD	.7295647	.8133028	.1973294

#1	2.183032	.1846845	.2633951
#2	2.198991	.1843696	.2636242
#3	2.215119	.1819542	.2626322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5378.167	95313.66	11712.23	4072.355	6425.140
Stddev	7.429	216.53	61.11	22.964	8.912
%RSD	.1381366	.2271780	.5217566	.5639076	.1387091

#1	5375.971	95335.45	11711.70	4076.893	6418.966
#2	5386.447	95087.05	11773.60	4047.461	6435.357
#3	5372.084	95518.47	11651.39	4092.712	6421.097

Sample Name: PB169214BL Acquired: 8/13/2025 14:58:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010235	-.001369	-.000749	.0004666	-.001921	-.017821
Stddev	.0016576	.000870	.001029	.0018969	.001751	.008505
%RSD	161.9481	63.52798	137.3356	406.5549	91.13790	47.72294

#1	.0009849	-.000381	-.001178	-.001717	-.001667	-.008046
#2	.0027000	-.001705	-.001494	.001709	-.000311	-.021890
#3	-.000614	-.002020	.000425	.001407	-.003785	-.023527

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006645	-.000032	-.000155	-.010913	.0002165	-.000203
Stddev	.000943	.000014	.000064	.008788	.0001215	.000101
%RSD	14.19433	42.72825	41.49957	80.52361	56.12477	49.86982

#1	-.006678	-.000028	-.000123	-.009754	.0000770	-.000108
#2	-.005685	-.000021	-.000112	-.002763	.0002994	-.000191
#3	-.007571	-.000048	-.000229	-.020223	.0002732	-.000310

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000247	-.003087	-.000551	-.016681	-.000100	.0007818
Stddev	.000437	.005731	.000210	.021290	.000125	.0000986
%RSD	177.3000	185.6381	38.16177	127.6314	125.4901	12.60749

#1	.000257	.000946	-.000792	-.030047	-.000101	.0007171
#2	-.000469	-.009647	-.000402	.007871	.000026	.0008952
#3	-.000528	-.000560	-.000459	-.027867	-.000224	.0007330

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6899983	-.000811	-.000316	.6461554	-.002127	-.000022
Stddev	.0482194	.001431	.000049	.0117819	.000504	.000146
%RSD	6.988336	176.4536	15.60825	1.823382	23.70824	657.4477

#1	.7288618	-.001793	-.000363	.6589839	-.002709	.000128
#2	.7050966	-.001472	-.000265	.6436634	-.001817	-.000032
#3	.6360364	.000831	-.000321	.6358188	-.001854	-.000163

Sample Name: PB169214BL Acquired: 8/13/2025 14:58:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000303	-.000362	.0126520	.0001514	-.000187	F .0167851
Stddev	.000239	.001056	.0168624	.0017202	.001669	.0009989
%RSD	78.93664	291.4126	133.2787	1136.296	892.6703	5.951275

#1	-.000292	.000187	.0320242	-.000502	.001722	.0178294
#2	-.000548	.000306	.0046624	-.001146	-.001373	.0166874
#3	-.000070	-.001580	.0012693	.002103	-.000909	.0158387

Elem	Sr4077
Units	ppm
Avg	-.000385
Stddev	.000022
%RSD	5.690411

#1	-.000392
#2	-.000403
#3	-.000361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5755.226	103286.9	11494.17	4335.281	7536.664
Stddev	12.533	91.4	21.48	17.691	19.896
%RSD	.2177708	.0884516	.1868431	.4080599	.2639897

#1	5743.195	103363.4	11470.19	4353.659	7521.600
#2	5768.207	103185.7	11511.64	4333.814	7559.218
#3	5754.276	103311.5	11500.67	4318.370	7529.176

Sample Name: PB169214BS Acquired: 8/13/2025 15:02:41 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7938186	2.189076	.9560042	2.026724	.8034402	1.975594
Stddev	.0021161	.023292	.0021111	.007024	.0023960	.007247
%RSD	.2665748	1.064003	.2208226	.3465452	.2982235	.3668485

#1	.7938879	2.177530	.9583097	2.022218	.8009094	1.983903
#2	.7958992	2.173812	.9541659	2.023136	.8056737	1.970578
#3	.7916687	2.215885	.9555368	2.034816	.8037376	1.972301

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1889560	.2000878	.1899912	1.011083	.4100973	.1953476
Stddev	.0005085	.0017927	.0002470	.003965	.0009950	.0001890
%RSD	.2691272	.8959469	.1300109	.3921409	.2426386	.0967637

#1	.1887475	.2013838	.1902228	1.007401	.4097026	.1952237
#2	.1885849	.2008377	.1900197	1.015280	.4093602	.1955651
#3	.1895357	.1980420	.1897312	1.010568	.4112291	.1952539

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3102760	3.023575	.2008767	1.981185	.4909465	.0765581
Stddev	.0002951	.051688	.0005262	.019595	.0004238	.0005259
%RSD	.0950965	1.709502	.2619648	.9890339	.0863225	.6869422

#1	.3104296	2.989808	.2002727	1.969465	.4913109	.0761178
#2	.3104626	2.997838	.2011220	1.970283	.4910471	.0764162
#3	.3099358	3.083079	.2012356	2.003805	.4904814	.0771405

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.969037	.3040168	.2082205	9.866256	.2916774	.4093377
Stddev	.021020	.0026288	.0010499	.076192	.0014277	.0004565
%RSD	.7079573	.8647066	.5042331	.7722504	.4894870	.1115208

#1	2.952377	.3013267	.2094113	9.845729	.2913583	.4089553
#2	2.962081	.3065798	.2074280	9.802431	.2932376	.4092147
#3	2.992652	.3041438	.2078222	9.950610	.2904362	.4098431

Sample Name: PB169214BS Acquired: 8/13/2025 15:02:41 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6666399	.1919342	.8958332	5.371450	F -.001421	.2000307
Stddev	.0007908	.0018770	.0019460	.020209	.001956	.0004630
%RSD	.1186221	.9779166	.2172320	.3762335	137.6998	.2314649

#1	.6674579	.1898465	.8941467	5.389964	-.001980	.2005640
#2	.6665823	.1934822	.8953905	5.374494	.000754	.1997321
#3	.6658795	.1924739	.8979625	5.349891	-.003036	.1997958

Elem	Sr4077
Units	ppm
Avg	.1943626
Stddev	.0001925
%RSD	.0990383

#1	.1944057
#2	.1941522
#3	.1945299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5751.688	102143.9	11497.78	4323.500	7336.115
Stddev	10.907	158.0	94.96	4.580	21.047
%RSD	.1896324	.1547224	.8259352	.1059422	.2868955

#1	5742.439	102201.5	11455.24	4326.232	7317.695
#2	5748.910	102265.1	11431.51	4318.212	7331.595
#3	5763.716	101965.1	11606.57	4326.056	7359.054

Sample Name: PB169211BL Acquired: 8/13/2025 15:06:42 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004111	-.000199	-.001120	-.003356	-.000939	-.020048	-.008017
Stddev	.0007195	.000661	.000975	.001254	.000843	.002858	.001327
%RSD	175.0380	332.3926	87.00738	37.36476	89.71201	14.25701	16.55008

#1	-.000324	-.000044	-.002174	-.002179	-.001320	-.018584	-.006525
#2	.000443	-.000924	-.000933	-.004675	.000027	-.018219	-.009064
#3	.001114	.000371	-.000252	-.003215	-.001525	-.023342	-.008461

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000183	-.000076	-.015517	.0000725	-.000194	-.000221	-.007885
Stddev	.0000233	.000047	.008146	.0001255	.000098	.000184	.002626
%RSD	127.5846	60.99397	52.49584	173.1570	50.42397	83.06363	33.30239

#1	-.000001	-.000106	-.006967	.0001875	-.000271	-.000428	-.006194
#2	.000012	-.000023	-.023187	.0000914	-.000226	-.000156	-.006551
#3	.000044	-.000100	-.016396	-.000061	-.000084	-.000078	-.010911

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000367	-.004463	-.000069	.0002437	.1680191	-.000545	-.000495
Stddev	.000595	.015803	.000434	.0004300	.0025115	.002112	.000291
%RSD	161.9412	354.1147	626.6471	176.4375	1.494784	387.6116	58.74022

#1	-.000771	.009089	-.000367	-.000130	.1681156	-.002955	-.000160
#2	.000316	-.000656	-.000269	.000147	.1654607	.000984	-.000649
#3	-.000647	-.021821	.000428	.000714	.1704810	.000336	-.000676

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2929585	-.002242	-.000193	-.000169	.0003801	-.002124	.0002534
Stddev	.0238256	.000233	.000304	.000568	.0008979	.002269	.0022480
%RSD	8.132756	10.39470	157.4197	336.4873	236.2466	106.8311	887.0102

#1	.3100437	-.002024	.000138	.000487	.0013544	-.001325	.0028152
#2	.2657415	-.002214	-.000460	-.000501	.0002000	-.004684	-.000665
#3	.3030903	-.002488	-.000258	-.000492	-.000414	-.000363	-.001390

Sample Name: PB169211BL Acquired: 8/13/2025 15:06:42 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002507	-.001726	-.000380
Stddev	.002432	.001021	.000048
%RSD	97.01249	59.15866	12.57555

#1	.000001	-.001593	-.000348
#2	-.002666	-.002807	-.000435
#3	-.004856	-.000778	-.000357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5798.323	102055.2	11545.26	4324.539	7614.703
Stddev	7.539	466.9	61.26	16.988	8.538
%RSD	.1300236	.4575016	.5305655	.3928282	.1121196

#1	5789.658	101640.4	11504.38	4310.325	7608.147
#2	5801.929	102560.9	11515.70	4343.354	7611.604
#3	5803.383	101964.2	11615.69	4319.939	7624.357

Sample Name: PB169215BL Acquired: 8/13/2025 15:15:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015062	-.000428	-.000812	-.002134	-.001279	-.023435	-.005510
Stddev	.0001711	.000552	.000620	.000704	.001398	.003566	.000870
%RSD	11.36091	129.1807	76.33808	32.99679	109.2534	15.21467	15.78782

#1	.0013103	-.000504	-.001492	-.001385	-.002614	-.020095	-.005545
#2	.0015813	-.000938	-.000666	-.002235	.000174	-.023020	-.004624
#3	.0016269	.000159	-.000278	-.002783	-.001397	-.027190	-.006363

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000047	-.000135	-.015382	.0000405	-.000207	-.000469	-.013124
Stddev	.000058	.000064	.006357	.0002126	.000163	.000147	.001165
%RSD	124.0776	47.38313	41.32737	524.7280	78.42537	31.31782	8.875237

#1	.000009	-.000102	-.021738	.0000395	-.000136	-.000455	-.013966
#2	-.000041	-.000209	-.009023	-.000172	-.000394	-.000622	-.011794
#3	-.000107	-.000095	-.015386	.000254	-.000093	-.000329	-.013610

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000145	.0010432	.0003212	.0004175	.0690850	-.000806	-.000630
Stddev	.000564	.0173742	.0000882	.0000908	.0156023	.001863	.000149
%RSD	390.2070	1665.397	27.45343	21.75538	22.58418	231.1434	23.67576

#1	.000463	.0005179	.0002315	.0005218	.0543786	-.002948	-.000591
#2	-.000652	-.016062	.0003242	.0003559	.0674258	.000088	-.000794
#3	-.000245	.018674	.0004078	.0003747	.0854505	.000442	-.000504

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915622	-.002501	-.000308	-.000352	-.000664	.0001007	.0002412
Stddev	.0137264	.000266	.000173	.000475	.001153	.0030708	.0008293
%RSD	7.165503	10.63528	56.21316	134.8013	173.6091	3048.390	343.7718

#1	.1860739	-.002255	-.000109	-.000887	-.000429	-.000044	.0006213
#2	.1814292	-.002784	-.000424	-.000187	-.001916	.003242	-.000710
#3	.2071836	-.002465	-.000391	.000018	.000353	-.002895	.000812

Sample Name: PB169215BL Acquired: 8/13/2025 15:15:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000445	-.004324	-.000377
Stddev	.000902	.000723	.000033
%RSD	202.4703	16.71955	8.805651

#1	-.000192	-.004431	-.000339
#2	-.001447	-.003553	-.000390
#3	.000303	-.004987	-.000402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5744.394	102711.1	11389.97	4334.163	7539.356
Stddev	11.519	111.5	203.83	12.352	15.660
%RSD	.2005314	.1085839	1.789570	.2849853	.2077039

#1	5731.097	102613.7	11497.06	4322.124	7522.271
#2	5750.756	102832.8	11154.91	4333.561	7553.027
#3	5751.331	102686.7	11517.93	4346.805	7542.769

Sample Name: PB169211BS Acquired: 8/13/2025 15:19:21 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7848174	1.954682	.9478664	1.989791	.8133987	1.961216
Stddev	.0024503	.035435	.0011982	.001370	.0026707	.004952
%RSD	.3122066	1.812850	.1264075	.0688278	.3283425	.2525182

#1	.7837395	1.959969	.9491421	1.991090	.8104130	1.959730
#2	.7830909	1.916899	.9467649	1.989923	.8155600	1.966742
#3	.7876218	1.987176	.9476922	1.988361	.8142233	1.957177

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1853821	.1942511	.1881470	.9979744	.4062653	.1935854
Stddev	.0009630	.0012350	.0003905	.0080823	.0008658	.0003802
%RSD	.5194793	.6357772	.2075344	.8098726	.2131039	.1964173

#1	.1858355	.1929472	.1885978	.9887545	.4068685	.1939572
#2	.1842761	.1944030	.1879177	1.001331	.4066540	.1931972
#3	.1860348	.1954031	.1879253	1.003837	.4052733	.1936016

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3085259	3.018975	.1973862	1.944879	.4873920	.0755795
Stddev	.0002140	.028553	.0008450	.020887	.0003084	.0002915
%RSD	.0693534	.9457873	.4280677	1.073929	.0632701	.3857110

#1	.3086825	3.051796	.1982846	1.941037	.4877408	.0757756
#2	.3082821	3.005280	.1966075	1.967421	.4871558	.0757185
#3	.3086132	2.999849	.1972664	1.926181	.4872792	.0752445

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.751885	.2998950	.2065639	9.713072	.2837502	.4137481
Stddev	.013668	.0020729	.0003828	.051070	.0016970	.0007590
%RSD	.4966925	.6911981	.1853020	.5257830	.5980526	.1834400

#1	2.767391	.2975351	.2063815	9.770009	.2828754	.4143840
#2	2.746679	.3014212	.2063065	9.697895	.2826690	.4129078
#3	2.741584	.3007286	.2070038	9.671310	.2857060	.4139524

Sample Name: PB169211BS Acquired: 8/13/2025 15:19:21 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6712240	.1938734	.9436818	5.420376	F .0001134	.1906200
Stddev	.0022518	.0016192	.0098181	.006628	.0005296	.0005905
%RSD	.3354744	.8351992	1.040398	.1222854	467.1833	.3097584

#1	.6734125	.1922009	.9510521	5.426410	.0004135	.1901507
#2	.6689139	.1954336	.9474568	5.413281	-.000498	.1912830
#3	.6713454	.1939856	.9325366	5.421438	.000425	.1904264

Elem	Sr4077
Units	ppm
Avg	.1907465
Stddev	.0004953
%RSD	.2596457

#1	.1912985
#2	.1906001
#3	.1903409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5760.607	102514.7	11697.02	4335.838	7356.311
Stddev	7.859	331.6	37.82	32.091	11.319
%RSD	.1364212	.3234640	.3233563	.7401422	.1538715

#1	5753.008	102132.5	11736.44	4300.527	7343.296
#2	5760.110	102686.2	11693.59	4363.225	7363.864
#3	5768.702	102725.5	11661.02	4343.761	7361.772

Sample Name: CCV04 Acquired: 8/13/2025 15:23:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.006582	4.764937	4.861840	5.066387	5.057073	9.759803	9.663803
Stddev	.008391	.079538	.005222	.007827	.008178	.026934	.120905
%RSD	.1676081	1.669233	.1074077	.1544924	.1617067	.2759644	1.251114

#1	4.998108	4.796499	4.865970	5.060269	5.051677	9.764857	9.693351
#2	5.006752	4.823850	4.855970	5.063684	5.053061	9.730700	9.530863
#3	5.014888	4.674462	4.863579	5.075207	5.066482	9.783851	9.767196

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2390305	2.429669	24.30502	.9910053	2.431002	1.242334	4.996794
Stddev	.0013599	.001403	.02608	.0002695	.001309	.001685	.041713
%RSD	.5689187	.0577432	.1073167	.0271950	.0538314	.1356615	.8348001

#1	.2388577	2.430933	24.31981	.9913162	2.431519	1.240533	4.994554
#2	.2377653	2.429915	24.27491	.9908622	2.431973	1.243873	5.039583
#3	.2404685	2.428160	24.32035	.9908375	2.429514	1.242595	4.956246

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.394636	24.17056	2.443000	1.242925	23.74288	2.466601	2.504263
Stddev	.001663	.01215	.001712	.001103	.12195	.004611	.004576
%RSD	.0694360	.0502537	.0700656	.0887644	.5136294	.1869500	.1827204

#1	2.395846	24.18294	2.443771	1.243739	23.69289	2.471856	2.509547
#2	2.395321	24.15866	2.444191	1.241670	23.88188	2.463230	2.501620
#3	2.392740	24.17007	2.441039	1.243367	23.65387	2.464716	2.501623

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.65721	4.784846	5.044223	4.871666	4.871899	5.099103	4.769733
Stddev	.12776	.025705	.005817	.006420	.005393	.016541	.000592
%RSD	.5181358	.5372075	.1153114	.1317765	.1107047	.3243961	.0124219

#1	24.56000	4.785157	5.038909	4.875508	4.874707	5.080005	4.769991
#2	24.80191	4.758987	5.043322	4.875234	4.865681	5.108392	4.769055
#3	24.60971	4.810393	5.050437	4.864255	4.875310	5.108911	4.770153

Sample Name: CCV04 Acquired: 8/13/2025 15:23:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.797300	4.605971	4.852389
Stddev	.012976	.011410	.053692
%RSD	.2704760	.2477323	1.106515

#1	4.794412	4.592854	4.899625
#2	4.811476	4.611453	4.793994
#3	4.786011	4.613606	4.863549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5545.487	99200.59	11507.41	4182.301	6713.448
Stddev	8.693	130.22	68.47	19.057	6.975
%RSD	.1567527	.1312741	.5950074	.4556596	.1038959

#1	5555.224	99051.88	11472.81	4160.894	6716.892
#2	5542.728	99294.28	11586.28	4197.417	6705.420
#3	5538.508	99255.60	11463.14	4188.593	6718.030

Sample Name: CCB04 Acquired: 8/13/2025 15:27:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006266	-.000228	-.000818	-.001163	-.001750	-.015706	-.008146
Stddev	.0011529	.000821	.001139	.000186	.001919	.007660	.001159
%RSD	183.9847	360.0616	139.3426	15.99170	109.6717	48.77059	14.22457

#1	.0019305	-.000954	-.001659	-.001325	-.003960	-.022755	-.008678
#2	-.000258	-.000392	.000479	-.001204	-.000771	-.016810	-.008944
#3	.000208	.000662	-.001273	-.000960	-.000518	-.007554	-.006817

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000045	-.000098	-.012792	.0002817	-.000097	-.000294	-.005749
Stddev	.000032	.000042	.010021	.0000558	.000108	.000057	.002936
%RSD	70.34791	42.49146	78.33554	19.80702	111.6106	19.42404	51.06848

#1	-.000015	-.000140	-.024356	.0003404	-.000175	-.000357	-.008842
#2	-.000042	-.000057	-.006663	.0002755	-.000141	-.000246	-.003000
#3	-.000078	-.000096	-.007358	.0002293	.000026	-.000278	-.005405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000646	.0021441	.0002269	.0004995	.0345725	-.000698	.0002276
Stddev	.000229	.0139189	.0000453	.0004575	.0111349	.001094	.0000262
%RSD	35.49877	649.1859	19.96302	91.58869	32.20728	156.6740	11.50061

#1	-.000681	-.002513	.0001940	.0008650	.0273777	.000464	.0001993
#2	-.000857	-.008849	.0002786	-.000014	.0473982	-.000850	.0002324
#3	-.000402	.017794	.0002082	.000647	.0289416	-.001708	.0002510

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1786227	.0052852	-.000120	-.000082	.0005844	.0214060	.0023649
Stddev	.0182456	.0003073	.000182	.000304	.0005932	.0071425	.0027215
%RSD	10.21458	5.814260	152.1822	370.0067	101.5089	33.36692	115.0769

#1	.1995735	.0056400	.000091	-.000357	.0012520	.0288243	.0025590
#2	.1662245	.0051011	-.000221	.000245	.0003831	.0145757	-.000448
#3	.1700700	.0051146	-.000228	-.000134	.0001180	.0208179	.004984

Sample Name: CCB04 Acquired: 8/13/2025 15:27:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000558	-.002100	-.000347
Stddev	.001640	.000751	.000021
%RSD	293.8440	35.75941	6.084275

#1	.001310	-.002774	-.000371
#2	-.001761	-.002235	-.000331
#3	-.001223	-.001291	-.000338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5812.099	104162.6	11752.27	4374.846	7663.584
Stddev	9.963	483.3	12.47	16.746	9.584
%RSD	.1714149	.4639507	.1061224	.3827870	.1250534

#1	5816.245	103903.7	11765.60	4357.058	7670.426
#2	5819.319	103863.8	11740.88	4377.175	7667.695
#3	5800.732	104720.1	11750.34	4390.307	7652.631

Sample Name: PB169200TB Acquired: 8/13/2025 15:31:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001733	-.001251	-.000954	.0064789	.0001909	-.012922	-.009606
Stddev	.000746	.001418	.001236	.0009879	.0013411	.001543	.000140
%RSD	43.05275	113.3527	129.6193	15.24854	702.6429	11.94053	1.461455

#1	-.001163	.000386	-.002222	.0064606	.0003743	-.014377	-.009503
#2	-.001458	-.002054	-.000887	.0055003	-.001232	-.013084	-.009549
#3	-.002577	-.002084	.000248	.0074759	.001431	-.011304	-.009766

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000145	-.000210	.0105569	.0000744	-.000443	-.000113	-.005603
Stddev	.000013	.000035	.0048680	.0003986	.000130	.000396	.008326
%RSD	8.948788	16.85594	46.11250	535.6730	29.44306	349.7343	148.6179

#1	-.000136	-.000169	.0156342	.0001001	-.000449	.000042	-.003759
#2	-.000159	-.000230	.0059294	.0004595	-.000570	.000181	-.014696
#3	-.000138	-.000230	.0101069	-.000336	-.000309	-.000564	.001648

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055757	-.019547	.0009463	.0002576	441.2733	-.000780	.0027015
Stddev	.0000689	.014846	.0002477	.0002575	2.2551	.000664	.0002476
%RSD	1.236446	75.95006	26.17142	99.96742	.5110384	85.09278	9.165545

#1	.0054992	-.008862	.0012137	.0001590	443.4230	-.000017	.0024160
#2	.0056329	-.013281	.0007247	.0005497	438.9259	-.001098	.0028299
#3	.0055950	-.036499	.0009007	.0000639	441.4710	-.001225	.0028585

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1628629	.0004407	.0002781	.0017237	-.001204	.0075056	.0085583
Stddev	.0196115	.0001943	.0000857	.0007288	.001820	.0104390	.0005957
%RSD	12.04171	44.08205	30.80454	42.27880	151.1821	139.0824	6.960305

#1	.1742980	.0002171	.0002634	.0015876	-.000631	.0191918	.0080713
#2	.1402179	.0005368	.0003702	.0010726	-.003240	.0042211	.0083812
#3	.1740728	.0005682	.0002008	.0025110	.000261	-.000896	.0092225

Sample Name: PB169200TB Acquired: 8/13/2025 15:31:51 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1028890	-.009087	-.000173
Stddev	.0029027	.000353	.000020
%RSD	2.821224	3.887003	11.44720

#1	.1009599	-.009440	-.000151
#2	.1014799	-.008733	-.000179
#3	.1062273	-.009089	-.000189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5259.474	93740.99	11870.25	3963.272	6334.302
Stddev	10.789	129.24	42.59	19.409	6.300
%RSD	.2051437	.1378663	.3588237	.4897223	.0994563

#1	5267.172	93670.20	11900.24	3984.606	6327.756
#2	5264.108	93662.61	11889.01	3946.660	6340.322
#3	5247.142	93890.15	11821.49	3958.548	6334.827

Sample Name: Q2808-04 Acquired: 8/13/2025 15:36:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012084	-.007142	-.001966	.0008957	-.001231	.0353977	.7543543
Stddev	.0011546	.001331	.000905	.0020298	.001383	.0169755	.0023880
%RSD	95.54893	18.63047	46.02128	226.6194	112.3448	47.95647	.3165628

#1	.0011245	-.008650	-.001111	.0005554	-.001121	.0507281	.7568897
#2	.0024027	-.006640	-.002913	.0030741	-.002667	.0171542	.7540254
#3	.0000980	-.006135	-.001873	-.000942	.000094	.0383109	.7521478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003242	.0004314	143.6534	-.000585	.0014674	-.001415	44.79447
Stddev	.0000299	.0000682	.2709	.000306	.0000678	.000107	.07574
%RSD	9.231972	15.79592	.1885467	52.29269	4.623183	7.544293	.1690826

#1	.0002944	.0004456	143.7573	-.000726	.0014798	-.001318	44.78370
#2	.0003543	.0004914	143.8570	-.000795	.0015283	-.001530	44.72469
#3	.0003239	.0003573	143.3460	-.000234	.0013943	-.001399	44.87502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.313864	7.095835	.0203040	.0025133	336.3410	.0000097	.1752275
Stddev	.005340	.024980	.0002070	.0003095	2.3443	.0007534	.0002137
%RSD	.4064632	.3520442	1.019769	12.31277	.6970086	7762.912	.1219832

#1	1.318051	7.085513	.0204942	.0023224	339.0220	-.000633	.1750853
#2	1.315692	7.124322	.0203345	.0023472	335.3247	-.000177	.1751240
#3	1.307850	7.077669	.0200834	.0028704	334.6763	.000839	.1754733

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.853296	.0928011	.0002084	-.002211	-.005004	.9744557	.0088558
Stddev	.026461	.0007300	.0000739	.000550	.000903	.0149631	.0013873
%RSD	1.427756	.7865870	35.43935	24.88461	18.03725	1.535536	15.66535

#1	1.845325	.0920627	.0001431	-.002834	-.004727	.9592809	.0085364
#2	1.831737	.0928183	.0002886	-.001790	-.004273	.9748884	.0076561
#3	1.882825	.0935223	.0001936	-.002010	-.006013	.9891978	.0103750

Sample Name: Q2808-04 Acquired: 8/13/2025 15:36:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.711850	-.023660	.7856772
Stddev	.008461	.000470	.0019203
%RSD	.3119986	1.984925	.2444132

#1	2.717472	-.023555	.7878258
#2	2.715960	-.024173	.7850774
#3	2.702120	-.023252	.7841284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5158.161	92861.56	11796.74	3888.707	6164.053
Stddev	4.954	17.34	35.72	6.322	4.149
%RSD	.0960425	.0186783	.3028281	.1625823	.0673081

#1	5160.742	92862.52	11779.42	3882.122	6160.774
#2	5161.292	92843.75	11772.99	3894.728	6162.668
#3	5152.450	92878.40	11837.83	3889.272	6168.718

Sample Name: Q2826-02 Acquired: 8/13/2025 15:40:42 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003870	.0013367	.0016224	.0009300	.0031688	.0630191	.1632868
Stddev	.000858	.0014517	.0000766	.0008565	.0014430	.0067992	.0004741
%RSD	22.16069	108.6039	4.720620	92.10016	45.53870	10.78918	.2903508

#1	-.004848	.0001936	.0015644	-.000052	.0019344	.0612981	.1629348
#2	-.003519	.0029701	.0015937	.001318	.0047553	.0705135	.1630997
#3	-.003244	.0008464	.0017093	.001524	.0028168	.0572458	.1638259

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000201	.0074130	215.8080	.0307831	.0034087	.0692483	-.005556
Stddev	.000062	.0000339	.2169	.0002474	.0002559	.0004980	.005497
%RSD	31.11475	.4579942	.1005035	.8035180	7.508624	.7190735	98.94037

#1	-.000248	.0074473	215.5626	.0304976	.0032664	.0688442	-.010281
#2	-.000224	.0074122	215.8875	.0309326	.0032554	.0690961	-.006864
#3	-.000130	.0073794	215.9740	.0309190	.0037041	.0698045	.000477

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8521692	7.864127	.2856859	.0001217	353.6145	.0012170	.2019797
Stddev	.0007872	.071823	.0007400	.0000527	.5166	.0003557	.0006402
%RSD	.0923748	.9133012	.2590378	43.32778	.1461046	29.23057	.3169736

#1	.8521487	7.805185	.2849488	.0001823	354.1647	.0013085	.2021213
#2	.8513925	7.843071	.2856803	.0000960	353.1396	.0015180	.2012806
#3	.8529665	7.944125	.2864288	.0000868	353.5392	.0008244	.2025373

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.455178	.1522442	.0017668	-.002519	-.009678	7.306074	.0321874
Stddev	.046069	.0007788	.0000610	.001176	.000823	.051828	.0025756
%RSD	.7136775	.5115451	3.453233	46.67749	8.501667	.7093882	8.001861

#1	6.469983	.1519378	.0018062	-.003867	-.008792	7.337459	.0341779
#2	6.492024	.1531296	.0016965	-.001982	-.009823	7.334511	.0292785
#3	6.403526	.1516652	.0017977	-.001708	-.010419	7.246252	.0331058

Sample Name: Q2826-02 Acquired: 8/13/2025 15:40:42 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.226027	-.034296	.7481124
Stddev	.050011	.001144	.0016771
%RSD	.6079566	3.335712	.2241805

#1	8.191122	-.033056	.7495049
#2	8.203639	-.035310	.7485817
#3	8.283321	-.034521	.7462506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5146.808	92279.32	11784.68	3808.550	6169.524
Stddev	1.627	89.97	46.13	4.458	5.498
%RSD	.0316022	.0974960	.3914651	.1170558	.0891226

#1	5148.622	92262.71	11831.06	3809.639	6173.699
#2	5146.320	92198.82	11784.21	3803.648	6171.580
#3	5145.480	92376.44	11738.79	3812.362	6163.294

Sample Name: Q2827-04 Acquired: 8/13/2025 15:45:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033375	-.003074	-.001057	.0014729	-.000308	.0380344	.2495645
Stddev	.0016837	.001029	.000641	.0027602	.000919	.0160508	.0014078
%RSD	50.44936	33.47081	60.59839	187.4022	298.6974	42.20084	.5641090

#1	.0052817	-.003587	-.000964	-.000025	.000667	.0565648	.2511639
#2	.0023584	-.001890	-.000468	-.000215	-.000432	.0284558	.2490165
#3	.0023724	-.003746	-.001739	.004658	-.001159	.0290826	.2485131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000982	.0001396	138.2531	-.000157	.0059795	-.001708	25.64333
Stddev	.0000389	.0000339	.4155	.000235	.0000543	.000679	.70712
%RSD	39.61762	24.23960	.3005079	149.3777	.9088097	39.74215	2.757535

#1	.0001155	.0001688	138.6192	-.000254	.0059409	-.001211	25.16834
#2	.0001254	.0001025	137.8015	-.000329	.0059559	-.002482	26.45599
#3	.0000536	.0001476	138.3385	.000111	.0060417	-.001432	25.30567

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.504102	8.245154	.0126765	.0019749	369.3551	.0004210	.1281643
Stddev	.003141	.015705	.0001787	.0004440	8.0391	.0016323	.0038640
%RSD	.2088171	.1904801	1.409777	22.48106	2.176532	387.7670	3.014896

#1	1.507721	8.255025	.0127857	.0022206	363.2808	.0022615	.1259379
#2	1.502497	8.227043	.0124703	.0022418	378.4713	-.000851	.1326260
#3	1.502087	8.253393	.0127735	.0014624	366.3131	-.000148	.1259288

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.360798	.1614519	.0019197	-.003109	-.005713	.9725995	.2032524
Stddev	.080698	.0013615	.0003764	.000292	.000385	.0164030	.0038331
%RSD	2.401147	.8433026	19.60880	9.388671	6.747460	1.686509	1.885884

#1	3.302088	.1615220	.0016286	-.002775	-.005993	.9561299	.2075059
#2	3.452818	.1627771	.0023448	-.003312	-.005872	.9889350	.2000657
#3	3.327487	.1600567	.0017858	-.003241	-.005273	.9727336	.2021856

Sample Name: Q2827-04 Acquired: 8/13/2025 15:45:01 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.020646	-.025564	.5703315
Stddev	.005679	.000964	.0015278
%RSD	.2810378	3.770428	.2678728

#1	2.014401	-.024725	.5715272
#2	2.025501	-.026617	.5686103
#3	2.022034	-.025351	.5708568

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5140.094	91969.88	11910.66	3834.611	6150.932
Stddev	14.189	2231.06	79.44	103.400	7.563
%RSD	.2760359	2.425855	.6670009	2.696489	.1229531

#1	5145.943	93440.29	11823.35	3896.357	6155.400
#2	5150.423	89402.73	11978.69	3715.239	6155.196
#3	5123.916	93066.63	11929.93	3892.237	6142.200

Sample Name: Q2827-08 Acquired: 8/13/2025 15:49:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004648	-.001267	.0023193	.0023266	.0015198	.0487123	.3903590
Stddev	.0009130	.000683	.0011875	.0004222	.0007329	.0045938	.0011785
%RSD	196.4136	53.92181	51.19976	18.14667	48.22536	9.430496	.3019021
#1	-.000413	-.001527	.0016642	.0027112	.0020389	.0472627	.3909608
#2	.000398	-.000492	.0036900	.0018749	.0018390	.0538561	.3890011
#3	.001410	-.001782	.0016037	.0023938	.0006814	.0450182	.3911151
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000030	.0000027	161.0306	-.000177	.0029226	.0004742	11.32621
Stddev	.000045	.0000286	.1109	.000292	.0001423	.0002516	.01758
%RSD	151.4507	1055.262	.0688726	165.3530	4.868289	53.06499	.1552358
#1	-.000075	-.000015	161.0566	.000157	.0029378	.0002823	11.33421
#2	.000014	.000036	160.9090	-.000385	.0030567	.0007591	11.30605
#3	-.000027	-.000013	161.1262	-.000302	.0027733	.0003812	11.33838
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6648473	3.602779	.0131446	.0006610	256.3784	.0010493	.0921859
Stddev	.0026927	.023224	.0002111	.0005121	1.4984	.0022454	.0004844
%RSD	.4050022	.6446002	1.606094	77.47172	.5844562	213.9792	.5254905
#1	.6662891	3.610170	.0129298	.0011115	258.0277	.0026946	.0922620
#2	.6617407	3.621408	.0131522	.0001041	256.0068	-.001509	.0926278
#3	.6665120	3.576760	.0133518	.0007673	255.1008	.001962	.0916680
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.665077	.0347487	.0018025	-.002590	-.006114	1.242884	.0140477
Stddev	.034436	.0005577	.0001830	.000708	.000471	.016625	.0014188
%RSD	1.292139	1.605026	10.15119	27.34576	7.704667	1.337593	10.10002
#1	2.700511	.0350012	.0016436	-.003080	-.006611	1.223719	.0139328
#2	2.631733	.0341094	.0020025	-.001778	-.005674	1.251503	.0155204
#3	2.662988	.0351356	.0017612	-.002912	-.006056	1.253428	.0126898

Sample Name: Q2827-08 Acquired: 8/13/2025 15:49:23 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.260382	-.027707	.6373880
Stddev	.019203	.001200	.0022095
%RSD	.8495358	4.331528	.3466420

#1	2.242359	-.027369	.6368776
#2	2.258206	-.029040	.6354785
#3	2.280580	-.026712	.6398080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5038.797	90754.12	11402.74	3777.226	6099.754
Stddev	37.033	188.74	12.15	19.547	35.239
%RSD	.7349610	.2079649	.1065776	.5175070	.5777085

#1	5059.530	90665.48	11412.82	3770.968	6120.440
#2	5060.819	90626.02	11389.25	3761.575	6119.756
#3	4996.041	90970.86	11406.17	3799.137	6059.066

Sample Name: Q2808-01 Acquired: 8/13/2025 15:53:46 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1800329	.0741751	2.631210	.0111485	-.056125	138.0349
Stddev	.0032144	.0075606	.001568	.0039018	.000925	.1482
%RSD	1.785433	10.19287	.0595839	34.99810	1.647939	.1073441

#1	.1826189	.0705985	2.629903	.0156013	-.056725	137.9216
#2	.1810458	.0690665	2.630779	.0095167	-.056590	137.9805
#3	.1764341	.0828604	2.632948	.0083276	-.055060	138.2026

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.094576	.0145821	.0838653	225.7189	1.039326	.3533821
Stddev	.002682	.0001221	.0006281	.4492	.004628	.0002190
%RSD	.1280380	.8375648	.7489187	.1990023	.4452901	.0619682

#1	2.093157	.0144809	.0832362	225.2066	1.039877	.3532155
#2	2.092901	.0145476	.0844923	225.9045	1.043655	.3533007
#3	2.097669	.0147177	.0838674	226.0455	1.034448	.3536301

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.759315	895.1544	6.072521	86.12084	2.293298	.0454620
Stddev	.003353	6.4741	.010794	.25625	.000710	.0019672
%RSD	.1215271	.7232422	.1777488	.2975493	.0309422	4.327147

#1	2.756124	901.7589	6.062760	85.82496	2.292673	.0472833
#2	2.759012	894.8853	6.084113	86.26598	2.294069	.0457271
#3	2.762810	888.8190	6.070690	86.27157	2.293153	.0433757

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.08201	10.35382	5.291721	6.838310	^ *****	.0751818
Stddev	.14609	.01088	.008489	.027116	-----	.0004492
%RSD	.8552481	.1050630	.1604148	.3965274	-----	.5974492

#1	17.23668	10.34234	5.282000	6.858528	^ -----	.0751910
#2	17.06298	10.35516	5.295499	6.848906	^ -----	.0756264
#3	16.94636	10.36397	5.297665	6.807496	^ -----	.0747282

Sample Name: Q2808-01 Acquired: 8/13/2025 15:53:46 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.143629	3.997180	8.950507	9.454075	F 62.82702	.1715536
Stddev	.002432	.007489	.143087	.024550	.40623	.0022124
%RSD	.2126665	.1873633	1.598650	.2596788	.6465844	1.289631

#1	1.141105	3.988535	8.940798	9.460310	62.80098	.1720816
#2	1.145958	4.001304	9.098201	9.474906	63.24565	.1734543
#3	1.143825	4.001701	8.812521	9.427008	62.43444	.1691250

Elem	Sr4077
Units	ppm
Avg	.7413666
Stddev	.0226181
%RSD	3.050870

#1	.7157265
#2	.7498832
#3	.7584901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5696.821	104518.4	13894.88	4253.124	5664.939
Stddev	8.061	192.8	102.65	3.394	3.323
%RSD	.1414970	.1844623	.7387386	.0798042	.0586514

#1	5700.852	104368.8	14011.48	4251.763	5667.372
#2	5702.072	104450.5	13854.96	4250.623	5666.292
#3	5687.540	104736.0	13818.18	4256.988	5661.154

Sample Name: Q2817-01 Acquired: 8/13/2025 15:58:02 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159929	.0214913	.0569516	-.011547	.0096765	119.7184	7.361722
Stddev	.0043442	.0021804	.0011669	.003261	.0025923	.2278	.017733
%RSD	27.16340	10.14534	2.049020	28.24337	26.78950	.1902590	.2408823

#1	.0126426	.0189748	.0561640	-.009728	.0120109	119.4951	7.351709
#2	.0144349	.0228155	.0563986	-.009600	.0068867	119.7096	7.351259
#3	.0209013	.0226835	.0582923	-.015312	.0101321	119.9504	7.382197

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019774	.0082569	2187.873	.0593914	.0249562	.0572867	111.2777
Stddev	.0000469	.0001407	15.838	.0002033	.0004285	.0015108	.3812
%RSD	2.370089	1.704371	.7239144	.3422926	1.717001	2.637314	.3425388

#1	.0020309	.0084009	2206.115	.0595530	.0247352	.0588926	110.9173
#2	.0019574	.0082502	2179.880	.0594580	.0246832	.0570739	111.2391
#3	.0019438	.0081197	2177.624	.0591631	.0254500	.0558935	111.6767

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6303406	294.7570	.1856770	.0184864	52.26184	.0976766	2.813455
Stddev	.0012775	.0737	.0007114	.0004646	.26752	.0008193	.005626
%RSD	.2026767	.0250085	.3831118	2.513492	.5118759	.8388312	.1999734

#1	.6317361	294.7615	.1863830	.0179514	51.99040	.0968175	2.816595
#2	.6292286	294.8284	.1849604	.0187179	52.26986	.0977629	2.816811
#3	.6300571	294.6812	.1856877	.0187898	52.52525	.0984493	2.806960

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.83225	.1376957	.0047863	.0777810	9.862906	3.127149	9.469285
Stddev	.22718	.0026629	.0006540	.0017422	.046872	.032871	.002983
%RSD	.7879519	1.933894	13.66310	2.239854	.4752354	1.051153	.0315036

#1	28.60651	.1354698	.0040317	.0794891	9.875588	3.136849	9.470172
#2	28.82938	.1369716	.0051871	.0778472	9.902131	3.154078	9.471724
#3	29.06085	.1406458	.0051401	.0760066	9.810997	3.090519	9.465959

Sample Name: Q2817-01 Acquired: 8/13/2025 15:58:02 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	17.77725	-.286456	1.244542
Stddev	.05895	.003348	.002127
%RSD	.3316002	1.168719	.1708942

#1	17.83882	-.289100	1.245300
#2	17.72133	-.287577	1.242140
#3	17.77162	-.282692	1.246185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4661.789	84226.01	11981.89	3484.731	4867.015
Stddev	6.606	157.36	40.63	7.452	15.862
%RSD	.1417051	.1868335	.3391069	.2138553	.3259127

#1	4669.383	84307.83	11935.51	3489.956	4877.086
#2	4658.606	84325.61	12011.17	3488.041	4875.228
#3	4657.377	84044.59	11999.00	3476.197	4848.730

Sample Name: Q2819-06 Acquired: 8/13/2025 16:02:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0295681	-.002025	.3391143	.0025716	-.002239	40.53668	.1649028
Stddev	.0009381	.000952	.0003256	.0008557	.001405	.10716	.0003091
%RSD	3.172670	47.03529	.0960099	33.27358	62.75319	.2643643	.1874691

#1	.0305262	-.002576	.3387664	.0016127	-.000651	40.65830	.1651227
#2	.0286514	-.000925	.3394116	.0028447	-.003320	40.45612	.1650363
#3	.0295267	-.002573	.3391649	.0032574	-.002747	40.49561	.1645493

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027959	.0017242	3.648005	.1100694	.0159814	.0459838	59.94381
Stddev	.0000498	.0000771	.018676	.0002597	.0002884	.0003141	.13663
%RSD	1.780254	4.473007	.5119561	.2359039	1.804572	.6830040	.2279226

#1	.0028531	.0017643	3.643727	.1103691	.0158759	.0463248	59.89063
#2	.0027622	.0016352	3.631839	.1099141	.0157606	.0457064	60.09903
#3	.0027724	.0017729	3.668449	.1099248	.0163077	.0459203	59.84177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7734115	6.536183	.0359841	.0027939	.9287686	.0886997	.1848661
Stddev	.0021155	.010341	.0004410	.0004057	.0127441	.0013520	.0006991
%RSD	.2735216	.1582177	1.225477	14.52069	1.372151	1.524231	.3781866

#1	.7758503	6.547506	.0355489	.0027385	.9178605	.0890158	.1846904
#2	.7720725	6.527237	.0359727	.0032245	.9256685	.0898657	.1842716
#3	.7723117	6.533808	.0364306	.0024188	.9427767	.0872177	.1856363

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.593731	.0122503	.0041230	.0166402	1.202571	2.058589	1.973729
Stddev	.026574	.0017682	.0000417	.0004858	.002886	.007744	.011679
%RSD	1.024540	14.43363	1.010701	2.919133	.2400049	.3762024	.5917076

#1	2.563046	.0109268	.0041248	.0171662	1.205589	2.049676	1.967975
#2	2.609104	.0142584	.0041637	.0165460	1.199838	2.063671	1.966045
#3	2.609043	.0115657	.0040805	.0162085	1.202286	2.062421	1.987169

Sample Name: Q2819-06 Acquired: 8/13/2025 16:02:22 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.081090	.0601279	-.033818
Stddev	.008608	.0007097	.000099
%RSD	.7962149	1.180226	.2933515

#1	1.087160	.0604386	-.033728
#2	1.071239	.0593159	-.033924
#3	1.084871	.0606292	-.033802

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5828.270	105927.1	12790.54	4428.850	7233.982
Stddev	17.873	74.6	74.31	8.621	22.005
%RSD	.3066564	.0704444	.5809669	.1946463	.3041915

#1	5847.456	106013.0	12727.90	4437.973	7254.738
#2	5825.261	105878.5	12872.65	4427.736	7236.297
#3	5812.092	105889.7	12771.09	4420.840	7210.911

Sample Name: Q2819-11 Acquired: 8/13/2025 16:06:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0704648	-.004367	.4667449	.0017330	-.003384	29.56425	.1721573
Stddev	.0034987	.002492	.0009880	.0015615	.002931	.04793	.0004831
%RSD	4.965171	57.05375	.2116759	90.09899	86.61258	.1621139	.2805978

#1	.0728630	-.001640	.4677795	.0002809	-.001866	29.53883	.1718935
#2	.0720812	-.006524	.4666442	.0033846	-.001524	29.61954	.1727149
#3	.0664501	-.004938	.4658112	.0015335	-.006763	29.53439	.1718637

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056646	.0029592	110.3061	.0841845	.0187954	.1282340	72.07005
Stddev	.0000424	.0000212	.0224	.0003283	.0000981	.0008094	.18015
%RSD	.7489706	.7158564	.0203489	.3899735	.5218511	.6311963	.2499690

#1	.0056856	.0029378	110.3125	.0844252	.0187189	.1283444	72.10278
#2	.0056923	.0029802	110.3247	.0838106	.0189060	.1289825	71.87578
#3	.0056157	.0029596	110.2812	.0843178	.0187613	.1273751	72.23160

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6079634	53.14769	.0498847	.0030106	1.874281	.0886187	.4421797
Stddev	.0012363	.08071	.0004164	.0001571	.003327	.0023310	.0007953
%RSD	.2033503	.1518658	.8348100	5.217064	.1775170	2.630412	.1798579

#1	.6068666	53.16746	.0499115	.0031041	1.877028	.0885502	.4425090
#2	.6093031	53.21669	.0502871	.0030985	1.870582	.0909833	.4427575
#3	.6077204	53.05893	.0494556	.0028293	1.875234	.0863227	.4412726

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.859434	.0272433	.0034364	.0181882	1.074529	2.073624	2.414830
Stddev	.023004	.0008122	.0003026	.0005704	.002707	.007259	.012654
%RSD	.8044803	2.981392	8.805798	3.135907	.2518943	.3500707	.5240094

#1	2.836883	.0267864	.0033852	.0176564	1.071978	2.065749	2.426694
#2	2.858556	.0267624	.0037614	.0187906	1.074240	2.075073	2.416285
#3	2.882865	.0281810	.0031627	.0181176	1.077368	2.080048	2.401512

Sample Name: Q2819-11 Acquired: 8/13/2025 16:06:31 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.773774	.0186115	.0773708
Stddev	.034542	.0003194	.0004114
%RSD	.3937015	1.716425	.5316864

#1	8.778689	.0186403	.0772887
#2	8.805596	.0182786	.0778170
#3	8.737037	.0189155	.0770066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5512.647	100173.0	12390.82	4162.383	6647.578
Stddev	9.278	170.2	36.82	6.630	8.815
%RSD	.1683061	.1698899	.2971413	.1592923	.1326044

#1	5521.993	99977.9	12373.84	4166.015	6657.754
#2	5503.438	100250.9	12365.56	4154.731	6642.672
#3	5512.510	100290.4	12433.07	4166.404	6642.307

Sample Name: Q2819-14 Acquired: 8/13/2025 16:10:37 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0562086	-.001838	.0944071	.0016999	-.002344	18.90034	.0493644
Stddev	.0009465	.000624	.0009691	.0011157	.001170	.02609	.0016606
%RSD	1.683891	33.92103	1.026491	65.63104	49.91350	.1380288	3.364029

#1	.0552950	-.002320	.0940224	.0008047	-.003276	18.87080	.0481875
#2	.0561459	-.002060	.0936895	.0013452	-.002724	18.91001	.0486417
#3	.0571849	-.001134	.0955095	.0029498	-.001031	18.92021	.0512639

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011686	.0009600	3.458917	.0635441	.0074544	.0551471	31.02448
Stddev	.0000721	.0000533	.010362	.0004881	.0001831	.0002051	.05945
%RSD	6.166037	5.552291	.2995755	.7681515	2.455707	.3719918	.1916310

#1	.0012448	.0009593	3.449301	.0640757	.0076467	.0549441	31.09045
#2	.0011015	.0009071	3.469892	.0634402	.0074342	.0553543	31.00795
#3	.0011594	.0010137	3.457558	.0631162	.0072822	.0551430	30.97505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3039263	3.218632	.0218651	.0010596	.7424036	.0469757	.2408749
Stddev	.0012553	.011636	.0000523	.0002110	.0117885	.0014296	.0005640
%RSD	.4130390	.3615157	.2393011	19.91474	1.587880	3.043232	.2341325

#1	.3026352	3.208030	.0218537	.0008258	.7423926	.0468424	.2414763
#2	.3051426	3.216786	.0218194	.0011173	.7541976	.0456175	.2403578
#3	.3040009	3.231081	.0219222	.0012358	.7306206	.0484673	.2407906

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.477232	.0041658	.0010734	.0070126	.6799960	1.578442	1.552906
Stddev	.003999	.0001915	.0000535	.0001263	.0010118	.009416	.005233
%RSD	.2706850	4.596142	4.987935	1.800273	.1487913	.5965654	.3369728

#1	1.477640	.0043512	.0011163	.0070693	.6788523	1.571093	1.557173
#2	1.473045	.0041773	.0010134	.0068679	.6807743	1.575177	1.547068
#3	1.481011	.0039688	.0010905	.0071005	.6803613	1.589057	1.554479

Sample Name: Q2819-14 Acquired: 8/13/2025 16:10:37 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4272766	.0151018	-.011078
Stddev	.0015997	.0010046	.000059
%RSD	.3743919	6.651937	.5339193

#1	.4279249	.0158123	-.011072
#2	.4254545	.0139525	-.011141
#3	.4284504	.0155405	-.011023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5856.838	105729.6	12562.83	4407.339	7437.104
Stddev	1.171	87.5	42.88	8.296	11.229
%RSD	.0199968	.0827426	.3413558	.1882393	.1509811

#1	5857.671	105705.7	12607.08	4411.773	7439.178
#2	5857.343	105826.5	12559.96	4397.768	7447.151
#3	5855.499	105656.5	12521.46	4412.476	7424.983

Sample Name: CCV05 Acquired: 8/13/2025 16:14:50 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.008184	4.535581	4.810757	5.071942	5.093948	9.688008	9.835879
Stddev	.012213	.134476	.005069	.016476	.010488	.030487	.175521
%RSD	.2438682	2.964905	.1053730	.3248500	.2058863	.3146899	1.784499

#1	4.994081	4.515866	4.815596	5.055795	5.081950	9.723189	10.03740
#2	5.015170	4.412050	4.805485	5.071302	5.098525	9.671504	9.71639
#3	5.015300	4.678825	4.811188	5.088729	5.101369	9.669331	9.75385

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2345472	2.404781	24.05975	.9910976	2.415756	1.243462	5.093967
Stddev	.0023443	.003151	.06526	.0049268	.002382	.002336	.046423
%RSD	.9994838	.1310496	.2712580	.4971069	.0986044	.1878590	.9113343

#1	.2372284	2.408164	24.13258	.9859178	2.418156	1.241226	5.041633
#2	.2335290	2.401928	24.00656	.9916503	2.413392	1.245887	5.110087
#3	.2328842	2.404252	24.04010	.9957248	2.415722	1.243274	5.130181

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.382668	23.82309	2.431815	1.250084	23.79499	2.460924	2.514845
Stddev	.013619	.09548	.001667	.000295	.17171	.011911	.006230
%RSD	.5715897	.4007756	.0685383	.0236224	.7216063	.4840047	.2477289

#1	2.397178	23.93248	2.433195	1.250300	23.60174	2.474645	2.517563
#2	2.380667	23.75649	2.429963	1.249748	23.85318	2.454879	2.507718
#3	2.370161	23.78031	2.432287	1.250205	23.93003	2.453248	2.519255

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.01605	4.703926	5.060931	4.822431	4.862344	5.152760	4.623886
Stddev	.24828	.062604	.008490	.012141	.024646	.067816	.005770
%RSD	.9924974	1.330880	.1677609	.2517579	.5068676	1.316102	.1247822

#1	24.78744	4.775714	5.051870	4.822921	4.890374	5.079557	4.628521
#2	24.98053	4.675387	5.062220	4.810052	4.852593	5.165282	4.625713
#3	25.28018	4.660678	5.068704	4.834319	4.844067	5.213442	4.617424

Sample Name: CCV05 Acquired: 8/13/2025 16:14:50 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.723238	4.553126	4.856926
Stddev	.036432	.017246	.022126
%RSD	.7713261	.3787828	.4555532

#1	4.705899	4.573014	4.831990
#2	4.698714	4.544085	4.874209
#3	4.765100	4.542281	4.864580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5506.087	98525.82	11696.80	4119.269	6709.778
Stddev	12.822	418.78	113.77	17.004	7.032
%RSD	.2328637	.4250489	.9726645	.4127957	.1048091

#1	5514.507	98911.53	11566.18	4125.836	6705.549
#2	5491.331	98585.54	11749.90	4132.010	6705.888
#3	5512.424	98080.38	11774.31	4099.961	6717.896

Sample Name: CCB05 Acquired: 8/13/2025 16:19:00 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018468	-.000638	-.000707	.0013979	-.001684	-.012440	-.010541
Stddev	.0015917	.000768	.000424	.0001202	.001345	.010019	.001202
%RSD	86.18538	120.3210	60.04589	8.596568	79.89197	80.53817	11.40620

#1	.0028402	-.000613	-.001001	.0013324	-.003185	-.002493	-.010317
#2	.0000110	.000116	-.000900	.0015366	-.000589	-.012298	-.011839
#3	.0026892	-.001419	-.000220	.0013246	-.001276	-.022529	-.009466

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000041	-.000169	-.017867	-.000098	-.000078	-.000062	-.008156
Stddev	.000045	.000049	.001508	.000061	.000142	.000070	.005202
%RSD	109.8832	29.05314	8.440845	62.08776	182.6525	114.0563	63.78417

#1	.000008	-.000148	-.019258	-.000137	-.000054	.000010	-.006437
#2	-.000050	-.000226	-.016264	-.000028	.000051	-.000130	-.014001
#3	-.000081	-.000134	-.018078	-.000130	-.000231	-.000064	-.004031

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000111	-.009397	-.000044	.0007661	.2681295	.0011412	-.000066
Stddev	.000342	.006801	.000158	.0004394	.0134366	.0021803	.000185
%RSD	306.5115	72.37306	360.6661	57.34955	5.011242	191.0505	280.6693

#1	-.000226	-.007377	.000092	.0010490	.2526475	.0035233	-.000274
#2	-.000381	-.016978	-.000006	.0002600	.2767491	-.000756	.000081
#3	.000273	-.003835	-.000218	.0009895	.2749921	.000656	-.000004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2972330	.0029028	-.000014	-.000220	-.001009	.0044840	.0013016
Stddev	.0116232	.0002418	.000120	.000148	.000543	.0060030	.0018185
%RSD	3.910477	8.329453	838.8570	67.32381	53.83823	133.8770	139.7177

#1	.3022219	.0028757	-.000070	-.000066	-.001614	.0007944	-.000588
#2	.3055290	.0031570	-.000097	-.000232	-.000846	.0012468	.003040
#3	.2839482	.0026757	.000124	-.000361	-.000566	.0114107	.001453

Sample Name: CCB05 Acquired: 8/13/2025 16:19:00 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000600	-.001000	-.000350
Stddev	.002094	.001362	.000037
%RSD	348.7752	136.2270	10.47710

#1	-.000861	-.000598	-.000368
#2	-.002551	-.002518	-.000308
#3	.001612	.000116	-.000374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5705.191	103393.4	11833.18	4257.600	7542.594
Stddev	14.305	88.3	45.83	16.592	11.941
%RSD	.2507329	.0854283	.3873068	.3897100	.1583103

#1	5693.370	103425.1	11854.02	4276.758	7528.867
#2	5721.093	103461.6	11864.89	4248.266	7550.580
#3	5701.109	103293.6	11780.63	4247.778	7548.335

Sample Name: Q2820-09 Acquired: 8/13/2025 16:23:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0628705	-.009917	.1052736	.0077410	-.006199	60.98124
Stddev	.0008748	.002270	.0006586	.0014554	.001212	.03229
%RSD	1.391410	22.89401	.6256464	18.80153	19.55075	.0529510

#1	.0618642	-.007415	.1047135	.0073226	-.006028	60.95144
#2	.0632984	-.010490	.1051081	.0065407	-.007488	60.97674
#3	.0634491	-.011846	.1059992	.0093598	-.005082	61.01555

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1100026	.0043867	.0070576	15.45684	.1446314	.1166744
Stddev	.0006241	.0000752	.0000989	.01080	.0003502	.0001801
%RSD	.5673837	1.714887	1.401612	.0698713	.2421118	.1543278

#1	.1099426	.0044113	.0070394	15.44923	.1443557	.1168752
#2	.1106546	.0044466	.0069690	15.46920	.1445131	.1165273
#3	.1094106	.0043023	.0071643	15.45210	.1450254	.1166207

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0817355	130.2292	.5729521	18.77518	.1260416	.0055557
Stddev	.0004656	.3942	.0015895	.09825	.0003654	.0002949
%RSD	.5696111	.3026802	.2774261	.5233017	.2898635	5.307317

#1	.0822722	129.7986	.5730785	18.88859	.1257706	.0052629
#2	.0814931	130.5723	.5744746	18.72105	.1258972	.0058526
#3	.0814411	130.3167	.5713031	18.71590	.1264571	.0055516

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.31055	.2094757	.3121155	9.048743	.1010540	.0430849
Stddev	.07520	.0015439	.0002323	.066356	.0017664	.0002029
%RSD	.3894310	.7370112	.0744417	.7333216	1.748016	.4709123

#1	19.23442	.2111753	.3119546	8.972497	.0996678	.0428907
#2	19.38478	.2081601	.3123819	9.080306	.1004512	.0432955
#3	19.31243	.2090916	.3120101	9.093428	.1030429	.0430685

Sample Name: Q2820-09 Acquired: 8/13/2025 16:23:20 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086497	2.066037	3.121620	2.959936	F 121.2632	.1111684
Stddev	.0005792	.005517	.027765	.014832	.7538	.0006940
%RSD	6.696455	.2670513	.8894402	.5011064	.6215947	.6242998

#1	.0092032	2.060306	3.095266	2.968400	120.7538	.1108597
#2	.0086981	2.066493	3.150608	2.942809	120.9068	.1106823
#3	.0080478	2.071312	3.118987	2.968598	122.1291	.1119632

Elem	Sr4077
Units	ppm
Avg	.0633939
Stddev	.0004224
%RSD	.6663265

#1	.0637370
#2	.0635225
#3	.0629221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6047.697	110321.6	13630.82	4600.120	6873.599
Stddev	3.427	159.2	38.95	5.532	10.172
%RSD	.0566610	.1443344	.2857165	.1202650	.1479880

#1	6045.536	110488.3	13590.50	4593.965	6871.080
#2	6051.648	110171.0	13633.71	4601.718	6884.795
#3	6045.908	110305.4	13668.23	4604.678	6864.924

Sample Name: Q2820-10 Acquired: 8/13/2025 16:27:25 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458854	-.001297	.0732546	.0058382	-.003323	44.20861
Stddev	.0004193	.000821	.0011578	.0006372	.000980	.09014
%RSD	.9138928	63.34230	1.580467	10.91365	29.49138	.2038912

#1	.0460564	-.001392	.0720997	.0065457	-.004454	44.28220
#2	.0461923	-.002066	.0744152	.0053094	-.002783	44.10807
#3	.0454076	-.000432	.0732490	.0056596	-.002731	44.23556

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0990888	.0026826	.0027625	16.98924	.1498167	.0208848
Stddev	.0003903	.0000304	.0001032	.03780	.0007894	.0001538
%RSD	.3938335	1.132673	3.735938	.2225148	.5269224	.7365924

#1	.0990539	.0027066	.0028136	17.00282	.1506849	.0209178
#2	.0987172	.0026484	.0026438	16.94652	.1496231	.0207171
#3	.0994954	.0026928	.0028303	17.01837	.1491421	.0210194

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426454	74.09354	.2983274	17.38385	.0503060	.0033076
Stddev	.0006275	.25583	.0003033	.04322	.0001572	.0003918
%RSD	1.471417	.3452821	.1016784	.2486388	.3124705	11.84599

#1	.0432976	73.79909	.2979971	17.43194	.0504705	.0028800
#2	.0420459	74.22011	.2983918	17.37140	.0502901	.0036495
#3	.0425927	74.26141	.2985934	17.34823	.0501573	.0033932

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.64488	.2306219	.1164593	11.15268	.1006994	.0401229
Stddev	.11666	.0006904	.0006704	.05336	.0006070	.0001028
%RSD	.4548895	.2993487	.5756505	.4784834	.6028037	.2560815

#1	25.51109	.2301783	.1166251	11.09197	.1002404	.0401720
#2	25.72532	.2302702	.1157216	11.17389	.1013877	.0400049
#3	25.69824	.2314173	.1170313	11.19218	.1004701	.0401919

Sample Name: Q2820-10 Acquired: 8/13/2025 16:27:25 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070478	1.855688	2.851007	1.853259	F 75.00901	.0738318
Stddev	.0008563	.004979	.005048	.002335	.09756	.0002360
%RSD	12.14977	.2683070	.1770541	.1259909	.1300627	.3195877

#1	.0062038	1.852929	2.852895	1.853712	75.11712	.0735634
#2	.0079159	1.852699	2.854839	1.850730	74.98237	.0740064
#3	.0070238	1.861435	2.845288	1.855334	74.92754	.0739256

Elem	Sr4077
Units	ppm
Avg	.1434227
Stddev	.0004725
%RSD	.3294259

#1	.1432447
#2	.1430651
#3	.1439583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5926.693	108055.4	13441.02	4452.094	6965.546
Stddev	6.802	181.1	63.71	11.458	7.792
%RSD	.1147610	.1675556	.4739774	.2573534	.1118586

#1	5923.217	107848.2	13377.08	4438.903	6956.670
#2	5934.531	108134.4	13504.50	4459.574	6968.708
#3	5922.333	108183.5	13441.48	4457.804	6971.259

Sample Name: Q2820-24 Acquired: 8/13/2025 16:31:32 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100422	-.003091	.0242821	.0002366	-.001959	11.00623	.0339094
Stddev	.0006359	.001479	.0006591	.0009710	.001611	.00729	.0002141
%RSD	6.331958	47.84728	2.714395	410.4521	82.23863	.0662197	.6313969

#1	.0094449	-.001455	.0238627	.0001629	-.000918	10.99782	.0337945
#2	.0107106	-.003485	.0250418	.0012423	-.003814	11.01021	.0341564
#3	.0099711	-.004334	.0239418	-.000695	-.001144	11.01066	.0337772

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014067	.0015051	1.143664	.0491919	.0071257	.0510101	22.25977
Stddev	.0000339	.0000927	.016326	.0001065	.0001757	.0000684	.06609
%RSD	2.412529	6.161059	1.427526	.2165382	2.466422	.1340307	.2968958

#1	.0013740	.0015654	1.148425	.0493053	.0069298	.0509444	22.30463
#2	.0014417	.0013983	1.157080	.0490939	.0071780	.0510809	22.18388
#3	.0014044	.0015517	1.125487	.0491767	.0072694	.0510051	22.29080

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1152239	2.958108	.0225097	.0012271	.5835596	.0246447	.1482109
Stddev	.0004100	.015245	.0000794	.0005636	.0088615	.0009757	.0009343
%RSD	.3557887	.5153688	.3528426	45.93433	1.518521	3.959066	.6304049

#1	.1154795	2.956077	.0224388	.0014293	.5925514	.0253167	.1471604
#2	.1154411	2.943980	.0225955	.0016618	.5832931	.0250917	.1489491
#3	.1147510	2.974267	.0224949	.0005902	.5748344	.0235256	.1485231

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.383879	.0005063	.0016523	.0053822	.4520159	1.285582	.6670487
Stddev	.044094	.0003015	.0001295	.0001942	.0031559	.009770	.0033619
%RSD	3.186293	59.55271	7.837949	3.608977	.6981948	.7599497	.5039916

#1	1.434617	.0006134	.0015275	.0054269	.4483829	1.280766	.6697656
#2	1.362192	.0007397	.0017860	.0055502	.4540801	1.279154	.6632890
#3	1.354829	.0001659	.0016433	.0051695	.4535846	1.296824	.6680916

Sample Name: Q2820-24 Acquired: 8/13/2025 16:31:32 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.765592	.0176684	-.009014
Stddev	.018823	.0004329	.000072
%RSD	.3264769	2.450278	.7963738

#1	5.786035	.0180353	-.009094
#2	5.748977	.0177789	-.008955
#3	5.761763	.0171909	-.008993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5815.306	105094.3	12312.37	4383.901	7552.557
Stddev	13.021	81.8	26.21	9.470	12.621
%RSD	.2239121	.0778669	.2128967	.2160136	.1671055

#1	5821.061	105076.5	12318.74	4392.736	7561.195
#2	5824.458	105183.6	12283.56	4373.904	7558.403
#3	5800.399	105022.9	12334.81	4385.063	7538.073

Sample Name: Q2826-01 Acquired: 8/13/2025 16:35:45 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1395862	-.025763	2.398305	.0125785	.0065415	128.8316	1.566728
Stddev	.0013217	.001038	.001958	.0025831	.0020755	.1042	.006777
%RSD	.9468532	4.030769	.0816551	20.53567	31.72774	.0808437	.4325325

#1	.1388828	-.024771	2.396997	.0122183	.0041538	128.7202	1.560332
#2	.1387650	-.026843	2.397360	.0101944	.0075569	128.8481	1.573830
#3	.1411108	-.025676	2.400556	.0153227	.0079137	128.9265	1.566022

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092384	.0403645	369.4236	2.532358	.1223023	3.432179	280.8822
Stddev	.0000987	.0000262	.9183	.005853	.0003617	.002533	.4802
%RSD	1.068560	.0648431	.2485788	.2311251	.2957257	.0738115	.1709635

#1	.0091935	.0403940	370.0573	2.531227	.1219632	3.433751	280.3289
#2	.0091702	.0403439	369.8429	2.527153	.1226830	3.429256	281.1271
#3	.0093516	.0403558	368.3705	2.538693	.1222607	3.433529	281.1905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.039300	96.94582	6.744927	.0125275	6.570137	.3384918	3.255711
Stddev	.026798	.26020	.003762	.0001446	.023254	.0022527	.000994
%RSD	.3806913	.2684012	.0557809	1.154358	.3539342	.6655139	.0305178

#1	7.011408	96.82999	6.741070	.0126914	6.544278	.3370258	3.255552
#2	7.064851	96.76365	6.748587	.0124730	6.589330	.3373638	3.254806
#3	7.041641	97.24383	6.745122	.0124180	6.576801	.3410856	3.256774

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.19676	.2881801	.0084255	.3160914	2.769079	7.537017	6.946138
Stddev	.04321	.0030465	.0001559	.0006798	.010314	.054433	.011706
%RSD	.1946549	1.057164	1.850810	.2150654	.3724642	.7222077	.1685291

#1	22.15471	.2861832	.0082486	.3155884	2.757269	7.516157	6.942225
#2	22.24104	.2916867	.0085428	.3158209	2.776314	7.496099	6.959300
#3	22.19453	.2866705	.0084853	.3168648	2.773652	7.598795	6.936890

Sample Name: Q2826-01 Acquired: 8/13/2025 16:35:45 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	15.62017	.2315961	.8013124
Stddev	.01530	.0004101	.0043260
%RSD	.0979717	.1770736	.5398634

#1	15.61340	.2311558	.7972390
#2	15.60942	.2319672	.8058531
#3	15.63769	.2316653	.8008452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5706.696	104008.1	13626.67	4304.267	5804.035
Stddev	8.034	139.7	7.30	10.523	3.066
%RSD	.1407891	.1342996	.0535347	.2444747	.0528283

#1	5699.817	103890.5	13627.18	4292.283	5801.266
#2	5715.526	104162.5	13633.70	4311.997	5807.330
#3	5704.743	103971.3	13619.13	4308.521	5803.508

Sample Name: Q2827-01 Acquired: 8/13/2025 16:39:54 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1483785	-.074518	70.05285	.0051202	.0227446	73.14248
Stddev	.0024244	.002086	.15429	.0029995	.0012414	.11638
%RSD	1.633961	2.798813	.2202465	58.58230	5.458095	.1591145

#1	.1510508	-.075387	70.11788	.0019906	.0237707	73.22952
#2	.1477646	-.076029	69.87669	.0053999	.0230983	73.18764
#3	.1463200	-.072139	70.16398	.0079701	.0213647	73.01029

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.019622	.0077333	.0335457	206.2075	2.806505	.1333898
Stddev	.087332	.0000428	.0002606	.3819	.004113	.0005159
%RSD	1.244118	.5537602	.7767909	.1851800	.1465360	.3867898

#1	7.063897	.0077015	.0335720	206.2542	2.807204	.1337388
#2	7.075949	.0077820	.0332729	206.5638	2.802088	.1327972
#3	6.919020	.0077164	.0337921	205.8044	2.810223	.1336335

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.695565	485.6378	3.347125	26.43496	.5569049	.0737720
Stddev	.002136	.9572	.013068	.01988	.0011532	.0003967
%RSD	.1259870	.1970914	.3904120	.0751850	.2070772	.5377141

#1	1.693762	486.5389	3.338999	26.43087	.5568312	.0741636
#2	1.697924	485.7416	3.362198	26.45656	.5557903	.0737818
#3	1.695008	484.6330	3.340177	26.41744	.5580932	.0733705

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.91282	.5266232	10.17829	7.509590	^ *****	.2211758
Stddev	.11791	.0029539	.05684	.041509	----	.0001737
%RSD	.5146216	.5609228	.5584790	.5527472	----	.0785169

#1	22.84096	.5245638	10.11667	7.490038	^ ----	.2209858
#2	23.04890	.5300077	10.18951	7.557264	^ ----	.2212153
#3	22.84859	.5252981	10.22868	7.481468	^ ----	.2213263

Sample Name: Q2827-01 Acquired: 8/13/2025 16:39:54 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.752780	1.483108	3.499438	11.47636	F 90.96765	.0630121
Stddev	.006148	.004796	.010824	.03346	.44028	.0007146
%RSD	.3507803	.3233535	.3093095	.2915863	.4839953	1.134003
#1	1.756280	1.478163	3.511893	11.50771	91.19106	.0632498
#2	1.745681	1.487739	3.494113	11.44112	90.46045	.0635774
#3	1.756380	1.483422	3.492307	11.48025	91.25143	.0622089

Elem	Sr4077
Units	ppm
Avg	.4316986
Stddev	.0029183
%RSD	.6759958
#1	.4297735
#2	.4350563
#3	.4302661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5336.988	98666.08	12923.86	4046.074	6115.859
Stddev	11.976	6.33	11.74	13.005	16.515
%RSD	.2243917	.0064155	.0908273	.3214215	.2700336
#1	5349.960	98663.96	12910.89	4061.006	6120.348
#2	5334.652	98673.20	12926.95	4037.222	6129.665
#3	5326.353	98661.08	12933.75	4039.996	6097.563

Sample Name: Q2827-05 Acquired: 8/13/2025 16:44:11 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1044894	-.022758	8.629621	-.005811	.0215296	93.47949
Stddev	.0021559	.001633	.007328	.003909	.0015632	.02872
%RSD	2.063292	7.176200	.0849176	67.26907	7.260596	.0307256

#1	.1021916	-.023672	8.638079	-.008367	.0197732	93.45464
#2	.1048089	-.023730	8.625195	-.001311	.0227682	93.47289
#3	.1064678	-.020872	8.625588	-.007754	.0220474	93.51094

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.833491	.0088923	.0331300	414.0308	.2967711	.1204523
Stddev	.011486	.0001465	.0001906	3.3338	.0044883	.0003603
%RSD	.2996258	1.647250	.5754391	.8052033	1.512380	.2991599

#1	3.822894	.0088246	.0331239	416.7793	.2991695	.1205668
#2	3.831881	.0090604	.0329425	410.3224	.2995506	.1200486
#3	3.845696	.0087920	.0333236	414.9908	.2915931	.1207415

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.168222	295.5230	4.508764	62.94097	.5112842	.0219489
Stddev	.001116	3.4002	.008909	.00810	.0012810	.0002974
%RSD	.0954979	1.150585	.1975916	.0128678	.2505479	1.354777

#1	1.168335	297.3536	4.510427	62.93166	.5114810	.0222285
#2	1.167053	297.6158	4.499141	62.94640	.5099162	.0216365
#3	1.169276	291.5997	4.516724	62.94485	.5124555	.0219818

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.65561	.3852155	4.072211	30.64986	.2677562	.0091125
Stddev	.18589	.0012060	.058918	.27890	.0073364	.0001311
%RSD	.9457486	.3130666	1.446835	.9099443	2.739948	1.438322

#1	19.72236	.3841671	4.121845	30.79223	.2699303	.0091275
#2	19.79891	.3849458	4.087688	30.82883	.2737598	.0089746
#3	19.44556	.3865334	4.007099	30.32851	.2595785	.0092355

Sample Name: Q2827-05 Acquired: 8/13/2025 16:44:11 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2312864	6.011005	4.225126	6.646962	F 78.00988	.1138177
Stddev	.0011711	.015091	.074054	.004547	.21543	.0011660
%RSD	.5063224	.2510607	1.752706	.0684006	.2761556	1.024435

#1	.2299414	5.998876	4.259280	6.651283	78.25803	.1130308
#2	.2320800	6.006235	4.275939	6.647385	77.90083	.1132651
#3	.2318378	6.027906	4.140158	6.642219	77.87077	.1151573

Elem	Sr4077
Units	ppm
Avg	1.741626
Stddev	.029660
%RSD	1.703006

#1	1.732582
#2	1.717540
#3	1.774755

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5582.559	102636.8	13253.48	4268.724	5788.391
Stddev	7.768	1201.0	18.65	45.783	5.664
%RSD	.1391463	1.170112	.1407516	1.072521	.0978507

#1	5590.907	102057.7	13271.64	4230.568	5794.514
#2	5575.543	101835.2	13254.43	4256.112	5787.320
#3	5581.228	104017.6	13234.37	4319.490	5783.339

Sample Name: Q2829-01 Acquired: 8/13/2025 16:48:29 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146157	.0127385	.0165349	.0055024	.0057026	55.68469	.0761651
Stddev	.0012553	.0018284	.0007517	.0025820	.0013963	.02899	.0002045
%RSD	8.588339	14.35333	4.546366	46.92525	24.48575	.0520578	.2684381

#1	.0133578	.0148452	.0164574	.0027669	.0059455	55.65340	.0763976
#2	.0158683	.0118054	.0158249	.0078971	.0042008	55.71062	.0760844
#3	.0146210	.0115650	.0173224	.0058430	.0069616	55.69005	.0760133

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013009	.0010851	81.50139	.1776811	.0272492	.1724574	25.66638
Stddev	.0000699	.0000220	.11623	.0004306	.0000787	.0001102	.10759
%RSD	5.373722	2.026834	.1426071	.2423640	.2889551	.0638851	.4191708

#1	.0012394	.0011012	81.36718	.1773325	.0272602	.1725013	25.56025
#2	.0012863	.0010600	81.56877	.1775482	.0271656	.1725388	25.66353
#3	.0013769	.0010941	81.56822	.1781625	.0273219	.1723320	25.77537

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4952632	16.34188	.1046040	.0026768	4.287983	.1538768	.2256946
Stddev	.0024369	.03958	.0001021	.0001853	.030102	.0032141	.0007184
%RSD	.4920426	.2422069	.0975707	6.923747	.7020036	2.088722	.3182873

#1	.4926014	16.30231	.1045348	.0028507	4.257639	.1563915	.2264066
#2	.4958037	16.38148	.1047212	.0024818	4.288473	.1549831	.2249700
#3	.4973844	16.34185	.1045560	.0026979	4.317837	.1502557	.2257072

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5862546	.1866260	.0247643	.0163739	4.455656	5.020977	.2891648
Stddev	.0298464	.0004926	.0002656	.0002707	.012928	.020250	.0025540
%RSD	5.091032	.2639336	1.072437	1.653148	.2901502	.4032991	.8832270

#1	.5889382	.1861484	.0248499	.0160660	4.440747	5.029726	.2870665
#2	.5551570	.1871323	.0244665	.0165743	4.462461	4.997824	.2884194
#3	.6146686	.1865973	.0249766	.0164813	4.463760	5.035381	.2920086

Sample Name: Q2829-01 Acquired: 8/13/2025 16:48:29 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.108610	.0162724	.1966764
Stddev	.007751	.0001082	.0006815
%RSD	.6991807	.6645950	.3465180

#1	1.099706	.0161786	.1959911
#2	1.112272	.0163907	.1966841
#3	1.113851	.0162478	.1973541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5611.318	100878.3	12124.14	4274.155	6695.629
Stddev	7.889	190.4	11.32	2.471	14.487
%RSD	.1405990	.1887140	.0933311	.0578234	.2163607

#1	5602.896	101025.5	12136.11	4271.928	6692.235
#2	5612.521	100946.2	12122.68	4276.814	6683.140
#3	5618.537	100663.3	12113.62	4273.723	6711.511

Sample Name: Q2832-09 Acquired: 8/13/2025 16:52:38 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5068867	-.123210	11.62454	.0582227	.1547743	70.67201
Stddev	.0018936	.004310	.02015	.0037146	.0010104	.19003
%RSD	.3735730	3.498242	.1733766	6.380026	.6528439	.2688954

#1	.5083855	-.121075	11.63033	.0539487	.1536767	70.46385
#2	.5075160	-.120383	11.60213	.0606730	.1556657	70.83620
#3	.5047586	-.128171	11.64117	.0600465	.1549806	70.71599

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.635758	.0176286	.0365074	93.91628	.8634016	.1572956
Stddev	.006603	.0001553	.0003493	.01233	.0002484	.0008083
%RSD	.1424317	.8811444	.9568729	.0131321	.0287739	.5138664

#1	4.643357	.0174939	.0362677	93.91809	.8636221	.1581316
#2	4.631428	.0177985	.0369082	93.92762	.8631325	.1565182
#3	4.632488	.0175935	.0363463	93.90315	.8634502	.1572371

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.405984	753.9727	3.460085	22.03555	.5543822	.0253858
Stddev	.003754	3.9375	.006010	.02107	.0006017	.0016877
%RSD	.0852065	.5222312	.1736878	.0956221	.1085350	6.648293

#1	4.407393	753.4117	3.466763	22.01132	.5550317	.0250086
#2	4.408831	750.3458	3.455113	22.04956	.5538437	.0239186
#3	4.401730	758.1606	3.458378	22.04576	.5542712	.0272302

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.459966	.6084114	2.516628	10.23195	^ *****	.0391904
Stddev	.010184	.0016812	.003120	.01244	-----	.0003148
%RSD	.2943355	.2763205	.1239663	.1215563	-----	.8032400

#1	3.467697	.6066000	2.514874	10.24186	^ -----	.0389056
#2	3.448427	.6099217	2.514780	10.21800	^ -----	.0395284
#3	3.463773	.6087126	2.520230	10.23600	^ -----	.0391372

Sample Name: Q2832-09 Acquired: 8/13/2025 16:52:38 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8749492	4.626747	F 23.56135	7.183246	16.32204	.1249249
Stddev	.0016167	.006269	.07363	.013380	.05022	.0011741
%RSD	.1847788	.1354896	.3124889	.1862660	.3077005	.9398070

#1	.8734651	4.630581	23.48792	7.182433	16.29213	.1245564
#2	.8747105	4.619512	23.56095	7.170291	16.29398	.1262390
#3	.8766720	4.630146	23.63517	7.197014	16.38003	.1239793

Elem	Sr4077
Units	ppm
Avg	.0758773
Stddev	.0043948
%RSD	5.791960

#1	.0781212
#2	.0786971
#3	.0708135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5616.504	102408.8	12765.54	4234.089	6008.079
Stddev	3.720	102.0	34.41	14.181	10.395
%RSD	.0662392	.0996101	.2695882	.3349180	.1730158

#1	5612.211	102291.0	12752.64	4223.042	5999.857
#2	5618.779	102470.6	12739.43	4250.080	6019.763
#3	5618.522	102464.7	12804.54	4229.146	6004.617

Sample Name: Q2832-09DUP Acquired: 8/13/2025 16:56:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5170091	-.128514	11.75216	.0551547	.1570451	69.877703
Stddev	.0036280	.003279	.00789	.0018148	.0007550	.36954
%RSD	.7017233	2.551845	.0671467	3.290404	.4807302	.5288456

#1	.5166836	-.132221	11.74346	.0531075	.1567746	70.30331
#2	.5135548	-.125991	11.75885	.0557905	.1564626	69.64723
#3	.5207888	-.127331	11.75416	.0565660	.1578980	69.68056

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.643892	.0177295	.0387108	93.37976	.8672155	.1568746
Stddev	.021892	.0001613	.0006854	.44004	.0011664	.0004926
%RSD	.4714078	.9099266	1.770540	.4712416	.1345000	.3140031

#1	4.668391	.0178801	.0394854	93.88787	.8673944	.1564528
#2	4.626247	.0175593	.0381828	93.12365	.8659700	.1567549
#3	4.637039	.0177493	.0384644	93.12775	.8682821	.1574159

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.474758	749.9925	3.421493	21.66305	.5564017	.0232006
Stddev	.010289	1.1504	.013257	.14470	.0004962	.0008693
%RSD	.2299280	.1533893	.3874495	.6679395	.0891768	3.746688

#1	4.469558	749.7730	3.436386	21.82569	.5563485	.0223222
#2	4.468107	751.2368	3.410981	21.54859	.5559342	.0240604
#3	4.486609	748.9676	3.417114	21.61487	.5569223	.0232192

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.266850	.6103996	2.497082	10.05460	^ *****	.0407402
Stddev	.011192	.0047355	.001938	.04054	-----	.0002222
%RSD	.3426017	.7757958	.0775925	.4032215	-----	.5453071

#1	3.267642	.6150097	2.498009	10.08697	^ ----	.0408028
#2	3.255282	.6055480	2.494855	10.00913	^ ----	.0409243
#3	3.277625	.6106411	2.498381	10.06771	^ ----	.0404934

Sample Name: Q2832-09DUP Acquired: 8/13/2025 16:56:47 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8943350	4.565187	F 24.17116	7.043078	16.59765	.1246956
Stddev	.0018740	.024225	.10345	.005152	.02265	.0013964
%RSD	.2095384	.5306367	.4279741	.0731565	.1364949	1.119867

#1	.8923032	4.592525	24.25834	7.039131	16.59435	.1231022
#2	.8947062	4.546389	24.05685	7.041196	16.57683	.1257065
#3	.8959956	4.556648	24.19828	7.048907	16.62178	.1252780

Elem	Sr4077
Units	ppm
Avg	.0765440
Stddev	.0045816
%RSD	5.985578

#1	.0813431
#2	.0722163
#3	.0760725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5605.268	102739.1	12684.22	4233.567	6008.971
Stddev	10.837	48.5	5.99	5.389	6.048
%RSD	.1933422	.0471929	.0472436	.1272853	.1006416

#1	5599.313	102716.4	12678.80	4228.018	6004.667
#2	5617.777	102706.0	12690.66	4238.779	6015.886
#3	5598.714	102794.7	12683.20	4233.903	6006.362

Sample Name: Q2832-09LX5 Acquired: 8/13/2025 17:00:55 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1114476	-.027335	2.440055	.0130022	.0319116	15.68400	1.009649
Stddev	.0029274	.000841	.006831	.0009162	.0015833	.05311	.003096
%RSD	2.626740	3.077920	.2799695	7.046108	4.961421	.3386032	.3066798

#1	.1117946	-.027687	2.447355	.0119811	.0327431	15.65265	1.006260
#2	.1141861	-.026375	2.438994	.0132732	.0329059	15.65402	1.010358
#3	.1083622	-.027943	2.433816	.0137521	.0300858	15.74531	1.012330

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042110	.0057110	21.52531	.1978020	.0310388	1.034941	169.5526
Stddev	.0000838	.0001279	.08996	.0003938	.0001228	.003069	1.4147
%RSD	1.989236	2.240219	.4179242	.1990693	.3954568	.2965717	.8343679

#1	.0042357	.0055658	21.44552	.1977702	.0310677	1.037541	170.4346
#2	.0041176	.0057603	21.50761	.1982106	.0311445	1.035727	170.3022
#3	.0042796	.0058070	21.62281	.1974250	.0309042	1.031555	167.9208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7964026	5.018822	.1126685	.0063075	.8139610	.1380775	.5571640
Stddev	.0036154	.041165	.0008010	.0005217	.0155468	.0023672	.0048166
%RSD	.4539661	.8202128	.7109300	8.270391	1.910022	1.714368	.8644841

#1	.7939115	4.976818	.1135876	.0057634	.8082590	.1356848	.5608768
#2	.7947469	5.020554	.1121195	.0068034	.8315537	.1381293	.5588939
#3	.8005493	5.059094	.1122983	.0063558	.8020702	.1404183	.5517214

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.306839	.0302560	.0085856	.1817699	1.038072	5.092558	1.396058
Stddev	.049691	.0074943	.0001600	.0009990	.003361	.053783	.001985
%RSD	2.154087	24.76964	1.863019	.5495862	.3238156	1.056115	.1422033

#1	2.270306	.0366018	.0087703	.1808512	1.035580	5.139319	1.393859
#2	2.363423	.0321784	.0084935	.1828334	1.036741	5.104572	1.397720
#3	2.286788	.0219877	.0084930	.1816251	1.041895	5.033784	1.396594

Sample Name: Q2832-09LX5 Acquired: 8/13/2025 17:00:55 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.269684	.0261822	.0125809
Stddev	.000464	.0002129	.0017660
%RSD	.0141975	.8132413	14.03697

#1	3.269280	.0264212	.0117673
#2	3.270191	.0260128	.0113683
#3	3.269581	.0261126	.0146070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5684.676	102977.7	11933.45	4309.641	6969.526
Stddev	8.228	781.0	73.80	39.468	12.280
%RSD	.1447329	.7584010	.6184355	.9158176	.1761996

#1	5680.160	102495.0	11989.20	4270.941	6960.451
#2	5679.694	102559.3	11961.40	4308.146	6964.629
#3	5694.172	103878.7	11849.76	4349.836	6983.500

Sample Name: CCV06 Acquired: 8/13/2025 17:05:00 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.042629	5.384016	4.847802	5.154760	5.108953	9.693028	9.807771
Stddev	.009903	.165242	.005493	.024028	.023208	.018718	.106625
%RSD	.1963763	3.069125	.1133074	.4661249	.4542676	.1931088	1.087153

#1	5.033789	5.211400	4.847917	5.130167	5.095204	9.672500	9.898930
#2	5.040768	5.399913	4.842252	5.155935	5.095906	9.697434	9.690522
#3	5.053330	5.540736	4.853236	5.178179	5.135748	9.709150	9.833861

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2383448	2.423771	24.14399	.9884967	2.431373	1.246068	5.073739
Stddev	.0004951	.002177	.07436	.0013958	.000418	.001468	.012611
%RSD	.2077171	.0898264	.3079790	.1412014	.0171762	.1177902	.2485569

#1	.2377735	2.424343	24.05915	.9890562	2.430893	1.246819	5.078277
#2	.2386125	2.425604	24.19784	.9869079	2.431652	1.244377	5.083452
#3	.2386485	2.421364	24.17499	.9895259	2.431574	1.247009	5.059486

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.399823	23.99836	2.442756	1.255255	23.30557	2.463389	2.518384
Stddev	.012198	.09311	.000861	.001595	.07036	.006836	.003316
%RSD	.5082716	.3879913	.0352654	.1270445	.3018964	.2775143	.1316689

#1	2.392336	23.93731	2.442593	1.256196	23.36529	2.457657	2.515876
#2	2.413898	24.10553	2.443688	1.253414	23.32340	2.470955	2.522144
#3	2.393235	23.95225	2.441988	1.256155	23.22801	2.461554	2.517133

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.75928	4.793299	5.103397	4.897045	4.861095	5.150910	4.658086
Stddev	.02302	.019725	.013266	.013081	.016477	.009585	.007983
%RSD	.0929938	.4115131	.2599417	.2671207	.3389532	.1860930	.1713830

#1	24.75838	4.772592	5.091379	4.881940	4.847622	5.158183	4.654073
#2	24.78274	4.795438	5.101181	4.904642	4.879465	5.140048	4.652906
#3	24.73671	4.811868	5.117632	4.904552	4.856197	5.154500	4.667280

Sample Name: CCV06 Acquired: 8/13/2025 17:05:00 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.860561	4.517107	4.895347
Stddev	.015662	.012428	.025120
%RSD	.3222213	.2751224	.5131321

#1	4.842927	4.503038	4.903653
#2	4.872854	4.526589	4.867126
#3	4.865901	4.521693	4.915260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5538.876	98999.53	11604.15	4150.276	6719.929
Stddev	9.399	118.63	36.93	10.899	6.276
%RSD	.1697001	.1198249	.3182613	.2626190	.0933876

#1	5539.659	98959.38	11644.58	4144.536	6721.042
#2	5547.860	98906.18	11572.19	4143.445	6725.573
#3	5529.110	99133.02	11595.68	4162.846	6713.171

Sample Name: CCB06 Acquired: 8/13/2025 17:09:12 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012380	-.001320	-.000696	-.001443	-.001238	-.020077	-.010116
Stddev	.0007930	.002063	.000280	.001705	.002737	.005241	.001104
%RSD	64.05364	156.3131	40.18541	118.1670	221.0879	26.10447	10.91592

#1	.0021497	-.003419	-.000490	-.000281	-.001795	-.021868	-.009124
#2	.0007091	.000705	-.001014	-.003400	-.003654	-.024188	-.009918
#3	.0008551	-.001244	-.000583	-.000648	.001735	-.014176	-.011306

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000043	-.000133	-.019127	.0001300	-.000183	.0007722	-.005072
Stddev	.0000301	.000018	.002838	.0001797	.000111	.0000879	.003047
%RSD	699.5130	13.53380	14.83772	138.1861	60.33841	11.38265	60.08081

#1	.0000119	-.000153	-.022371	.0000773	-.000196	.0007548	-.005315
#2	-.000029	-.000120	-.017105	.0003302	-.000067	.0006943	-.007991
#3	.000030	-.000125	-.017904	-.000017	-.000287	.0008675	-.001911

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000044	-.000266	.0004091	.0004794	.1379824	-.001081	-.000051
Stddev	.000432	.010715	.0002488	.0002574	.0116954	.001203	.000030
%RSD	975.4545	4030.787	60.81928	53.69104	8.476017	111.2646	58.50475

#1	-.000529	-.012628	.0001461	.0007473	.1369927	.000152	-.000020
#2	.000299	.005476	.0006408	.0004570	.1268133	-.002251	-.000080
#3	.000098	.006355	.0004405	.0002339	.1501412	-.001145	-.000052

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3089144	.0037515	-.000142	-.000066	-.000535	.0077620	.0026199
Stddev	.0070065	.0004349	.000137	.000137	.000499	.0085442	.0030560
%RSD	2.268107	11.59199	96.22786	207.4738	93.19977	110.0776	116.6448

#1	.3127437	.0042331	-.000128	-.000022	-.000821	.0174953	.0010956
#2	.3131718	.0033876	-.000013	-.000220	-.000825	.0042918	.0006258
#3	.3008278	.0036336	-.000286	.000043	.000041	.0014988	.0061382

Sample Name: CCB06 Acquired: 8/13/2025 17:09:12 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0056333	-.001380	-.000339
Stddev	.0033433	.001669	.000074
%RSD	59.34913	120.8774	21.89610

#1	.0023516	-.000317	-.000254
#2	.0055134	-.000521	-.000389
#3	.0090349	-.003304	-.000375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5737.472	103539.6	11562.50	4286.944	7564.012
Stddev	6.663	214.1	57.33	17.884	7.887
%RSD	.1161383	.2067639	.4958422	.4171671	.1042707

#1	5741.045	103333.1	11554.88	4272.072	7572.388
#2	5741.587	103525.1	11623.27	4281.971	7562.921
#3	5729.784	103760.5	11509.37	4306.787	7556.727

Sample Name: Q2832-09MS Acquired: 8/13/2025 17:13:32 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.309558	1.656942	10.79502	1.892510	.8399824	61.98874
Stddev	.009206	.007912	.08300	.012958	.0063985	.08700
%RSD	.7030122	.4775208	.7688886	.6847247	.7617442	.1403428

#1	1.314431	1.655136	10.82684	1.890284	.8422627	61.90232
#2	1.315303	1.665601	10.85740	1.906437	.8449285	62.07630
#3	1.298939	1.650089	10.70081	1.880808	.8327561	61.98761

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.564405	.1844582	.2323631	72.00912	.9885516	.3387792
Stddev	.001956	.0003108	.0028258	.07622	.0032993	.0023966
%RSD	.0428640	.1685178	1.216109	.1058510	.3337553	.7074331

#1	4.562912	.1845214	.2335644	71.93269	.9847432	.3403132
#2	4.566620	.1847326	.2343898	72.08514	.9905453	.3400069
#3	4.563682	.1841206	.2291352	72.00954	.9903662	.3360175

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.960816	811.3024	3.482315	19.78485	.9894247	.1042820
Stddev	.036872	6.9841	.007853	.12924	.0063946	.0040601
%RSD	.7432609	.8608495	.2255197	.6532181	.6462959	3.893347

#1	4.979495	809.1432	3.473320	19.67675	.9940100	.1025386
#2	4.984610	805.6530	3.487807	19.92800	.9921442	.1013848
#3	4.918342	819.1112	3.485819	19.74981	.9821198	.1089226

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.759301	.7841703	2.363669	19.61342	^ *****	.4233106
Stddev	.033462	.0014063	.004636	.10988	-----	.0023500
%RSD	.5810167	.1793389	.1961529	.5602447	-----	.5551574

#1	5.735236	.7828704	2.365478	19.48670	^ ----	.4250544
#2	5.745153	.7856631	2.358401	19.67128	^ ----	.4242393
#3	5.797513	.7839774	2.367128	19.68229	^ ----	.4206382

Sample Name: Q2832-09MS Acquired: 8/13/2025 17:13:32 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.689791	3.632354	F 25.90019	12.23448	16.93743	.3037707
Stddev	.013491	.008107	.07643	.07837	.12675	.0019426
%RSD	.7983776	.2231756	.2951040	.6405826	.7483320	.6394825

#1	1.698030	3.627734	25.81855	12.26476	17.01400	.3019185
#2	1.697120	3.641715	25.91197	12.29319	17.00715	.3036012
#3	1.674221	3.627614	25.97005	12.14549	16.79112	.3057925

Elem	Sr4077
Units	ppm
Avg	.0558917
Stddev	.0073372
%RSD	13.12753

#1	.0579323
#2	.0619927
#3	.0477503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5498.562	100468.3	12559.47	4098.853	6001.027
Stddev	28.649	297.2	19.91	4.672	42.164
%RSD	.5210309	.2958354	.1584946	.1139868	.7026181

#1	5478.306	100809.8	12575.88	4102.800	5971.109
#2	5486.039	100326.5	12537.32	4100.064	5982.721
#3	5531.341	100268.4	12565.20	4093.694	6049.250

Sample Name: Q2832-09MSD Acquired: 8/13/2025 17:17:35 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.294557	1.615152	10.98460	1.887040	.8324383	62.18777
Stddev	.003662	.055660	.01741	.008558	.0031502	.65500
%RSD	.2828688	3.446112	.1584887	.4535308	.3784326	1.053260

#1	1.292277	1.615802	10.98301	1.884110	.8358301	61.43783
#2	1.292612	1.559170	10.96804	1.880332	.8318807	62.47782
#3	1.298781	1.670484	11.00275	1.896679	.8296041	62.64767

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.382495	.1836054	.2323633	73.99576	1.136670	.3527649
Stddev	.049395	.0015159	.0008976	.78465	.002919	.0003648
%RSD	1.127087	.8256081	.3862691	1.060404	.2568189	.1034222

#1	4.326861	.1826156	.2313685	73.14703	1.133320	.3531475
#2	4.399426	.1828501	.2326089	74.14547	1.138024	.3524209
#3	4.421197	.1853505	.2331124	74.69477	1.138667	.3527262

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.873529	744.0530	4.656637	22.28705	1.041241	.0983552
Stddev	.008628	9.4675	.053335	.25818	.000752	.0037941
%RSD	.1770476	1.272417	1.145349	1.158409	.0722151	3.857538

#1	4.867737	754.8364	4.597304	22.02182	1.040757	.1025373
#2	4.869404	737.1051	4.672012	22.30180	1.040859	.0951339
#3	4.883446	740.2176	4.700596	22.53753	1.042107	.0973944

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.546545	.8733662	2.310044	19.62445	^ *****	.4265446
Stddev	.029133	.0062565	.006141	.11273	-----	.0004053
%RSD	.5252375	.7163649	.2658232	.5744617	-----	.0950223

#1	5.513710	.8674169	2.303445	19.49667	^ -----	.4267091
#2	5.569295	.8727913	2.311097	19.70985	^ -----	.4260829
#3	5.556630	.8798902	2.315590	19.66683	^ -----	.4268417

Sample Name: Q2832-09MSD Acquired: 8/13/2025 17:17:35 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.510096	4.538217	F 22.69122	12.24197	16.15476	.2934906
Stddev	.003566	.050692	.12684	.03448	.05947	.0025572
%RSD	.2361131	1.117004	.5589766	.2816146	.3681109	.8713035
#1	1.511652	4.481235	22.55769	12.28141	16.12926	.2925118
#2	1.506017	4.555112	22.81009	12.22692	16.11229	.2915673
#3	1.512618	4.578304	22.70588	12.21758	16.22272	.2963926

Elem	Sr4077
Units	ppm
Avg	.1099942
Stddev	.0179734
%RSD	16.34028
#1	.0892610
#2	.1195603
#3	.1211615

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5494.737	100713.6	12586.10	4111.181	6004.036
Stddev	2.161	333.3	121.41	24.717	3.159
%RSD	.0393373	.3309117	.9646662	.6012175	.0526181
#1	5492.968	101089.8	12699.15	4139.721	6005.216
#2	5497.147	100455.1	12601.38	4097.088	6000.457
#3	5494.097	100596.0	12457.77	4096.734	6006.435

Sample Name: Q2832-09A Acquired: 8/13/2025 17:21:38 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238164	1.757962	12.54815	1.843375	.7097440	70.67279
Stddev	.118726	.317580	.13202	.281859	.1250662	1.16967
%RSD	9.588897	18.06523	1.052071	15.29040	17.62131	1.655055

#1	1.118491	1.449250	12.41121	1.557728	.5848143	71.76194
#2	1.240081	1.740913	12.55861	1.851107	.7094713	69.43651
#3	1.355920	2.083722	12.67462	2.121288	.8349462	70.81992

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.632471	.1218876	.2327979	92.82427	1.098159	.3583926
Stddev	.066665	.0096261	.0301571	1.38635	.028184	.0319461
%RSD	1.439077	7.897515	12.95420	1.493522	2.566505	8.913711

#1	4.690819	.1136236	.2020795	94.20972	1.069746	.3255281
#2	4.559813	.1195821	.2339538	91.43701	1.098624	.3603164
#3	4.646781	.1324571	.2623604	92.82609	1.126109	.3893333

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.694833	746.9136	3.432164	22.21839	1.053565	.0661150
Stddev	.035250	7.0967	.046512	.35186	.076993	.0057721
%RSD	.7508231	.9501354	1.355184	1.583652	7.307897	8.730461

#1	4.662460	740.4359	3.471186	22.45421	.974046	.0594640
#2	4.689651	754.4990	3.380695	21.81395	1.058893	.0690655
#3	4.732387	745.8059	3.444612	22.38701	1.127756	.0698155

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.508976	.7152030	2.599404	14.58347	^ *****	.3215056
Stddev	.211732	.0245520	.014703	.75933	-----	.0643404
%RSD	4.695800	3.432875	.5656350	5.206809	-----	20.01223

#1	4.324269	.7103557	2.582565	13.95002	^ ----	.2568049
#2	4.462609	.6934362	2.605954	14.37518	^ ----	.3222323
#3	4.740049	.7418172	2.609695	15.42521	^ ----	.3854796

Sample Name: Q2832-09A Acquired: 8/13/2025 17:21:38 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.372272	4.601499	F 23.90945	12.51223	16.43532	.1980737
Stddev	.114286	.072106	.27155	.83359	.00747	.0151214
%RSD	8.328216	1.567008	1.135724	6.662195	.0454517	7.634209

#1	1.256868	4.672512	23.81763	11.65716	16.44369	.1887128
#2	1.374543	4.528348	23.69571	12.55698	16.42935	.1899894
#3	1.485406	4.603637	24.21500	13.32254	16.43291	.2155188

Elem	Sr4077
Units	ppm
Avg	.1424456
Stddev	.0235271
%RSD	16.51654

#1	.1497213
#2	.1161401
#3	.1614753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5620.810	102601.2	12830.37	4220.805	6022.762
Stddev	9.533	496.0	197.68	27.935	11.370
%RSD	.1696006	.4834691	1.540690	.6618498	.1887791

#1	5631.690	103172.4	12630.07	4252.952	6032.775
#2	5613.923	102279.2	13025.31	4202.429	6010.402
#3	5616.817	102351.9	12835.72	4207.033	6025.110

Sample Name: Q2832-03 Acquired: 8/13/2025 17:25:41 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1626718	-.044950	2.901331	.0113233	.0076799	107.0331
Stddev	.0009131	.002201	.002485	.0011094	.0011278	.1487
%RSD	.5613091	4.896287	.0856650	9.797345	14.68514	.1389337

#1	.1620674	-.043398	2.901952	.0107605	.0068426	106.9096
#2	.1622257	-.047469	2.898594	.0126013	.0089624	107.1982
#3	.1637222	-.043984	2.903447	.0106082	.0072348	106.9915

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.342180	.0100555	.0215490	91.33607	.3554494	.1640387
Stddev	.005733	.0001983	.0002829	.29556	.0009108	.0003430
%RSD	.4271696	1.971818	1.312865	.3235961	.2562466	.2090865

#1	1.336715	.0098752	.0214191	91.16521	.3546814	.1638278
#2	1.348149	.0102679	.0213544	91.67736	.3564557	.1638538
#3	1.341678	.0100234	.0218735	91.16565	.3552112	.1644344

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.415705	374.4046	4.642225	68.82118	.4306590	.0152839
Stddev	.002539	.5206	.025842	.17396	.0004056	.0002141
%RSD	.1793361	.1390431	.5566734	.2527693	.0941801	1.400689

#1	1.413366	374.1854	4.630379	68.71613	.4302017	.0151453
#2	1.415344	374.9990	4.671867	69.02198	.4307998	.0155305
#3	1.418405	374.0296	4.624430	68.72543	.4309754	.0151760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.105826	.4579401	2.394720	16.90506	.1801404	.0186282
Stddev	.020034	.0040814	.006937	.02943	.0040195	.0002939
%RSD	.6450465	.8912558	.2896717	.1741122	2.231325	1.577554

#1	3.086806	.4605128	2.386730	16.90812	.1840332	.0186956
#2	3.126739	.4600734	2.398224	16.87422	.1760052	.0183065
#3	3.103933	.4532341	2.399207	16.93285	.1803828	.0188825

Sample Name: Q2832-03 Acquired: 8/13/2025 17:25:41 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469871	4.236024	F 19.24141	7.884509	6.686284	.2050392
Stddev	.0005437	.015620	.01179	.016669	.019307	.0018937
%RSD	.2201162	.3687427	.0612868	.2114176	.2887548	.9235750

#1	.2469709	4.223382	19.24755	7.867977	6.664633	.2037217
#2	.2464518	4.253486	19.22781	7.884235	6.701712	.2072093
#3	.2475387	4.231205	19.24887	7.901313	6.692506	.2041866

Elem	Sr4077
Units	ppm
Avg	.1316666
Stddev	.0011971
%RSD	.9091903

#1	.1307562
#2	.1330226
#3	.1312210

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5826.036	106127.5	13161.55	4380.642	6080.832
Stddev	1.998	173.7	79.87	6.712	3.922
%RSD	.0342880	.1636373	.6068242	.1532118	.0645058

#1	5828.302	106249.0	13196.96	4387.789	6079.315
#2	5824.531	105928.6	13070.10	4379.665	6077.894
#3	5825.275	106204.9	13217.59	4374.473	6085.287

Sample Name: Q2832-05 Acquired: 8/13/2025 17:29:44 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2126858	-.057857	4.282957	.0139451	.0335319	121.3003
Stddev	.0019287	.001749	.013107	.0017553	.0031425	.3202
%RSD	.9068265	3.023507	.3060271	12.58732	9.371671	.2639832

#1	.2137682	-.058919	4.272536	.0159577	.0318303	120.9475
#2	.2104591	-.058813	4.278661	.0127306	.0316071	121.3807
#3	.2138302	-.055838	4.297672	.0131471	.0371582	121.5726

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590818	.0130006	.0380501	110.6571	.5647292	.2828633
Stddev	.005156	.0001815	.0002907	.4541	.0018050	.0004283
%RSD	.3241147	1.396267	.7639067	.4103734	.3196276	.1514286

#1	1.587617	.0128747	.0377186	110.1767	.5640809	.2824898
#2	1.588071	.0129184	.0382611	110.7151	.5667689	.2827692
#3	1.596766	.0132087	.0381707	111.0794	.5633379	.2833308

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.691837	460.9497	5.820541	59.12875	.9273159	.0196940
Stddev	.005993	3.9806	.024032	.35432	.0007433	.0020895
%RSD	.2226420	.8635619	.4128816	.5992302	.0801554	10.60966

#1	2.687146	465.3190	5.799810	58.74183	.9264609	.0220597
#2	2.689776	457.5292	5.814931	59.20704	.9278088	.0181007
#3	2.698588	460.0011	5.846881	59.43737	.9276779	.0189216

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.517837	.6174950	4.542601	16.84459	^ *****	.0357038
Stddev	.020786	.0030618	.008406	.12361	----	.0000305
%RSD	.5908689	.4958465	.1850524	.7338042	----	.0855315

#1	3.541401	.6158658	4.534028	16.98531	^ ----	.0356687
#2	3.502102	.6155922	4.542945	16.79484	^ ----	.0357189
#3	3.510010	.6210269	4.550830	16.75360	^ ----	.0357239

Sample Name: Q2832-05 Acquired: 8/13/2025 17:29:44 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3751083	4.722835	F 16.55943	9.668054	7.132989	.1928392
Stddev	.0008599	.010028	.06524	.034766	.026547	.0006657
%RSD	.2292346	.2123258	.3939742	.3595925	.3721711	.3452232

#1	.3746766	4.714886	16.63477	9.628463	7.114119	.1928131
#2	.3745498	4.719517	16.52225	9.693602	7.121502	.1921869
#3	.3760985	4.734101	16.52129	9.682096	7.163345	.1935176

Elem	Sr4077
Units	ppm
Avg	.2481124
Stddev	.0045657
%RSD	1.840181

#1	.2428407
#2	.2508022
#3	.2506943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5823.194	105927.7	13328.79	4359.507	5932.021
Stddev	11.052	238.7	89.02	8.220	12.536
%RSD	.1897862	.2253476	.6678530	.1885546	.2113249

#1	5834.597	105724.1	13430.54	4367.349	5946.405
#2	5822.456	105868.6	13290.55	4360.216	5926.230
#3	5812.531	106190.4	13265.29	4350.955	5923.427

Sample Name: Q2832-07 Acquired: 8/13/2025 17:33:52 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2874679	-.074721	5.144197	.0215084	.0524381	124.3803
Stddev	.0020538	.002733	.007669	.0030139	.0031983	1.4720
%RSD	.7144624	3.658272	.1490853	14.01263	6.099166	1.183478

#1	.2895074	-.072481	5.135585	.0243156	.0487922	125.1856
#2	.2854000	-.077767	5.150291	.0218863	.0547708	125.2740
#3	.2874963	-.073915	5.146714	.0183235	.0537512	122.6813

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.813869	.0184552	.0544729	113.3056	2.632413	.6104101
Stddev	.040298	.0003123	.0003477	1.5592	.007636	.0002514
%RSD	1.432127	1.692026	.6382394	1.376103	.2900609	.0411815

#1	2.834766	.0185176	.0541860	113.9965	2.641016	.6101422
#2	2.839427	.0187316	.0543731	114.4000	2.629786	.6104473
#3	2.767415	.0181164	.0548595	111.5203	2.626438	.6106408

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.832450	607.0410	6.708830	75.61339	3.130719	.0245451
Stddev	.010228	2.2118	.102984	.86820	.002805	.0008809
%RSD	.2116464	.3643657	1.535057	1.148210	.0895824	3.588910

#1	4.828448	608.2188	6.756525	75.98023	3.127686	.0244057
#2	4.844074	604.4895	6.779321	76.23796	3.133219	.0237423
#3	4.824829	608.4147	6.590645	74.62198	3.131253	.0254874

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.064338	1.176196	6.873469	19.20966	^ *****	.0838391
Stddev	.043165	.013767	.017816	.11828	----	.0005608
%RSD	.7117840	1.170493	.2591924	.6157240	----	.6688854

#1	6.111612	1.184914	6.893858	19.34523	^ ----	.0842109
#2	6.027023	1.183350	6.860910	19.15620	^ ----	.0841124
#3	6.054380	1.160325	6.865638	19.12755	^ ----	.0831941

Sample Name: Q2832-07 Acquired: 8/13/2025 17:33:52 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6535547	5.980799	F 35.79728	10.40630	8.317878	.2265325
Stddev	.0022558	.076062	.28656	.03251	.043347	.0016299
%RSD	.3451592	1.271774	.8005136	.3123787	.5211265	.7194833

#1	.6516619	6.018318	36.08968	10.37973	8.271971	.2269559
#2	.6560508	6.030813	35.78524	10.44255	8.323560	.2279090
#3	.6529516	5.893267	35.51693	10.39663	8.358104	.2247328

Elem	Sr4077
Units	ppm
Avg	.1053842
Stddev	.0114699
%RSD	10.88392

#1	.1096276
#2	.1141278
#3	.0923972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5800.960	105871.8	13566.87	4326.345	5832.947
Stddev	9.265	364.7	163.06	12.800	6.220
%RSD	.1597230	.3444390	1.201909	.2958535	.1066441

#1	5791.743	105456.2	13525.45	4313.945	5826.173
#2	5800.862	106138.4	13428.51	4339.510	5838.402
#3	5810.274	106020.8	13746.64	4325.579	5834.267

Sample Name: PB169215BS Acquired: 8/13/2025 17:42:07 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8098559	2.163288	.9703870	2.078532	.8419443	2.020039
Stddev	.0021268	.006551	.0020778	.013014	.0025158	.016636
%RSD	.2626112	.3028119	.2141175	.6261072	.2988040	.8235413

#1	.8076511	2.164087	.9689917	2.066937	.8420725	2.037694
#2	.8100216	2.169403	.9693944	2.076053	.8393669	2.017766
#3	.8118949	2.156375	.9727749	2.092608	.8443936	2.004656

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1892723	.2017506	.1923842	1.033484	.4157631	.1985200
Stddev	.0017982	.0016368	.0004945	.021898	.0005109	.0006279
%RSD	.9500428	.8112796	.2570582	2.118841	.1228838	.3162666

#1	.1912906	.2036224	.1918542	1.058335	.4152032	.1978224
#2	.1886852	.2010412	.1924650	1.017015	.4158823	.1986979
#3	.1878411	.2005883	.1928334	1.025102	.4162039	.1990397

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3164279	3.063915	.2036323	2.018439	.5003844	.0773759
Stddev	.0005911	.007467	.0020322	.025195	.0013786	.0002532
%RSD	.1867989	.2436933	.9979807	1.248248	.2755112	.3272504

#1	.3159403	3.059599	.2057227	2.040085	.4989993	.0770885
#2	.3162583	3.072537	.2035106	1.990782	.5003976	.0775663
#3	.3170853	3.059609	.2016637	2.024449	.5017565	.0774728

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.790608	.3086457	.2094068	9.889119	.2942874	.4272990
Stddev	.019448	.0019316	.0003615	.040434	.0023908	.0008186
%RSD	.6969171	.6258194	.1726331	.4088703	.8124165	.1915649

#1	2.807110	.3094516	.2096575	9.894204	.2965155	.4266514
#2	2.769166	.3100438	.2089924	9.846383	.2945849	.4270266
#3	2.795549	.3064417	.2095706	9.926769	.2917617	.4282190

Sample Name: PB169215BS Acquired: 8/13/2025 17:42:07 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6897690	.1990584	.9339743	5.416043	F .0019589	.1915965
Stddev	.0027190	.0023859	.0106976	.021028	.0011814	.0013790
%RSD	.3941916	1.198589	1.145383	.3882599	60.31055	.7197359
#1	.6867652	.2015360	.9275689	5.392761	.0010165	.1931535
#2	.6904800	.1988631	.9280301	5.421713	.0015759	.1905292
#3	.6920619	.1967762	.9463240	5.433655	.0032843	.1911067

Elem	Sr4077
Units	ppm
Avg	.1958461
Stddev	.0015679
%RSD	.8005777
#1	.1976450
#2	.1951235
#3	.1947698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5643.099	101499.1	11437.82	4238.110	7221.228
Stddev	14.629	143.0	102.85	18.419	17.611
%RSD	.2592284	.1408958	.8992056	.4345984	.2438769
#1	5659.783	101347.7	11319.08	4217.177	7241.518
#2	5632.472	101631.9	11495.16	4251.832	7212.258
#3	5637.041	101517.8	11499.21	4245.322	7209.909

Sample Name: CCV07 Acquired: 8/13/2025 17:46:06 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.061751	5.358708	4.884184	5.158125	5.121728	9.835716	9.846023
Stddev	.006174	.049189	.004860	.013048	.013897	.016428	.125289
%RSD	.1219640	.9179269	.0994963	.2529624	.2713388	.1670220	1.272483

#1	5.061243	5.363418	4.885294	5.146779	5.114275	9.854138	9.978686
#2	5.055847	5.307334	4.888392	5.155214	5.113147	9.822589	9.829669
#3	5.068162	5.405373	4.878865	5.172383	5.137762	9.830419	9.729715

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2412303	2.444688	24.56440	1.005668	2.448709	1.252828	5.139318
Stddev	.0014978	.003691	.06028	.002626	.002727	.001636	.032814
%RSD	.6208869	.1509783	.2453991	.2611341	.1113816	.1305542	.6384872

#1	.2429523	2.445921	24.63349	1.004971	2.450829	1.252413	5.108507
#2	.2405088	2.447604	24.53718	1.003461	2.449667	1.251440	5.135624
#3	.2402298	2.440538	24.52253	1.008572	2.445632	1.254631	5.173822

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.426538	24.43010	2.462730	1.255634	23.63989	2.492681	2.532925
Stddev	.008475	.08315	.003602	.001815	.13670	.003999	.004493
%RSD	.3492821	.3403772	.1462586	.1445167	.5782662	.1604231	.1773659

#1	2.436291	24.52612	2.464274	1.256361	23.58539	2.497180	2.538045
#2	2.420961	24.38187	2.465302	1.253569	23.53884	2.491332	2.531089
#3	2.422362	24.38230	2.458613	1.256973	23.79543	2.489532	2.529642

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.81823	4.789741	5.140567	4.939621	4.920080	5.230056	4.702327
Stddev	.14336	.026219	.010365	.008277	.007624	.051728	.003153
%RSD	.5776378	.5473900	.2016318	.1675685	.1549586	.9890547	.0670513

#1	24.73653	4.819353	5.137956	4.936586	4.927466	5.179097	4.698751
#2	24.73439	4.780386	5.131757	4.948988	4.912238	5.228550	4.703520
#3	24.98376	4.769482	5.151987	4.933290	4.920535	5.282520	4.704709

Sample Name: CCV07 Acquired: 8/13/2025 17:46:06 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.856117	4.514361	4.915100
Stddev	.008828	.007981	.010800
%RSD	.1817848	.1767899	.2197312

#1	4.847165	4.520595	4.925030
#2	4.864815	4.505366	4.916670
#3	4.856369	4.517121	4.903602

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5571.628	98750.90	11525.47	4172.309	6754.504
Stddev	9.155	100.03	60.25	10.100	14.252
%RSD	.1643132	.1012949	.5227922	.2420781	.2110032

#1	5565.641	98859.18	11469.48	4166.065	6738.047
#2	5582.167	98731.60	11517.71	4166.900	6762.660
#3	5567.076	98661.93	11589.23	4183.962	6762.805

Sample Name: CCB07 Acquired: 8/13/2025 17:50:17 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007834	-.000977	-.001403	-.000714	-.000627	-.015122	-.009368
Stddev	.0005179	.001205	.001112	.000675	.000462	.006713	.001339
%RSD	66.10615	123.3274	79.25845	94.55189	73.71355	44.39299	14.28868

#1	.0011536	.000094	-.002684	-.001455	-.000543	-.020681	-.010900
#2	.0001916	-.000744	-.000688	-.000134	-.001126	-.007664	-.008422
#3	.0010050	-.002282	-.000836	-.000554	-.000213	-.017022	-.008784

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000134	-.000105	-.009295	.0000067	-.000172	-.000066	-.002980
Stddev	.0000322	.000086	.004347	.0000791	.000073	.000219	.005712
%RSD	240.2001	82.04779	46.76270	1182.281	42.55719	329.5975	191.6678

#1	-.000023	-.000120	-.005527	.0000899	-.000173	-.000231	-.008596
#2	.000038	-.000182	-.008308	-.000068	-.000244	.000182	.002824
#3	.000025	-.000012	-.014050	-.000002	-.000098	-.000151	-.003169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000295	-.016698	-.000070	.0005424	.0497158	.0018910	-.000262
Stddev	.000317	.014768	.000167	.0001428	.0062732	.0009997	.000092
%RSD	107.4310	88.44412	239.0154	26.32410	12.61808	52.86805	35.20208

#1	.000034	-.030382	-.000262	.0006393	.0461085	.0008380	-.000366
#2	-.000597	-.001043	.000021	.0006094	.0569594	.0028272	-.000190
#3	-.000321	-.018669	.000032	.0003784	.0460794	.0020079	-.000229

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2415448	.0049203	.0000744	-.000227	-.000145	.0051313	.0012769
Stddev	.0327008	.0004377	.0001539	.000141	.000456	.0032052	.0011478
%RSD	13.53821	8.895402	206.7526	62.10962	314.4662	62.46361	89.88482

#1	.2461504	.0050151	-.000102	-.000351	.000305	.0087122	.0025234
#2	.2067853	.0044429	.000143	-.000074	-.000133	.0025309	.0010438
#3	.2716987	.0053027	.000182	-.000255	-.000607	.0041507	.0002636

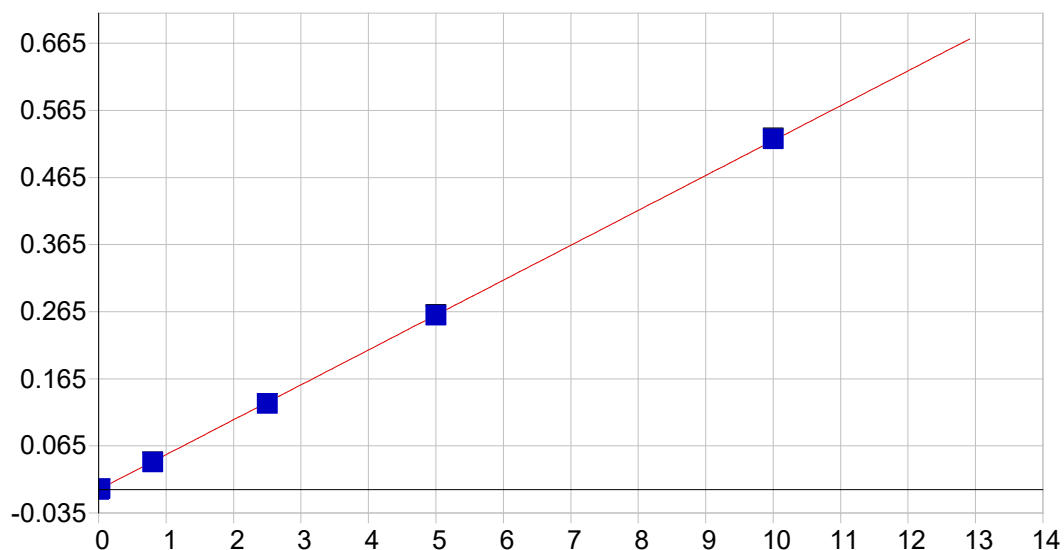
Sample Name: CCB07 Acquired: 8/13/2025 17:50:17 Type: Unk
Method: 6010-200.7 NEW(v96) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002820	-.004491	-.000254
Stddev	.0019750	.001698	.000037
%RSD	700.4355	37.81408	14.61798

#1	-.001986	-.003235	-.000270
#2	.001212	-.003815	-.000212
#3	.001620	-.006423	-.000281

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5764.274	103250.6	11518.18	4320.515	7589.105
Stddev	3.950	84.7	32.77	5.128	11.655
%RSD	.0685278	.0820157	.2844690	.1186836	.1535706

#1	5767.850	103178.1	11496.66	4325.909	7600.862
#2	5760.034	103343.7	11501.99	4319.933	7577.556
#3	5764.937	103230.0	11555.89	4315.703	7588.897

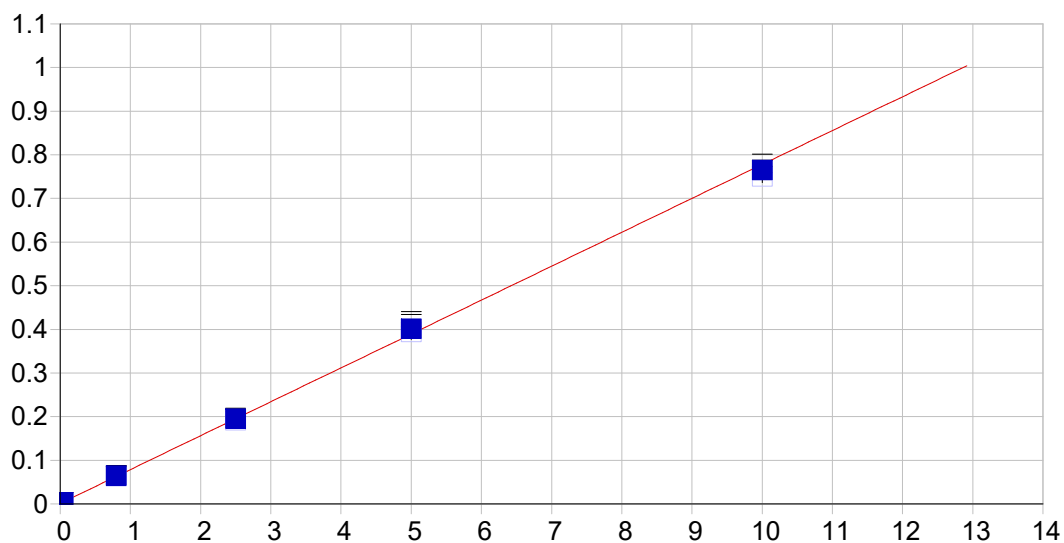


As 189.042 {479}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000098 Re-Slope: 1.000000
A1 (Gain): 0.052011 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999965 Status: OK.
Std Error of Est: 0.000010
Predicted MDL: 0.002142
Predicted MQL: 0.007141

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.02235	.002	11.8	.00106	.000	1
S3	2.5000	2.4617	-.038	-1.53	.12780	.000	1
S4	5.0000	4.9945	-.005	-.109	.25939	.001	1
S5	10.000	10.052	.052	.518	.52214	.001	1
S2	.80000	.78961	-.010	-1.30	.04093	.000	1

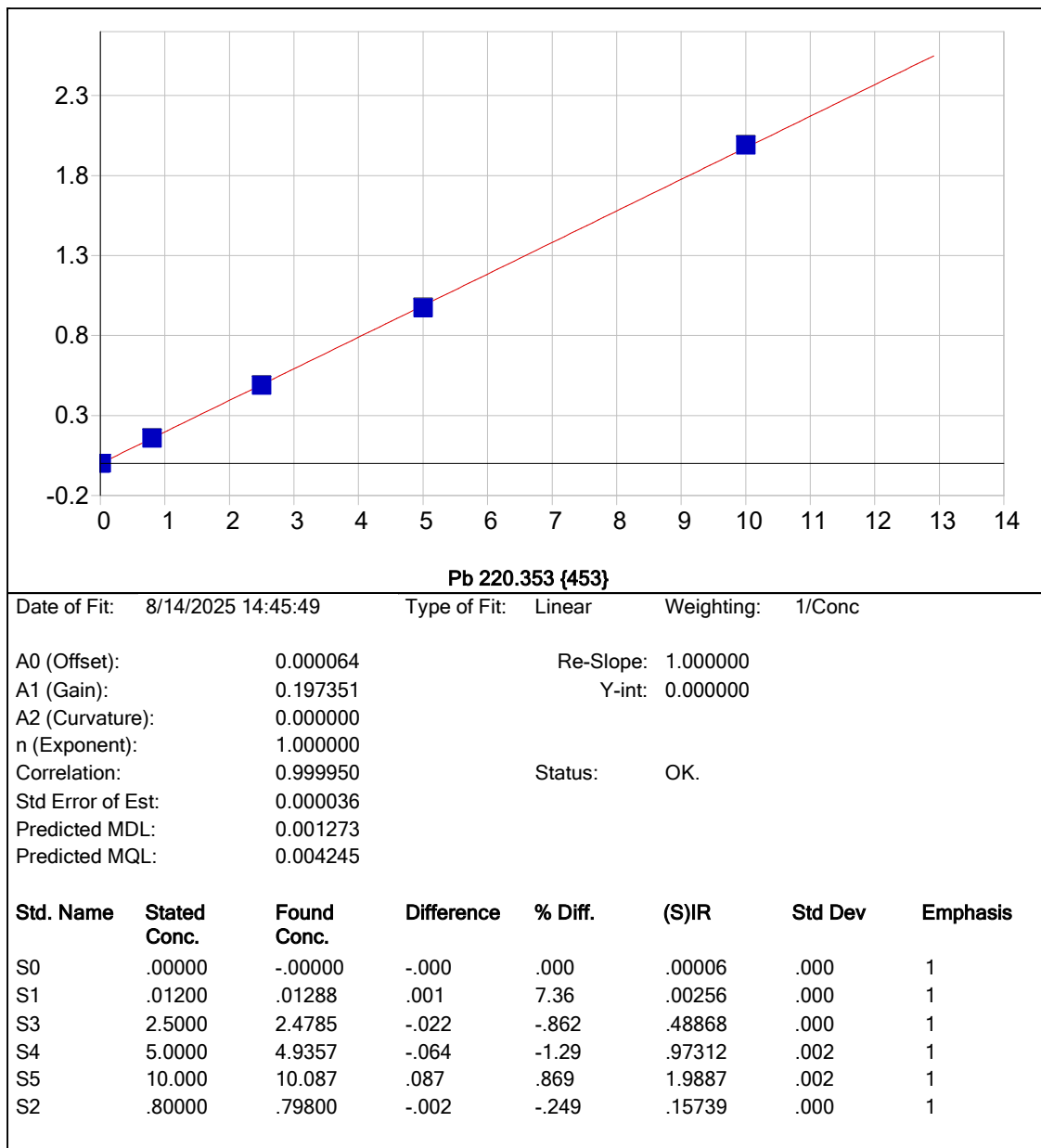


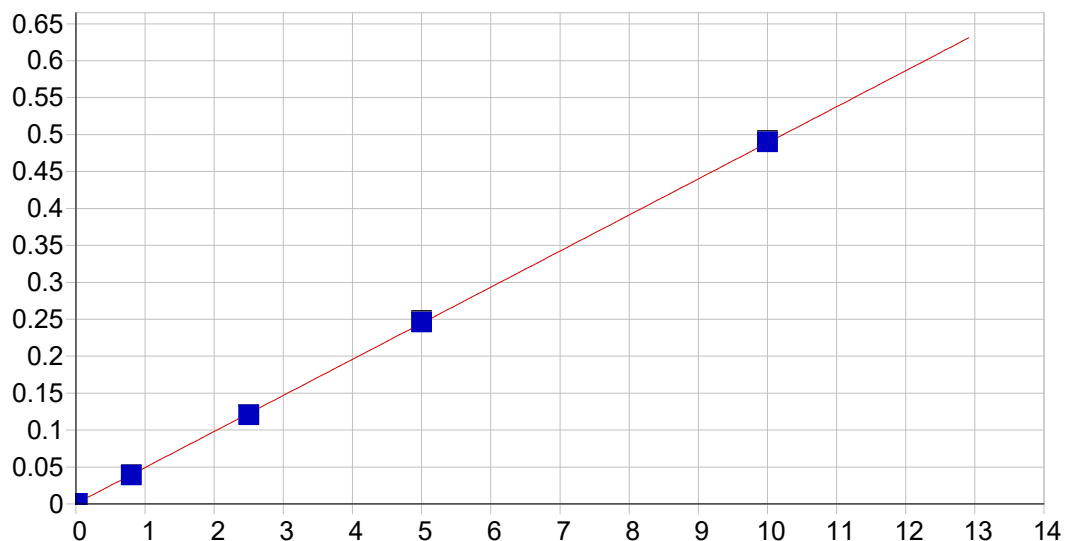
TI 190.856 {477}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000925 Re-Slope: 1.000000
A1 (Gain): 0.077690 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999778 Status: OK.
Std Error of Est: 0.000053
Predicted MDL: 0.001540
Predicted MQL: 0.005133

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00092	.000	1
S1	.04000	.04304	.003	7.60	.00407	.000	1
S3	2.5000	2.5002	.000	.008	.19162	.001	1
S4	5.0000	5.1491	.149	2.98	.39387	.017	1
S5	10.000	9.8313	-.169	-1.69	.75055	.014	1
S2	.80000	.81652	.017	2.07	.06323	.001	1



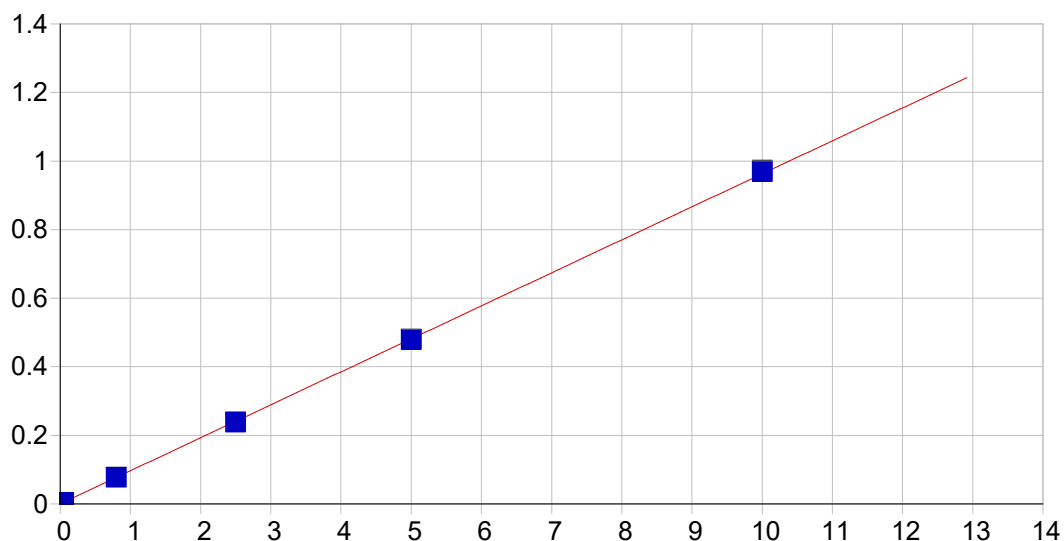


Se 196.090 {472}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000440 Re-Slope: 1.000000
A1 (Gain): 0.048834 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999957 Status: OK.
Std Error of Est: 0.000011
Predicted MDL: 0.002861
Predicted MQL: 0.009537

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00044	.000	1
S1	.02000	.01717	-.003	-14.2	.00128	.000	1
S3	2.5000	2.4569	-.043	-1.72	.12039	.000	1
S4	5.0000	5.0295	.029	.589	.24598	.002	1
S5	10.000	10.028	.028	.280	.49001	.001	1
S2	.80000	.78845	-.012	-1.44	.03893	.000	1

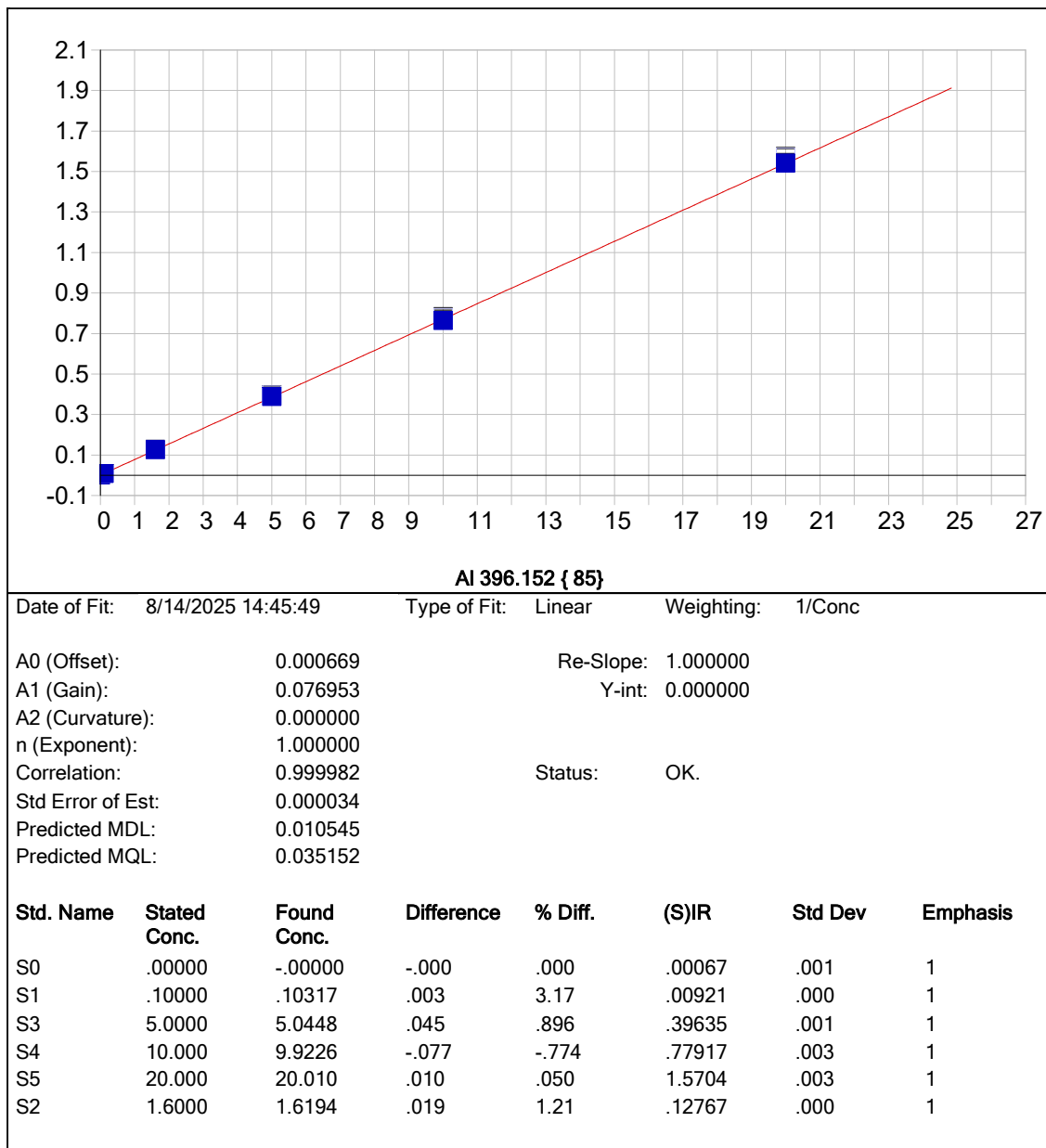


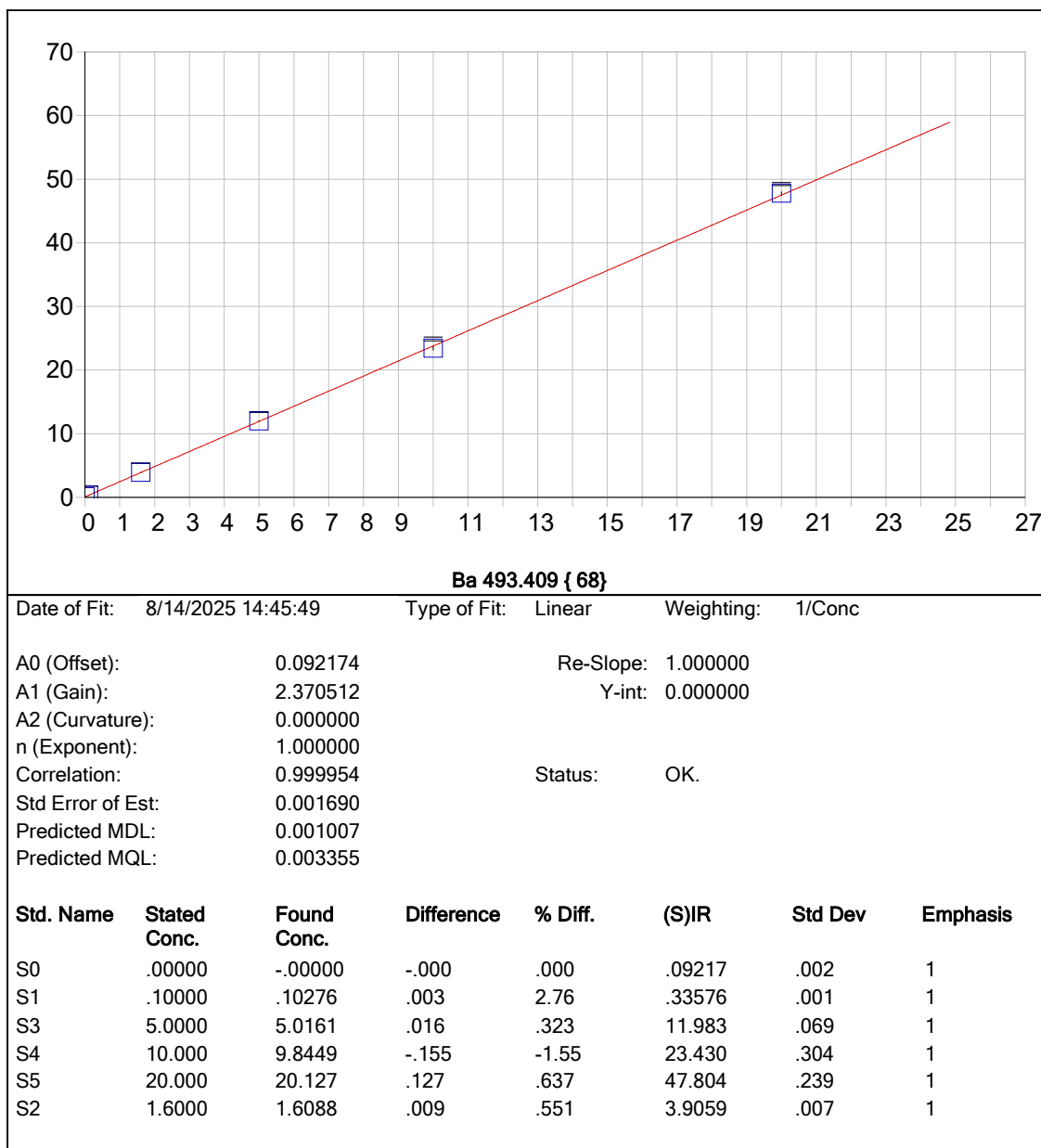
Sb 206.833 {463}

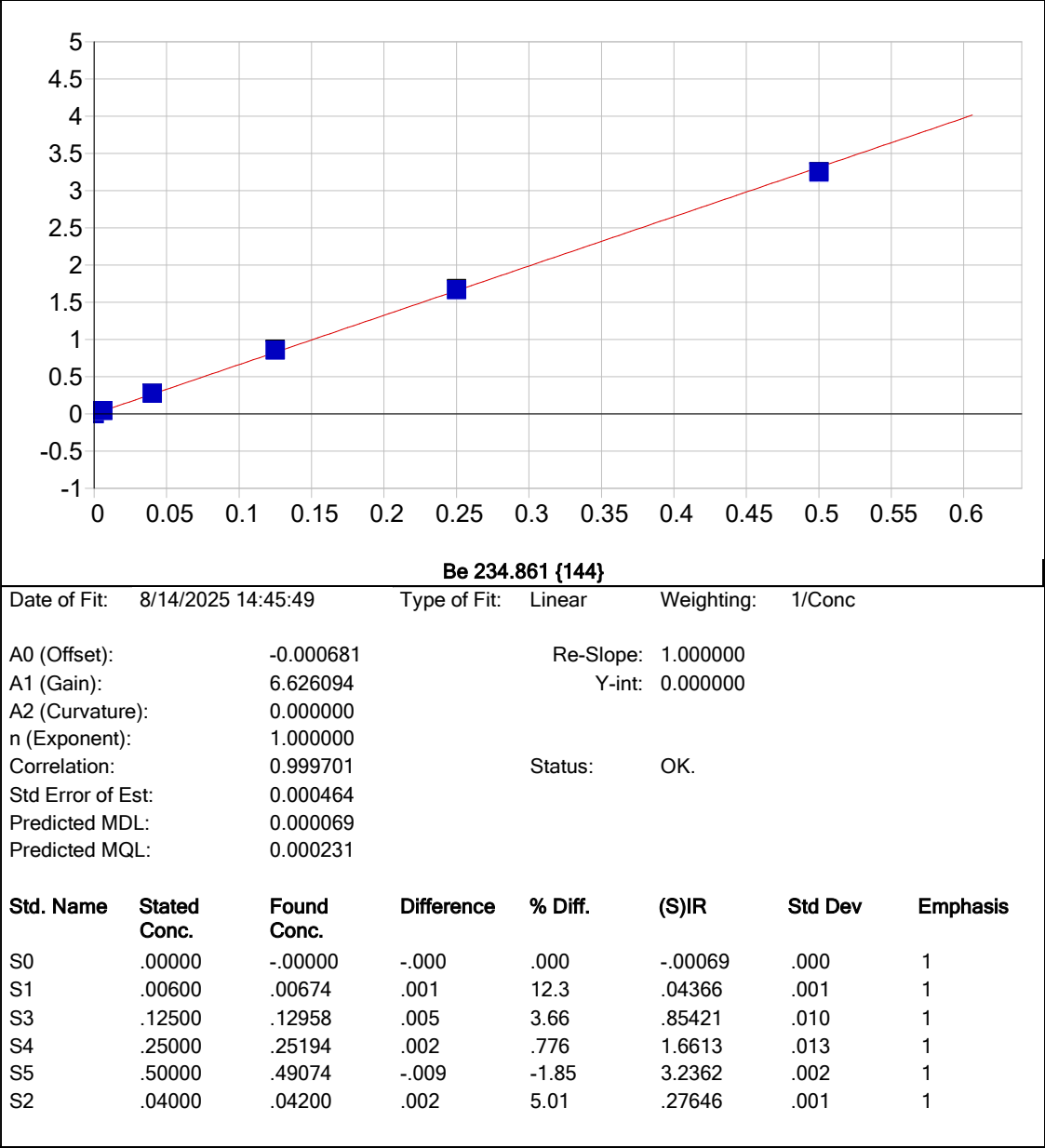
Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

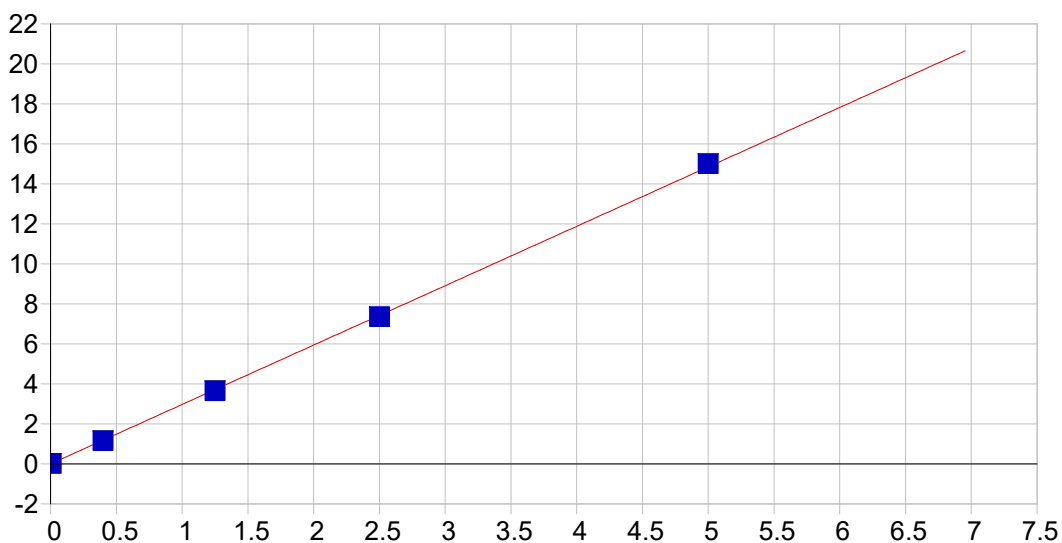
A0 (Offset): 0.000407 Re-Slope: 1.000000
A1 (Gain): 0.096227 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999972 Status: OK.
Std Error of Est: 0.000027
Predicted MDL: 0.001839
Predicted MQL: 0.006130

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00041	.000	1
S1	.05000	.05263	.003	5.25	.00548	.000	1
S3	2.5000	2.4689	-.031	-1.24	.23863	.000	1
S4	5.0000	4.9718	-.028	-.563	.48014	.001	1
S5	10.000	10.059	.059	.595	.97101	.002	1
S2	.80000	.79719	-.003	-.352	.07733	.000	1







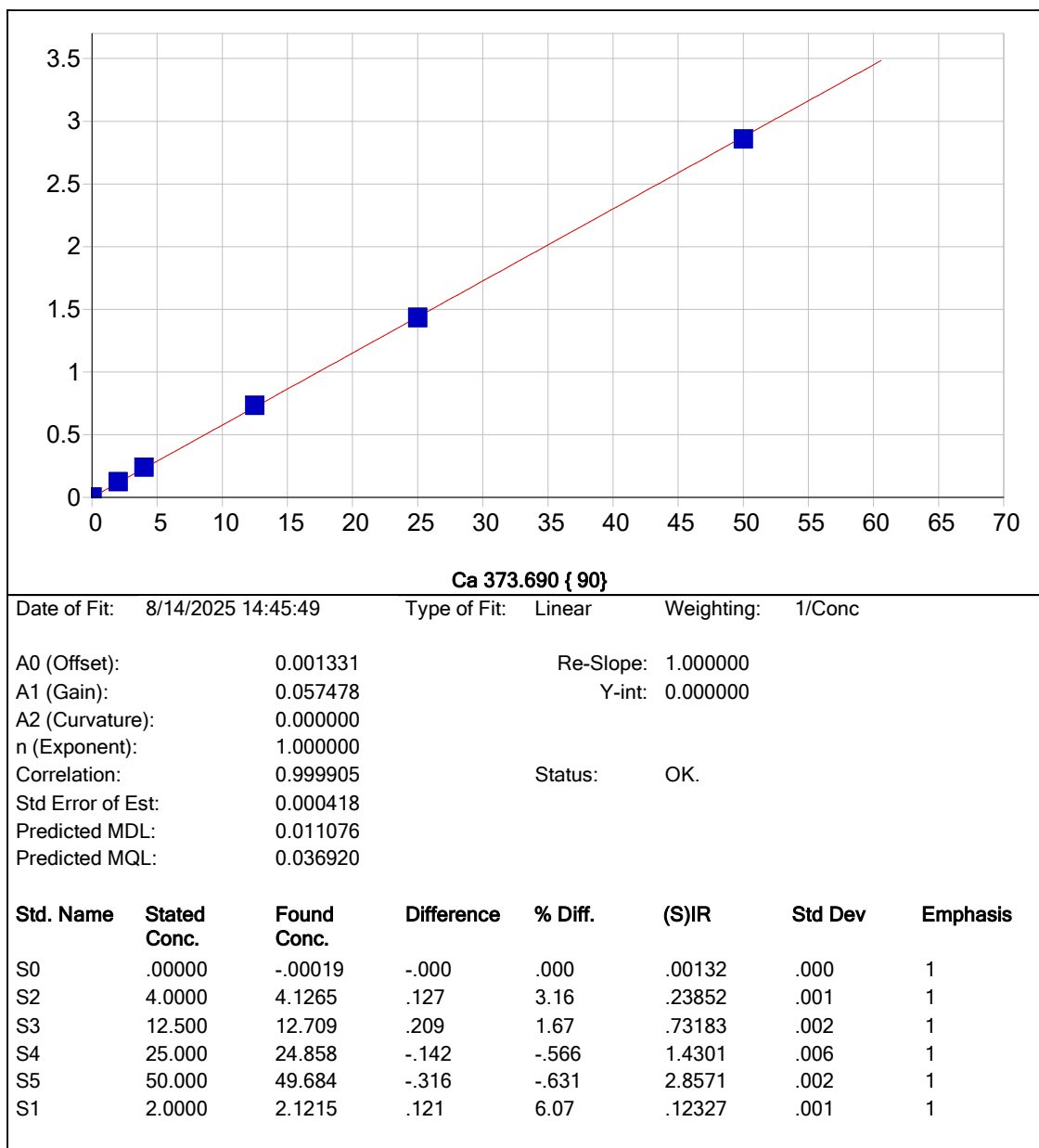


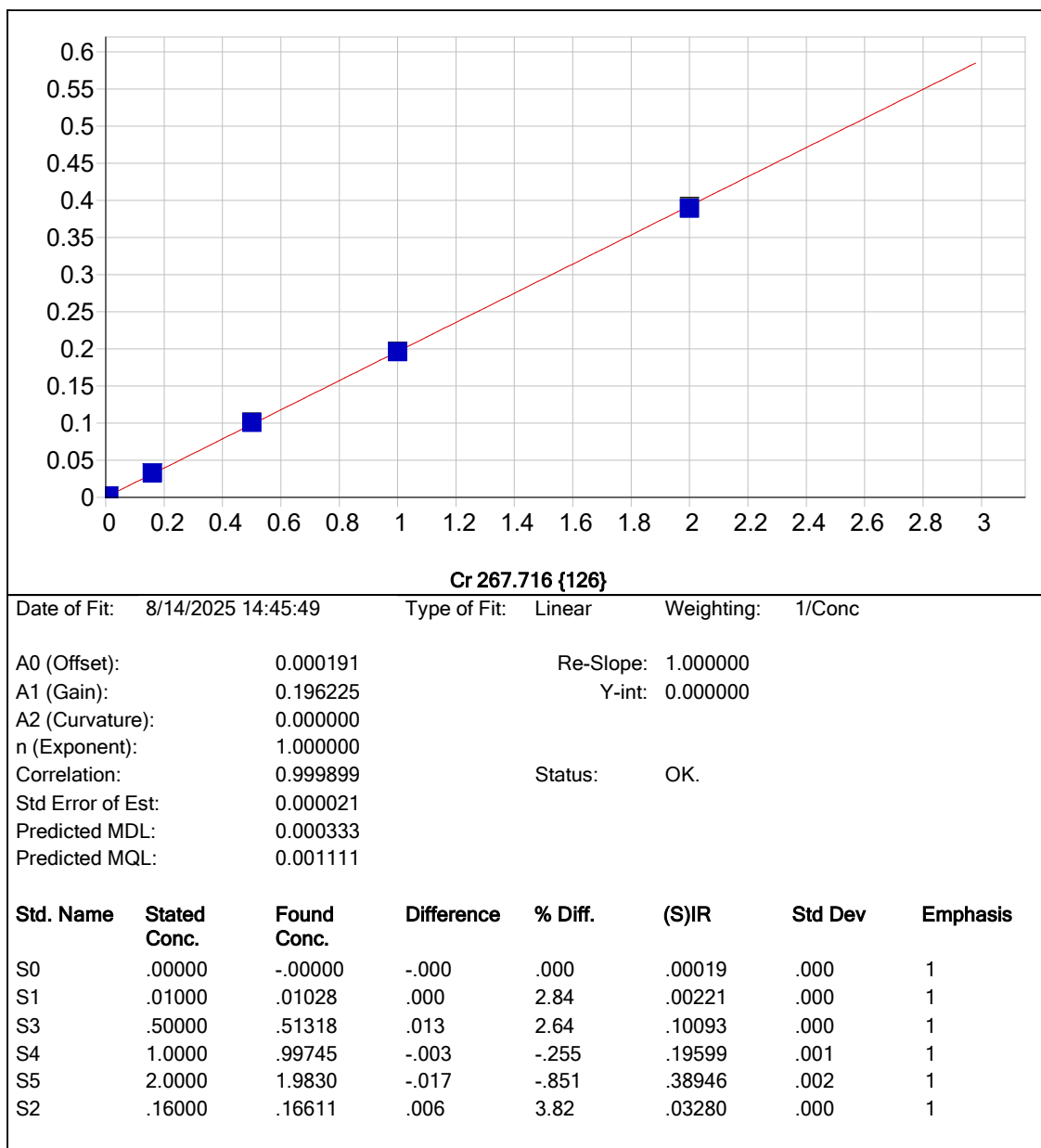
Cd 226.502 {449}

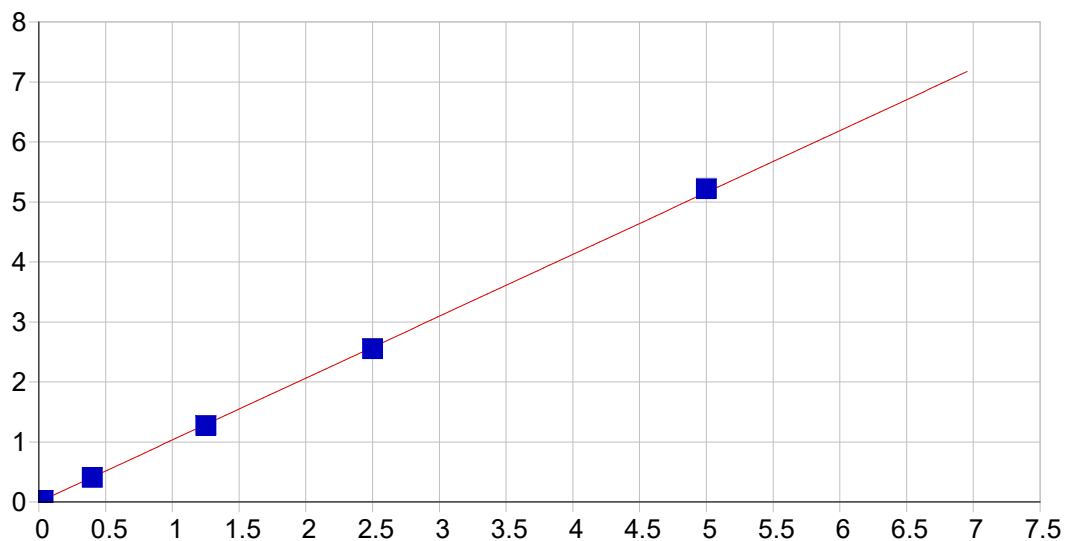
Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000432 Re-Slope: 1.000000
A1 (Gain): 2.970490 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999931 Status: OK.
Std Error of Est: 0.000317
Predicted MDL: 0.000072
Predicted MQL: 0.000241

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00043	.000	1
S1	.00600	.00582	-.000	-3.00	.01692	.000	1
S3	1.2500	1.2296	-.020	-1.63	3.6546	.008	1
S4	2.5000	2.4802	-.020	-.793	7.3718	.011	1
S5	5.0000	5.0506	.051	1.01	15.012	.010	1
S2	.40000	.38977	-.010	-2.56	1.1582	.002	1





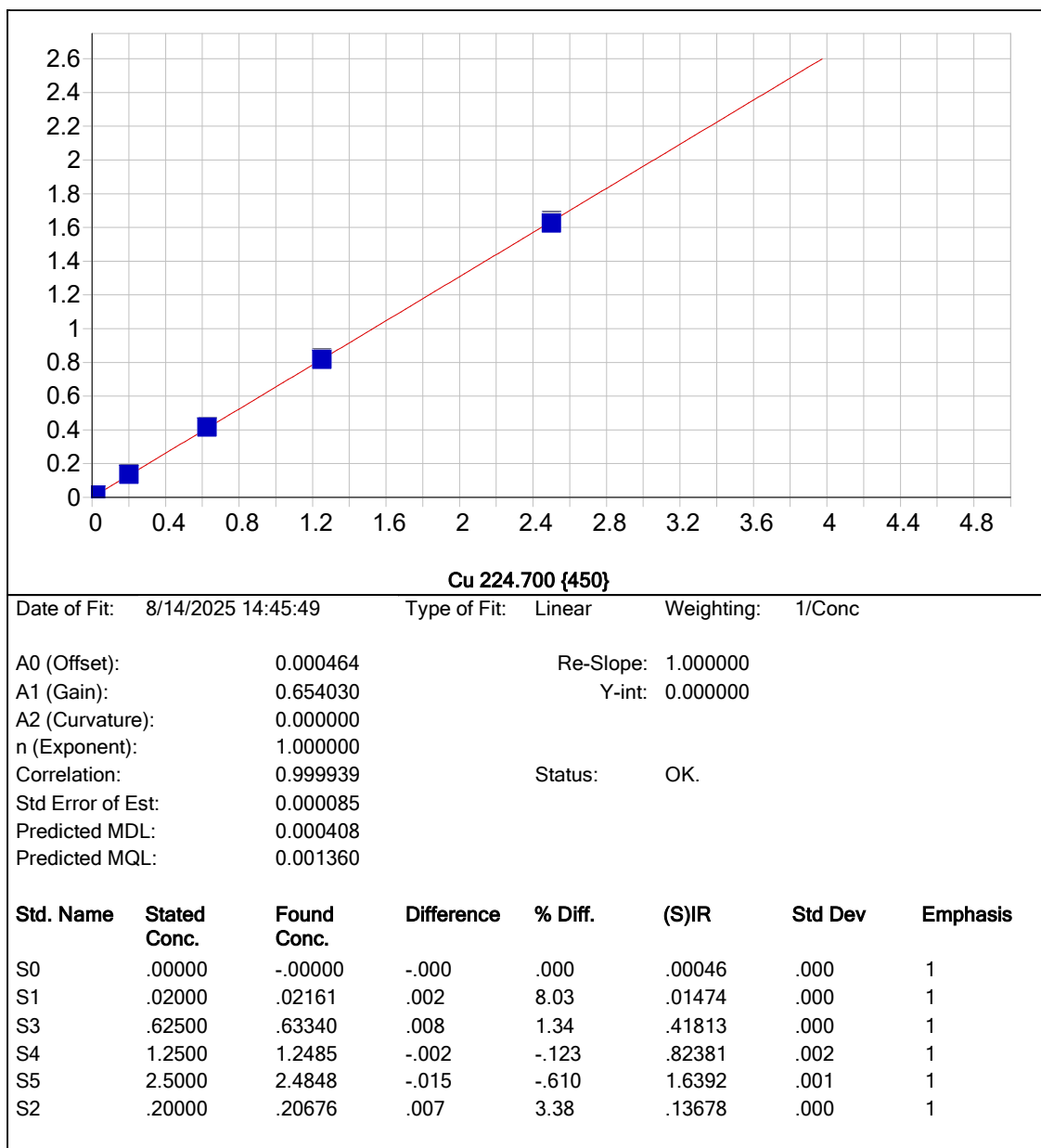


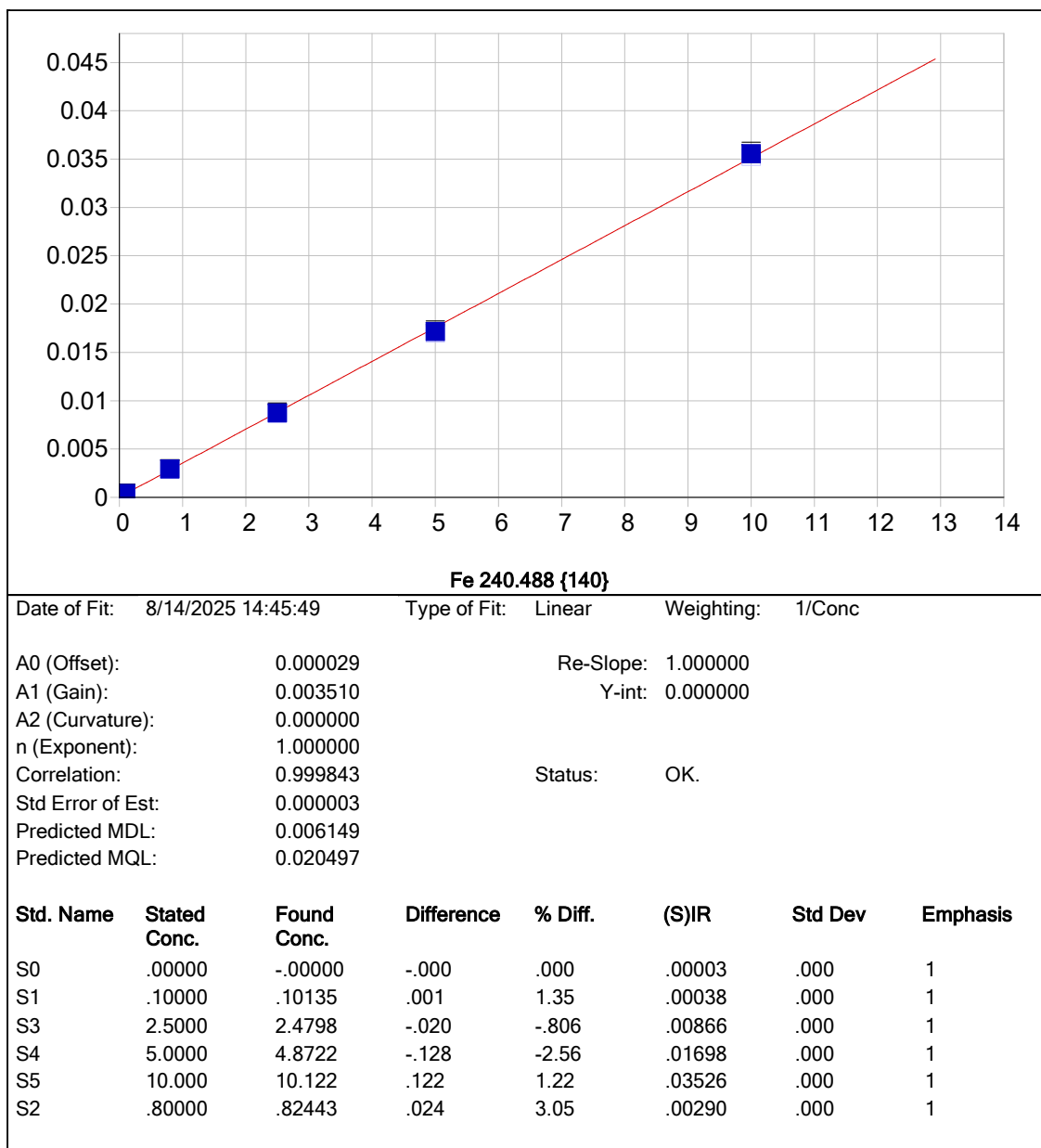
Co 228.616 {448}

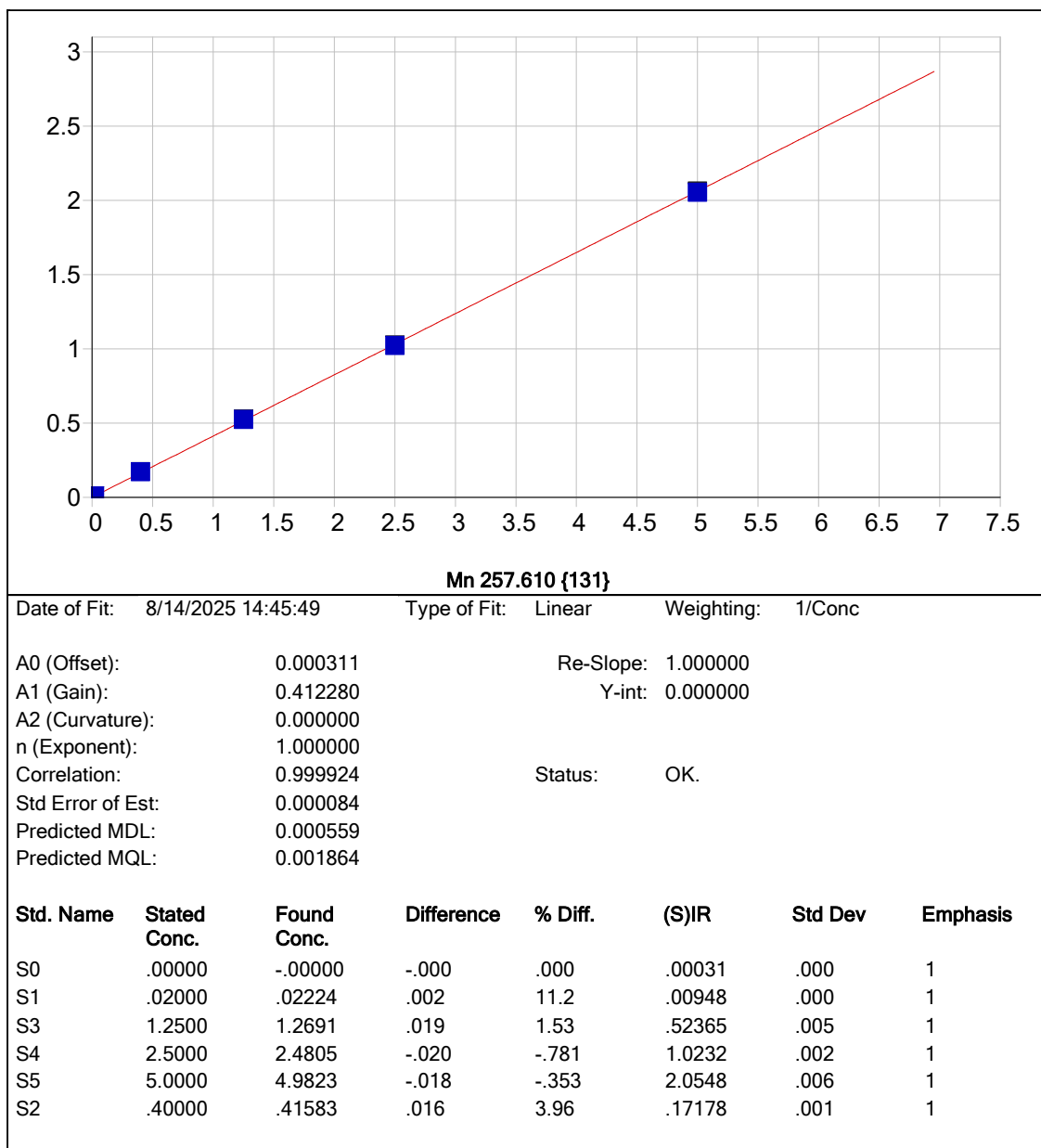
Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

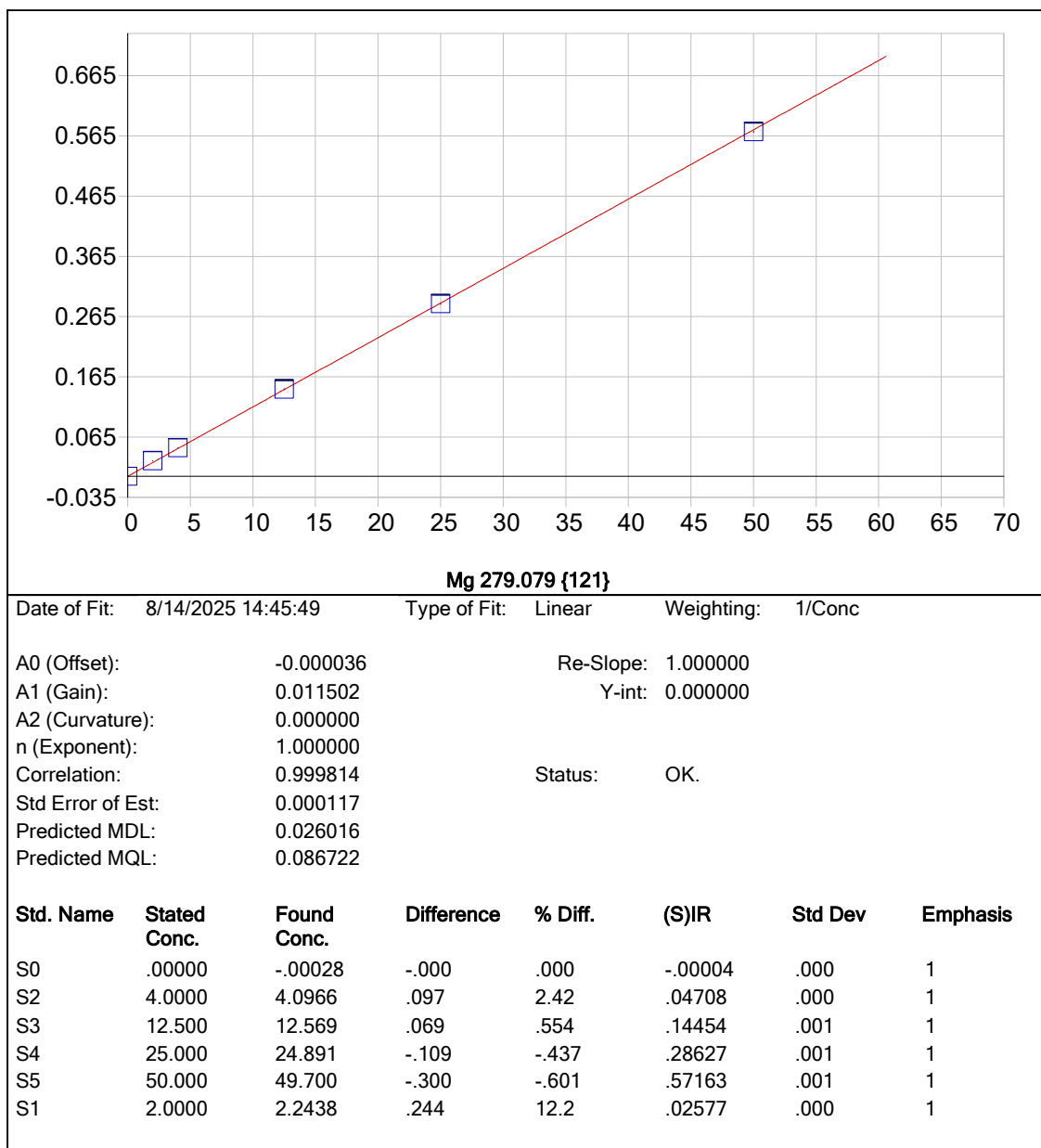
A0 (Offset): 0.000207 Re-Slope: 1.000000
A1 (Gain): 1.031345 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999918 Status: OK.
Std Error of Est: 0.000269
Predicted MDL: 0.000185
Predicted MQL: 0.000616

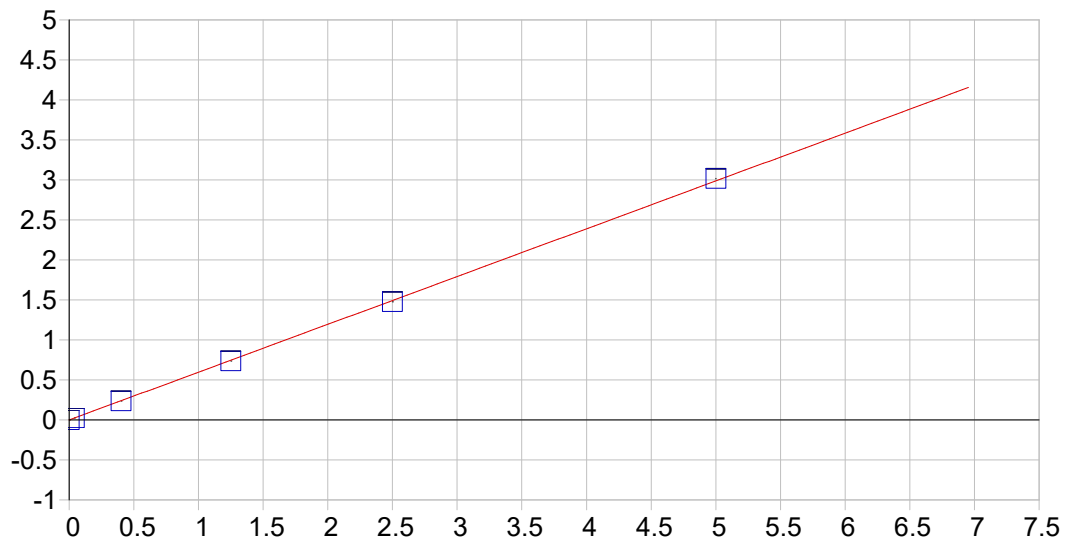
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00021	.000	1
S1	.03000	.03008	.000	.260	.03110	.000	1
S3	1.2500	1.2290	-.021	-1.68	1.2700	.001	1
S4	2.5000	2.4694	-.031	-1.23	2.5513	.003	1
S5	5.0000	5.0582	.058	1.16	5.2257	.002	1
S2	.40000	.39332	-.007	-1.67	.40655	.000	1









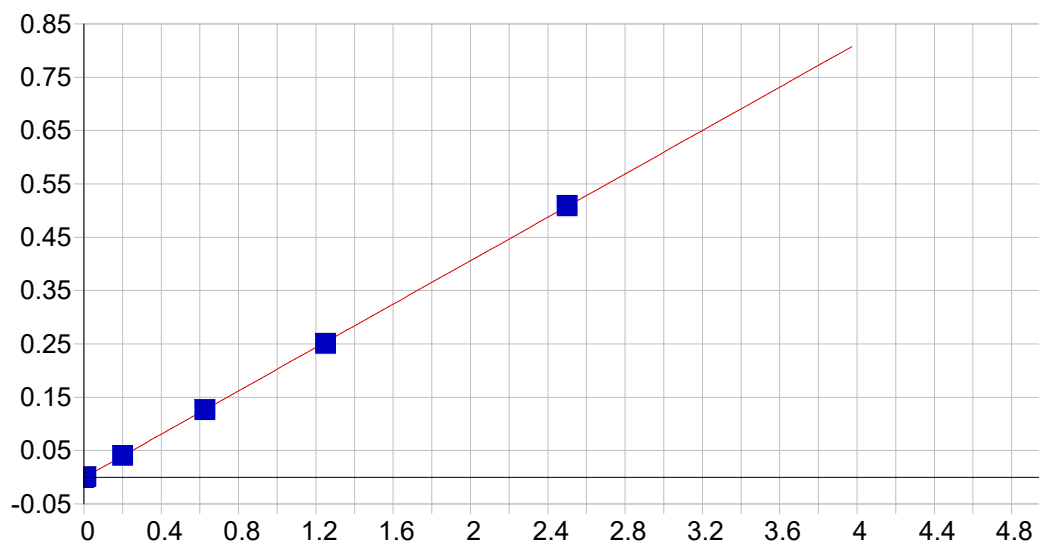


Ni 231.604 {446}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000502 Re-Slope: 1.000000
A1 (Gain): 0.597490 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999946 Status: OK.
Std Error of Est: 0.000146
Predicted MDL: 0.000339
Predicted MQL: 0.001131

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00050	.000	1
S1	.04000	.04015	.000	.375	.02349	.000	1
S3	1.2500	1.2333	-.017	-1.34	.73638	.001	1
S4	2.5000	2.4734	-.027	-1.06	1.4774	.000	1
S5	5.0000	5.0472	.047	.944	3.0151	.004	1
S2	.40000	.39591	-.004	-1.02	.23605	.001	1

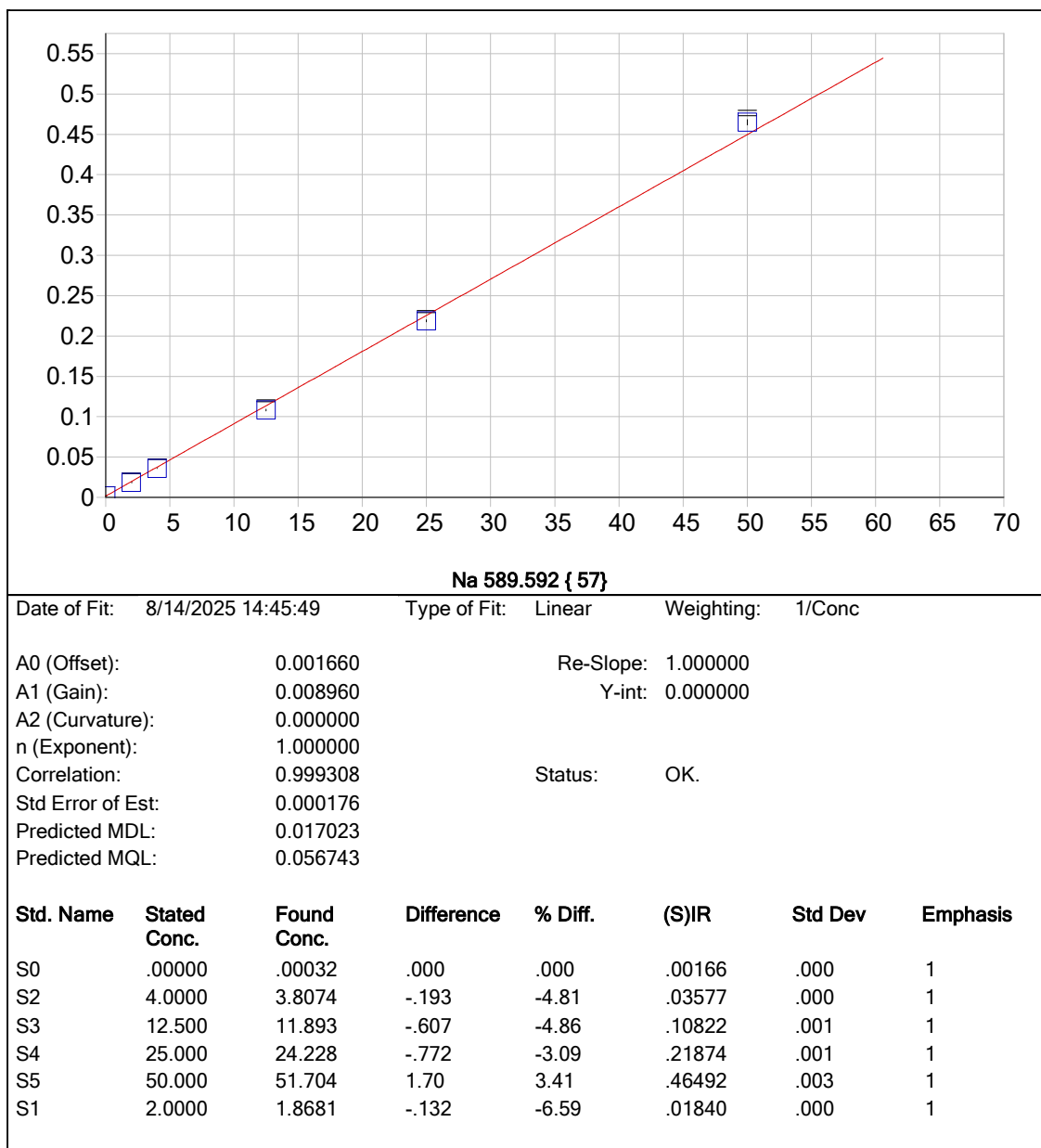


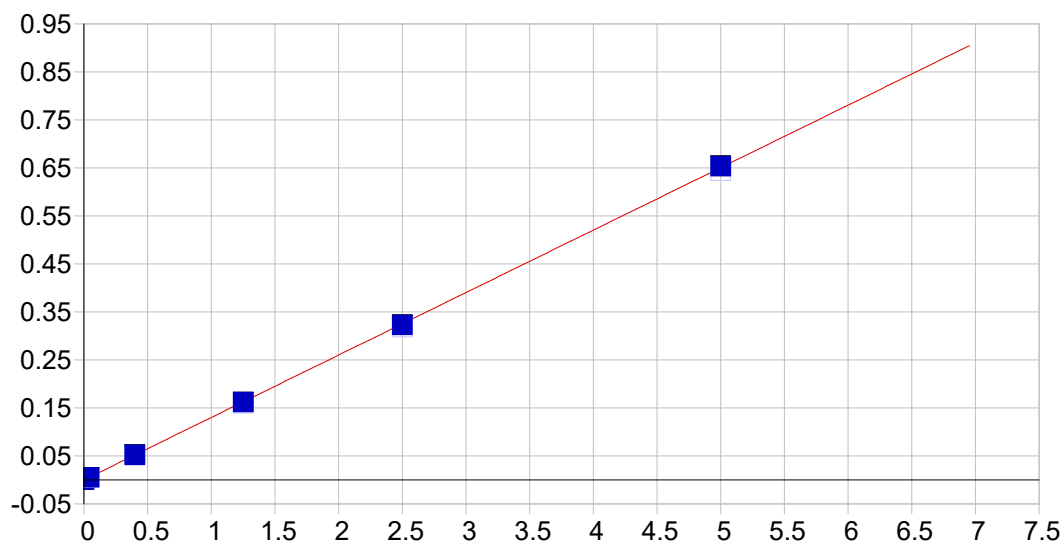
Ag 328.068 {103}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000803 Re-Slope: 1.000000
A1 (Gain): 0.203404 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999976 Status: OK.
Std Error of Est: 0.000012
Predicted MDL: 0.000506
Predicted MQL: 0.001687

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00080	.000	1
S1	.01000	.01027	.000	2.68	.00127	.000	1
S3	.62500	.62622	.001	.195	.12596	.000	1
S4	1.2500	1.2373	-.013	-1.02	.24963	.000	1
S5	2.5000	2.5079	.008	.315	.50684	.001	1
S2	.20000	.20338	.003	1.69	.04037	.000	1



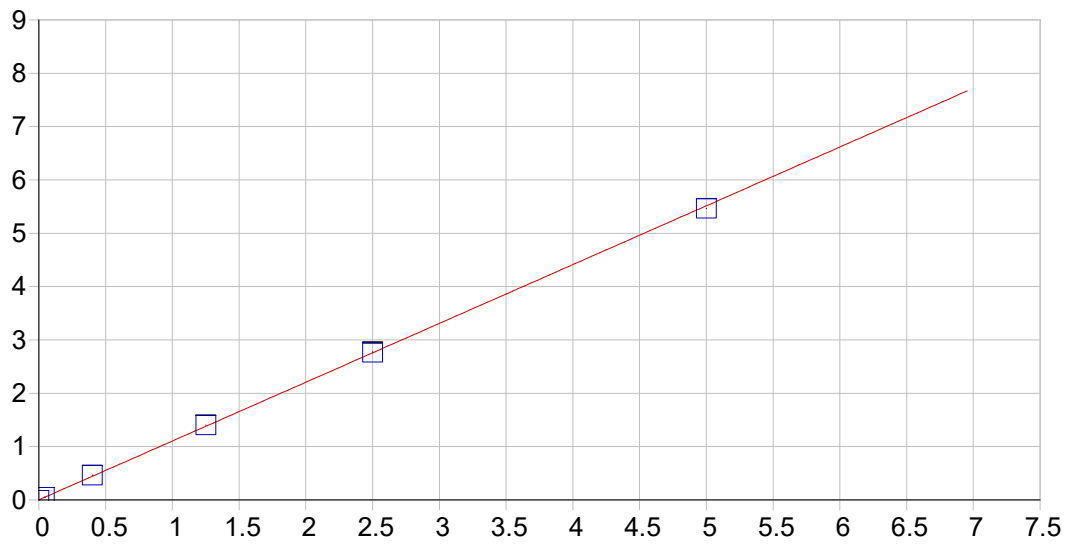


V 292.402 {115}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000056 Re-Slope: 1.000000
A1 (Gain): 0.130168 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999982 Status: OK.
Std Error of Est: 0.000018
Predicted MDL: 0.002687
Predicted MQL: 0.008958

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.04000	.04005	.000	.117	.00496	.000	1
S3	1.2500	1.2436	-.006	-.514	.15945	.000	1
S4	2.5000	2.4804	-.020	-.786	.31806	.001	1
S5	5.0000	5.0236	.024	.472	.64436	.001	1
S2	.40000	.40244	.002	.609	.05157	.000	1

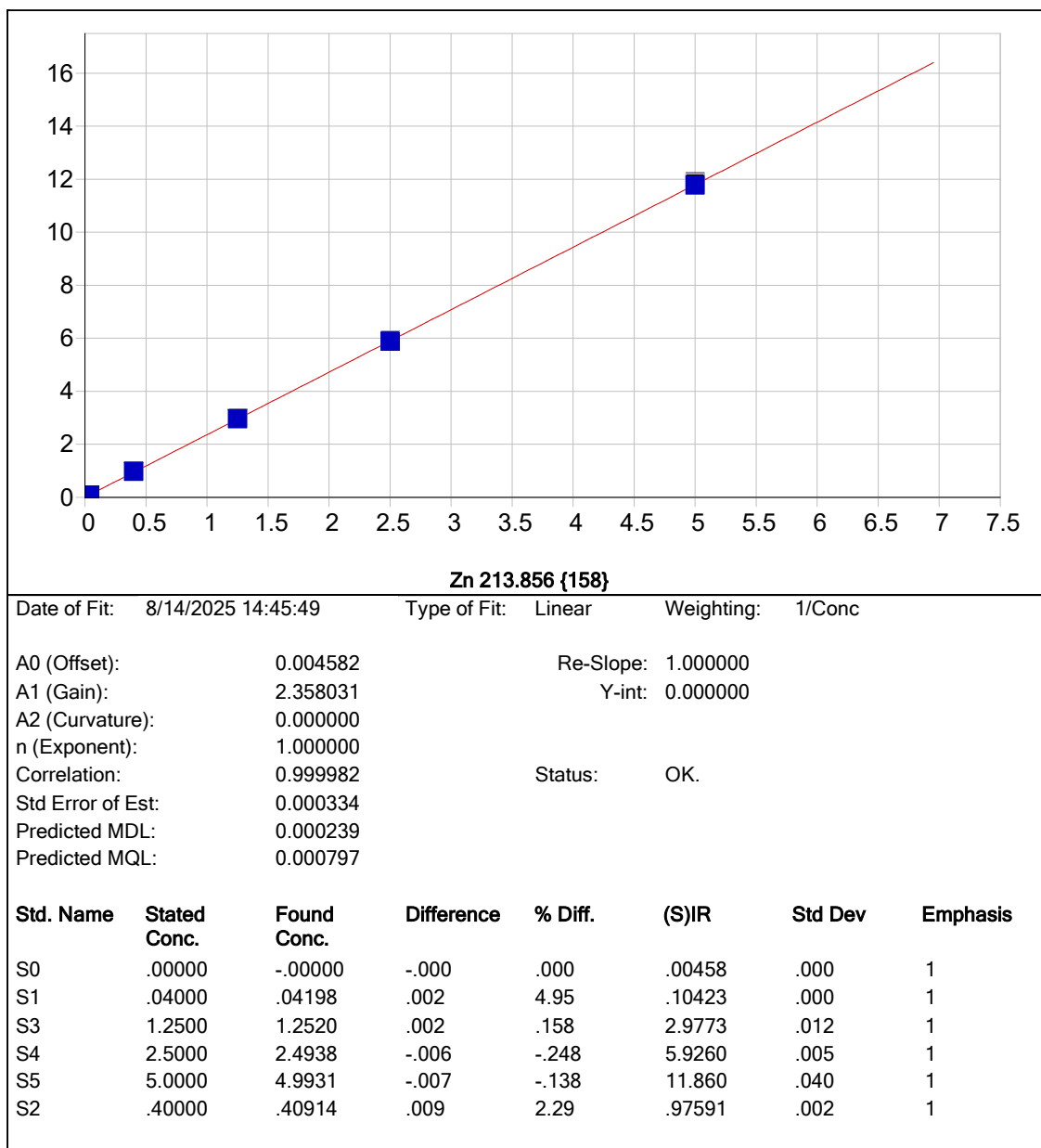


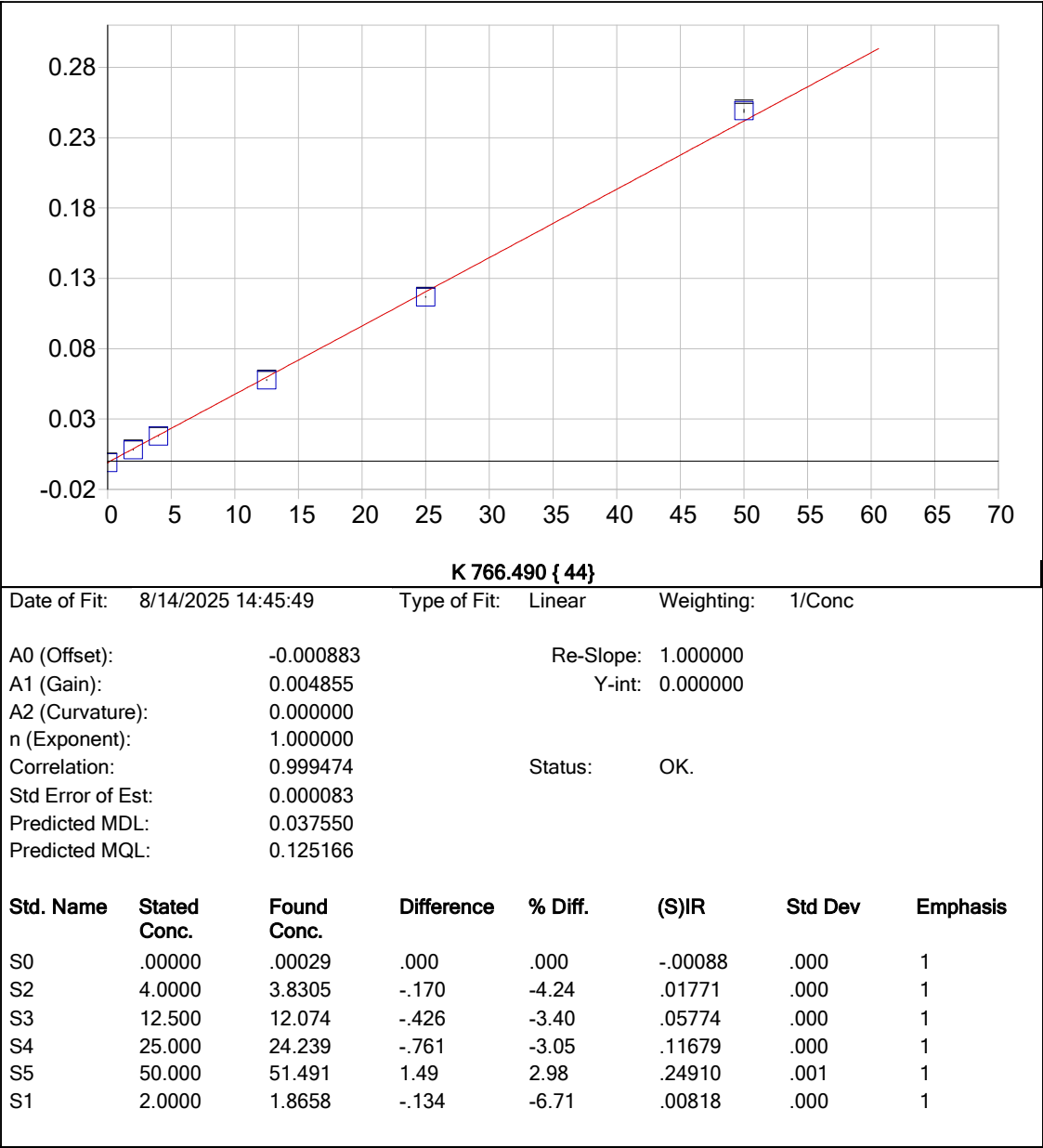
Zn 206.200 {464}

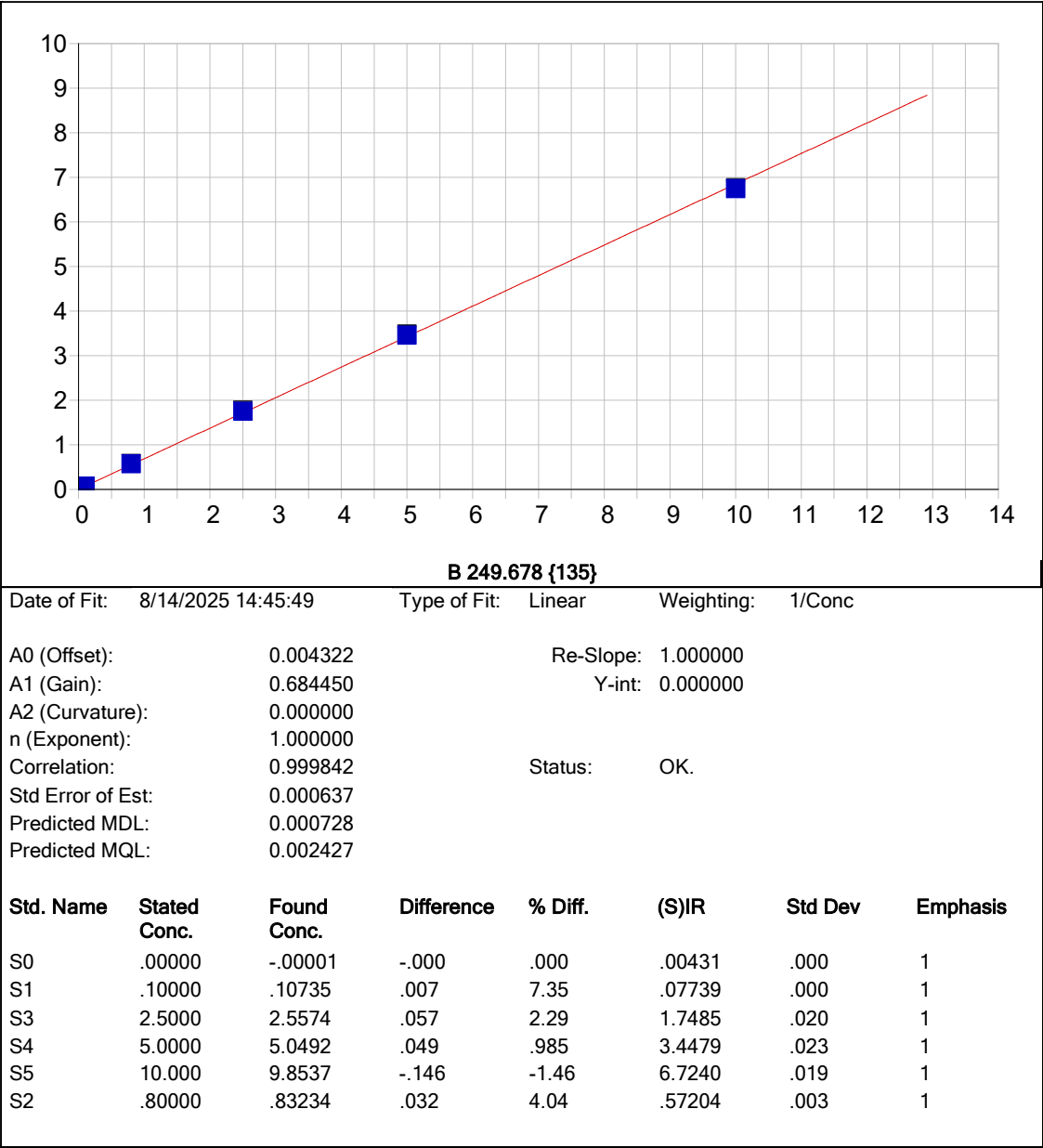
Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

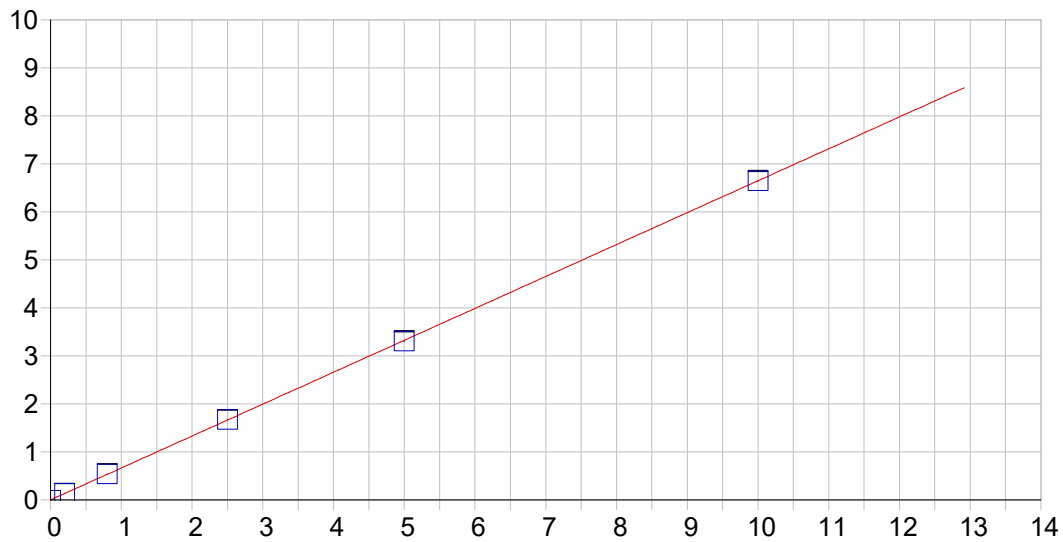
A0 (Offset): 0.001601 Re-Slope: 1.000000
A1 (Gain): 1.102627 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999908 Status: OK.
Std Error of Est: 0.000351
Predicted MDL: 0.000146
Predicted MQL: 0.000487

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00160	.000	1
S1	.04000	.04264	.003	6.61	.04862	.000	1
S3	1.2500	1.2696	.020	1.57	1.4015	.003	1
S4	2.5000	2.5071	.007	.285	2.7660	.012	1
S5	5.0000	4.9533	-.047	-.934	5.4633	.004	1
S2	.40000	.41731	.017	4.33	.46173	.000	1







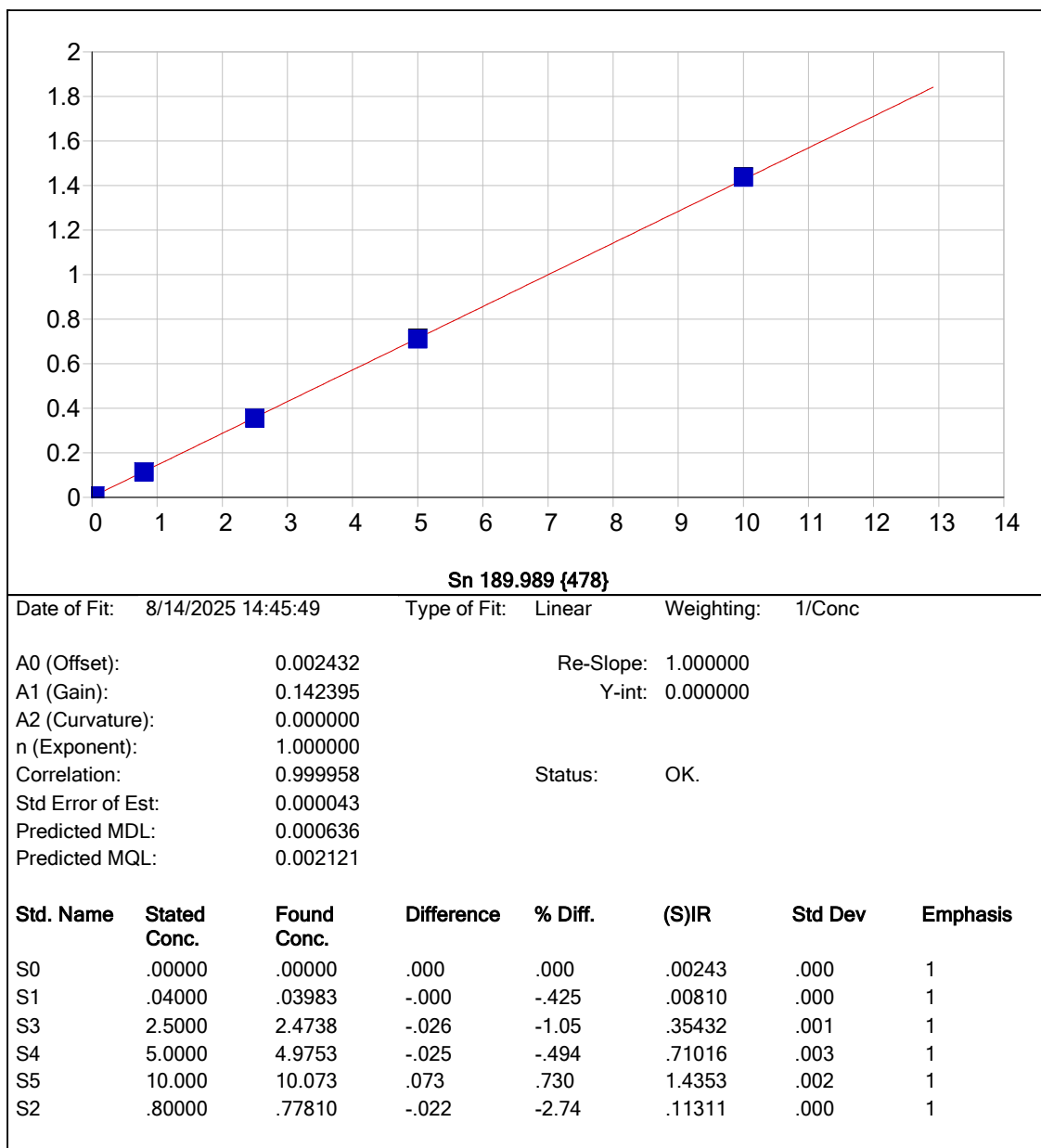


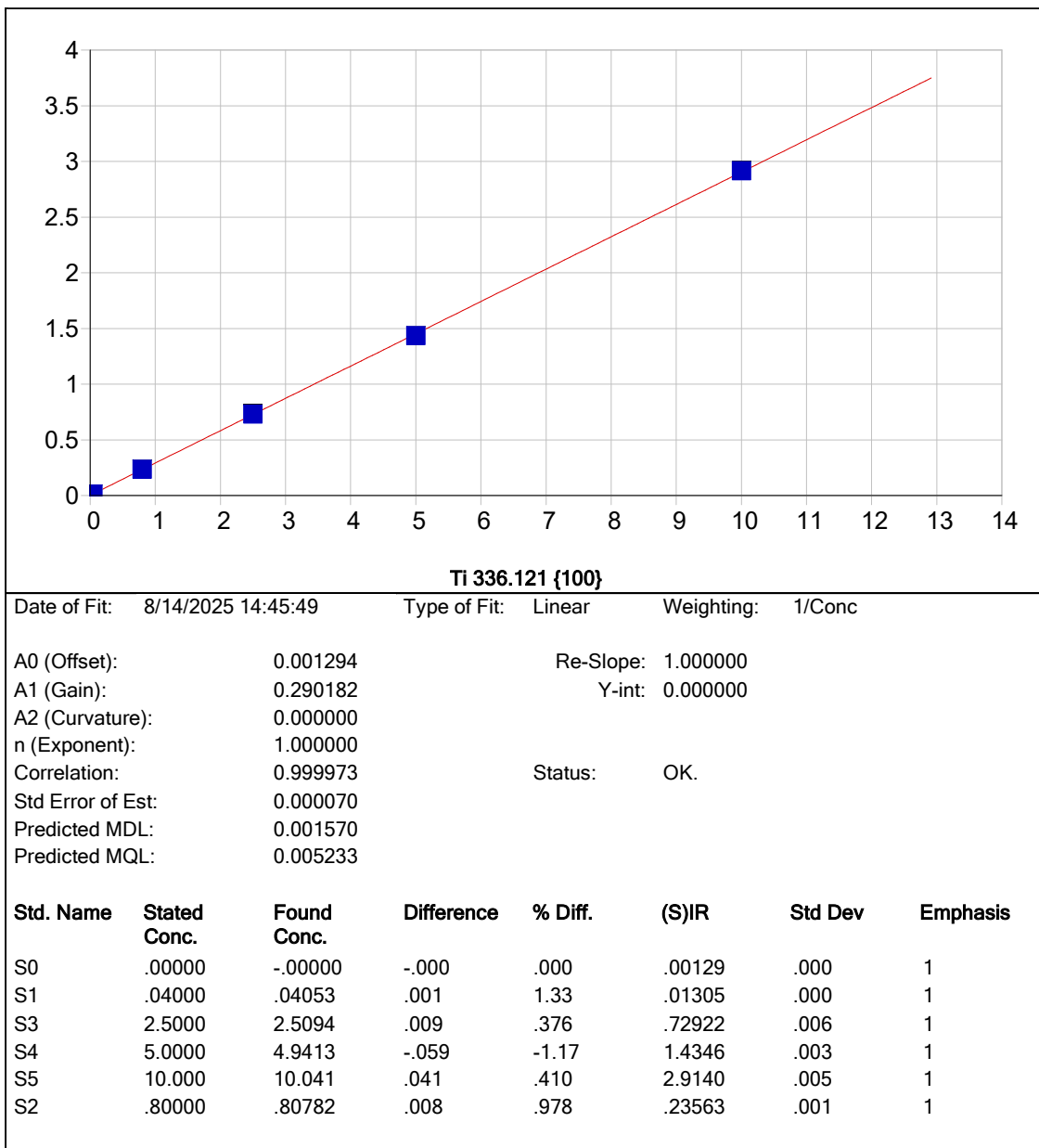
Mo 202.030 {467}

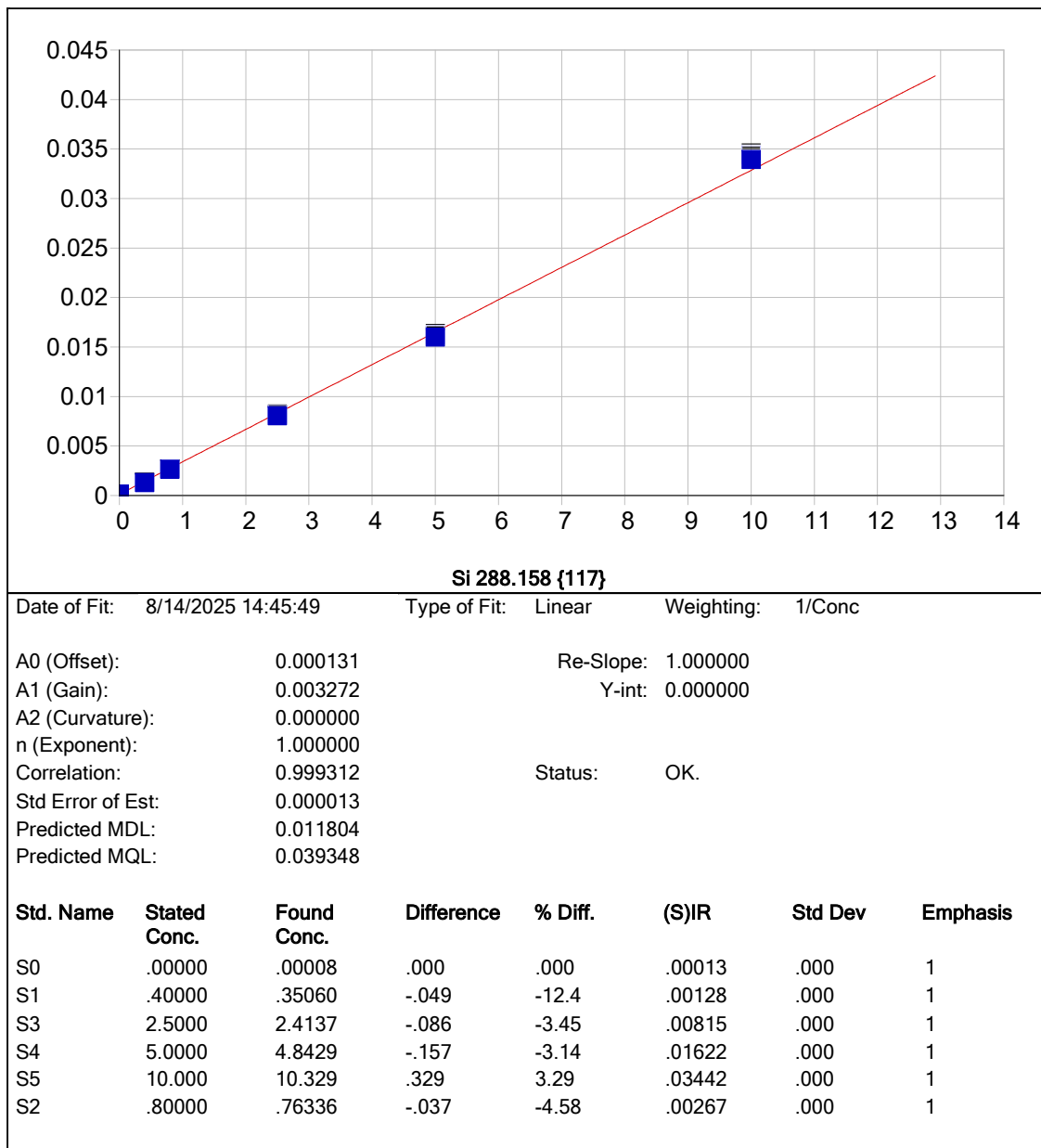
Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

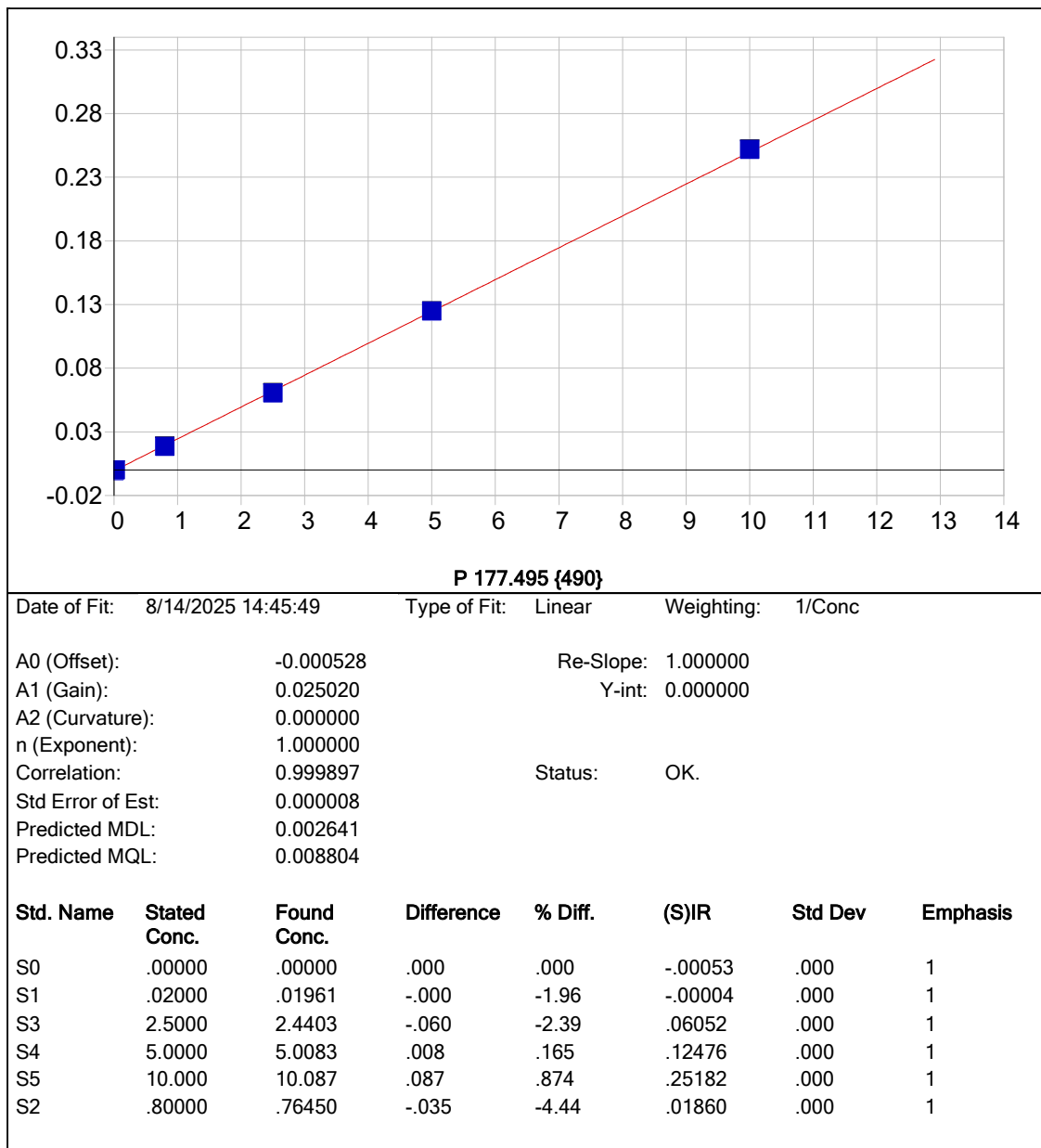
A0 (Offset): 0.000387 Re-Slope: 1.000000
A1 (Gain): 0.664891 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999983 Status: OK.
Std Error of Est: 0.000290
Predicted MDL: 0.000254
Predicted MQL: 0.000848

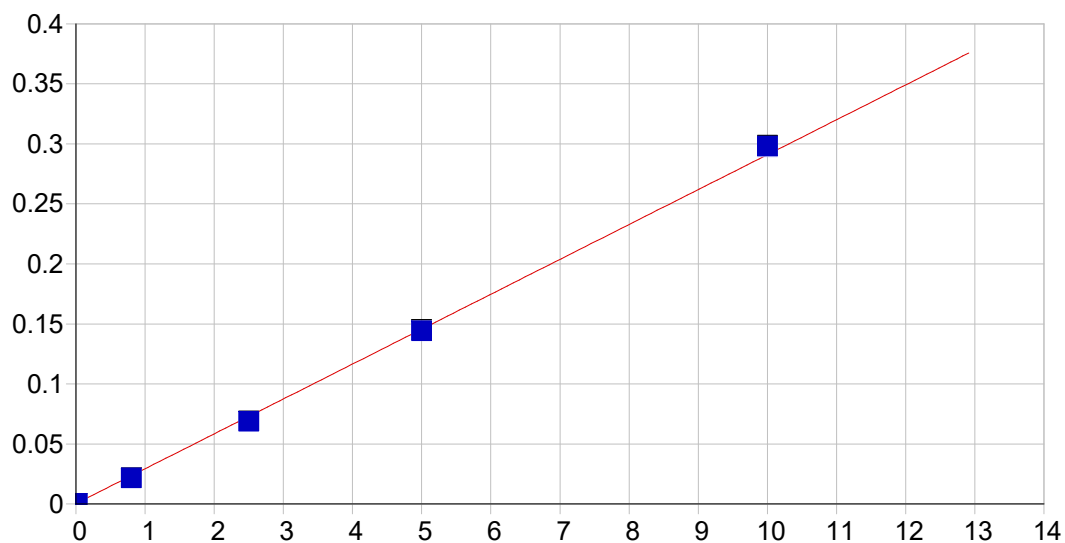
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00038	.000	1
S1	.20000	.20442	.004	2.21	.13630	.000	1
S3	2.5000	2.5129	.013	.517	1.6712	.003	1
S4	5.0000	4.9698	-.030	-.604	3.3048	.013	1
S5	10.000	9.9977	-.002	-.023	6.6477	.013	1
S2	.80000	.81517	.015	1.90	.54239	.001	1









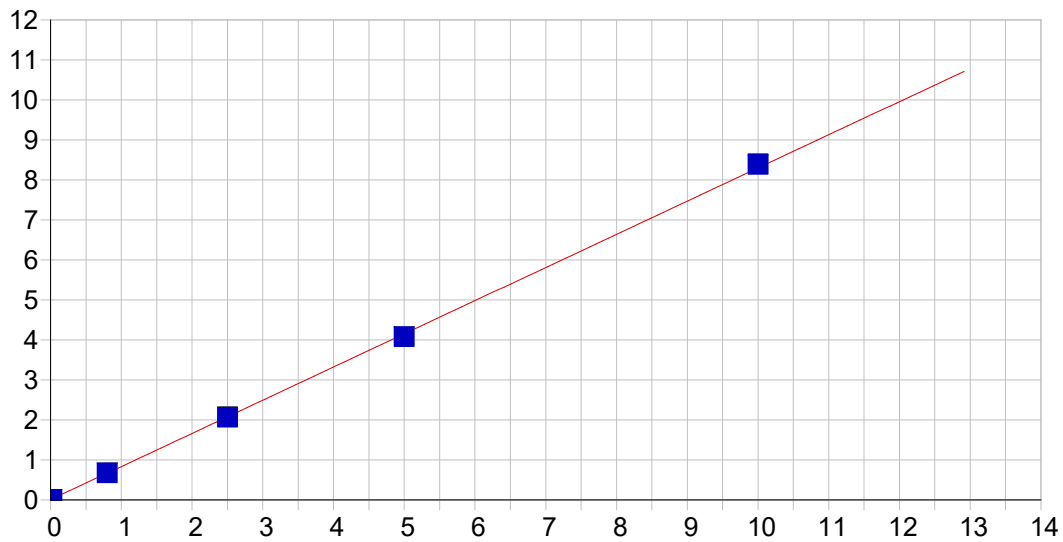


S 182.034 {485}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000215 Re-Slope: 1.000000
A1 (Gain): 0.029079 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999484 Status: OK.
Std Error of Est: 0.000022
Predicted MDL: 0.002820
Predicted MQL: 0.009399

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00022	.000	1
S1	.02000	.02134	.001	6.69	.00081	.000	1
S3	2.5000	2.3615	-.138	-5.54	.06870	.000	1
S4	5.0000	4.9542	-.046	-.916	.14390	.001	1
S5	10.000	10.244	.244	2.44	.29735	.001	1
S2	.80000	.73885	-.061	-7.64	.02164	.000	1

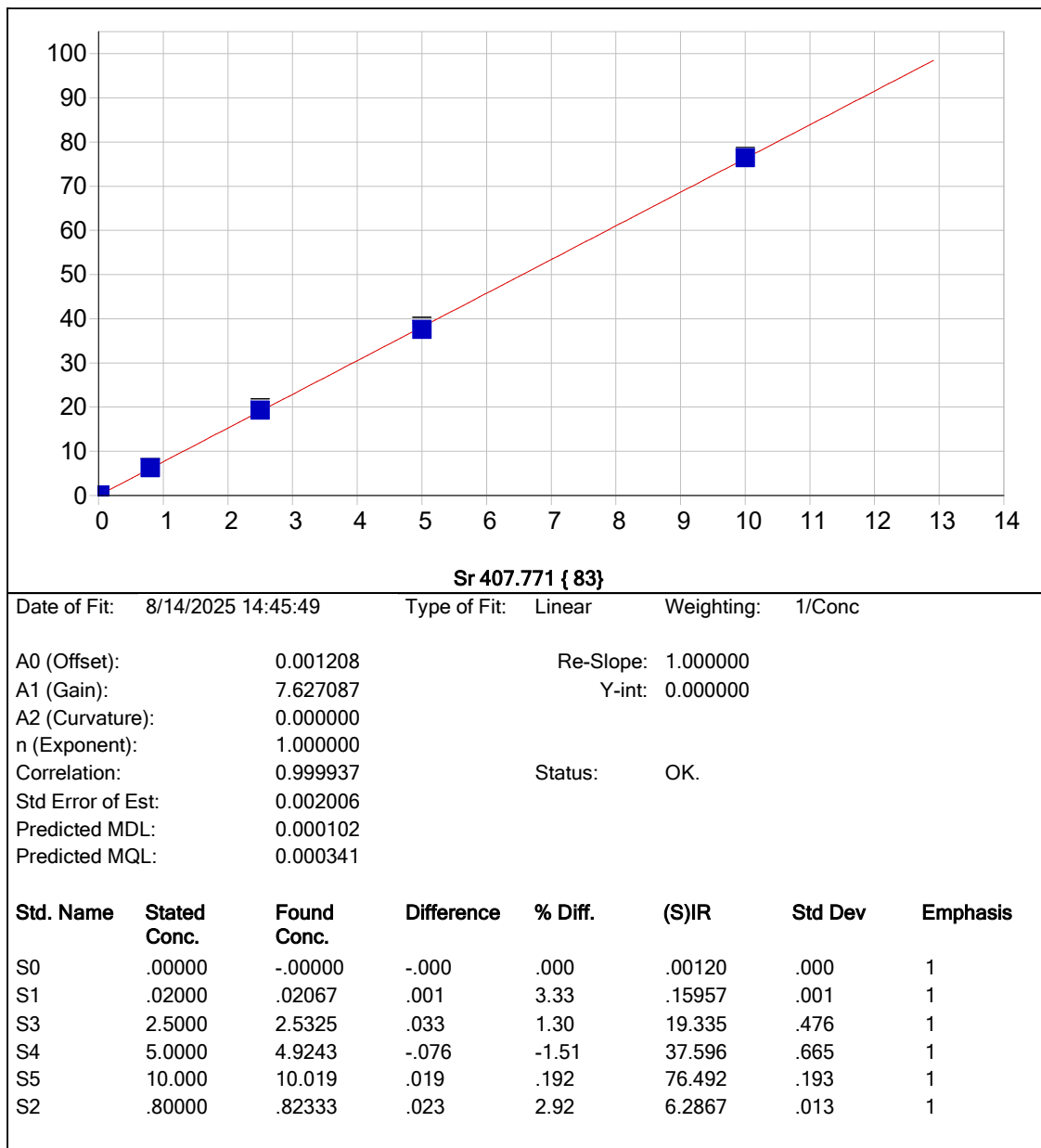


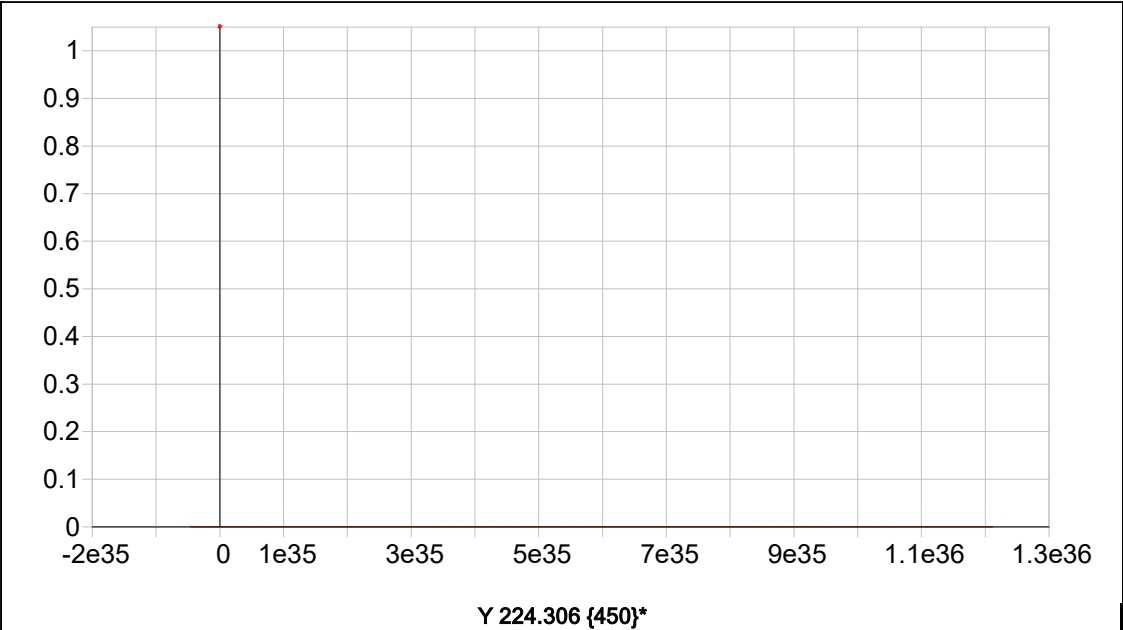
Li 670.784 { 50}

Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.005393 Re-Slope: 1.000000
A1 (Gain): 0.829297 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999922 Status: OK.
Std Error of Est: 0.000243
Predicted MDL: 0.001826
Predicted MQL: 0.006086

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00539	.000	1
S5	10.000	10.100	.100	.997	8.3876	.011	1
S4	5.0000	4.9088	-.091	-1.82	4.0795	.003	1
S3	2.5000	2.4829	-.017	-.685	2.0661	.009	1
S1	.02000	.02022	.000	1.12	.02246	.001	1
S2	.80000	.80847	.008	1.06	.67639	.002	1

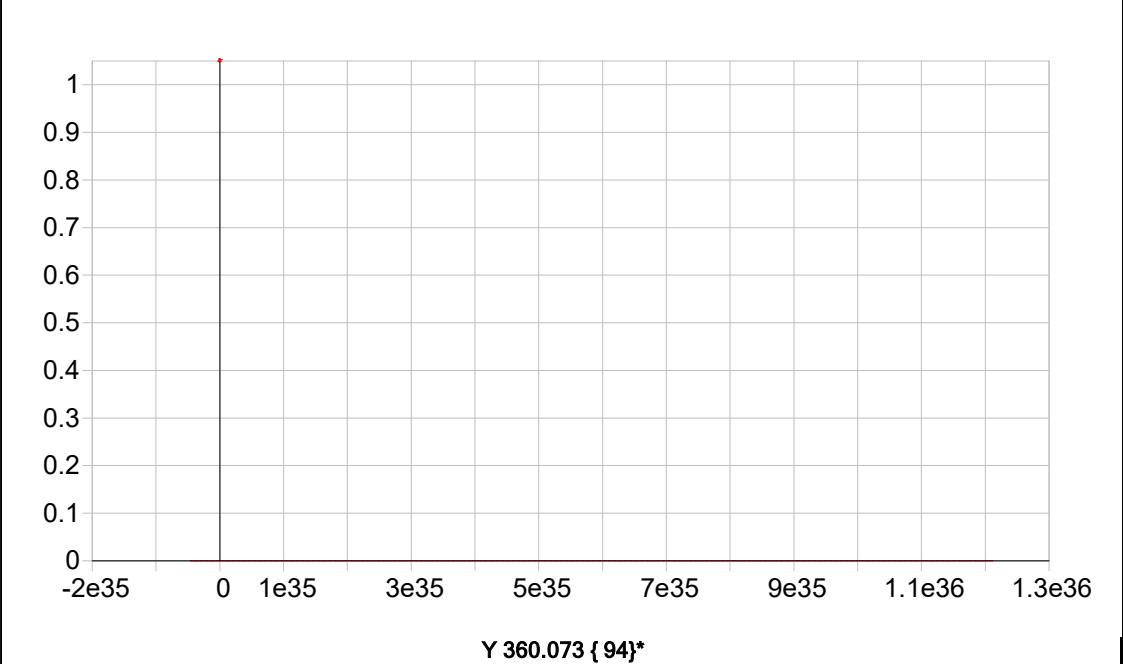




Date of Fit: 8/14/2025 14:45:49 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
-----------	--------------	-------------	------------	---------	-------	---------	----------



Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000



A2 (Curvature):		0.000000		Status:	Warning	Zero Gain	
n (Exponent):		1.000000					
Correlation:		0.000000					
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

Sample Name: S0 Acquired: 8/14/2025 11:39:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00010	.00092	.00006	.00044	.00041	.00067	.09217	-.00069
Stddev	.00008	.00006	.00025	.00010	.00001	.00071	.00217	.00034
%RSD	82.743	6.0141	392.83	23.561	2.5983	105.73	2.3551	49.222

#1	-.00016	.00086	.00032	.00034	.00040	-.00002	.09020	-.00081
#2	-.00012	.00097	.00004	.00043	.00041	.00062	.09181	-.00095
#3	-.00001	.00094	-.00018	.00055	.00042	.00140	.09449	-.00031

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00043	.00132	.00019	.00021	.00046	.00003	.00031	-.00004
Stddev	.00015	.00044	.00004	.00012	.00029	.00001	.00014	.00007
%RSD	35.161	33.043	19.229	58.755	62.292	17.887	46.311	185.71

#1	-.00030	.00085	.00018	.00032	.00023	.00003	.00047	-.00012
#2	-.00039	.00138	.00016	.00008	.00079	.00002	.00019	-.00002
#3	-.00060	.00172	.00023	.00023	.00037	.00003	.00027	.00002

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00050	-.00080	.00166	-.00006	.00458	-.00088	.00431	.00038
Stddev	.00020	.00004	.00001	.00016	.00041	.00007	.00022	.00010
%RSD	40.314	5.3714	.35490	293.44	8.9721	8.1041	5.0453	25.341

#1	-.00037	-.00085	.00167	.00012	.00495	-.00086	.00406	.00039
#2	-.00073	-.00077	.00166	-.00010	.00464	-.00096	.00441	.00048
#3	-.00041	-.00078	.00167	-.00019	.00414	-.00082	.00447	.00028

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.00243	.00129	.00013	-.00053	.00022	.00539	.00120	
Stddev	.00005	.00027	.00004	.00001	.00008	.00039	.00042	
%RSD	2.0118	20.966	30.954	1.0589	36.349	7.2658	35.121	

#1	.00238	.00152	.00017	-.00053	.00020	.00499	.00126	
#2	.00246	.00137	.00014	-.00052	.00030	.00541	.00159	
#3	.00246	.00099	.00009	-.00053	.00014	.00578	.00075	

Sample Name: S0 Acquired: 8/14/2025 11:39:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5873.8	102370.	10448.	4601.8	7553.2
Stddev	14.7	125.	9.	.9	12.9
%RSD	.25033	.12241	.08768	.01941	.17094
#1	5856.9	102510.	10454.	4601.2	7539.8
#2	5881.1	102260.	10452.	4602.8	7554.2
#3	5883.5	102340.	10437.	4601.5	7565.6

Sample Name: S1 Acquired: 8/14/2025 11:44:04 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00106	.00407	.00256	.00128	.00548	.00921	.33576	.04366
Stddev	.00010	.00004	.00031	.00006	.00011	.00006	.00149	.00065
%RSD	9.1189	.98222	11.998	4.7054	2.0405	.59984	.44371	1.4824
#1	.00114	.00403	.00242	.00132	.00535	.00927	.33733	.04436
#2	.00108	.00406	.00235	.00121	.00557	.00916	.33436	.04308
#3	.00095	.00411	.00291	.00130	.00552	.00919	.33560	.04354
Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01692	.12327	.00221	.03110	.01474	.00038	.00948	.02577
Stddev	.00013	.00080	.00002	.00006	.00003	.00000	.00017	.00021
%RSD	.76453	.65252	.87164	.18291	.22380	1.1418	1.7428	.83200
#1	.01706	.12342	.00222	.03104	.01472	.00038	.00942	.02583
#2	.01688	.12240	.00223	.03110	.01473	.00038	.00936	.02553
#3	.01681	.12399	.00219	.03115	.01478	.00038	.00967	.02595
Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02349	.00127	.01840	.00496	.10423	.00818	.07739	.13630
Stddev	.00005	.00002	.00015	.00039	.00014	.00036	.00040	.00042
%RSD	.22053	1.2817	.82123	7.9099	.13532	4.4397	.51548	.30848
#1	.02353	.00128	.01827	.00461	.10414	.00829	.07746	.13618
#2	.02343	.00125	.01857	.00489	.10415	.00847	.07696	.13595
#3	.02350	.00126	.01836	.00539	.10439	.00777	.07775	.13677
Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.00810	.01305	.00128	-.00004	.00081	.02246	.15957	
Stddev	.00007	.00015	.00004	.00002	.00002	.00117	.00067	
%RSD	.86407	1.1282	3.2698	49.817	2.9972	5.2296	.41884	
#1	.00815	.01288	.00133	-.00003	.00081	.02119	.16015	
#2	.00802	.01316	.00124	-.00002	.00079	.02350	.15972	
#3	.00813	.01310	.00128	-.00006	.00084	.02268	.15884	

Sample Name: S1 Acquired: 8/14/2025 11:44:04 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5777.7	101130.	10306.	4553.0	7295.6
Stddev	2.7	195.	66.	12.1	5.1
%RSD	.04615	.19315	.64205	.26678	.06930
#1	5777.4	101020.	10271.	4539.4	7295.7
#2	5775.3	101360.	10382.	4562.8	7290.4
#3	5780.6	101020.	10265.	4556.8	7300.5

Sample Name: S2 Acquired: 8/14/2025 11:48:27 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04093	.06323	.15739	.03893	.07733	.12767	3.9059	.27646
Stddev	.00009	.00073	.00048	.00007	.00021	.00009	.0070	.00116
%RSD	.23064	1.1617	.30196	.17668	.26737	.07238	.17838	.41967

#1	.04086	.06246	.15763	.03886	.07709	.12766	3.9067	.27753
#2	.04103	.06393	.15684	.03895	.07748	.12777	3.9124	.27662
#3	.04089	.06329	.15770	.03899	.07741	.12759	3.8986	.27523

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1582	.23852	.03280	.40655	.13678	.00290	.17178	.04708
Stddev	.0016	.00099	.00009	.00033	.00016	.00003	.00069	.00015
%RSD	.14088	.41706	.26689	.08092	.11862	.99109	.40448	.32700

#1	1.1597	.23824	.03271	.40691	.13669	.00287	.17254	.04713
#2	1.1564	.23769	.03280	.40627	.13668	.00292	.17164	.04721
#3	1.1583	.23962	.03288	.40647	.13697	.00291	.17117	.04691

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.23605	.04037	.03577	.05157	.97591	.01771	.57204	.54239
Stddev	.00053	.00002	.00017	.00039	.00212	.00007	.00334	.00103
%RSD	.22533	.04726	.47056	.75032	.21680	.41237	.58439	.18967

#1	.23665	.04035	.03559	.05181	.97725	.01763	.57493	.54131
#2	.23566	.04039	.03581	.05178	.97702	.01776	.57281	.54337
#3	.23584	.04036	.03592	.05112	.97347	.01775	.56838	.54248

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11311	.23563	.00267	.01860	.02164	.67639	6.2867
Stddev	.00027	.00075	.00001	.00009	.00009	.00248	.0127
%RSD	.24007	.31702	.46475	.50101	.40475	.36626	.20266

#1	.11316	.23576	.00268	.01867	.02167	.67473	6.2845
#2	.11282	.23629	.00266	.01849	.02154	.67924	6.3004
#3	.11335	.23482	.00267	.01863	.02171	.67519	6.2752

Sample Name: S2 Acquired: 8/14/2025 11:48:27 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5646.3	97642.	10343.	4387.6	7009.7
Stddev	11.7	140.	70.	12.1	9.7
%RSD	.20799	.14348	.67809	.27504	.13906
#1	5649.8	97564.	10287.	4380.8	7002.4
#2	5633.2	97557.	10321.	4380.5	7006.0
#3	5655.8	97803.	10422.	4401.5	7020.8

Sample Name: S3 Acquired: 8/14/2025 11:52:33 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12780	.19162	.48868	.12039	.23863	.39635	11.983	.85421
Stddev	.00006	.00142	.00032	.00025	.00031	.00073	.069	.00974
%RSD	.04306	.74181	.06465	.20976	.12885	.18356	.57499	1.1399

#1	.12782	.19189	.48892	.12050	.23840	.39677	11.974	.84297
#2	.12784	.19009	.48833	.12010	.23852	.39551	11.919	.86007
#3	.12774	.19289	.48880	.12057	.23898	.39676	12.056	.85958

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.6546	.73183	.10093	1.2700	.41813	.00866	.52365	.14454
Stddev	.0078	.00222	.00010	.0012	.00032	.00008	.00465	.00103
%RSD	.21275	.30336	.09624	.09789	.07616	.86616	.88746	.71154

#1	3.6623	.73020	.10104	1.2713	.41815	.00873	.51929	.14340
#2	3.6468	.73093	.10088	1.2688	.41781	.00858	.52313	.14482
#3	3.6547	.73436	.10087	1.2698	.41844	.00866	.52854	.14540

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.73638	.12596	.10822	.15945	2.9773	.05774	1.7485	1.6712
Stddev	.00100	.00020	.00110	.00039	.0124	.00049	.0202	.0034
%RSD	.13623	.15841	1.0204	.24639	.41516	.84374	1.1563	.20256

#1	.73662	.12581	.10924	.15910	2.9633	.05824	1.7252	1.6715
#2	.73528	.12618	.10704	.15936	2.9817	.05727	1.7607	1.6677
#3	.73725	.12588	.10836	.15987	2.9869	.05770	1.7597	1.6744

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.35432	.72922	.00815	.06052	.06870	2.0661	19.335
Stddev	.00065	.00552	.00006	.00016	.00020	.0086	.476
%RSD	.18409	.75756	.77932	.27172	.29039	.41468	2.4605

#1	.35506	.72599	.00822	.06039	.06852	2.0593	18.786
#2	.35411	.72606	.00810	.06045	.06866	2.0633	19.612
#3	.35380	.73560	.00813	.06070	.06891	2.0757	19.607

Sample Name: S3 Acquired: 8/14/2025 11:52:33 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5564.8	96063.	10386.	4315.7	6749.8
Stddev	8.2	84.	114.	19.4	17.4
%RSD	.14736	.08786	1.0991	.45043	.25709
#1	5558.3	96091.	10516.	4336.6	6732.8
#2	5562.0	95968.	10303.	4312.5	6749.2
#3	5574.0	96130.	10339.	4298.2	6767.5

Sample Name: S4 Acquired: 8/14/2025 11:56:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25939	.39387	.97312	.24598	.48014	.77917	23.430	1.6613
Stddev	.00099	.01726	.00214	.00170	.00086	.00311	.304	.0133
%RSD	.38239	4.3829	.22029	.69311	.17977	.39852	1.2963	.80113

#1	.25826	.37486	.97065	.24404	.47917	.77918	23.544	1.6612
#2	.26009	.39820	.97418	.24666	.48082	.78227	23.660	1.6746
#3	.25983	.40856	.97453	.24725	.48043	.77606	23.085	1.6480

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.3718	1.4301	.19599	2.5513	.82381	.01698	1.0232	.28627
Stddev	.0111	.0059	.00073	.0025	.00222	.00017	.0019	.00084
%RSD	.15011	.41264	.37258	.09823	.26887	1.0089	.18661	.29242

#1	7.3590	1.4315	.19632	2.5485	.82129	.01705	1.0252	.28649
#2	7.3777	1.4352	.19651	2.5531	.82546	.01679	1.0215	.28697
#3	7.3786	1.4237	.19516	2.5524	.82467	.01711	1.0228	.28534

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4774	.24963	.21874	.31806	5.9260	.11679	3.4479	3.3048
Stddev	.0005	.00028	.00122	.00088	.0045	.00039	.0227	.0132
%RSD	.03255	.11051	.55741	.27586	.07662	.33689	.65848	.40055

#1	1.4768	.24987	.21896	.31907	5.9214	.11702	3.4474	3.2907
#2	1.4778	.24933	.21742	.31746	5.9305	.11634	3.4709	3.3067
#3	1.4774	.24969	.21983	.31766	5.9262	.11702	3.4255	3.3169

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.71016	1.4346	.01622	.12476	.14390	4.0795	37.596	
Stddev	.00330	.0025	.00013	.00008	.00117	.0035	.665	
%RSD	.46461	.17566	.78059	.06156	.81427	.08571	1.7683	

#1	.70635	1.4375	.01636	.12473	.14256	4.0807	37.196	
#2	.71213	1.4328	.01611	.12470	.14469	4.0823	38.363	
#3	.71199	1.4336	.01621	.12484	.14446	4.0756	37.228	

Sample Name: S4 Acquired: 8/14/2025 11:56:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5480.8	96876.	10538.	4265.9	6516.4
Stddev	15.2	235.	90.	5.0	15.4
%RSD	.27733	.24260	.85745	.11664	.23645
#1	5489.9	96811.	10533.	4260.9	6519.2
#2	5489.2	96680.	10451.	4270.8	6530.3
#3	5463.2	97137.	10631.	4265.9	6499.8

Sample Name: S5 Acquired: 8/14/2025 12:00:49 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.52214	.75055	1.9887	.49001	.97101	1.5704	47.804	3.2362
Stddev	.00132	.01405	.0017	.00140	.00235	.0034	.239	.0019
%RSD	.25354	1.8716	.08687	.28502	.24250	.21977	.49959	.05742

#1	.52239	.75494	1.9872	.49014	.96946	1.5675	47.729	3.2382
#2	.52071	.73483	1.9906	.48856	.96986	1.5742	48.072	3.2346
#3	.52332	.76187	1.9883	.49134	.97372	1.5694	47.612	3.2357

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15.012	2.8571	.38946	5.2257	1.6392	.03526	2.0548	.57163
Stddev	.010	.0015	.00205	.0024	.0008	.00024	.0064	.00079
%RSD	.06610	.05408	.52737	.04678	.05214	.66742	.30989	.13849

#1	15.004	2.8584	.39109	5.2233	1.6388	.03547	2.0615	.57137
#2	15.023	2.8575	.39013	5.2282	1.6386	.03531	2.0541	.57100
#3	15.009	2.8554	.38715	5.2256	1.6402	.03501	2.0488	.57252

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0151	.50684	.46492	.64436	11.860	.24910	6.7240	6.6477
Stddev	.0042	.00054	.00334	.00101	.040	.00112	.0188	.0128
%RSD	.14040	.10744	.71935	.15665	.33913	.44979	.27939	.19220

#1	3.0111	.50745	.46761	.64322	11.898	.25013	6.7181	6.6475
#2	3.0195	.50669	.46597	.64473	11.865	.24927	6.7089	6.6351
#3	3.0149	.50639	.46117	.64514	11.818	.24791	6.7451	6.6607

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	1.4353	2.9140	.03442	.25182	.29735	8.3876	76.492	
Stddev	.0015	.0053	.00017	.00044	.00095	.0115	.193	
%RSD	.10494	.18051	.48667	.17560	.31965	.13657	.25187	

#1	1.4336	2.9194	.03427	.25163	.29687	8.4001	76.714	
#2	1.4361	2.9135	.03460	.25232	.29674	8.3854	76.378	
#3	1.4362	2.9089	.03439	.25149	.29845	8.3775	76.383	

Sample Name: S5 Acquired: 8/14/2025 12:00:49 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5419.0	95852.	10776.	4174.5	6287.6
Stddev	10.4	471.	20.	35.0	10.7
%RSD	.19211	.49106	.18317	.83884	.17087
#1	5429.8	95531.	10755.	4149.9	6299.6
#2	5418.3	95633.	10781.	4159.1	6278.9
#3	5409.0	96393.	10794.	4214.6	6284.3

Sample Name: ICV01 Acquired: 8/14/2025 12:05:00 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.983115	3.831936	3.889633	3.973990	4.099898	8.031750
Stddev	.008305	.078506	.003423	.010526	.002386	.017868
%RSD	.2084992	2.048737	.0880110	.2648745	.0581933	.2224623

#1	3.985177	3.863460	3.890532	3.972193	4.102547	8.017479
#2	3.973973	3.742568	3.885849	3.964478	4.097919	8.025983
#3	3.990194	3.889781	3.892516	3.985299	4.099227	8.051789

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.039274	.2024571	1.975279	20.09242	.8202612	2.012214
Stddev	.066125	.0008682	.002011	.05043	.0028819	.001880
%RSD	.8225304	.4288514	.1018318	.2509945	.3513335	.0934154

#1	7.970977	.2014557	1.975581	20.03584	.8233503	2.014179
#2	8.102990	.2029162	1.973133	20.13262	.8176451	2.010433
#3	8.043855	.2029994	1.977122	20.10881	.8197884	2.012031

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.025120	4.049689	2.015337	20.07467	2.006392	1.072744
Stddev	.000149	.008283	.005588	.11584	.002603	.000733
%RSD	.0145115	.2045378	.2772597	.5770688	.1297477	.0683257

#1	1.025104	4.050945	2.010583	19.98325	2.005540	1.073322
#2	1.025276	4.057272	2.021492	20.03581	2.004322	1.072991
#3	1.024980	4.040850	2.013937	20.20494	2.009315	1.071919

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.65383	2.018386	2.004004	19.84979	3.963730	4.091221
Stddev	.05700	.002018	.008143	.04590	.017439	.004505
%RSD	.2900000	.0999879	.4063407	.2312326	.4399621	.1101216

#1	19.65307	2.016996	2.012098	19.85721	3.943829	4.094664
#2	19.71120	2.020700	1.995813	19.89153	3.971025	4.086122
#3	19.59721	2.017461	2.004100	19.80064	3.976338	4.092878

Sample Name: ICV01 Acquired: 8/14/2025 12:05:00 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.977435	4.028995	3.862312	F .0036382	F .0316200	F .0036675
Stddev	.010595	.006326	.014334	.0034519	.0021320	.0015016
%RSD	.2663762	.1570066	.3711203	94.88108	6.742691	40.94357

#1	3.979647	4.021962	3.875033	.0001522	.0293724	.0022505
#2	3.965908	4.034219	3.865122	.0037073	.0318740	.0035106
#3	3.986748	4.030806	3.846782	.0070550	.0336137	.0052415

Elem	Sr4077
Units	ppm
Avg	F -.003413
Stddev	.000037
%RSD	1.097482

#1	-.003428
#2	-.003370
#3	-.003441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5531.259	97090.78	10825.54	4246.931	6667.203
Stddev	12.144	309.61	43.46	17.920	7.714
%RSD	.2195540	.3188877	.4014562	.4219617	.1156933

#1	5527.738	96887.24	10860.39	4228.270	6663.765
#2	5521.264	97447.08	10839.39	4264.005	6661.807
#3	5544.774	96938.02	10776.85	4248.518	6676.038

Sample Name: LLICV01 Acquired: 8/14/2025 12:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213823	.0417178	.0121627	.0195805	.0531848	.0902064
Stddev	.0009559	.0009872	.0009880	.0018248	.0007901	.0030218
%RSD	4.470651	2.366357	8.123563	9.319634	1.485474	3.349888

#1	.0207778	.0406249	.0129021	.0181910	.0538751	.0889016
#2	.0224844	.0419835	.0125453	.0189035	.0523231	.0880563
#3	.0208849	.0425449	.0110405	.0216471	.0533563	.0936614

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0978587	.0062208	.0058459	2.091367	.0107134	.0298686
Stddev	.0008121	.0000360	.0000284	.002960	.0001968	.0000713
%RSD	.8298370	.5793897	.4864702	.1415261	1.836751	.2386857

#1	.0977667	.0062343	.0058376	2.087972	.0105317	.0298625
#2	.0970965	.0062482	.0058226	2.092727	.0106862	.0298006
#3	.0987128	.0061800	.0058776	2.093402	.0109224	.0299428

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215755	.1121069	.0215660	2.198578	.0402091	.0104762
Stddev	.0005207	.0007384	.0003913	.038518	.0003417	.0003583
%RSD	2.413151	.6586426	1.814491	1.751940	.8497810	3.420063

#1	.0209786	.1112680	.0218595	2.155669	.0402190	.0107686
#2	.0219361	.1126581	.0217168	2.209895	.0398626	.0105833
#3	.0218117	.1123947	.0211217	2.230169	.0405457	.0100765

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.917047	.0394358	.0428785	2.025081	F .1226145	.2101118
Stddev	.017376	.0024628	.0002496	.012520	.0010521	.0001475
%RSD	.9064074	6.245087	.5822018	.6182589	.8580269	.0702122

#1	1.915372	.0420531	.0431567	2.036886	.1220081	.2102661
#2	1.935200	.0371640	.0426740	2.026406	.1238294	.2100970
#3	1.900568	.0390903	.0428050	2.011951	.1220062	.2099722

Sample Name: LLICV01 Acquired: 8/14/2025 12:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0247853	.0403823	.3934222	.0165115	.0208180	F .0240415
Stddev	.0005211	.0009143	.0126056	.0022866	.0016048	.0012545
%RSD	2.102346	2.264021	3.204095	13.84849	7.708655	5.218282

#1	.0248003	.0407973	.3961154	.0147891	.0191474	.0254868
#2	.0242569	.0393342	.3796876	.0191058	.0223477	.0234035
#3	.0252988	.0410156	.4044636	.0156396	.0209588	.0232341

Elem	Sr4077
Units	ppm
Avg	.0201339
Stddev	.0000982
%RSD	.4875072

#1	.0202003
#2	.0201802
#3	.0200212

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5701.620	100508.9	10894.33	4336.273	7268.006
Stddev	14.008	97.0	60.80	9.371	15.336
%RSD	.2456774	.0965509	.5580570	.2161087	.2110062

#1	5685.677	100620.6	10964.48	4337.092	7250.526
#2	5711.953	100461.2	10856.99	4345.207	7279.204
#3	5707.230	100445.0	10861.52	4326.519	7274.286

Sample Name: ICB01 Acquired: 8/14/2025 12:13:21 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002298	.0005026	.0004058	.0006011	.0022911	-.004473	-.001179
Stddev	.0009218	.0012439	.0007915	.0020429	.0010671	.008816	.000719
%RSD	401.1543	247.5144	195.0551	339.8793	46.57637	197.1131	61.02428

#1	-.000113	.0018840	-.000373	.0008550	.0035123	-.007412	-.001742
#2	-.000472	-.000529	.001209	.0025051	.0015381	.005438	-.001426
#3	.001274	.000152	.000382	-.001557	.0018229	-.011443	-.000368

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000010	.0001187	.0216559	.0005406	.0001733	.0001837	.0231846
Stddev	.000036	.0000400	.0031372	.0002058	.0000390	.0006504	.0013093
%RSD	356.8307	33.73577	14.48634	38.07890	22.53313	354.0824	5.647170

#1	-.000005	.0001626	.0251127	.0003333	.0001481	-.000534	.0246733
#2	-.000048	.0000841	.0189897	.0005435	.0001535	.000351	.0226688
#3	.000023	.0001094	.0208652	.0007449	.0002182	.000734	.0222118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008928	.0019572	.0010869	.0005929	.0138255	.0008757	.0032484
Stddev	.0005819	.0208712	.0000973	.0004128	.0118668	.0007327	.0000452
%RSD	65.18051	1066.392	8.951284	69.62126	85.83296	83.67391	1.390545

#1	.0004154	-.015581	.0009949	.0010453	.0066060	.0017186	.0032971
#2	.0007220	-.003589	.0011887	.0004971	.0073491	.0003908	.0032403
#3	.0015411	.025041	.0010770	.0002365	.0275214	.0005177	.0032079

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487387	.0129003	.0008296	-.013039	.0000832	.0059875	.0017213
Stddev	.0200701	.0006508	.0001699	.000272	.0005810	.0040532	.0010652
%RSD	41.17899	5.044592	20.47887	2.088748	698.3645	67.69503	61.87944

#1	.0567178	.0136449	.0009170	-.012725	.0007438	.0100363	.0027054
#2	.0259061	.0126152	.0009381	-.013181	-.000146	.0019299	.0005904
#3	.0635921	.0124406	.0006338	-.013212	-.000348	.0059961	.0018683

Sample Name: ICB01 Acquired: 8/14/2025 12:13:21 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0044082	.0009302	.0002286
Stddev	.0019912	.0011768	.0000429
%RSD	45.16973	126.5009	18.74714

#1	.0044665	.0020707	.0002150
#2	.0063696	.0009998	.0001942
#3	.0023886	-.000280	.0002766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5670.487	100939.3	10862.56	4318.704	7325.825
Stddev	5.395	115.5	48.56	14.353	6.874
%RSD	.0951460	.1143978	.4470516	.3323393	.0938274

#1	5670.528	101004.8	10868.33	4302.481	7328.969
#2	5675.862	101007.1	10907.98	4329.750	7317.942
#3	5665.072	100806.0	10811.37	4323.880	7330.565

Sample Name: CRI01 Acquired: 8/14/2025 12:23:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210861	.0412680	.0123628	.0178605	.0527549	.1053792	.0964454
Stddev	.0008967	.0006478	.0010791	.0018821	.0019546	.0041325	.0007619
%RSD	4.252468	1.569614	8.728210	10.53755	3.705026	3.921587	.7899380

#1	.0201121	.0420157	.0135174	.0192618	.0507190	.1032425	.0956782
#2	.0212692	.0409092	.0121911	.0157213	.0546165	.1101427	.0972018
#3	.0218772	.0408789	.0113799	.0185984	.0529291	.1027525	.0964561

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062698	.0059237	2.069657	.0103718	.0298727	.0214296	.1061838
Stddev	.0000211	.0000456	.010009	.0000577	.0000726	.0002092	.0004287
%RSD	.3373891	.7705565	.4836190	.5562377	.2429351	.9761585	.4036983

#1	.0062818	.0059700	2.062611	.0103754	.0297893	.0214155	.1065922
#2	.0062822	.0059224	2.081114	.0103123	.0299067	.0216455	.1057374
#3	.0062454	.0058788	2.065245	.0104275	.0299220	.0212278	.1062219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207229	2.181947	.0402143	.0110308	1.834180	.0367466	.0430272
Stddev	.0003053	.019185	.0001315	.0003101	.007997	.0011098	.0001918
%RSD	1.473025	.8792714	.3271021	2.811667	.4360097	3.020202	.4457806

#1	.0209542	2.194871	.0400666	.0107255	1.840396	.0366604	.0431666
#2	.0203769	2.159903	.0402571	.0113456	1.825158	.0378970	.0428085
#3	.0208377	2.191067	.0403190	.0110213	1.836986	.0356824	.0431066

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.928746	.1058214	.2105935	.0336065	.0392938	.3742952	.0181968
Stddev	.022942	.0007276	.0004305	.0002983	.0007069	.0081726	.0020823
%RSD	1.189481	.6876127	.2044318	.8875180	1.798934	2.183451	11.44326

#1	1.947335	.1049941	.2102959	.0338008	.0386869	.3713029	.0170968
#2	1.903106	.1061075	.2110872	.0332631	.0400699	.3680405	.0168952
#3	1.935797	.1063624	.2103975	.0337555	.0391246	.3835421	.0205984

Sample Name: CRI01 Acquired: 8/14/2025 12:23:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0205776	.0205029	.0200453
Stddev	.0020253	.0023570	.0001262
%RSD	9.841978	11.49581	.6296726

#1	.0182487	.0225656	.0199354
#2	.0215588	.0179339	.0201832
#3	.0219254	.0210092	.0200173

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5763.608	101503.7	11014.31	4361.004	7378.116
Stddev	8.529	242.2	38.21	15.591	16.080
%RSD	.1479726	.2385992	.3469469	.3575135	.2179444

#1	5753.943	101511.9	11048.28	4343.007	7359.981
#2	5766.804	101257.5	10972.94	4369.616	7383.728
#3	5770.076	101741.7	11021.70	4370.390	7390.637

Sample Name: ICSA01 Acquired: 8/14/2025 12:27:17 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075727	-.003357	-.005206	-.003058	-.001095	250.5428
Stddev	.0034473	.001740	.001174	.001247	.001496	.4618
%RSD	45.52275	51.82516	22.55075	40.79227	136.6599	.1843156

#1	.0037531	-.004266	-.006551	-.002840	-.001466	250.0878
#2	.0104529	-.004454	-.004390	-.004399	-.002370	250.5296
#3	.0085121	-.001351	-.004677	-.001933	.000552	251.0111

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000965	.0013551	.0029093	236.6456	.0603355	.0018407
Stddev	.0004241	.0000592	.0000286	.4593	.0007318	.0001227
%RSD	439.5010	4.372077	.9818466	.1940958	1.212856	6.664332

#1	.0005044	.0012882	.0028904	236.7561	.0600622	.0019757
#2	-.000342	.0014011	.0029422	236.1411	.0597796	.0017362
#3	.000127	.0013759	.0028953	237.0395	.0611646	.0018100

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072050	99.78717	.0079467	251.4685	.0054012	.0014842
Stddev	.0004738	.33812	.0002954	.6477	.0004339	.0006806
%RSD	6.575834	.3388378	3.717397	.2575749	8.033482	45.85823

#1	.0072758	99.68795	.0082821	251.8906	.0056928	.0011617
#2	.0076394	99.50976	.0078329	250.7228	.0056081	.0022662
#3	.0066998	100.1638	.0077252	251.7922	.0049025	.0010248

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1113047	.0021639	.0033253	.1302653	.0451729	.0010129
Stddev	.0092092	.0009880	.0005992	.0205773	.0019586	.0004228
%RSD	8.273872	45.65865	18.02090	15.79649	4.335866	41.74117

#1	.1218443	.0030264	.0026721	.1274340	.0435161	.0005298
#2	.1072584	.0010860	.0038496	.1112501	.0446681	.0013155
#3	.1048114	.0023794	.0034542	.1521116	.0473345	.0011935

Sample Name: ICSA01 Acquired: 8/14/2025 12:27:17 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017093	-.004564	.0259288	.0015885	-.008743	F -.026673
Stddev	.000544	.000171	.0061664	.0029764	.006692	.000514
%RSD	3.181835	3.750525	23.78194	187.3786	76.54074	1.925892

#1	-.016469	-.004487	.0252165	-.001818	-.001766	-.027220
#2	-.017470	-.004445	.0324205	.003685	-.015108	-.026200
#3	-.017339	-.004761	.0201496	.002898	-.009357	-.026598

Elem	Sr4077
Units	ppm
Avg	.0028082
Stddev	.0003299
%RSD	11.74692

#1	.0030898
#2	.0028895
#3	.0024452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5005.005	88151.07	10554.21	3830.210	5782.522
Stddev	7.281	153.56	57.07	9.395	6.285
%RSD	.1454652	.1742002	.5407174	.2452904	.1086967

#1	4996.795	87990.46	10492.92	3832.753	5775.374
#2	5007.545	88296.44	10563.90	3838.071	5787.186
#3	5010.676	88166.30	10605.82	3819.805	5785.007

Sample Name: ICSAB01 Acquired: 8/14/2025 12:38:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1101404	.1089983	.0425643	.0466071	.5928043	248.9878
Stddev	.0053416	.0027981	.0003732	.0046662	.0043643	.3835
%RSD	4.849794	2.567076	.8767128	10.01181	.7362201	.1540337

#1	.1085369	.1105754	.0429598	.0412425	.5929422	249.1322
#2	.1057842	.1057676	.0422185	.0488550	.5970980	248.5530
#3	.1161000	.1106517	.0425147	.0497239	.5883726	249.2782

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4853229	.4963325	.9886766	235.5356	.5661622	.4944547
Stddev	.0023793	.0022460	.0004385	.6697	.0016814	.0005784
%RSD	.4902504	.4525296	.0443504	.2843407	.2969734	.1169674

#1	.4880659	.4944216	.9882224	235.8099	.5664830	.4949519
#2	.4840862	.4957694	.9887099	234.7723	.5676600	.4945921
#3	.4838166	.4988065	.9890975	236.0247	.5643435	.4938200

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4903239	98.61986	.4865518	252.0626	.9866669	.2160691
Stddev	.0001074	.67082	.0015308	.7698	.0007218	.0004531
%RSD	.0218982	.6802094	.3146245	.3053883	.0731513	.2096954

#1	.4903876	99.31400	.4877821	252.2033	.9859722	.2161437
#2	.4903842	98.57047	.4848375	251.2321	.9866154	.2164803
#3	.4902000	97.97509	.4870358	252.7522	.9874130	.2155834

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006452	.4790916	1.044322	-.000278	.9672500	1.005912
Stddev	.011076	.0024162	.001152	.028008	.0041877	.000209
%RSD	171.6611	.5043282	.1103497	10089.61	.4329533	.0207286

#1	-.019207	.4793599	1.043487	.031811	.9676307	1.005845
#2	-.000892	.4765525	1.045637	-.012827	.9628849	1.006146
#3	.000742	.4813625	1.043843	-.019817	.9712344	1.005746

Sample Name: ICSAB01 Acquired: 8/14/2025 12:38:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9824429	.9702644	1.005418	F .0062988	F .0008193	F -.032510
Stddev	.0027704	.0055856	.008784	.0042038	.0046006	.001009
%RSD	.2819896	.5756804	.8736808	66.73965	561.5008	3.103004
#1	.9793576	.9743642	.998022	.0023329	-.003188	-.033557
#2	.9847174	.9639026	1.015127	.0058578	-.000197	-.032428
#3	.9832538	.9725265	1.003105	.0107057	.005843	-.031545

Elem	Sr4077
Units	ppm
Avg	F .0025228
Stddev	.0004640
%RSD	18.39175
#1	.0021875
#2	.0023284
#3	.0030523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5192.975	90543.49	10782.36	3947.009	6004.227
Stddev	8.861	299.13	58.87	9.318	8.600
%RSD	.1706386	.3303769	.5459618	.2360883	.1432334
#1	5187.286	90771.55	10839.12	3952.267	5998.025
#2	5203.185	90204.80	10786.38	3936.250	6014.044
#3	5188.455	90654.13	10721.59	3952.510	6000.611

Sample Name: ICSA01DLX20 Acquired: 8/14/2025 12:42:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010744	.0007808	-.000452	-.001411	.0016594	12.09840	-.001222
Stddev	.0013452	.0008230	.000748	.002158	.0019796	.02381	.000774
%RSD	125.2093	105.4140	165.6095	152.9982	119.2954	.1968039	63.33586

#1	-.000379	.0017282	-.001142	.001037	.0036305	12.08503	-.000624
#2	.001327	.0002428	-.000557	-.002230	.0016761	12.08428	-.002096
#3	.002275	.0003713	.000343	-.003040	-.000329	12.12589	-.000946

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000936	.0001225	11.97091	.0031140	.0001084	.0003743	4.724494
Stddev	.0000865	.0000282	.04897	.0004883	.0001366	.0000935	.038559
%RSD	92.49452	23.03877	.4090605	15.68124	126.0651	24.98083	.8161560

#1	.0000050	.0000984	12.02593	.0029816	-.000011	.0002715	4.769004
#2	.0000977	.0001157	11.93211	.0036549	.000079	.0004542	4.703199
#3	.0001780	.0001535	11.95470	.0027056	.000257	.0003971	4.701278

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033705	12.56556	.0005497	.0005971	-.015384	-.000618	.0001347
Stddev	.0002668	.01802	.0002229	.0002129	.013663	.001397	.0003393
%RSD	7.915770	.1433878	40.55481	35.65948	88.81337	225.9650	251.9335

#1	.0031065	12.57692	.0004889	.0005734	-.022341	.000859	.0004678
#2	.0033648	12.57497	.0003635	.0008209	-.024169	-.000796	-.000210
#3	.0036400	12.54478	.0007968	.0003970	.000357	-.001918	.000147

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001895	.0006398	.0004395	-.015085	.0002478	.0205204	-.000252
Stddev	.016853	.0005575	.0001271	.000353	.0012907	.0059256	.001704
%RSD	889.2343	87.13644	28.92616	2.340934	520.7823	28.87666	676.0330

#1	-.002133	-.000002	.0005521	-.014683	.0017302	.0273495	.001713
#2	-.018628	.000912	.0003016	-.015342	-.000627	.0174730	-.001326
#3	.015075	.001009	.0004648	-.015232	-.000359	.0167386	-.001143

Sample Name: ICSA01DLX20 Acquired: 8/14/2025 12:42:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000190	-.004506	.0002203
Stddev	.0021982	.000854	.0000417
%RSD	11585.57	18.95512	18.91821

#1	-.000794	-.003832	.0001764
#2	.002508	-.004220	.0002594
#3	-.001657	-.005467	.0002251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5662.440	98670.18	10898.76	4236.293	7129.531
Stddev	18.326	420.54	14.27	16.118	25.654
%RSD	.3236424	.4262127	.1309411	.3804830	.3598209

#1	5648.225	98283.27	10910.72	4229.562	7108.245
#2	5655.972	98609.48	10882.96	4224.631	7122.333
#3	5683.123	99117.77	10902.60	4254.686	7158.015

Sample Name: ICSAB01DLX20 Acquired: 8/14/2025 12:46:33 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048372	.0055963	.0040051	.0019855	.0315576	12.76710	.0233895
Stddev	.0007520	.0025436	.0013490	.0005297	.0004807	.01604	.0002968
%RSD	15.54492	45.45172	33.68197	26.67841	1.523298	.1256493	1.269128

#1	.0044907	.0034836	.0044907	.0023567	.0318409	12.75109	.0230474
#2	.0043210	.0048856	.0050441	.0013789	.0310026	12.78318	.0235432
#3	.0057000	.0084196	.0024805	.0022209	.0318295	12.76702	.0235780

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256799	.0487169	12.61825	.0294966	.0244817	.0266158	4.988984
Stddev	.0001207	.0000598	.03024	.0001985	.0000281	.0001228	.027332
%RSD	.4698462	.1226699	.2396808	.6728473	.1145615	.4612585	.5478390

#1	.0255414	.0487704	12.61232	.0293048	.0245045	.0265677	4.989086
#2	.0257622	.0486524	12.65102	.0297011	.0244504	.0267553	5.016265
#3	.0257362	.0487279	12.59141	.0294839	.0244902	.0265244	4.961602

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0261608	13.15380	.0499155	.0109946	-.003454	.0237732	.0521969
Stddev	.0005609	.07329	.0001980	.0008295	.017123	.0019223	.0002983
%RSD	2.144196	.5571538	.3966377	7.544405	495.7248	8.086107	.5714240

#1	.0268084	13.08523	.0501368	.0105996	-.003139	.0237492	.0521912
#2	.0258298	13.23103	.0498545	.0119477	.013509	.0218630	.0519015
#3	.0258441	13.14512	.0497552	.0104364	-.020733	.0257074	.0524980

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014747	.0513761	.0545615	.0351141	.0515348	.0684289	-.001124
Stddev	.018204	.0007264	.0001483	.0006957	.0001633	.0109772	.001227
%RSD	123.4409	1.413889	.2717157	1.981210	.3169600	16.04173	109.2166

#1	-.027077	.0505403	.0545261	.0350264	.0517228	.0597377	-.000177
#2	-.023325	.0517327	.0544342	.0344664	.0514279	.0647842	-.002510
#3	.006161	.0518553	.0547243	.0358494	.0514536	.0807649	-.000683

Sample Name: ICSAB01DLX20 Acquired: 8/14/2025 12:46:33 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001592	-.003843	.0001801
Stddev	.001007	.000939	.0000552
%RSD	63.25944	24.43630	30.63516

#1	-.001781	-.003166	.0001563
#2	-.000504	-.003447	.0001409
#3	-.002491	-.004915	.0002433

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5566.274	97840.60	10849.98	4224.092	7033.477
Stddev	8.015	219.34	30.21	11.940	9.229
%RSD	.1439980	.2241766	.2784520	.2826556	.1312137

#1	5557.491	97929.14	10853.22	4236.773	7024.237
#2	5568.138	97590.84	10818.27	4222.438	7033.498
#3	5573.194	98001.83	10878.43	4213.066	7042.695

Sample Name: CCV01 Acquired: 8/14/2025 12:50:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.074211	5.279395	4.962132	5.136518	5.102735	10.08323	9.908862
Stddev	.002136	.093187	.007171	.015562	.013369	.02114	.018850
%RSD	.0420911	1.765105	.1445090	.3029662	.2619942	.2096453	.1902362

#1	5.072552	5.190169	4.970401	5.118680	5.096017	10.09302	9.928591
#2	5.073459	5.376093	4.957625	5.143553	5.094058	10.05897	9.906961
#3	5.076620	5.271924	4.958370	5.147319	5.118131	10.09770	9.891034

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2495920	2.490153	25.01199	1.022039	2.492499	1.266680	5.009785
Stddev	.0011262	.003017	.07011	.003066	.003044	.000422	.012648
%RSD	.4512065	.1211662	.2803019	.2999458	.1221394	.0332885	.2524579

#1	.2506142	2.492413	25.06699	1.024907	2.494707	1.266891	4.995500
#2	.2497771	2.486727	25.03592	1.022401	2.489026	1.266194	5.019558
#3	.2483848	2.491320	24.93305	1.018808	2.493765	1.266954	5.014296

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.473673	24.92503	2.492797	1.269200	24.88896	2.513847	2.548355
Stddev	.010181	.06460	.002383	.000283	.03386	.004820	.007382
%RSD	.4115772	.2591822	.0955990	.0223307	.1360332	.1917414	.2896750

#1	2.484741	24.91509	2.494061	1.269515	24.92803	2.519350	2.552962
#2	2.471571	24.99402	2.490048	1.269116	24.87070	2.511820	2.552262
#3	2.464707	24.86597	2.494283	1.268967	24.86816	2.510372	2.539841

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.09230	4.980957	5.135268	4.992681	5.003937	5.069945	4.939930
Stddev	.00426	.018017	.003625	.002290	.016529	.022356	.007886
%RSD	.0169679	.3617099	.0705829	.0458728	.3303104	.4409544	.1596444

#1	25.09525	4.998847	5.133488	4.994548	5.020609	5.050058	4.944776
#2	25.09423	4.981207	5.132878	4.993370	5.003646	5.065634	4.930830
#3	25.08742	4.962816	5.139438	4.990125	4.987556	5.094142	4.944183

Sample Name: CCV01 Acquired: 8/14/2025 12:50:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.956511	4.929372	5.079991
Stddev	.013324	.022735	.018368
%RSD	.2688148	.4612141	.3615681

#1	4.946840	4.954332	5.094219
#2	4.950983	4.923938	5.059256
#3	4.971709	4.909846	5.086499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5481.655	96915.21	10942.63	4152.549	6579.175
Stddev	6.687	123.77	53.59	13.914	9.623
%RSD	.1219973	.1277114	.4897008	.3350621	.1462643

#1	5473.958	96880.79	10895.66	4162.661	6568.542
#2	5486.043	96812.29	10931.22	4136.681	6587.286
#3	5484.963	97052.55	11001.00	4158.305	6581.696

Sample Name: CCB01 Acquired: 8/14/2025 12:54:56 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000165	-.000959	.0002645	-.000817	.0010256	-.013473	-.002807
Stddev	.001951	.000617	.0004780	.000520	.0013679	.006106	.000893
%RSD	1182.610	64.35497	180.7352	63.65689	133.3720	45.32330	31.82256

#1	.000333	-.001557	.0001635	-.000659	.0014513	-.017936	-.003359
#2	.001489	-.000324	.0007849	-.000394	-.000504	-.006514	-.003286
#3	-.002317	-.000997	-.000155	-.001398	.002130	-.015968	-.001776

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000354	.0000612	.0126438	.0003876	-.000081	.0001444	.0001769
Stddev	.0000059	.0000327	.0029067	.0001092	.000134	.0005746	.0033815
%RSD	16.77645	53.34030	22.98918	28.16120	164.5226	397.8375	1911.749

#1	.0000292	.0000556	.0154798	.0002897	.000033	.0007913	-.003142
#2	.0000410	.0000963	.0096712	.0003679	-.000229	-.000051	.003617
#3	.0000361	.0000318	.0127803	.0005053	-.000049	-.000307	.000056

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000930	.0219449	.0001860	.0007198	-.006220	-.001147	.0008043
Stddev	.0003772	.0181410	.0000906	.0003053	.008694	.000554	.0001519
%RSD	405.4888	82.66611	48.69862	42.41174	139.7634	48.31889	18.88932

#1	-.000129	.0420857	.0000960	.0005948	-.014712	-.000614	.0008800
#2	-.000121	.0068889	.0001848	.0004968	.002662	-.001720	.0009036
#3	.000529	.0168601	.0002772	.0010677	-.006611	-.001108	.0006294

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003249	.0074898	.0007262	-.014487	.0001290	.0237067	-.001848
Stddev	.014680	.0002579	.0002442	.000420	.0012859	.0016135	.000519
%RSD	451.7650	3.442761	33.62055	2.897985	996.8694	6.805928	28.05405

#1	-.018882	.0076888	.0004609	-.014918	.0012858	.0223723	-.001507
#2	.010242	.0075821	.0009415	-.014463	-.001256	.0254999	-.001593
#3	-.001108	.0071985	.0007762	-.014080	.000357	.0232480	-.002445

Sample Name: CCB01 Acquired: 8/14/2025 12:54:56 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000127	-.001895	-.000015
Stddev	.001386	.000987	.000071
%RSD	1088.678	52.05329	482.4352

#1	.000645	-.001575	.000014
#2	.000700	-.003003	.000037
#3	-.001727	-.001109	-.000095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5676.254	101102.3	11071.46	4279.285	7396.664
Stddev	9.898	473.8	33.78	24.023	18.787
%RSD	.1743761	.4686708	.3050975	.5613776	.2539984

#1	5686.812	101095.7	11032.52	4272.258	7412.229
#2	5667.185	100631.7	11088.92	4259.560	7375.795
#3	5674.765	101579.3	11092.92	4306.038	7401.968

Sample Name: Q2832-01 Acquired: 8/14/2025 12:59:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0849478	-.032143	3.523241	.0059061	.0698530	85.45999	.9848550
Stddev	.0026202	.000187	.005837	.0006242	.0004410	.19262	.0063235
%RSD	3.084447	.5823578	.1656665	10.56881	.6312582	.2253958	.6420713

#1	.0819224	-.032355	3.526547	.0053158	.0693740	85.34143	.9884808
#2	.0864812	-.032073	3.526674	.0058431	.0702420	85.68224	.9885308
#3	.0864398	-.032001	3.516501	.0065594	.0699431	85.35629	.9775533

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076076	.0133278	70.47171	.2973433	.1227520	.8306538	258.6725
Stddev	.0001126	.0001854	.27303	.0004095	.0001876	.0012302	1.6062
%RSD	1.479519	1.390850	.3874383	.1377114	.1527931	.1480986	.6209220

#1	.0075107	.0131153	70.45046	.2977999	.1228570	.8303060	260.4023
#2	.0077311	.0134561	70.75474	.2970088	.1228635	.8320204	257.2283
#3	.0075812	.0134120	70.20991	.2972210	.1225354	.8296349	258.3870

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.679245	41.21518	.3032896	.0109548	2.751245	.3006464	1.524582
Stddev	.020172	.13377	.0003015	.0006795	.021812	.0006171	.004923
%RSD	.5482641	.3245699	.0994056	6.202613	.7928171	.2052551	.3228776

#1	3.687187	41.12035	.3029449	.0116502	2.775691	.3002989	1.529946
#2	3.694238	41.36819	.3035039	.0102924	2.733771	.3013588	1.523528
#3	3.656311	41.15700	.3034201	.0109219	2.744273	.3002813	1.520271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.26699	.1698241	.0106148	.1256281	4.236538	12.41740	5.783223
Stddev	.05788	.0085317	.0002579	.0007223	.018811	.06844	.004539
%RSD	.5637665	5.023816	2.429395	.5749885	.4440299	.5511320	.0784910

#1	10.33176	.1785096	.0103469	.1264461	4.238402	12.46728	5.780699
#2	10.22032	.1614551	.0108613	.1253603	4.254348	12.33938	5.780506
#3	10.24889	.1695075	.0106362	.1250778	4.216864	12.44554	5.788463

Sample Name: Q2832-01 Acquired: 8/14/2025 12:59:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.341203	.1415867	.1399467
Stddev	.008628	.0003778	.0026098
%RSD	.2582354	.2668313	1.864819

#1	3.339055	.1420226	.1402645
#2	3.350702	.1413543	.1423829
#3	3.333851	.1413831	.1371925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5898.345	105581.2	12640.65	4462.697	6388.471
Stddev	9.511	254.1	88.18	34.773	9.353
%RSD	.1612513	.2406654	.6976174	.7792031	.1464084

#1	5887.695	105288.0	12674.85	4427.291	6380.469
#2	5901.344	105737.3	12540.49	4463.999	6386.191
#3	5905.995	105718.3	12706.61	4496.801	6398.754

Sample Name: PB169236BL Acquired: 8/14/2025 13:03:19 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	-.000343	-.000630	-.000683	.0010537	-.013537	-.001923
Stddev	.001144	.001119	.000421	.000422	.0005938	.001093	.000310
%RSD	622.0139	326.3726	66.79209	61.73340	56.35601	8.074946	16.14259

#1	.000803	-.000809	-.000147	-.000646	.0005777	-.012275	-.001927
#2	-.001438	.000934	-.000918	-.001123	.0017192	-.014176	-.002232
#3	.000083	-.001154	-.000825	-.000281	.0008643	-.014160	-.001611

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	.0000264	.0126318	.0003141	-.000006	-.000076	.0038262
Stddev	.000025	.0000304	.0092322	.0001257	.000026	.000235	.0030381
%RSD	3787.396	115.1308	73.08706	40.04142	414.4529	307.9972	79.40327

#1	.000011	.0000572	.0229320	.0004575	-.000036	-.000254	.0022586
#2	-.000030	-.000004	.0051022	.0002226	.000010	.000190	.0073280
#3	.000017	.000025	.0098610	.0002621	.000008	-.000165	.0018921

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000004	.0092342	-.000006	.0008173	-.014275	-.001051	.0013281
Stddev	.000431	.0101750	.000150	.0001589	.018283	.001624	.0001558
%RSD	9805.271	110.1882	2561.568	19.44642	128.0744	154.5788	11.73461

#1	.000403	.0209633	.000164	.0009904	-.034884	-.002840	.0014986
#2	-.000456	.0027769	-.000062	.0007835	-.007935	.000332	.0012925
#3	.000040	.0039623	-.000120	.0006779	-.000007	-.000645	.0011931

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007943	.0009282	.0002560	-.014674	-.000443	.0270201	-.001330
Stddev	.0138255	.0007414	.0001209	.000460	.000894	.0043256	.001543
%RSD	1740.660	79.87092	47.24800	3.136404	201.9503	16.00891	116.0029

#1	-.015055	.0001890	.0003955	-.015204	.000292	.0312689	-.002957
#2	.010376	.0009238	.0001901	-.014372	-.000182	.0271697	.000111
#3	.007061	.0016718	.0001823	-.014447	-.001439	.0226216	-.001143

Sample Name: PB169236BL Acquired: 8/14/2025 13:03:19 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000467	-.002062	-.000145
Stddev	.000936	.001458	.000012
%RSD	200.3144	70.69185	8.539297

#1	.000286	-.003737	-.000131
#2	-.000173	-.001075	-.000150
#3	-.001515	-.001375	-.000155

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5752.469	99853.72	11008.01	4272.118	7500.170
Stddev	10.083	171.58	71.72	16.260	12.947
%RSD	.1752770	.1718264	.6515137	.3806148	.1726223

#1	5743.732	100051.8	11090.47	4290.823	7486.899
#2	5763.502	99751.5	10973.31	4264.167	7512.766
#3	5750.172	99757.8	10960.23	4261.362	7500.847

Sample Name: PB169236BS Acquired: 8/14/2025 13:07:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8026698	2.164346	.9798474	2.036521	.8164822	2.039176
Stddev	.0009291	.014011	.0052886	.009788	.0047584	.007136
%RSD	.1157567	.6473577	.5397399	.4806236	.5827928	.3499452

#1	.8025269	2.180524	.9848266	2.044150	.8198742	2.036153
#2	.8036621	2.156305	.9804198	2.039929	.8185296	2.047326
#3	.8018204	2.156207	.9742959	2.025485	.8110428	2.034050

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963100	.2047273	.1944304	1.056541	.4220973	.2000031
Stddev	.0007919	.0008238	.0010270	.011891	.0004899	.0012484
%RSD	.4033992	.4023663	.5281999	1.125466	.1160704	.6241661

#1	.1967376	.2045812	.1947092	1.058225	.4225913	.2007335
#2	.1967962	.2056144	.1952891	1.067500	.4216115	.2007141
#3	.1953962	.2039864	.1932928	1.043898	.4220891	.1985617

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3157385	3.044881	.2049977	2.066221	.5020989	.0779516
Stddev	.0018878	.014438	.0012511	.023705	.0020570	.0002890
%RSD	.5978965	.4741779	.6102873	1.147284	.4096827	.3707458

#1	.3167082	3.036529	.2036781	2.044819	.5030243	.0777203
#2	.3169444	3.036561	.2051483	2.062143	.5035306	.0782755
#3	.3135630	3.061553	.2061666	2.091701	.4997417	.0778590

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.831934	.3074018	.2125918	9.864105	.3009030	.4170913
Stddev	.019825	.0003479	.0003682	.042548	.0011912	.0013774
%RSD	.7000490	.1131699	.1732008	.4313412	.3958707	.3302399

#1	2.811605	.3070937	.2123863	9.835452	.3008475	.4183974
#2	2.832984	.3073324	.2123722	9.843869	.3021210	.4172243
#3	2.851213	.3077791	.2130169	9.912994	.2997405	.4156523

Sample Name: PB169236BS Acquired: 8/14/2025 13:07:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6660585	.1966644	.9102837	5.659030	F .0013079	.2066199
Stddev	.0036752	.0011828	.0032457	.016854	.0021480	.0014179
%RSD	.5517861	.6014231	.3565596	.2978279	164.2357	.6862545
#1	.6691373	.1954869	.9087794	5.657030	-.001143	.2051556
#2	.6670485	.1978524	.9080631	5.676795	.002861	.2067177
#3	.6619896	.1966539	.9140086	5.643265	.002206	.2079864

Elem	Sr4077
Units	ppm
Avg	.1989483
Stddev	.0004839
%RSD	.2432503
#1	.1984144
#2	.1990722
#3	.1993582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5656.513	100223.7	11102.72	4265.256	7164.316
Stddev	22.231	302.9	41.78	18.930	28.838
%RSD	.3930093	.3022238	.3762620	.4438260	.4025266
#1	5639.986	99953.7	11073.37	4258.412	7156.137
#2	5647.767	100551.3	11084.24	4286.657	7140.450
#3	5681.787	100166.1	11150.55	4250.700	7196.360

Sample Name: PB169232BL Acquired: 8/14/2025 13:11:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000191	-.000224	.0004159	-.003748	.0012251	-.014184	-.003052
Stddev	.001194	.001259	.0003879	.001709	.0020130	.005839	.001281
%RSD	625.0031	561.7904	93.27086	45.60719	164.3105	41.16625	41.98386

#1	.000797	-.000202	.0008512	-.005464	.0033278	-.010280	-.004312
#2	-.001517	.001023	.0001067	-.003733	.0010321	-.020897	-.001750
#3	.000148	-.001494	.0002899	-.002046	-.000684	-.011376	-.003094

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000026	.0000152	.0093632	.0004780	-.000117	-.000440	.0011853
Stddev	.000023	.0000108	.0139384	.0004767	.000102	.000213	.0042438
%RSD	88.16308	71.08071	148.8637	99.73258	86.88219	48.53491	358.0328

#1	-.000005	.0000046	-.005414	.0009700	-.000000	-.000341	.0031714
#2	-.000050	.0000262	.022275	.0000182	-.000167	-.000685	.0040718
#3	-.000022	.0000149	.011229	.0004458	-.000184	-.000294	-.003687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001157	.0132592	.0002501	.0006978	-.019177	-.001103	.0002765
Stddev	.0004498	.0285702	.0000446	.0001509	.003880	.001592	.0001989
%RSD	388.8221	215.4751	17.83180	21.62042	20.23406	144.3447	71.92573

#1	.0006184	.0227635	.0002000	.0005286	-.015175	-.001329	.0000622
#2	-.000249	-.018852	.0002854	.0007462	-.019434	-.002569	.0004552
#3	-.000023	.035866	.0002649	.0008184	-.022922	.000590	.0003121

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113781	-.000373	.0003052	-.014746	.0000560	.0135048	-.001305
Stddev	.0124744	.000640	.0001366	.000812	.0009865	.0082466	.001445
%RSD	109.6353	171.6747	44.77348	5.506013	1760.303	61.06425	110.7682

#1	.0216732	-.000810	.0002118	-.014742	-.000688	.0169123	-.002179
#2	.0149551	.000361	.0002418	-.015560	.001175	.0195015	-.002099
#3	-.002494	-.000669	.0004620	-.013936	-.000319	.0041005	.000363

Sample Name: PB169232BL Acquired: 8/14/2025 13:11:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003117	-.003463	-.000068
Stddev	.000240	.001185	.000038
%RSD	7.690640	34.21055	55.56813

#1	-.003092	-.002379	-.000088
#2	-.003367	-.003281	-.000092
#3	-.002890	-.004728	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5746.506	99638.27	11044.59	4274.536	7482.413
Stddev	1.721	338.32	39.87	7.479	6.213
%RSD	.0299440	.3395516	.3609561	.1749711	.0830329

#1	5744.783	99287.97	11089.56	4278.782	7489.109
#2	5748.225	99963.19	11030.66	4265.900	7476.836
#3	5746.510	99663.64	11013.57	4278.925	7481.294

Sample Name: PB169232BS Acquired: 8/14/2025 13:15:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7993041	2.146844	.9768165	2.024524	.8281554	2.041400
Stddev	.0034986	.065055	.0038261	.004525	.0030911	.012885
%RSD	.4377029	3.030273	.3916910	.2235128	.3732456	.6311733

#1	.8013505	2.179342	.9805795	2.028117	.8305336	2.030402
#2	.7952644	2.189248	.9769397	2.026014	.8246614	2.055577
#3	.8012974	2.071943	.9729303	2.019442	.8292713	2.038222

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1949101	.2047974	.1940002	1.059667	.4200512	.1998247
Stddev	.0019800	.0005373	.0003567	.004843	.0012170	.0001243
%RSD	1.015856	.2623757	.1838781	.4570130	.2897262	.0622241

#1	.1963896	.2046912	.1943562	1.059982	.4213479	.1999595
#2	.1956799	.2043212	.1940017	1.064345	.4189338	.1997145
#3	.1926608	.2053800	.1936428	1.054675	.4198719	.1998001

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3157200	3.037934	.2061098	2.054344	.5012919	.0776901
Stddev	.0005854	.009151	.0008006	.005582	.0002140	.0002805
%RSD	.1854056	.3012267	.3884419	.2716999	.0426937	.3610976

#1	.3162360	3.048435	.2064437	2.052784	.5014727	.0777296
#2	.3150839	3.031663	.2051963	2.060539	.5013473	.0779487
#3	.3158400	3.033703	.2066895	2.049708	.5010556	.0773919

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.807027	.3083148	.2118264	9.810849	.3004155	.4262257
Stddev	.040451	.0029559	.0005247	.056314	.0007495	.0003765
%RSD	1.441049	.9587416	.2477238	.5740006	.2494726	.0883418

#1	2.846066	.3081497	.2114382	9.874980	.3000287	.4260426
#2	2.765299	.3113498	.2116176	9.769470	.2999385	.4266587
#3	2.809716	.3054449	.2124234	9.788096	.3012793	.4259757

Sample Name: PB169232BS Acquired: 8/14/2025 13:15:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6822921	.2001597	.9298091	5.628213	F -.000220	.2047625
Stddev	.0009031	.0019768	.0060502	.007872	.003477	.0011218
%RSD	.1323641	.9876245	.6506946	.1398708	1582.131	.5478591

#1	.6824698	.2024286	.9287541	5.636348	-.004075	.2046900
#2	.6830932	.1988084	.9363174	5.627656	.000736	.2059188
#3	.6813134	.1992423	.9243557	5.620633	.002679	.2036787

Elem	Sr4077
Units	ppm
Avg	.1985551
Stddev	.0014115
%RSD	.7108913

#1	.2001842
#2	.1976956
#3	.1977856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5667.323	99853.24	10999.42	4246.639	7177.427
Stddev	7.953	124.69	22.46	9.804	19.217
%RSD	.1403267	.1248767	.2042235	.2308669	.2677426

#1	5658.141	99797.01	11002.70	4246.263	7160.298
#2	5671.793	99996.15	11020.07	4256.625	7173.774
#3	5672.034	99766.56	10975.51	4237.028	7198.208

Sample Name: PB169212TB Acquired: 8/14/2025 13:19:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002215	.0007873	-.000910	.0025764	.0031924	-.016453	-.005356
Stddev	.001324	.0005362	.001627	.0017803	.0003497	.008070	.000666
%RSD	59.76340	68.10912	178.8387	69.10083	10.95286	49.04723	12.42947

#1	-.003626	.0013803	-.000758	.0042705	.0034888	-.019131	-.004784
#2	-.001000	.0006452	-.002607	.0027376	.0032817	-.022844	-.006087
#3	-.002019	.0003365	.000636	.0007209	.0028067	-.007385	-.005199

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000140	-.000003	.0514656	.0005169	-.000329	.0000087	.0113251
Stddev	.000015	.000042	.0057310	.0002133	.000125	.0000776	.0035908
%RSD	10.43381	1596.592	11.13564	41.27664	38.08529	890.2378	31.70674

#1	-.000145	.000000	.0569141	.0005111	-.000275	.0000260	.0073425
#2	-.000124	.000038	.0519939	.0003065	-.000239	.0000762	.0123172
#3	-.000152	-.000046	.0454887	.0007330	-.000472	-.000076	.0143155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030696	-.004258	.0012771	.0005945	505.1217	-.000122	.0026746
Stddev	.0000361	.019915	.0002069	.0003021	7.2947	.001382	.0001316
%RSD	1.177718	467.6891	16.19615	50.81880	1.444144	1136.049	4.920818

#1	.0030858	-.000283	.0011369	.0006050	512.4382	-.000046	.0028020
#2	.0030948	.013369	.0015147	.0008911	505.0780	-.001541	.0025392
#3	.0030282	-.025861	.0011799	.0002872	497.8490	.001221	.0026827

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1468571	-.001434	.0005378	-.015085	-.000035	.0147731	.0085399
Stddev	.0395992	.000818	.0002217	.000614	.000699	.0041131	.0014288
%RSD	26.96443	57.05767	41.21986	4.068268	2013.953	27.84199	16.73062

#1	.1632247	-.002279	.0003279	-.015125	-.000841	.0123020	.0084188
#2	.1756486	-.001376	.0005158	-.014452	.000394	.0195212	.0071756
#3	.1016980	-.000646	.0007696	-.015677	.000343	.0124961	.0100254

Sample Name: PB169212TB Acquired: 8/14/2025 13:19:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0751545	-.007809	.0000969
Stddev	.0012677	.000410	.0000741
%RSD	1.686792	5.251508	76.45738

#1	.0750926	-.007675	.0001824
#2	.0739189	-.008269	.0000564
#3	.0764520	-.007482	.0000519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5302.125	92786.67	11300.96	4012.004	6283.353
Stddev	4.181	168.89	3.47	12.388	9.835
%RSD	.0788644	.1820246	.0307480	.3087791	.1565277

#1	5301.362	92630.28	11301.45	4000.849	6278.974
#2	5306.635	92763.96	11297.26	4025.336	6294.618
#3	5298.377	92965.77	11304.16	4009.826	6276.468

Sample Name: Q2732-03 Acquired: 8/14/2025 13:24:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002525	.0030264	-.000327	-.001844	.0011824	.1990329	.0446824
Stddev	.001641	.0005735	.001242	.002884	.0009512	.0063635	.0012880
%RSD	65.01145	18.94866	380.1969	156.3696	80.45074	3.197220	2.882521
#1	-.002670	.0036774	-.000255	.000855	.0005466	.1930363	.0459961
#2	-.000815	.0025961	.000878	-.004883	.0022759	.2057088	.0434218
#3	-.004088	.0028056	-.001603	-.001504	.0007246	.1983537	.0446293
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	-.000018	187.9807	.0040528	.0001959	.0023594	.1527361
Stddev	.000044	.000072	.1111	.0003225	.0002699	.0002334	.0038122
%RSD	385.6459	399.9069	.0591103	7.956437	137.7144	9.889959	2.495947
#1	-.000045	-.000032	188.0132	.0041736	-.000112	.0026103	.1500516
#2	-.000027	-.000082	188.0719	.0036874	.000309	.0023191	.1510571
#3	.000038	.000060	187.8569	.0042975	.000391	.0021489	.1570997
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0140389	8.458787	.0012779	.0005754	477.8157	.0030552	.0092256
Stddev	.0000378	.040804	.0004633	.0000956	4.9821	.0005232	.0001746
%RSD	.2689662	.4823863	36.25488	16.61499	1.042690	17.12419	1.892562
#1	.0140429	8.495978	.0008505	.0004650	476.8922	.0024998	.0093847
#2	.0139993	8.415139	.0017702	.0006280	473.3599	.0031273	.0090388
#3	.0140745	8.465244	.0012129	.0006331	483.1949	.0035387	.0092533
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.579443	.0461575	.0067540	-.017163	-.000388	4.658472	.0159002
Stddev	.111322	.0006907	.0001339	.000813	.001282	.044878	.0020021
%RSD	1.162093	1.496505	1.981838	4.737997	330.1812	.9633715	12.59192
#1	9.454936	.0469550	.0066004	-.016239	.000080	4.625900	.0157413
#2	9.669375	.0457527	.0068454	-.017772	.000593	4.709663	.0139823
#3	9.614018	.0457646	.0068163	-.017477	-.001838	4.639852	.0179771

Sample Name: Q2732-03 Acquired: 8/14/2025 13:24:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	13.92828	-.023665	.9919014
Stddev	.01852	.001624	.0031766
%RSD	.1329655	6.862872	.3202545

#1	13.91534	-.024601	.9887443
#2	13.92001	-.021790	.9950972
#3	13.94949	-.024605	.9918625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5190.585	92352.91	11666.15	3940.610	6078.374
Stddev	6.688	198.48	97.91	16.798	10.569
%RSD	.1288444	.2149131	.8393042	.4262781	.1738773

#1	5192.143	92130.57	11557.71	3955.026	6090.457
#2	5196.356	92415.94	11748.09	3922.164	6070.846
#3	5183.256	92512.21	11692.65	3944.640	6073.820

Sample Name: Q2832-02 Acquired: 8/14/2025 13:28:50 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001778	.0014870	.0156331	.0004477	.0024468	.0925434	.1509231
Stddev	.001158	.0003270	.0007161	.0017476	.0015496	.0097667	.0013942
%RSD	65.11151	21.98894	4.580555	390.3396	63.33342	10.55367	.9237595

#1	-.002706	.0016745	.0156049	.0004702	.0020697	.1012899	.1515071
#2	-.000481	.0011094	.0163628	-.001311	.0041502	.0943358	.1493319
#3	-.002148	.0016770	.0149315	.002184	.0011205	.0820047	.1519303

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000052	.0005255	53.96986	.0006473	.0006563	.0087101	.0813422
Stddev	.000067	.0000442	.10523	.0000572	.0001435	.0002104	.0065046
%RSD	127.9392	8.401646	.1949815	8.833881	21.87003	2.415203	7.996544

#1	-.000042	.0005320	54.04419	.0006087	.0006964	.0089530	.0793595
#2	.000009	.0004785	53.84945	.0007129	.0004970	.0085879	.0760597
#3	-.000123	.0005661	54.01595	.0006201	.0007755	.0085894	.0886073

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2084312	1.161739	.0032185	.0006603	366.7155	.0016561	.1034500
Stddev	.0007563	.011412	.0001823	.0000777	5.9461	.0011196	.0004446
%RSD	.3628542	.9822828	5.664487	11.77072	1.621443	67.60814	.4297578

#1	.2086941	1.170330	.0033316	.0006237	373.5786	.0029210	.1032042
#2	.2075786	1.148791	.0030082	.0006077	363.1111	.0007921	.1039632
#3	.2090211	1.166096	.0033158	.0007496	363.4569	.0012551	.1031826

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463691	.0106612	.0005722	-.016764	-.001067	.9855768	.1474628
Stddev	.017734	.0003697	.0001703	.000871	.000669	.0075400	.0018149
%RSD	.7198071	3.467405	29.77290	5.197670	62.69316	.7650321	1.230740

#1	2.475552	.0106179	.0006237	-.017296	-.000783	.9926711	.1489854
#2	2.443304	.0110506	.0003820	-.015758	-.001830	.9864005	.1479485
#3	2.472217	.0103151	.0007108	-.017237	-.000586	.9776588	.1454545

Sample Name: Q2832-02 Acquired: 8/14/2025 13:28:50 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9937301	-.014365	.2413699
Stddev	.0006766	.001209	.0007795
%RSD	.0680899	8.417627	.3229413

#1	.9929645	-.014932	.2414964
#2	.9939777	-.012977	.2405349
#3	.9942480	-.015187	.2420784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5396.306	93451.97	11792.99	3988.351	6423.447
Stddev	5.857	78.15	71.33	14.136	.716
%RSD	.1085366	.0836227	.6048712	.3544239	.0111396

#1	5400.691	93476.06	11725.50	4000.130	6424.011
#2	5398.574	93364.62	11785.85	3992.247	6422.642
#3	5389.654	93515.24	11867.63	3972.676	6423.687

Sample Name: Q2832-04 Acquired: 8/14/2025 13:33:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002570	.0015171	.0123383	-.000934	.0016139	.1274299	.1549693
Stddev	.002257	.0017488	.0012869	.002172	.0011098	.0088936	.0008927
%RSD	87.80459	115.2748	10.43012	232.4530	68.76448	6.979236	.5760601

#1	-.000332	.0034799	.0114913	-.002728	.0028697	.1374241	.1555922
#2	-.002534	.0001248	.0138191	.001480	.0007651	.1244781	.1539466
#3	-.004846	.0009465	.0117044	-.001555	.0012069	.1203874	.1553691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000055	.0011923	30.40896	.0008662	.0013515	.0249227	.1711052
Stddev	.000015	.0000459	.06866	.0002087	.0002169	.0003279	.0036261
%RSD	28.14843	3.846886	.2257742	24.09000	16.05084	1.315559	2.119207

#1	-.000072	.0011977	30.45782	.0007808	.0011011	.0246445	.1677127
#2	-.000052	.0011439	30.33046	.0007139	.0014841	.0252842	.1706760
#3	-.000041	.0012351	30.43859	.0011041	.0014691	.0248395	.1749267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2168605	2.314825	.0102058	.0006051	469.6403	.0009723	.2771602
Stddev	.0011182	.008675	.0001018	.0000911	9.4183	.0014463	.0006505
%RSD	.5156493	.3747767	.9971528	15.05167	2.005437	148.7367	.2347109

#1	.2180655	2.314120	.0102959	.0005022	479.3737	.0002679	.2775469
#2	.2158562	2.323832	.0102261	.0006380	460.5723	.0000133	.2764092
#3	.2166598	2.306524	.0100954	.0006752	468.9749	.0026358	.2775247

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.507390	.0067499	.0005235	-.017016	.0008923	1.258656	.0324497
Stddev	.023825	.0004663	.0003260	.000282	.0002768	.012898	.0045707
%RSD	1.580514	6.907726	62.28673	1.654900	31.02509	1.024783	14.08548

#1	1.532819	.0070561	.0001473	-.017258	.0010356	1.270829	.0303102
#2	1.485586	.0062133	.0006979	-.016707	.0005732	1.260003	.0376977
#3	1.503766	.0069804	.0007252	-.017083	.0010682	1.245137	.0293411

Sample Name: Q2832-04 Acquired: 8/14/2025 13:33:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3007068	-.010447	.1638651
Stddev	.0013065	.000500	.0007058
%RSD	.4344911	4.788779	.4306926

#1	.2992066	-.010067	.1646580
#2	.3013187	-.010259	.1633054
#3	.3015951	-.011014	.1636321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5295.073	93140.63	11695.54	3966.536	6268.119
Stddev	6.506	390.73	57.05	21.918	8.675
%RSD	.1228714	.4195021	.4877937	.5525846	.1384042

#1	5287.703	92800.74	11641.46	3957.697	6259.215
#2	5297.498	93567.53	11755.16	3991.493	6276.546
#3	5300.018	93053.64	11689.99	3950.416	6268.596

Sample Name: Q2832-06 Acquired: 8/14/2025 13:37:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002157	-.000351	.0156132	.0009000	.0028024	.1585958	.1074507
Stddev	.001164	.000283	.0005143	.0031063	.0016424	.0081251	.0008275
%RSD	53.95305	80.66765	3.294125	345.1395	58.60600	5.123143	.7701610

#1	-.002834	-.000199	.0161692	-.001452	.0013032	.1515293	.1071219
#2	-.002824	-.000177	.0151544	.004421	.0025462	.1674737	.1083921
#3	-.000813	-.000677	.0155161	-.000269	.0045579	.1567844	.1068381

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000043	.0010177	20.63971	.0007778	.0003594	.0165424	.2175752
Stddev	.0000314	.0000470	.02860	.0001631	.0000590	.0001830	.0046561
%RSD	723.8885	4.616241	.1385575	20.96791	16.42095	1.105941	2.139977

#1	.0000180	.0010702	20.65029	.0009058	.0003185	.0163642	.2202550
#2	-.000032	.0010032	20.60733	.0008335	.0004271	.0167297	.2121988
#3	.000027	.0009797	20.66152	.0005942	.0003327	.0165333	.2202717

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0642835	2.187123	.0060615	.0007286	371.0600	.0003435	.2354985
Stddev	.0007339	.018767	.0000474	.0002171	5.5116	.0005049	.0002992
%RSD	1.141725	.8580483	.7815382	29.80324	1.485355	146.9782	.1270410

#1	.0640467	2.206999	.0060344	.0006450	366.2831	-.000190	.2355684
#2	.0651066	2.169709	.0061162	.0009752	377.0903	.000814	.2357565
#3	.0636971	2.184661	.0060339	.0005657	369.8066	.000406	.2351705

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.779906	.0076524	.0005119	-.015108	.0038745	1.174138	.0470076
Stddev	.015893	.0004716	.0001438	.000478	.0009746	.004961	.0019320
%RSD	.8929228	6.162230	28.09012	3.162978	25.15370	.4225572	4.109986

#1	1.768807	.0078338	.0006263	-.015494	.0028019	1.177289	.0489330
#2	1.772798	.0080062	.0003505	-.014573	.0041157	1.168419	.0470206
#3	1.798112	.0071170	.0005589	-.015256	.0047057	1.176707	.0450690

Sample Name: Q2832-06 Acquired: 8/14/2025 13:37:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2658859	-.009142	.1221407
Stddev	.0024769	.001094	.0002536
%RSD	.9315806	11.96781	.2076483

#1	.2687404	-.007987	.1218946
#2	.2646144	-.010163	.1224012
#3	.2643030	-.009276	.1221262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5384.414	94856.64	11907.35	3981.883	6439.593
Stddev	7.359	282.57	16.50	9.978	18.479
%RSD	.1366640	.2978935	.1385661	.2505748	.2869560

#1	5384.751	95129.01	11900.66	3989.003	6431.911
#2	5391.598	94564.86	11895.25	3970.478	6460.674
#3	5376.892	94876.03	11926.15	3986.167	6426.195

Sample Name: CCV02 Acquired: 8/14/2025 13:42:02 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.086368	5.037551	4.894037	5.142287	5.139685	9.981818	9.915609
Stddev	.022503	.089432	.008144	.013002	.008663	.016892	.085802
%RSD	.4424256	1.775304	.1664024	.2528476	.1685491	.1692308	.8653256

#1	5.097390	4.981901	4.886996	5.143653	5.135322	9.995577	10.00982
#2	5.060478	4.990042	4.892158	5.128655	5.134072	9.962965	9.84194
#3	5.101236	5.140711	4.902956	5.154552	5.149662	9.986913	9.89507

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2326132	2.462555	24.63772	1.019246	2.475016	1.264058	5.259000
Stddev	.0005989	.003577	.05845	.001702	.002895	.002972	.025651
%RSD	.2574812	.1452482	.2372567	.1669955	.1169732	.2351014	.4877558

#1	.2330891	2.459285	24.60826	1.020106	2.473752	1.265075	5.240414
#2	.2319406	2.462004	24.70504	1.017285	2.472968	1.260711	5.288265
#3	.2328097	2.466375	24.59985	1.020346	2.478328	1.266388	5.248320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.430986	24.38542	2.478882	1.257142	24.98253	2.501527	2.575512
Stddev	.008396	.09652	.002193	.000782	.08616	.006678	.003322
%RSD	.3453662	.3958009	.0884818	.0621795	.3448779	.2669645	.1289796

#1	2.423080	24.41652	2.477239	1.256470	24.88307	2.494432	2.571738
#2	2.430080	24.46256	2.478035	1.256956	25.03033	2.507690	2.576807
#3	2.439798	24.27719	2.481373	1.258000	25.03419	2.502459	2.577992

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.72777	4.617364	5.178719	4.926183	4.971954	5.295730	4.689323
Stddev	.10760	.012181	.014301	.011763	.012344	.033610	.013022
%RSD	.4025922	.2638121	.2761460	.2387883	.2482685	.6346596	.2777006

#1	26.61490	4.624496	5.176463	4.925514	4.957813	5.256926	4.677816
#2	26.82920	4.603299	5.165680	4.914768	4.977474	5.315646	4.703459
#3	26.73922	4.624297	5.194014	4.938266	4.980574	5.314619	4.686693

Sample Name: CCV02 Acquired: 8/14/2025 13:42:02 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.852704	4.887713	5.037084
Stddev	.020029	.015006	.087066
%RSD	.4127350	.3070207	1.728508

#1	4.839508	4.870585	5.101292
#2	4.842852	4.894003	5.071976
#3	4.875750	4.898551	4.937983

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5507.948	97701.68	11756.51	4109.109	6667.151
Stddev	15.668	49.07	28.44	6.555	9.313
%RSD	.2844530	.0502218	.2419259	.1595157	.1396917

#1	5503.981	97672.65	11724.35	4108.964	6664.929
#2	5525.218	97674.06	11778.38	4102.628	6677.374
#3	5494.645	97758.33	11766.79	4115.735	6659.150

Sample Name: CCB02 Acquired: 8/14/2025 13:46:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000990	-.000706	.0004601	-.001342	.0018922	-.016098
Stddev	.0009153	.000372	.0005815	.001084	.0004800	.002429
%RSD	924.0457	52.62780	126.3751	80.79991	25.36733	15.08872

#1	.0010144	-.000624	.0009033	-.000243	.0024021	-.017765
#2	-.000816	-.001113	.0006754	-.001371	.0014491	-.017217
#3	.000099	-.000383	-.000198	-.002411	.0018254	-.013311

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005193	-.000011	.0000319	.0116653	.0005872	.0000443
Stddev	.000606	.000047	.0000438	.0051223	.0002236	.0001606
%RSD	11.66270	434.0609	137.1184	43.90997	38.08140	362.1087

#1	-.004807	-.000054	.0000438	.0122976	.0008366	.0000247
#2	-.004882	.000039	.0000685	.0164421	.0005203	-.000105
#3	-.005892	-.000017	-.000017	.0062563	.0004047	.000214

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000648	.0019735	.0003334	.0077073	.0003337	.0005772
Stddev	.0002030	.0006013	.0002067	.0007598	.0001938	.0002537
%RSD	313.4915	30.46584	61.97903	9.857684	58.07599	43.95510

#1	.0002959	.0015743	.0005676	.0081375	.0001875	.0006588
#2	-.000017	.0026650	.0001766	.0081543	.0002601	.0002927
#3	-.000085	.0016812	.0002561	.0068300	.0005535	.0007800

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5853130	-.000640	.0009600	.4405304	.0058278	.0005575
Stddev	.0114065	.002330	.0002126	.0074998	.0007876	.0002426
%RSD	1.948783	364.3190	22.14898	1.702436	13.51495	43.52257

#1	.5872642	.002025	.0007377	.4417908	.0054769	.0007239
#2	.5956180	-.001648	.0011615	.4473201	.0067299	.0006696
#3	.5730568	-.002295	.0009809	.4324803	.0052766	.0002791

Sample Name: CCB02 Acquired: 8/14/2025 13:46:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014547	.0005928	.0208950	-.001898	.0006684	F .0133973
Stddev	.000397	.0010367	.0098217	.003027	.0014532	.0016911
%RSD	2.726554	174.8757	47.00493	159.5406	217.4237	12.62252

#1	-.014093	.0014122	.0202600	-.003012	-.000555	.0149349
#2	-.014823	.0009390	.0114062	-.004210	.002275	.0136708
#3	-.014726	-.000573	.0310188	.001529	.000285	.0115861

Elem	Sr4077
Units	ppm
Avg	-.000034
Stddev	.000004
%RSD	10.67865

#1	-.000030
#2	-.000035
#3	-.000036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5676.905	101452.1	11306.23	4222.441	7429.634
Stddev	12.631	430.9	43.87	30.623	21.199
%RSD	.2224934	.4247195	.3879945	.7252363	.2853312

#1	5662.430	101756.0	11353.76	4239.474	7405.410
#2	5685.692	100959.0	11297.62	4187.089	7438.696
#3	5682.592	101641.3	11267.31	4240.761	7444.796

Sample Name: Q2832-08 Acquired: 8/14/2025 13:50:32 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002079	.0020433	.0076410	.0009020	.0009460	.0941768	.1650888
Stddev	.002206	.0007381	.0002131	.0004129	.0010649	.0086471	.0008676
%RSD	106.0984	36.12457	2.788261	45.77835	112.5644	9.181799	.5255055

#1	-.000088	.0016309	.0076573	.0010817	.0021680	.0933532	.1658641
#2	-.004451	.0016035	.0078455	.0004297	.0004535	.0859709	.1652504
#3	-.001698	.0028955	.0074203	.0011946	.0002166	.1032062	.1641518

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000037	.0011332	35.87144	.0028769	.0024427	.0147477	.0851282
Stddev	.000043	.0000053	.06381	.0002148	.0001282	.0002310	.0049214
%RSD	117.1747	.4660960	.1778911	7.466279	5.248147	1.566445	5.781164

#1	-.000056	.0011377	35.91398	.0026316	.0025187	.0146995	.0808915
#2	-.000067	.0011346	35.90227	.0029676	.0022947	.0145446	.0905265
#3	.000013	.0011274	35.79807	.0030314	.0025148	.0149991	.0839667

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1104402	4.899326	.0203182	.0006350	381.8625	.0002139	.1337667
Stddev	.0005377	.032354	.0001185	.0004233	.7119	.0002346	.0006461
%RSD	.4868379	.6603783	.5834145	66.66557	.1864333	109.6746	.4829693

#1	.1109942	4.936657	.0204182	.0004870	381.1731	.0001548	.1330219
#2	.1099205	4.881930	.0203492	.0011124	382.5949	.0004724	.1341751
#3	.1104059	4.879391	.0201873	.0003055	381.8195	.0000145	.1341032

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.302540	.0164972	.0007884	-.016571	.0010461	1.193944	.0627657
Stddev	.059398	.0003471	.0003981	.000468	.0011861	.021405	.0024710
%RSD	2.579668	2.104062	50.48764	2.825567	113.3788	1.792835	3.936777

#1	2.293133	.0166509	.0011957	-.016612	-.000320	1.196009	.0622789
#2	2.248407	.0167410	.0007693	-.017017	.001647	1.171581	.0605745
#3	2.366080	.0160998	.0004003	-.016083	.001812	1.214242	.0654439

Sample Name: Q2832-08 Acquired: 8/14/2025 13:50:32 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3667730	-.011612	.1630525
Stddev	.0065838	.002275	.0005624
%RSD	1.795048	19.58929	.3449027

#1	.3614882	-.012765	.1636644
#2	.3646827	-.013080	.1629349
#3	.3741482	-.008992	.1625583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5374.143	93559.42	11638.51	3980.098	6399.883
Stddev	1.693	149.94	70.55	2.988	5.635
%RSD	.0315087	.1602566	.6061879	.0750655	.0880439

#1	5375.389	93442.13	11559.52	3978.728	6403.642
#2	5374.824	93728.35	11660.73	3983.525	6402.603
#3	5372.215	93507.78	11695.28	3978.042	6393.405

Sample Name: Q2832-10 Acquired: 8/14/2025 13:54:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001374	-.000110	.0282103	-.000295	.0010231	.0270327	.0815509
Stddev	.001293	.001396	.0004739	.000061	.0001974	.0060421	.0007444
%RSD	94.08022	1268.674	1.679703	20.62061	19.29564	22.35123	.9127718

#1	-.002237	-.001712	.0280121	-.000254	.0012277	.0220294	.0815729
#2	.000112	.000540	.0278678	-.000265	.0010076	.0253233	.0822841
#3	-.001999	.000842	.0287511	-.000365	.0008338	.0337454	.0807959

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000060	.0001518	11.04886	.0007135	.0005378	.0099425	.1145575
Stddev	.000025	.0000790	.03453	.0000530	.0001606	.0001426	.0020144
%RSD	42.66212	52.07733	.3124899	7.431267	29.85558	1.433956	1.758456

#1	-.000074	.0000855	11.07432	.0007565	.0005934	.0099844	.1151175
#2	-.000030	.0002393	11.06269	.0006542	.0003568	.0097836	.1123223
#3	-.000074	.0001306	11.00956	.0007297	.0006632	.0100594	.1162326

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0319724	1.665520	.0030832	.0006419	324.8458	.0009041	.0588031
Stddev	.0004829	.027327	.0003668	.0001420	4.5889	.0005002	.0003128
%RSD	1.510314	1.640739	11.89684	22.11627	1.412651	55.33225	.5319812

#1	.0320126	1.659159	.0028413	.0007329	324.8913	.0010344	.0591537
#2	.0324339	1.695466	.0035053	.0004783	329.4118	.0003516	.0587031
#3	.0314706	1.641935	.0029032	.0007143	320.2343	.0013262	.0585525

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.435021	.0049988	.0005318	-.015353	.0000003	.5202709	.0814415
Stddev	.048974	.0004964	.0000820	.000366	.0005793	.0036084	.0023970
%RSD	3.412741	9.930145	15.41858	2.381915	180433.4	.6935697	2.943163

#1	1.379382	.0046762	.0004637	-.015164	.0002779	.5173425	.0796684
#2	1.454089	.0047499	.0005088	-.015774	.0003886	.5191682	.0841686
#3	1.471593	.0055704	.0006228	-.015120	-.000666	.5243020	.0804875

Sample Name: Q2832-10 Acquired: 8/14/2025 13:54:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3605884	-.008737	.0549373
Stddev	.0018770	.001594	.0002385
%RSD	.5205246	18.24323	.4341391

#1	.3599884	-.008412	.0551295
#2	.3590848	-.010469	.0550120
#3	.3626919	-.007331	.0546704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5389.772	95094.26	11807.20	4030.420	6467.959
Stddev	5.122	178.60	97.98	3.571	7.430
%RSD	.0950297	.1878098	.8298098	.0886081	.1148695

#1	5393.349	95041.15	11716.82	4026.379	6467.908
#2	5392.064	94948.25	11793.45	4031.728	6475.415
#3	5383.905	95293.39	11911.32	4033.153	6460.556

Sample Name: Q2836-03 Acquired: 8/14/2025 13:59:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002093	.0028443	-.000963	-.002383	.0029646	.4264055	.0505324
Stddev	.003540	.0010692	.000421	.002263	.0019180	.0093762	.0009842
%RSD	169.1437	37.59143	43.69338	94.95157	64.69729	2.198904	1.947658

#1	-.003393	.0040674	-.000533	-.001364	.0011169	.4176561	.0498503
#2	-.004800	.0020865	-.000983	-.000809	.0049459	.4363029	.0516607
#3	.001913	.0023791	-.001374	-.004976	.0028309	.4252574	.0500862

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000086	.0000545	201.0068	.0012925	.0006820	.0087375	.0237474
Stddev	.000085	.0000489	.4606	.0005026	.0001600	.0005464	.0018181
%RSD	98.58218	89.59327	.2291519	38.88087	23.46312	6.254100	7.656121

#1	-.000032	.0000872	201.3457	.0009487	.0006828	.0088856	.0256504
#2	-.000184	.0000780	201.1923	.0018693	.0005216	.0091946	.0220281
#3	-.000042	-.000002	200.4823	.0010596	.0008416	.0081322	.0235638

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015588	.0711297	.0048231	.0004651	460.7655	.0041815	.0069912
Stddev	.0006590	.0032762	.0003694	.0005052	2.9129	.0006421	.0001753
%RSD	42.27691	4.606000	7.659008	108.6187	.6321930	15.35493	2.507115

#1	.0019815	.0732077	.0047877	-.000090	463.2075	.0039908	.0068185
#2	.0007995	.0728283	.0052090	.000899	457.5414	.0036565	.0069860
#3	.0018955	.0673529	.0044727	.000586	461.5478	.0048974	.0071690

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.07354	.0244348	.0089270	-.017238	-.007756	2.133091	.0115248
Stddev	.04058	.0002884	.0002496	.000656	.000233	.028919	.0032893
%RSD	.3103684	1.180184	2.795432	3.806020	3.002752	1.355722	28.54150

#1	13.10211	.0247643	.0089228	-.017947	-.007847	2.153845	.0150510
#2	13.02710	.0243118	.0086795	-.017113	-.007929	2.100059	.0085393
#3	13.09142	.0242284	.0091786	-.016652	-.007491	2.145370	.0109841

Sample Name: Q2836-03 Acquired: 8/14/2025 13:59:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	17.15570	-.024222	1.473688
Stddev	.01002	.000930	.007038
%RSD	.0584308	3.841454	.4775965

#1	17.16679	-.023486	1.481111
#2	17.15305	-.025268	1.467111
#3	17.14727	-.023912	1.472842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5110.792	91653.29	11665.55	3803.072	6015.042
Stddev	5.598	134.49	67.17	6.066	2.977
%RSD	.1095405	.1467412	.5757569	.1595018	.0494937

#1	5111.952	91519.83	11661.64	3803.442	6013.601
#2	5104.705	91651.24	11600.43	3808.945	6013.059
#3	5115.720	91788.79	11734.59	3796.830	6018.465

Sample Name: Q2836-07 Acquired: 8/14/2025 14:03:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004771	.0023114	-.000894	-.001770	.0039004	.3810834	.0582268
Stddev	.000681	.0004979	.000567	.002146	.0019043	.0143138	.0015341
%RSD	14.26986	21.53981	63.43501	121.2704	48.82300	3.756094	2.634667

#1	-.004812	.0027996	-.000822	-.003514	.0032471	.3688285	.0568413
#2	-.004070	.0018044	-.001494	-.002422	.0060454	.3968155	.0598754
#3	-.005430	.0023303	-.000366	.000627	.0024088	.3776063	.0579639

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000107	.0000409	197.5814	.0067520	.0007535	.0066831	.0132266
Stddev	.000038	.0000731	.4190	.0002929	.0002419	.0005631	.0021211
%RSD	35.62582	178.7434	.2120535	4.338116	32.11060	8.425809	16.03668

#1	-.000063	-.000026	197.6050	.0068115	.0010313	.0063541	.0156758
#2	-.000131	.000119	197.9881	.0070106	.0006403	.0073333	.0120142
#3	-.000128	.000029	197.1512	.0064339	.0005889	.0063619	.0119899

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014128	.1143775	.0014219	.0004478	462.9374	.0012087	.0067200
Stddev	.0000158	.0178273	.0002247	.0001765	4.1339	.0006286	.0002505
%RSD	1.119263	15.58640	15.80017	39.41351	.8929728	52.00445	3.727411

#1	.0014297	.1343082	.0016749	.0006502	467.6226	.0019321	.0068909
#2	.0013983	.0999523	.0013452	.0003260	461.3859	.0008985	.0064325
#3	.0014105	.1088722	.0012457	.0003672	459.8038	.0007955	.0068366

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.76538	.0180830	.0075889	-.017782	-.006746	2.203518	.0085359
Stddev	.06622	.0000576	.0002732	.001219	.000747	.013073	.0022064
%RSD	.5628652	.3184341	3.599562	6.857060	11.06711	.5932926	25.84887

#1	11.82832	.0180892	.0073000	-.016655	-.007070	2.200131	.0090667
#2	11.69630	.0181373	.0076238	-.019076	-.005892	2.217951	.0061125
#3	11.77152	.0180226	.0078430	-.017615	-.007275	2.192471	.0104286

Sample Name: Q2836-07 Acquired: 8/14/2025 14:03:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	10.16781	-.025329	1.265160
Stddev	.04639	.000442	.002915
%RSD	.4562271	1.745518	.2304320

#1	10.11745	-.025742	1.268282
#2	10.17721	-.025381	1.264688
#3	10.20878	-.024863	1.262509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5121.336	91843.38	11724.54	3838.178	6026.420
Stddev	3.193	190.42	52.18	24.756	9.785
%RSD	.0623517	.2073360	.4450774	.6449890	.1623626

#1	5123.780	91757.85	11727.39	3827.607	6036.127
#2	5117.723	91710.72	11670.99	3820.463	6016.559
#3	5122.505	92061.57	11775.24	3866.465	6026.575

Sample Name: Q2836-11 Acquired: 8/14/2025 14:08:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002730	.0021895	-.000031	.0001470	.0028251	.1853727	.0415676
Stddev	.001129	.0008185	.000710	.0018822	.0001904	.0092089	.0005068
%RSD	41.36014	37.38392	2322.963	1280.546	6.738712	4.967777	1.219250

#1	-.001477	.0016568	-.000654	.0012640	.0028868	.1903623	.0417191
#2	-.003669	.0017797	-.000180	.0012030	.0026116	.1910101	.0410022
#3	-.003045	.0031320	.000742	-.002026	.0029770	.1747458	.0419813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000103	-.000007	167.7665	.0089681	.0009461	.0047326	.0554754
Stddev	.000007	.000043	.0983	.0003753	.0000414	.0001111	.0046670
%RSD	6.885616	620.3479	.0586168	4.185232	4.379182	2.346691	8.412664

#1	-.000109	.000035	167.8459	.0092966	.0009768	.0046057	.0518012
#2	-.000104	-.000006	167.6565	.0090487	.0009626	.0047796	.0538984
#3	-.000095	-.000050	167.7970	.0085590	.0008990	.0048124	.0607265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195659	.2855004	.0038217	.0005246	401.4399	.0005285	.0082979
Stddev	.0002065	.0035449	.0001886	.0001889	1.3593	.0006462	.0004714
%RSD	1.055490	1.241637	4.935299	36.00196	.3386078	122.2774	5.680547

#1	.0194630	.2877989	.0036696	.0007419	401.0397	.0007481	.0078834
#2	.0194310	.2872844	.0040328	.0004325	400.3257	.0010363	.0081997
#3	.0198036	.2814179	.0037627	.0003995	402.9544	-.000199	.0088107

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.481905	.0214394	.0058277	-.017635	-.005180	2.554311	.0099085
Stddev	.064654	.0001537	.0001084	.000145	.001821	.013714	.0065855
%RSD	.8641366	.7169650	1.859354	.8216119	35.16319	.5369040	66.46309

#1	7.409122	.0212620	.0059442	-.017789	-.003528	2.543947	.0027167
#2	7.532687	.0215300	.0057299	-.017501	-.004879	2.569862	.0113649
#3	7.503905	.0215264	.0058090	-.017616	-.007133	2.549123	.0156439

Sample Name: Q2836-11 Acquired: 8/14/2025 14:08:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.107042	-.024046	.9614542
Stddev	.021634	.001204	.0043548
%RSD	.2375509	5.005564	.4529373

#1	9.088686	-.022864	.9570631
#2	9.130894	-.024004	.9615279
#3	9.101547	-.025270	.9657717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5226.463	93311.55	11799.04	3938.668	6178.421
Stddev	3.877	131.32	49.11	11.528	6.182
%RSD	.0741783	.1407288	.4161947	.2926986	.1000499

#1	5226.522	93462.18	11754.98	3942.519	6178.872
#2	5222.557	93251.27	11851.98	3925.707	6172.026
#3	5230.310	93221.20	11790.16	3947.777	6184.364

Sample Name: Q2836-15 Acquired: 8/14/2025 14:12:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000069	.0040010	.0000719	.0039628	.0027676	.3578465
Stddev	.002556	.0008076	.0017287	.0047302	.0004900	.0069430
%RSD	3711.678	20.18443	2403.290	119.3671	17.70558	1.940228

#1	-.002204	.0047340	.0013590	.0090569	.0031386	.3559303
#2	.002764	.0031353	.0007498	.0031221	.0022121	.3655464
#3	-.000767	.0041338	-.001893	-.000291	.0029520	.3520628

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383768	-.000149	-.000023	205.5660	.0020942	.0013322
Stddev	.0006629	.000052	.000118	.3491	.0001249	.0001366
%RSD	1.727428	34.65627	521.2330	.1698399	5.965780	10.25302

#1	.0391210	-.000185	-.000155	205.6974	.0022173	.0011927
#2	.0378493	-.000090	.000017	205.1702	.0019675	.0013383
#3	.0381600	-.000173	.000070	205.8303	.0020979	.0014657

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174093	.0931407	.0040105	.3227582	.0059773	.0009250
Stddev	.0002911	.0084904	.0003695	.0131838	.0000811	.0002509
%RSD	1.671856	9.115642	9.213222	4.084729	1.356634	27.11915

#1	.0175077	.0880568	.0036214	.3351858	.0060436	.0009997
#2	.0176383	.1029422	.0043566	.3089300	.0060014	.0006453
#3	.0170817	.0884229	.0040536	.3241587	.0058869	.0011301

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	438.3814	.0084746	.0048178	8.727406	.0322765	.0144357
Stddev	3.4753	.0024276	.0000624	.049364	.0004354	.0000416
%RSD	.7927586	28.64485	1.294779	.5656165	1.348994	.2880314

#1	438.7427	.0057237	.0048021	8.670540	.0326673	.0143963
#2	434.7396	.0093840	.0048865	8.759234	.0318072	.0144315
#3	441.6620	.0103162	.0047647	8.752442	.0323550	.0144791

Sample Name: Q2836-15 Acquired: 8/14/2025 14:12:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017288	-.005900	1.758119	.0194588	F 29.13966	-.025624
Stddev	.000143	.001232	.003987	.0036031	.17283	.000853
%RSD	.8287416	20.88884	.2267692	18.51678	.5931128	3.330305

#1	-.017131	-.004516	1.754928	.0202034	29.16252	-.025109
#2	-.017411	-.006880	1.756841	.0226314	28.95654	-.025154
#3	-.017323	-.006302	1.762589	.0155415	29.29993	-.026609

Elem	Sr4077
Units	ppm
Avg	1.096439
Stddev	.003808
%RSD	.3473441

#1	1.092678
#2	1.096346
#3	1.100293

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5173.574	92941.11	11675.12	3904.145	6106.298
Stddev	12.600	204.54	62.08	16.514	4.675
%RSD	.2435409	.2200793	.5317081	.4229948	.0765679

#1	5161.045	93164.96	11660.80	3922.948	6103.752
#2	5186.244	92894.45	11743.10	3891.991	6111.693
#3	5173.434	92763.93	11621.45	3897.497	6103.447

Sample Name: Q2838-04 Acquired: 8/14/2025 14:17:03 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005077	.0012381	.0020876	-.000252	.0004237	.0679346	.4074958
Stddev	.0010381	.0008699	.0009220	.003020	.0003661	.0036521	.0006005
%RSD	204.4599	70.25624	44.16700	1197.527	86.41686	5.375935	.1473597

#1	-.000690	.0004955	.0029049	-.003211	.0001666	.0721051	.4081773
#2	.001074	.0010237	.0022697	-.000370	.0008428	.0653081	.4070442
#3	.001139	.0021951	.0010881	.002825	.0002616	.0663906	.4072661

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000643	.0002492	54.29060	.0010747	.0028286	.0028602	2.552456
Stddev	.0000265	.0000584	.11663	.0001415	.0000796	.0004100	.022739
%RSD	41.26506	23.42143	.2148225	13.17024	2.815773	14.33291	.8908592

#1	.0000437	.0002062	54.19852	.0009659	.0028456	.0026817	2.543336
#2	.0000943	.0002256	54.25155	.0010235	.0028984	.0025698	2.578340
#3	.0000550	.0003156	54.42175	.0012347	.0027418	.0033292	2.535694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.635883	3.407083	.0028188	.0014858	342.0834	.0010582	.0386387
Stddev	.009562	.019724	.0002119	.0002232	2.1202	.0006210	.0000552
%RSD	.3627575	.5789231	7.517027	15.01897	.6197935	58.68538	.1427882

#1	2.641848	3.388236	.0030453	.0016231	342.0134	.0012896	.0386138
#2	2.624854	3.405433	.0027858	.0012283	344.2377	.0015302	.0386003
#3	2.640946	3.427581	.0026254	.0016059	339.9990	.0003547	.0387019

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.160258	.0112260	.0006353	-.017300	-.002169	.3655400	.0232843
Stddev	.029686	.0002336	.0000864	.000453	.001583	.0046513	.0019437
%RSD	2.558574	2.081139	13.60207	2.618707	72.96126	1.272458	8.347690

#1	1.139657	.0114943	.0005893	-.017813	-.000910	.3708168	.0236952
#2	1.194285	.0111165	.0005817	-.017133	-.003946	.3637689	.0211680
#3	1.146832	.0110673	.0007350	-.016954	-.001651	.3620345	.0249897

Sample Name: Q2838-04 Acquired: 8/14/2025 14:17:03 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2955721	-.013120	.1128952
Stddev	.0039362	.000415	.0003993
%RSD	1.331710	3.159310	.3537159

#1	.2956855	-.013554	.1133562
#2	.2915805	-.012728	.1126736
#3	.2994504	-.013079	.1126559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5402.107	93037.42	11681.45	4016.211	6400.538
Stddev	5.523	363.10	46.39	13.304	6.309
%RSD	.1022432	.3902759	.3971656	.3312601	.0985692

#1	5405.073	93114.88	11699.81	4006.632	6407.766
#2	5405.513	92641.84	11715.84	4010.599	6397.711
#3	5395.734	93355.54	11628.68	4031.401	6396.138

Sample Name: Q2838-08 Acquired: 8/14/2025 14:21:29 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026871	-.000152	.0026549	.0012626	.0007988	.0919355	.2143035
Stddev	.0035308	.000561	.0019698	.0011612	.0020249	.0058619	.0001282
%RSD	131.3998	369.6667	74.19245	91.97036	253.5103	6.376055	.0598014

#1	.0067635	-.000349	.0005106	.0008636	.0026478	.0985885	.2144514
#2	.0005886	-.000587	.0043837	.0003535	-.001365	.0896877	.2142324
#3	.0007091	.000481	.0030705	.0025706	.001114	.0875301	.2142266

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001464	.0000660	13.82287	.0002178	.0043335	.0035273	3.802805
Stddev	.0000300	.0000176	.03768	.0001608	.0000707	.0003425	.024410
%RSD	20.46984	26.61278	.2726109	73.82841	1.632723	9.708619	.6419000

#1	.0001139	.0000487	13.84514	.0001601	.0043864	.0039223	3.774624
#2	.0001729	.0000839	13.77936	.0000938	.0042531	.0033146	3.816403
#3	.0001524	.0000654	13.84410	.0003995	.0043609	.0033450	3.817388

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.289702	1.783053	.0046425	.0012139	275.4455	.0013781	.0687497
Stddev	.000480	.032419	.0002469	.0002578	3.0448	.0020736	.0002227
%RSD	.0372147	1.818164	5.317910	21.23419	1.105412	150.4760	.3238859

#1	1.289735	1.785639	.0043924	.0009163	278.1698	.0004600	.0688967
#2	1.290164	1.749419	.0048861	.0013594	272.1586	.0037523	.0684936
#3	1.289206	1.814102	.0046490	.0013660	276.0080	-.000078	.0688590

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8028602	.0218319	.0005271	-.016468	.0014514	.3289996	.0297147
Stddev	.0118936	.0005119	.0002675	.000437	.0010241	.0056262	.0015737
%RSD	1.481400	2.344930	50.75666	2.652888	70.55808	1.710092	5.295907

#1	.7911927	.0221166	.0007704	-.015990	.0017546	.3297302	.0290497
#2	.8024203	.0212409	.0002406	-.016847	.0022897	.3342248	.0315117
#3	.8149676	.0221382	.0005703	-.016566	.0003100	.3230438	.0285827

Sample Name: Q2838-08 Acquired: 8/14/2025 14:21:29 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3629052	-.005894	.0506206
Stddev	.0019739	.000766	.0000792
%RSD	.5439182	12.99655	.1564664

#1	.3643919	-.006502	.0506921
#2	.3606657	-.005034	.0505355
#3	.3636581	-.006147	.0506343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5452.413	96220.14	11799.05	4082.217	6566.040
Stddev	7.382	162.78	75.75	1.523	9.221
%RSD	.1353945	.1691705	.6420028	.0372981	.1404325

#1	5460.820	96220.78	11730.43	4082.804	6573.724
#2	5446.987	96382.60	11880.34	4080.489	6555.815
#3	5449.433	96057.05	11786.39	4083.359	6568.582

Sample Name: Q2838-08DUP Acquired: 8/14/2025 14:25:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048324	.0012757	.0046130	.0010004	.0018461	.1215624	.3090755
Stddev	.0017303	.0012416	.0007839	.0018906	.0017845	.0011243	.0010818
%RSD	35.80659	97.33086	16.99330	188.9867	96.66576	.9248490	.3499995

#1	.0051319	.0016093	.0049985	.0013902	.0037959	.1206859	.3079613
#2	.0029719	.0023164	.0037110	.0026657	.0002940	.1228299	.3101216
#3	.0063935	-.000099	.0051295	-.001055	.0014484	.1211712	.3091438

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001758	.0001839	19.54462	.0008808	.0064430	.0055284	5.569689
Stddev	.0000087	.0000508	.01173	.0003175	.0001811	.0002682	.012618
%RSD	4.941904	27.62606	.0600406	36.05170	2.810528	4.851565	.2265437

#1	.0001837	.0001255	19.53374	.0012452	.0064568	.0053066	5.581502
#2	.0001665	.0002179	19.54306	.0006633	.0062554	.0054522	5.571167
#3	.0001772	.0002082	19.55705	.0007339	.0066168	.0058265	5.556397

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.836175	2.518351	.0065714	.0013430	405.8896	.0022843	.0978212
Stddev	.003172	.021901	.0002222	.0003725	2.6016	.0007573	.0005127
%RSD	.1727456	.8696450	3.380933	27.73616	.6409595	33.14984	.5240934

#1	1.832577	2.493171	.0063166	.0009865	406.1190	.0031587	.0983994
#2	1.837382	2.528918	.0066726	.0017297	408.3689	.0018380	.0974223
#3	1.838566	2.532965	.0067248	.0013127	403.1809	.0018564	.0976418

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.213862	.0333408	.0005138	-.016179	.0023218	.4999064	.0385562
Stddev	.038862	.0001912	.0001300	.000435	.0012947	.0101888	.0023695
%RSD	3.201543	.5733832	25.30869	2.690889	55.76198	2.038132	6.145496

#1	1.235759	.0332592	.0005670	-.016016	.0038140	.5116661	.0381085
#2	1.168992	.0332041	.0003656	-.015849	.0016549	.4943316	.0364425
#3	1.236835	.0335593	.0006089	-.016673	.0014965	.4937215	.0411176

Sample Name: Q2838-08DUP Acquired: 8/14/2025 14:25:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5454948	-.006545	.0719701
Stddev	.0023307	.000947	.0000529
%RSD	.4272668	14.47130	.0735002

#1	.5428203	-.006386	.0719354
#2	.5470914	-.007561	.0719439
#3	.5465728	-.005686	.0720310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5369.617	95388.91	12065.55	4085.078	6355.207
Stddev	4.550	112.05	42.01	23.521	9.038
%RSD	.0847364	.1174704	.3482043	.5757739	.1422218

#1	5368.064	95366.36	12111.81	4093.658	6346.532
#2	5374.740	95289.85	12029.78	4103.104	6364.570
#3	5366.047	95510.53	12055.05	4058.471	6354.518

Sample Name: Q2838-08LX5 Acquired: 8/14/2025 14:30:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000607	-.000574	.0002339	-.002283	-.000609	.0228317	.0389034
Stddev	.000991	.000912	.0016101	.000643	.001217	.0045494	.0001914
%RSD	163.1803	158.9668	688.3904	28.17248	199.9756	19.92564	.4918837
#1	.000386	-.000632	-.000487	-.002841	.000477	.0210180	.0386824
#2	-.000611	.000366	-.000890	-.002427	-.001924	.0280081	.0390106
#3	-.001596	-.001455	.002079	-.001580	-.000379	.0194689	.0390170
Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000157	-.000009	2.937336	.0000620	.0007187	.0008579	.7667228
Stddev	.0000354	.000032	.008951	.0002308	.0000306	.0001821	.0067356
%RSD	225.3833	363.9182	.3047394	372.4582	4.257594	21.22025	.8784955
#1	.0000493	-.000012	2.937808	.0002609	.0006961	.0010668	.7744715
#2	.0000189	-.000039	2.928158	-.000191	.0007535	.0007741	.7622674
#3	-.000021	.000025	2.946042	.000116	.0007063	.0007329	.7634297
Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2746413	.3917089	.0011445	.0013154	53.46443	-.002665	.0141206
Stddev	.0009728	.0295244	.0001463	.0003770	.38711	.001459	.0000956
%RSD	.3541937	7.537333	12.78445	28.66004	.7240509	54.73949	.6771775
#1	.2751202	.3602663	.0010353	.0009256	53.88072	-.004288	.0140251
#2	.2735219	.3960191	.0013107	.0016781	53.39729	-.002245	.0142163
#3	.2752817	.4188413	.0010874	.0013424	53.11529	-.001462	.0141203
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8864862	.0016975	.0000713	-.002797	-.000010	.0669539	.0032562
Stddev	.0168063	.0004483	.0000844	.000536	.001158	.0027464	.0019140
%RSD	1.895837	26.40944	118.3965	19.15756	11038.54	4.101983	58.77853
#1	.9055268	.0021868	.0000158	-.002577	.001163	.0697515	.0010856
#2	.8802132	.0015994	.0001684	-.002406	-.000043	.0642617	.0039818
#3	.8737186	.0013064	.0000297	-.003408	-.001152	.0668485	.0047013

Sample Name: Q2838-08LX5 Acquired: 8/14/2025 14:30:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0802746	.0178016	.0107015
Stddev	.0024057	.0006013	.0001008
%RSD	2.996850	3.377641	.9421292

#1	.0830433	.0171094	.0105860
#2	.0786957	.0181938	.0107469
#3	.0790846	.0181017	.0107717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5667.704	101042.2	11892.62	4269.981	7085.208
Stddev	11.223	197.4	20.18	8.988	24.480
%RSD	.1980096	.1953245	.1697192	.2105021	.3455062

#1	5660.107	100818.0	11884.84	4261.480	7067.636
#2	5662.411	101189.4	11915.54	4269.075	7074.818
#3	5680.594	101119.3	11877.49	4279.388	7113.169

Sample Name: CCV03 Acquired: 8/14/2025 14:41:31 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.983598	4.710307	4.786569	4.999673	5.054010	9.773894	9.880753
Stddev	.005107	.062259	.014330	.011044	.001471	.016195	.056356
%RSD	.1024832	1.321760	.2993789	.2208962	.0291116	.1656969	.5703596

#1	4.978067	4.644783	4.803095	4.989238	5.053366	9.755195	9.842397
#2	4.988136	4.717455	4.777589	4.998543	5.052971	9.783047	9.854405
#3	4.984591	4.768683	4.779023	5.011239	5.055693	9.783439	9.945457

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2367600	2.401909	24.19743	.9837924	2.407175	1.240562	5.005928
Stddev	.0007150	.007411	.08002	.0017775	.005427	.000352	.005647
%RSD	.3019818	.3085339	.3306820	.1806755	.2254578	.0283346	.1128094

#1	.2360597	2.410462	24.11028	.9843193	2.413437	1.240167	5.011342
#2	.2374888	2.397400	24.26757	.9852469	2.403837	1.240840	5.006367
#3	.2367314	2.397865	24.21446	.9818111	2.404252	1.240679	5.000074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.407169	23.97210	2.424498	1.242343	24.33863	2.455185	2.521072
Stddev	.013479	.19882	.004281	.001795	.03653	.003939	.008169
%RSD	.5599525	.8293714	.1765629	.1444681	.1500722	.1604255	.3240126

#1	2.394223	23.75257	2.429394	1.244322	24.37466	2.452645	2.529358
#2	2.421124	24.14003	2.421462	1.241885	24.33959	2.459723	2.520831
#3	2.406158	24.02370	2.422638	1.240821	24.30163	2.453189	2.513026

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.36833	4.757166	5.028692	4.795300	4.902074	5.034422	4.725071
Stddev	.04803	.022450	.003861	.009861	.015045	.022032	.019564
%RSD	.1893129	.4719206	.0767851	.2056395	.3069046	.4376215	.4140419

#1	25.41889	4.731560	5.024537	4.805415	4.884703	5.016365	4.747662
#2	25.32331	4.773469	5.029370	4.785714	4.910862	5.058970	4.713754
#3	25.36280	4.766468	5.032169	4.794772	4.910659	5.027930	4.713798

Sample Name: CCV03 Acquired: 8/14/2025 14:41:31 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.672754	4.842041	5.026769
Stddev	.015661	.016682	.057159
%RSD	.3351654	.3445320	1.137095

#1	4.668327	4.823392	5.004005
#2	4.659782	4.847189	5.091803
#3	4.690152	4.855543	4.984499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5582.970	99081.13	11499.90	4190.178	6782.298
Stddev	9.167	101.66	57.03	6.846	18.949
%RSD	.1642012	.1026025	.4958777	.1633918	.2793937

#1	5579.181	99162.17	11565.43	4195.470	6764.210
#2	5576.303	98967.06	11461.56	4182.445	6780.679
#3	5593.424	99114.17	11472.71	4192.618	6802.004

Sample Name: CCB03 Acquired: 8/14/2025 14:45:41 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000591	-.000997	.0001690	-.001445	.0018348	-.000383
Stddev	.002640	.000537	.0006476	.002806	.0006165	.001420
%RSD	446.3609	53.80556	383.2514	194.1669	33.59896	370.2249

#1	-.001266	-.000881	.0001279	.000169	.0021344	.001254
#2	-.002828	-.000529	.0008362	.000181	.0022442	-.001147
#3	.002320	-.001583	-.000457	-.004686	.0011258	-.001257

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007215	.0000157	.0000365	.0121288	.0004531	-.000015
Stddev	.000403	.0000462	.0000476	.0033977	.0001971	.000197
%RSD	5.591962	294.5666	130.3382	28.01355	43.49482	1321.874

#1	-.007428	.0000374	.0000025	.0087659	.0006529	.000210
#2	-.007467	-.000037	.0000910	.0120602	.0002588	-.000153
#3	-.006750	.000047	.0000161	.0155603	.0004476	-.000102

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000257	.0031004	.0002506	-.000783	.0001743	.0014550
Stddev	.000303	.0008466	.0001271	.014116	.0002323	.0001648
%RSD	117.7964	27.30731	50.71854	1802.534	133.3007	11.32972

#1	-.000054	.0022378	.0001362	-.015964	.0002126	.0014132
#2	-.000605	.0031333	.0003874	.011948	.0003850	.0016367
#3	-.000112	.0039300	.0002282	.001667	-.000075	.0013150

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7876665	-.000443	.0003390	.5284278	.0072099	.0005366
Stddev	.0151689	.001550	.0000393	.0300654	.0003280	.0002553
%RSD	1.925807	350.1546	11.58165	5.689585	4.549597	47.57389

#1	.7748390	-.001347	.0003036	.5322801	.0074350	.0004038
#2	.7837514	.001347	.0003321	.5563814	.0068336	.0008308
#3	.8044093	-.001329	.0003812	.4966220	.0073613	.0003750

Sample Name: CCB03 Acquired: 8/14/2025 14:45:41 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013932	.0004189	.0256237	-.000987	.0016668	F .0129305
Stddev	.000400	.0005079	.0071365	.000678	.0018830	.0010588
%RSD	2.872162	121.2468	27.85133	68.73635	112.9757	8.188196

#1	-.014378	.0002424	.0305407	-.000294	.0028709	.0117152
#2	-.013604	.0009916	.0288920	-.001649	.0026326	.0136531
#3	-.013813	.0000228	.0174382	-.001018	-.000503	.0134234

Elem	Sr4077
Units	ppm
Avg	-.000111
Stddev	.000019
%RSD	17.38948

#1	-.000098
#2	-.000133
#3	-.000103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5733.276	101778.5	11559.18	4307.635	7527.980
Stddev	5.470	482.5	33.87	8.811	4.929
%RSD	.0954122	.4741039	.2930469	.2045499	.0654704

#1	5728.195	101632.3	11557.11	4301.052	7523.747
#2	5739.067	101386.0	11594.04	4304.208	7526.801
#3	5732.567	102317.3	11526.39	4317.645	7533.391

Sample Name: Q2838-08MS Acquired: 8/14/2025 14:50:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8126531	1.813072	.9034199	1.998481	.8137177	2.084444	.5313340
Stddev	.0029549	.012926	.0021632	.007887	.0012511	.007029	.0024203
%RSD	.3636070	.7129277	.2394411	.3946326	.1537528	.3372334	.4555081

#1	.8104548	1.819233	.9013104	1.997951	.8123922	2.076687	.5326691
#2	.8114924	1.798218	.9056330	1.990872	.8138829	2.086251	.5285402
#3	.8160121	1.821765	.9033164	2.006619	.8148781	2.090393	.5327926

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1742733	.1924257	22.41689	.3948765	.2000961	.2920906	9.242732
Stddev	.0005369	.0005414	.03548	.0011041	.0001621	.0010599	.049738
%RSD	.3081009	.2813788	.1582660	.2795954	.0810156	.3628508	.5381259

#1	.1748055	.1929282	22.44918	.3942861	.2002075	.2923963	9.233371
#2	.1742827	.1918523	22.37891	.3941931	.1999102	.2909115	9.198340
#3	.1737318	.1924966	22.42258	.3961502	.2001707	.2929640	9.296485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.185735	4.602651	.4915920	.0759903	438.5393	.2936093	.3131220
Stddev	.008025	.009992	.0003852	.0006135	3.1443	.0021941	.0001800
%RSD	.3671491	.2170869	.0783487	.8073691	.7169878	.7472966	.0574841

#1	2.194994	4.606219	.4920309	.0765041	435.9919	.2954732	.3129348
#2	2.181406	4.610368	.4913101	.0753110	437.5725	.2911912	.3132939
#3	2.180803	4.591365	.4914350	.0761558	442.0534	.2941635	.3131374

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.65707	.2779893	.4218242	.6657914	.1956670	1.476316	5.595892
Stddev	.15508	.0009692	.0016732	.0022107	.0021583	.012982	.016707
%RSD	1.225230	.3486344	.3966549	.3320345	1.103075	.8793258	.2985644

#1	12.57316	.2786039	.4218228	.6639969	.1981273	1.488323	5.583368
#2	12.56204	.2768721	.4201518	.6682609	.1947811	1.462541	5.589445
#3	12.83603	.2784919	.4234981	.6651164	.1940924	1.478085	5.614862

Sample Name: Q2838-08MS Acquired: 8/14/2025 14:50:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5616974	.1913190	.2639709
Stddev	.0024766	.0004601	.0002786
%RSD	.4409130	.2404874	.1055453

#1	.5631392	.1907942	.2637988
#2	.5588377	.1916529	.2638215
#3	.5631153	.1915099	.2642923

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5345.955	94719.73	11889.29	4024.959	6309.462
Stddev	10.811	337.85	26.32	11.323	8.429
%RSD	.2022297	.3566822	.2213769	.2813266	.1335927

#1	5343.670	94905.61	11859.17	4026.024	6309.361
#2	5357.726	94923.82	11907.91	4035.712	6317.941
#3	5336.470	94329.76	11900.77	4013.141	6301.084

Sample Name: Q2838-08MSD Acquired: 8/14/2025 14:54:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8064475	1.854823	.8923168	1.995953	.7915381	2.016034	.4970318
Stddev	.0015856	.011460	.0012871	.005069	.0040137	.005205	.0041612
%RSD	.1966137	.6178663	.1442419	.2539823	.5070724	.2581872	.8372133

#1	.8047881	1.865330	.8919762	1.995136	.7953122	2.021979	.4991747
#2	.8079472	1.856539	.8937400	1.991342	.7873215	2.013825	.4922359
#3	.8066071	1.842602	.8912343	2.001381	.7919806	2.012297	.4996849

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1752261	.1898470	20.43895	.3924775	.1974589	.2890936	8.532840
Stddev	.0008586	.0002411	.06146	.0023372	.0002715	.0004328	.001044
%RSD	.4899915	.1270016	.3007177	.5955089	.1375037	.1496992	.0122299

#1	.1759103	.1895758	20.46649	.3929500	.1971889	.2891297	8.532094
#2	.1742627	.1899281	20.36854	.3945424	.1974559	.2886440	8.532395
#3	.1755054	.1900371	20.48184	.3899401	.1977319	.2895072	8.534033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.013089	4.361839	.4849360	.0742387	394.8594	.2922756	.3019869
Stddev	.009865	.030327	.0002856	.0008590	5.3788	.0016826	.0002661
%RSD	.4900594	.6952768	.0588853	1.157088	1.362206	.5756756	.0881117

#1	2.018933	4.371918	.4846504	.0751658	388.6530	.2931289	.3016932
#2	2.001698	4.327756	.4849360	.0734699	398.1671	.2903373	.3020558
#3	2.018635	4.385843	.4852215	.0740802	397.7583	.2933604	.3022118

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.17305	.2747896	.4142240	.6492783	.1910233	1.371030	5.551040
Stddev	.02675	.0018710	.0015776	.0014794	.0008992	.009267	.012661
%RSD	.2197574	.6808890	.3808443	.2278531	.4707010	.6759502	.2280899

#1	12.19082	.2762078	.4145729	.6495034	.1911946	1.376902	5.540385
#2	12.14229	.2726690	.4125012	.6506323	.1900508	1.375842	5.547699
#3	12.18606	.2754919	.4155979	.6476993	.1918244	1.360347	5.565037

Sample Name: Q2838-08MSD Acquired: 8/14/2025 14:54:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6497779	.1884034	.2556237
Stddev	.0031018	.0004722	.0009007
%RSD	.4773642	.2506208	.3523692

#1	.6533196	.1886417	.2561762
#2	.6484696	.1878596	.2545843
#3	.6475447	.1887090	.2561106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5360.436	94938.38	11690.65	4029.742	6357.668
Stddev	13.346	64.49	76.81	16.230	6.890
%RSD	.2489652	.0679302	.6570448	.4027512	.1083721

#1	5352.967	94906.53	11656.51	4046.129	6358.182
#2	5375.844	95012.60	11778.61	4013.674	6364.287
#3	5352.498	94896.00	11636.83	4029.425	6350.536

Sample Name: Q2838-08A Acquired: 8/14/2025 14:58:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8296309	1.889837	.9279724	2.073422	.8242431	2.044137	.4439018
Stddev	.0023768	.013905	.0031409	.008789	.0027105	.012689	.0005862
%RSD	.2864890	.7357738	.3384690	.4239045	.3288533	.6207733	.1320529

#1	.8320429	1.877673	.9300991	2.069619	.8273696	2.058068	.4435359
#2	.8272910	1.886841	.9294533	2.067174	.8225552	2.041104	.4445779
#3	.8295588	1.904995	.9243649	2.083472	.8228044	2.033239	.4435916

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1799751	.1948049	17.30144	.4018767	.2022938	.2993321	7.769142
Stddev	.0005363	.0002306	.02251	.0021716	.0005362	.0006879	.014585
%RSD	.2979661	.1183683	.1300887	.5403526	.2650531	.2298106	.1877290

#1	.1795689	.1950497	17.31272	.4028087	.2028612	.2999672	7.785976
#2	.1805830	.1947730	17.31607	.3993948	.2022247	.2986014	7.761137
#3	.1797735	.1945918	17.27552	.4034267	.2017955	.2994277	7.760312

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.709929	4.015705	.5002499	.0767112	328.4046	.2987203	.2956337
Stddev	.003817	.009979	.0005155	.0002359	4.5278	.0023074	.0010525
%RSD	.2232199	.2485086	.1030514	.3074795	1.378724	.7724389	.3560151

#1	1.705907	4.004401	.5008442	.0764738	325.8400	.3011901	.2947744
#2	1.713501	4.019422	.4999817	.0769455	325.7413	.2983512	.2968076
#3	1.710379	4.023293	.4999238	.0767141	333.6326	.2966197	.2953190

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.23463	.2800426	.4214561	.6641000	.1907361	1.390083	5.648525
Stddev	.06477	.0010864	.0010897	.0010705	.0010945	.009924	.039750
%RSD	.5294023	.3879306	.2585623	.1611957	.5738042	.7139050	.7037281

#1	12.25724	.2791599	.4209326	.6633804	.1901658	1.388858	5.689904
#2	12.16158	.2812559	.4207269	.6653302	.1919979	1.380829	5.645036
#3	12.28506	.2797121	.4227088	.6635895	.1900446	1.400563	5.610634

Sample Name: Q2838-08A Acquired: 8/14/2025 14:58:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4482838	.1913180	.2473294
Stddev	.0021722	.0006302	.0002546
%RSD	.4845558	.3294261	.1029369

#1	.4480568	.1909141	.2471243
#2	.4462340	.1920442	.2476143
#3	.4505606	.1909957	.2472496

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5420.712	96346.79	12004.58	4079.936	6454.675
Stddev	10.191	156.33	31.91	6.944	12.520
%RSD	.1880039	.1622567	.2658515	.1702059	.1939688

#1	5432.268	96347.57	12038.14	4087.240	6461.647
#2	5416.863	96502.73	11974.62	4073.418	6440.221
#3	5413.007	96190.08	12001.00	4079.150	6462.158

Sample Name: Q2814-01 Acquired: 8/14/2025 15:02:24 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031528	.0008100	.0076498	.0026090	.0037440	.9218908	.0625422
Stddev	.0006992	.0011359	.0009363	.0015606	.0007589	.0104140	.0007976
%RSD	22.17658	140.2396	12.24012	59.81656	20.26962	1.129640	1.275296

#1	.0024291	.0021148	.0082443	.0021938	.0030705	.9286494	.0619654
#2	.0038246	.0000417	.0081345	.0043353	.0045662	.9271251	.0634524
#3	.0032047	.0002735	.0065704	.0012980	.0035953	.9098980	.0622088

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000682	.0001880	40.90931	.0037406	.0000103	.0067203	2.072176
Stddev	.0000590	.0000692	.10399	.0001249	.0000733	.0003695	.016581
%RSD	86.54772	36.80168	.2542040	3.338076	715.0774	5.498450	.8001668

#1	.0000982	.0001147	40.80966	.0036008	.0000844	.0063189	2.090622
#2	.0000002	.0002522	41.01716	.0037800	.0000085	.0067956	2.058510
#3	.0001061	.0001971	40.90110	.0038410	-.000062	.0070463	2.067395

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0388256	23.06362	.0021459	.0005062	131.1322	.0038627	.0328102
Stddev	.0003464	.07932	.0001610	.0003403	1.1572	.0027551	.0004474
%RSD	.8923011	.3439149	7.502894	67.21706	.8824414	71.32599	1.363600

#1	.0386133	22.98542	.0022917	.0001138	132.3872	.0068475	.0331316
#2	.0392253	23.06144	.0021728	.0006861	130.9019	.0014169	.0329997
#3	.0386381	23.14401	.0019731	.0007187	130.1075	.0033238	.0322992

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.14861	.1568181	.0032940	-.016396	.0303878	12.77306	.9423697
Stddev	.17594	.0015862	.0000622	.000556	.0003194	.11557	.0070594
%RSD	.6480721	1.011514	1.887584	3.390555	1.051165	.9047960	.7491121

#1	27.34680	.1549944	.0033512	-.016886	.0302384	12.87871	.9481164
#2	27.08823	.1575826	.0033028	-.015792	.0307545	12.79084	.9344897
#3	27.01081	.1578772	.0032278	-.016510	.0301703	12.64963	.9445032

Sample Name: Q2814-01 Acquired: 8/14/2025 15:02:24 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.392043	-.009609	.3486520
Stddev	.006059	.000471	.0002538
%RSD	.1379583	4.905357	.0727896

#1	4.388269	-.009078	.3485874
#2	4.399032	-.009771	.3489318
#3	4.388828	-.009979	.3484367

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5432.346	98492.76	11853.97	4104.224	6660.619
Stddev	1.297	235.87	106.35	20.471	9.936
%RSD	.0238785	.2394833	.8971985	.4987729	.1491785

#1	5431.002	98377.69	11976.76	4101.086	6661.921
#2	5432.444	98336.49	11790.67	4085.504	6669.840
#3	5433.591	98764.08	11794.49	4126.083	6650.096

Sample Name: Q2814-03 Acquired: 8/14/2025 15:06:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125364	.0009098	.0418210	.0015616	.0036855	5.509489	.0371319
Stddev	.0022494	.0024562	.0013403	.0014140	.0001416	.005280	.0009153
%RSD	17.94284	269.9731	3.204911	90.55283	3.841015	.0958289	2.464875

#1	.0100433	-.000024	.0427577	.0029748	.0038458	5.503415	.0373611
#2	.0131522	-.000943	.0402857	.0015630	.0035775	5.512078	.0361238
#3	.0144137	.003696	.0424195	.0001468	.0036332	5.512975	.0379107

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004435	.0004899	36.79843	.0084620	.0015818	.0143946	3.539530
Stddev	.0000439	.0000828	.04814	.0001077	.0002192	.0003517	.006552
%RSD	9.900318	16.90216	.1308211	1.273192	13.85905	2.443322	.1851051

#1	.0004098	.0005180	36.78599	.0084996	.0018271	.0147141	3.547052
#2	.0004275	.0003967	36.75773	.0085458	.0015133	.0140178	3.536474
#3	.0004931	.0005551	36.85157	.0083405	.0014050	.0144521	3.535066

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2048574	13.61443	.0034810	.0010999	86.78552	.0160416	.0795470
Stddev	.0014284	.03370	.0004254	.0001400	.16532	.0008425	.0003136
%RSD	.6972474	.2475552	12.22145	12.73191	.1904976	5.251629	.3942722

#1	.2054940	13.57552	.0029934	.0009492	86.94126	.0154712	.0791974
#2	.2032215	13.63452	.0036728	.0012261	86.80327	.0170092	.0798038
#3	.2058569	13.63325	.0037767	.0011245	86.61204	.0156444	.0796396

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.978182	.1494501	.0010005	-.017241	.0526035	11.85758	2.251366
Stddev	.041214	.0007689	.0001685	.000657	.0006931	.02149	.004603
%RSD	.4130456	.5145065	16.83744	3.812294	1.317538	.1812643	.2044378

#1	10.02326	.1491353	.0011035	-.017462	.0525002	11.83554	2.255281
#2	9.96886	.1488884	.0008061	-.016502	.0533424	11.85872	2.252520
#3	9.94242	.1503264	.0010919	-.017760	.0519678	11.87848	2.246296

Sample Name: Q2814-03 Acquired: 8/14/2025 15:06:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.302705	-.009898	.1660236
Stddev	.015564	.000817	.0003532
%RSD	.3617200	8.255867	.2127490

#1	4.304799	-.010636	.1663133
#2	4.317115	-.010037	.1661273
#3	4.286200	-.009020	.1656301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5598.329	100262.7	12117.03	4209.108	6876.355
Stddev	4.927	146.0	32.44	2.849	12.238
%RSD	.0880010	.1456042	.2676976	.0676875	.1779716

#1	5592.675	100339.1	12151.75	4212.279	6862.723
#2	5600.616	100094.4	12087.50	4206.762	6886.396
#3	5601.696	100354.7	12111.83	4208.284	6879.946

Sample Name: Q2814-16 Acquired: 8/14/2025 15:10:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003544	-.001204	-.000852	.0011431	.0022467	-.007780	-.008093
Stddev	.000512	.001097	.000289	.0008424	.0006486	.003749	.000816
%RSD	14.45343	91.12950	33.88205	73.69290	28.86680	48.17909	10.08810

#1	-.004059	.000057	-.001150	.0010856	.0015864	-.009697	-.007893
#2	-.003034	-.001941	-.000830	.0003309	.0022710	-.010183	-.008990
#3	-.003540	-.001726	-.000574	.0020128	.0028828	-.003461	-.007394

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000182	.0000960	.0221497	.0000100	-.000380	.0002196	.0034072
Stddev	.000036	.0000782	.0052713	.0001438	.000149	.0005010	.0038367
%RSD	19.84380	81.46324	23.79840	1438.808	39.30095	228.1032	112.6056

#1	-.000223	.0001826	.0161422	-.000117	-.000551	-.000212	.0052798
#2	-.000156	.0000744	.0243057	.000166	-.000316	.000103	.0059481
#3	-.000166	.0000308	.0260013	-.000019	-.000274	.000769	-.001006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033701	.0182736	-.000117	.0010062	-.046919	-.000956	.0024567
Stddev	.0002603	.0152469	.000186	.0002393	.010427	.002322	.0000322
%RSD	7.724296	83.43695	159.1818	23.78196	22.22452	242.8573	1.310444

#1	.0034331	.0358497	-.000274	.0007539	-.034889	.000818	.0024923
#2	.0030840	.0086021	.000088	.0012299	-.052499	-.003585	.0024485
#3	.0035931	.0103691	-.000165	.0010348	-.053369	-.000102	.0024295

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0371972	-.002072	.0004505	-.015491	.0006007	.0064268	.0047204
Stddev	.0313024	.000376	.0001415	.000144	.0006909	.0045212	.0007846
%RSD	84.15252	18.14395	31.40252	.9285216	115.0237	70.34904	16.62126

#1	.0079075	-.002503	.0005574	-.015340	.0008086	.0014119	.0048504
#2	.0335001	-.001901	.0002901	-.015626	-.000170	.0101908	.0038789
#3	.0701839	-.001812	.0005041	-.015507	.001164	.0076776	.0054319

Sample Name: Q2814-16 Acquired: 8/14/2025 15:10:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0148881	-.007257	-.000054
Stddev	.0014115	.001533	.000073
%RSD	9.481065	21.11993	133.6965

#1	.0155164	-.008174	-.000138
#2	.0132715	-.008109	-.000024
#3	.0158764	-.005487	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5867.375	105925.6	11980.48	4381.382	7852.568
Stddev	10.710	108.0	77.59	18.414	10.204
%RSD	.1825411	.1019563	.6476626	.4202730	.1299477

#1	5862.079	105949.6	11900.96	4362.271	7848.440
#2	5879.701	105807.6	11984.50	4382.866	7864.189
#3	5860.344	106019.6	12055.99	4399.009	7845.074

Sample Name: Q2814-17DLX5 Acquired: 8/14/2025 15:15:10 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1215035	-.011428	.3567469	.0070570	-.001650	93.31502
Stddev	.0040755	.001263	.0053161	.0024024	.000215	.05559
%RSD	3.354195	11.04760	1.490161	34.04229	13.04071	.0595716

#1	.1250769	-.010221	.3615055	.0081390	-.001453	93.27280
#2	.1223686	-.011324	.3577259	.0087280	-.001879	93.37800
#3	.1170649	-.012739	.3510094	.0043039	-.001617	93.29426

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3561054	.0063462	.0173023	20.37743	.1904158	.0607219
Stddev	.0009834	.0000272	.0002523	.00258	.0006953	.0010406
%RSD	.2761566	.4292780	1.458002	.0126799	.3651389	1.713709

#1	.3561721	.0063622	.0175087	20.37969	.1909581	.0615716
#2	.3550904	.0063617	.0173770	20.37800	.1906573	.0610330
#3	.3570538	.0063148	.0170211	20.37461	.1896320	.0595613

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5198336	135.5291	.4753863	22.69980	.1150995	.0092354
Stddev	.0078562	.2990	.0009146	.07068	.0012954	.0002127
%RSD	1.511292	.2205982	.1923842	.3113682	1.125427	2.303549

#1	.5270476	135.3056	.4750234	22.67207	.1164177	.0093064
#2	.5209898	135.4129	.4764266	22.78014	.1150525	.0089963
#3	.5114633	135.8687	.4747088	22.64720	.1138283	.0094036

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.0942	.2206338	1.567869	18.45318	.5222688	.0293904
Stddev	.4624	.0019383	.011568	.04930	.0016948	.0005152
%RSD	.3101220	.8785160	.7378093	.2671837	.3245148	1.752863

#1	149.5796	.2228712	1.579795	18.40478	.5203123	.0299770
#2	148.6590	.2194646	1.567115	18.45141	.5232104	.0290115
#3	149.0439	.2195657	1.556696	18.50334	.5232839	.0291827

Sample Name: Q2814-17DLX5 Acquired: 8/14/2025 15:15:10 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012722	2.385776	F 34.20847	5.997792	F 66.17811	.1274272
Stddev	.0003202	.000991	.11135	.063757	.87604	.0011546
%RSD	25.17289	.0415320	.3255085	1.063000	1.323768	.9060749

#1	.0015515	2.384683	34.11281	6.055066	66.79320	.1261409
#2	.0009227	2.386615	34.18191	6.009214	66.56605	.1277672
#3	.0013423	2.386030	34.33071	5.929097	65.17508	.1283737

Elem	Sr4077
Units	ppm
Avg	.1007231
Stddev	.0002897
%RSD	.2876195

#1	.1010555
#2	.1005887
#3	.1005250

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5741.516	102255.4	12780.42	4314.548	6432.194
Stddev	7.609	315.1	47.28	10.705	18.192
%RSD	.1325220	.3081688	.3699351	.2481072	.2828262

#1	5748.688	102603.9	12827.06	4305.608	6447.239
#2	5733.535	102172.0	12732.53	4311.625	6411.976
#3	5742.326	101990.5	12781.67	4326.410	6437.368

Sample Name: Q2814-22 Acquired: 8/14/2025 15:19:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020481	.0000819	.0075584	.0002256	.0012201	.8188757	.0680922
Stddev	.0020697	.0010287	.0008578	.0019886	.0008977	.0094843	.0021812
%RSD	101.0569	1256.341	11.34891	881.3550	73.57390	1.158208	3.203257

#1	-.000216	-.000647	.0070678	.0022657	.0006001	.8271429	.0706107
#2	.003842	.001259	.0085489	.0001184	.0008107	.8085218	.0668572
#3	.002519	-.000366	.0070586	-.001707	.0022495	.8209623	.0668088

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000154	.0002394	43.66693	.0036210	.0001351	.0056971	1.652325
Stddev	.0000364	.0000678	.43991	.0005560	.0001521	.0003989	.009960
%RSD	236.8137	28.33122	1.007429	15.35436	112.5366	7.001905	.6028156

#1	-.000018	.0002402	44.17349	.0032831	.0000871	.0053179	1.648781
#2	.000054	.0001712	43.44635	.0042626	.0000129	.0056602	1.663572
#3	.000010	.0003068	43.38094	.0033172	.0003054	.0061132	1.644620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0404055	24.52734	.0015877	.0008233	143.4595	.0045219	.0312375
Stddev	.0004047	.30899	.0003110	.0001183	.4047	.0021529	.0001584
%RSD	1.001472	1.259774	19.58791	14.36502	.2821186	47.61155	.5069360

#1	.0408691	24.84666	.0016507	.0008014	142.9947	.0067774	.0311823
#2	.0402244	24.50551	.0018623	.0009509	143.7340	.0042992	.0314160
#3	.0401231	24.22984	.0012500	.0007175	143.6498	.0024889	.0311141

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.08499	.1614927	.0030528	-.016043	.0249332	13.47646	.9724078
Stddev	.03920	.0023920	.0002259	.000419	.0010919	.02961	.0020895
%RSD	.1347759	1.481176	7.400265	2.611274	4.379475	.2197119	.2148797

#1	29.04243	.1642520	.0030046	-.015575	.0240994	13.48742	.9734071
#2	29.11962	.1600060	.0032990	-.016169	.0245310	13.44293	.9700063
#3	29.09293	.1602202	.0028549	-.016384	.0261692	13.49902	.9738100

Sample Name: Q2814-22 Acquired: 8/14/2025 15:19:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.448379	-.009655	.3732710
Stddev	.000685	.001452	.0027976
%RSD	.0154097	15.03711	.7494864

#1	4.447816	-.011110	.3764934
#2	4.448179	-.009648	.3718562
#3	4.449143	-.008206	.3714633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5400.996	96455.00	11732.74	4014.763	6629.153
Stddev	4.140	421.17	166.52	23.635	17.761
%RSD	.0766570	.4366504	1.419246	.5886953	.2679273

#1	5396.893	95970.46	11540.51	3990.837	6608.690
#2	5405.172	96733.34	11825.07	4015.358	6640.567
#3	5400.921	96661.21	11832.65	4038.095	6638.204

Sample Name: Q2814-23 Acquired: 8/14/2025 15:23:28 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240815	.0003590	.0560720	.0023988	.0036556	20.46146
Stddev	.0013525	.0025753	.0010114	.0012287	.0020486	.02442
%RSD	5.616417	717.4103	1.803804	51.21973	56.04128	.1193249

#1	.0226116	.0011298	.0568949	.0029662	.0059403	20.43643
#2	.0243592	.0024608	.0563781	.0032412	.0019822	20.46273
#3	.0252735	-.002514	.0549428	.0009890	.0030443	20.48521

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0621581	.0008793	.0011536	37.74388	.0298778	.0047034
Stddev	.0004237	.0000154	.0000686	.05052	.0002735	.0001629
%RSD	.6817046	1.755204	5.945304	.1338555	.9153383	3.462661

#1	.0617562	.0008877	.0012207	37.68690	.0297910	.0046778
#2	.0621175	.0008615	.0010836	37.78321	.0301842	.0048776
#3	.0626007	.0008887	.0011565	37.76153	.0296583	.0045549

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426491	18.08672	.2693819	15.12997	.0134930	.0020671
Stddev	.0002297	.07400	.0008690	.06158	.0003669	.0001917
%RSD	.5386197	.4091273	.3225829	.4069959	2.719030	9.271920

#1	.0424075	18.04876	.2703450	15.05961	.0131152	.0022877
#2	.0428648	18.17199	.2691441	15.15627	.0135158	.0019712
#3	.0426751	18.03941	.2686566	15.17404	.0138479	.0019423

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.80201	.0386744	.1869602	11.51882	.1633341	.0031957
Stddev	.32108	.0021004	.0012006	.05802	.0008396	.0001401
%RSD	.3575381	5.431013	.6421680	.5036799	.5140288	4.384983

#1	89.85365	.0379814	.1855744	11.57739	.1624139	.0033530
#2	90.09414	.0410337	.1876838	11.51770	.1640585	.0030841
#3	89.45825	.0370080	.1876225	11.46137	.1635298	.0031501

Sample Name: Q2814-23 Acquired: 8/14/2025 15:23:28 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014670	.5759426	F 27.61583	2.782714	5.945609	.0036300
Stddev	.000426	.0016995	.05752	.004539	.016859	.0019933
%RSD	2.906353	.2950791	.2082754	.1631178	.2835584	54.91155

#1	-.015089	.5740002	27.68210	2.777991	5.936826	.0033269
#2	-.014236	.5766719	27.58660	2.783106	5.934954	.0018056
#3	-.014685	.5771558	27.57880	2.787044	5.965046	.0057575

Elem	Sr4077
Units	ppm
Avg	.1617317
Stddev	.0002857
%RSD	.1766332

#1	.1615986
#2	.1620596
#3	.1615368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5560.527	99159.46	12149.22	4171.997	6791.157
Stddev	3.673	111.89	34.53	10.055	3.549
%RSD	.0660557	.1128427	.2841944	.2410012	.0522644

#1	5563.995	99047.36	12177.95	4179.607	6787.081
#2	5556.679	99271.14	12158.79	4175.784	6792.826
#3	5560.908	99159.90	12110.92	4160.598	6793.565

Sample Name: Q2815-01 Acquired: 8/14/2025 15:27:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565352	-.001053	.3532355	.0088579	.0014412	107.3299
Stddev	.0023970	.002342	.0004842	.0014777	.0022497	.3846
%RSD	4.239799	222.4517	.1370741	16.68183	156.0925	.3582987

#1	.0579269	.001609	.3528589	.0071967	.0006825	107.0309
#2	.0537675	-.001968	.3530659	.0093512	.0039722	107.1950
#3	.0579114	-.002800	.3537816	.0100258	-.000331	107.7637

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2008060	.0043480	.0050632	57.28931	.1794203	.0365315
Stddev	.0007060	.0000319	.0000856	.18300	.0002625	.0001106
%RSD	.3515787	.7347721	1.691288	.3194310	.1463066	.3026219

#1	.2016038	.0043604	.0049962	57.14335	.1793798	.0366569
#2	.2005523	.0043117	.0050336	57.22997	.1797007	.0364895
#3	.2002619	.0043718	.0051597	57.49462	.1791803	.0364481

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1453335	116.9640	.5104626	55.85419	.0884110	.0079761
Stddev	.0001288	.4530	.0003782	.26624	.0006827	.0002635
%RSD	.0886009	.3873241	.0740808	.4766627	.7722111	3.303065

#1	.1452056	117.3949	.5101906	55.66663	.0891965	.0082788
#2	.1454631	117.0053	.5103028	55.73703	.0879600	.0077987
#3	.1453318	116.4917	.5108944	56.15892	.0880765	.0078508

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	703.7469	.2293501	.6735897	67.84187	.7383080	.0205925
Stddev	6.0099	.0004461	.0011587	.23562	.0010495	.0003487
%RSD	.8539887	.1945298	.1720226	.3473059	.1421520	1.693337

#1	710.6070	.2289207	.6730446	67.96888	.7387019	.0206845
#2	699.4096	.2293183	.6728040	67.98674	.7371185	.0202070
#3	701.2239	.2298113	.6749204	67.57000	.7391036	.0208860

Sample Name: Q2815-01 Acquired: 8/14/2025 15:27:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011405	3.109903	F 116.9198	5.943075	F 74.48156	.1359419
Stddev	.000286	.011923	.0911	.009799	.27582	.0011447
%RSD	2.504547	.3833867	.0779062	.1648871	.3703176	.8420691

#1	-.011191	3.096136	116.9623	5.953338	74.16991	.1372246
#2	-.011295	3.116949	116.9820	5.933816	74.58053	.1355769
#3	-.011729	3.116622	116.8153	5.942071	74.69423	.1350242

Elem	Sr4077
Units	ppm
Avg	.4122308
Stddev	.0004741
%RSD	.1150059

#1	.4116927
#2	.4125869
#3	.4124129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5326.859	94519.94	12765.43	3984.551	5736.340
Stddev	9.733	90.12	57.92	11.283	8.409
%RSD	.1827247	.0953430	.4537209	.2831575	.1465950

#1	5328.743	94433.95	12802.58	3996.473	5742.243
#2	5335.513	94613.68	12795.02	3983.139	5740.065
#3	5316.322	94512.18	12698.69	3974.040	5726.712

Sample Name: CCV04 Acquired: 8/14/2025 15:58:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.091239	5.205269	4.810086	5.211242	5.182375	9.866869	9.791639
Stddev	.008802	.138034	.001888	.028938	.011414	.023901	.084824
%RSD	.1728854	2.651819	.0392532	.5553069	.2202489	.2422357	.8662925

#1	5.081255	5.098068	4.809673	5.186353	5.170829	9.855954	9.755149
#2	5.094588	5.156719	4.808439	5.204379	5.182643	9.850374	9.731167
#3	5.097876	5.361018	4.812147	5.242995	5.193653	9.894279	9.888602

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2315329	2.413055	24.23797	1.001789	2.426567	1.255007	5.209976
Stddev	.0012500	.000638	.05866	.001869	.000097	.001968	.048177
%RSD	.5398844	.0264316	.2420039	.1865195	.0039787	.1568446	.9247037

#1	.2309713	2.412319	24.19548	.999651	2.426582	1.252908	5.173154
#2	.2306623	2.413449	24.21355	1.003109	2.426655	1.256811	5.264500
#3	.2329653	2.413396	24.30490	1.002608	2.426464	1.255303	5.192274

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.407048	24.00627	2.438274	1.257796	25.09967	2.473524	2.580288
Stddev	.005488	.12529	.001938	.001225	.16353	.008099	.007750
%RSD	.2279798	.5219249	.0794658	.0974056	.6515324	.3274098	.3003427

#1	2.400821	23.92343	2.438837	1.256382	25.10743	2.471136	2.574638
#2	2.409151	23.94496	2.439869	1.258494	25.25918	2.466888	2.589123
#3	2.411174	24.15041	2.436118	1.258513	24.93240	2.482548	2.577104

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.48879	4.615020	5.148940	4.865328	4.931188	5.279719	4.653831
Stddev	.19783	.037780	.014139	.008511	.015143	.023656	.004056
%RSD	.7468305	.8186340	.2746052	.1749378	.3070861	.4480476	.0871486

#1	26.37815	4.595789	5.133156	4.862980	4.915181	5.275826	4.649800
#2	26.71719	4.590725	5.153218	4.858236	4.933100	5.305079	4.653782
#3	26.37104	4.658547	5.160446	4.874766	4.945285	5.258251	4.657911

Sample Name: CCV04 Acquired: 8/14/2025 15:58:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.858388	4.805736	4.928534
Stddev	.024092	.010999	.068073
%RSD	.4958766	.2288670	1.381208

#1	4.842569	4.793642	4.850024
#2	4.846479	4.815140	4.964455
#3	4.886114	4.808425	4.971123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5528.587	98071.32	11889.89	4119.864	6748.720
Stddev	23.286	184.81	98.23	12.410	15.568
%RSD	.4211996	.1884475	.8261850	.3012188	.2306782

#1	5551.541	98283.63	11929.07	4130.826	6763.560
#2	5504.981	97983.90	11962.48	4106.391	6732.514
#3	5529.239	97946.44	11778.11	4122.375	6750.085

Sample Name: CCB04 Acquired: 8/14/2025 16:02:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000387	-.001271	.0000375	-.002513	.0006442	-.006006	-.009450
Stddev	.002271	.001425	.0005098	.001114	.0015734	.006387	.000816
%RSD	587.2929	112.0995	1361.432	44.32010	244.2493	106.3546	8.639516

#1	.001655	-.000664	.0006253	-.003705	.0023653	-.005537	-.009757
#2	-.002832	-.002900	-.000283	-.002335	-.000720	.000134	-.010069
#3	.000017	-.000250	-.000230	-.001499	.000287	-.012614	-.008525

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000034	.0000243	.0141263	.0004936	-.000169	-.000110	.0023195
Stddev	.000050	.0000202	.0069767	.0001021	.000117	.000388	.0013213
%RSD	148.1989	82.86081	49.38837	20.68110	69.65402	352.2736	56.96315

#1	-.000076	.0000054	.0070500	.0004718	-.000159	-.000552	.0014295
#2	.000021	.0000220	.0209990	.0004041	-.000056	.000180	.0038377
#3	-.000047	.0000456	.0143299	.0006048	-.000291	.000041	.0016913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000916	.0075759	.0002725	.0008765	.5051759	.0005797	.0007897
Stddev	.0003187	.0115526	.0002303	.0003211	.0201361	.0013902	.0001076
%RSD	348.0783	152.4915	84.53669	36.63511	3.985958	239.8074	13.62168

#1	.0001397	-.000178	.0003332	.0006782	.4821103	-.000747	.0008889
#2	.0003835	.020853	.0004663	.0007044	.5141703	.000461	.0008050
#3	-.000248	.002052	.0000179	.0012470	.5192473	.002025	.0006754

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4003878	.0095149	.0004594	-.013944	.0007333	.0169905	-.000994
Stddev	.0199747	.0005624	.0000839	.000614	.0013177	.0092490	.001699
%RSD	4.988844	5.910420	18.25921	4.399664	179.7070	54.43594	171.0291

#1	.4226763	.0099201	.0005343	-.013259	.0021653	.0197187	-.002381
#2	.3841047	.0097518	.0003688	-.014442	-.000428	.0245685	.000902
#3	.3943825	.0088729	.0004750	-.014132	.000463	.0066844	-.001502

Sample Name: CCB04 Acquired: 8/14/2025 16:02:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0035333	.0068665	-.000027
Stddev	.0016847	.0008056	.000029
%RSD	47.68129	11.73167	106.7305

#1	.0054379	.0066381	-.000060
#2	.0029243	.0061998	-.000007
#3	.0022378	.0077616	-.000014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5693.353	101084.1	11633.61	4221.058	7505.411
Stddev	14.734	202.2	38.13	11.422	21.178
%RSD	.2587859	.2000611	.3277659	.2706043	.2821644

#1	5687.366	101003.8	11672.82	4227.669	7493.856
#2	5710.138	100934.3	11631.37	4207.868	7529.852
#3	5682.556	101314.1	11596.65	4227.636	7492.524

Sample Name: Q2815-11 Acquired: 8/14/2025 16:06:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0748352	-.001173	.1992513	.0045185	.0011063	56.42529
Stddev	.0008615	.001450	.0018940	.0009036	.0012886	.03761
%RSD	1.151198	123.6198	.9505359	19.99748	116.4718	.0666482

#1	.0738573	-.000849	.1988027	.0041381	.0013433	56.44853
#2	.0754822	.000088	.1976220	.0055501	.0022600	56.38191
#3	.0751662	-.002758	.2013293	.0038673	-.000284	56.44545

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2268818	.0061979	.0026146	38.50730	.1095624	.0147473
Stddev	.0006689	.0000568	.0000811	.07951	.0004820	.0001881
%RSD	.2947996	.9162501	3.101722	.2064886	.4399175	1.275233

#1	.2276021	.0062530	.0026688	38.58651	.1091290	.0149495
#2	.2262803	.0062013	.0025213	38.50788	.1100815	.0147148
#3	.2267631	.0061395	.0026535	38.42749	.1094769	.0145776

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2386430	62.20659	.4958017	27.11319	.0448741	.0040097
Stddev	.0005087	.28610	.0014998	.03673	.0003612	.0004762
%RSD	.2131427	.4599112	.3025016	.1354726	.8049865	11.87702

#1	.2381818	62.37073	.4965992	27.11808	.0448187	.0044170
#2	.2385588	62.37280	.4967344	27.14723	.0452599	.0041259
#3	.2391886	61.87624	.4940717	27.07426	.0445438	.0034861

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	117.7961	.1207738	.6570086	24.40206	.2650387	.0074790
Stddev	.4372	.0016398	.0018485	.08315	.0016561	.0002869
%RSD	.3711534	1.357759	.2813445	.3407408	.6248426	3.836370

#1	118.0489	.1218198	.6549902	24.48365	.2659657	.0077822
#2	118.0481	.1188839	.6574166	24.40509	.2660238	.0072117
#3	117.2913	.1216176	.6586189	24.31744	.2631268	.0074431

Sample Name: Q2815-11 Acquired: 8/14/2025 16:06:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014952	1.581533	F 70.02855	4.641695	15.27565	.0576091
Stddev	.000688	.002616	.19597	.018379	.06155	.0008394
%RSD	4.600948	.1654056	.2798496	.3959641	.4029049	1.457021
#1	-.015196	1.584323	70.04156	4.661175	15.32513	.0574614
#2	-.015485	1.579136	70.21769	4.624661	15.20673	.0568533
#3	-.014175	1.581139	69.82639	4.639250	15.29509	.0585125

Elem	Sr4077
Units	ppm
Avg	.2533606
Stddev	.0003617
%RSD	.1427544
#1	.2536372
#2	.2529513
#3	.2534932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5588.640	99146.67	12377.69	4177.904	6561.999
Stddev	6.647	105.16	21.88	6.471	7.511
%RSD	.1189309	.1060694	.1767667	.1548887	.1144646
#1	5588.130	99040.63	12368.87	4179.401	6569.131
#2	5595.527	99148.45	12402.60	4183.496	6562.706
#3	5582.263	99250.93	12361.60	4170.816	6554.159

Sample Name: Q2815-20 Acquired: 8/14/2025 16:10:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219923	.0014259	.0833571	.0020685	.0012171	24.98818
Stddev	.0023822	.0002449	.0004467	.0031513	.0024634	.03471
%RSD	10.83215	17.17539	.5359298	152.3441	202.3900	.1389211

#1	.0219954	.0017015	.0829071	-.000736	.0040099	25.02366
#2	.0243730	.0013428	.0838005	.001463	.0002884	24.98658
#3	.0196085	.0012333	.0833637	.005479	-.000647	24.95429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1080696	.0054056	.0025182	76.10581	.0800970	.0083801
Stddev	.0006302	.0000126	.0000665	.17101	.0003407	.0000943
%RSD	.5831742	.2340888	2.641739	.2247008	.4253705	1.125144

#1	.1074838	.0054066	.0025465	76.12733	.0802203	.0084784
#2	.1079888	.0054177	.0024423	75.92507	.0803588	.0082904
#3	.1087364	.0053925	.0025660	76.26505	.0797117	.0083714

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0539224	28.96528	.2676475	11.86574	.0336417	.0024172
Stddev	.0002666	.08441	.0008707	.07393	.0003765	.0001116
%RSD	.4944538	.2914054	.3253294	.6230872	1.119074	4.617545

#1	.0536200	28.89266	.2671935	11.91306	.0332783	.0022885
#2	.0540237	28.94529	.2686514	11.78054	.0336167	.0024878
#3	.0541235	29.05788	.2670975	11.90361	.0340301	.0024753

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.25300	.0637814	.3395026	10.99310	.1021016	.0070533
Stddev	.08741	.0023202	.0002605	.03324	.0009951	.0001913
%RSD	.2988143	3.637693	.0767246	.3023617	.9746257	2.711603

#1	29.35119	.0656818	.3392166	11.02781	.1011785	.0070840
#2	29.18366	.0644667	.3397263	10.98993	.1019706	.0072273
#3	29.22416	.0611958	.3395649	10.96156	.1031558	.0068485

Sample Name: Q2815-20 Acquired: 8/14/2025 16:10:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016495	.6621279	F 45.55595	2.012158	11.65105	.0197793
Stddev	.000082	.0013825	.06694	.003056	.02486	.0012173
%RSD	.4969474	.2088005	.1469338	.1518994	.2133430	6.154244

#1	-.016587	.6630101	45.48894	2.015176	11.67933	.0211678
#2	-.016428	.6628390	45.62282	2.012232	11.63269	.0188958
#3	-.016472	.6605345	45.55608	2.009065	11.64111	.0192744

Elem	Sr4077
Units	ppm
Avg	.3996071
Stddev	.0006872
%RSD	.1719582

#1	.4003997
#2	.3992427
#3	.3991789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5580.543	99864.09	12307.10	4163.881	6821.111
Stddev	8.895	129.83	47.92	14.739	3.584
%RSD	.1593964	.1300021	.3893608	.3539703	.0525405

#1	5589.407	99988.91	12328.49	4151.213	6824.956
#2	5580.605	99873.57	12340.61	4160.372	6817.863
#3	5571.617	99729.78	12252.22	4180.057	6820.513

Sample Name: Q2815-25 Acquired: 8/14/2025 16:14:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0235998	-.000436	.0852755	.0007801	.0033237	26.27676
Stddev	.0009303	.001538	.0018048	.0010877	.0017776	.04422
%RSD	3.941815	352.6395	2.116403	139.4290	53.48208	.1682917

#1	.0227738	-.001959	.0867815	.0008651	.0022373	26.22664
#2	.0246075	.001116	.0857700	.0018228	.0023588	26.29335
#3	.0234180	-.000466	.0832750	-.000348	.0053751	26.31028

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1131779	.0055665	.0026027	77.66342	.0837912	.0088290
Stddev	.0002655	.0000584	.0000774	.27947	.0002111	.0000773
%RSD	.2345632	1.049594	2.972328	.3598495	.2519509	.8750528

#1	.1129833	.0056156	.0026662	77.34593	.0840339	.0088352
#2	.1130701	.0055019	.0026253	77.77214	.0836891	.0087488
#3	.1134804	.0055820	.0025166	77.87219	.0836505	.0089029

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0562180	30.32269	.2764289	12.13920	.0350844	.0022891
Stddev	.0001273	.21346	.0016264	.02728	.0001712	.0000922
%RSD	.2265091	.7039561	.5883544	.2247486	.4878186	4.029014

#1	.0560709	30.08266	.2750418	12.10959	.0349660	.0022592
#2	.0562903	30.39421	.2760261	12.14470	.0350065	.0022156
#3	.0562927	30.49121	.2782188	12.16331	.0352806	.0023926

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.16892	.0666047	.3492542	11.34592	.1050855	.0069142
Stddev	.17654	.0013275	.0012815	.03612	.0006458	.0000544
%RSD	.5851552	1.993138	.3669339	.3183636	.6145657	.7874119

#1	29.98375	.0652933	.3477749	11.30503	.1044204	.0068526
#2	30.18769	.0665729	.3499592	11.37349	.1051258	.0069560
#3	30.33532	.0679478	.3500284	11.35925	.1057102	.0069340

Sample Name: Q2815-25 Acquired: 8/14/2025 16:14:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016016	.6983031	F 47.46522	2.058551	11.96989	.0222929
Stddev	.000496	.0021769	.27764	.004477	.06305	.0002781
%RSD	3.099872	.3117471	.5849396	.2174682	.5267177	1.247544

#1	-.016481	.6966154	47.14522	2.053934	12.04264	.0220252
#2	-.016074	.6975337	47.64211	2.058846	11.93116	.0225804
#3	-.015493	.7007603	47.60833	2.062873	11.93587	.0222731

Elem	Sr4077
Units	ppm
Avg	.4081616
Stddev	.0014091
%RSD	.3452375

#1	.4075640
#2	.4071498
#3	.4097711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5592.162	99742.94	12273.98	4185.762	6828.796
Stddev	7.276	206.35	43.60	5.338	16.425
%RSD	.1301065	.2068833	.3552396	.1275282	.2405259

#1	5586.136	99929.32	12253.28	4187.192	6814.037
#2	5590.106	99778.30	12324.08	4190.240	6825.861
#3	5600.245	99521.19	12244.59	4179.855	6846.491

Sample Name: Q2815-26 Acquired: 8/14/2025 16:18:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003043	-.001228	-.000043	.0016271	.0018905	-.007404	-.007518
Stddev	.001410	.001198	.001206	.0011522	.0007671	.001836	.001303
%RSD	46.32076	97.51453	2801.843	70.81020	40.57607	24.80109	17.33405

#1	-.002292	-.002103	-.001435	.0022909	.0027484	-.005432	-.006360
#2	-.002168	-.001718	.000657	.0022937	.0016523	-.009064	-.008929
#3	-.004669	.000137	.000649	.0002967	.0012708	-.007716	-.007265

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000186	.0000028	.0476487	.0000685	-.000401	-.000438	.0020554
Stddev	.000021	.0000195	.0121060	.0002840	.000141	.000237	.0057517
%RSD	11.03842	689.6641	25.40671	414.4919	35.28994	54.00946	279.8308

#1	-.000198	.0000227	.0376334	.0000592	-.000288	-.000308	.0010114
#2	-.000163	.0000019	.0442111	-.000211	-.000354	-.000712	-.003103
#3	-.000198	-.000016	.0611018	.000357	-.000560	-.000296	.008258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004661	.0039589	-.000203	.0008989	-.097692	-.000321	.0030520
Stddev	.0000959	.0168327	.000076	.0001276	.001500	.002044	.0000962
%RSD	20.57970	425.1897	37.33998	14.19074	1.535435	637.1902	3.153275

#1	.0003917	.0203514	-.000224	.0008089	-.095969	-.001605	.0029576
#2	.0004321	-.013282	-.000266	.0008430	-.098709	.002036	.0030483
#3	.0005743	.004807	-.000119	.0010449	-.098397	-.001393	.0031500

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074510	.0004919	.0004233	-.015673	.0012875	.0074626	.0035620
Stddev	.0367598	.0001478	.0000642	.000617	.0009199	.0080483	.0011652
%RSD	493.3511	30.04523	15.15390	3.935997	71.44920	107.8490	32.71177

#1	-.030638	.0005150	.0004709	-.015619	.0006412	.0011539	.0048770
#2	.010271	.0006269	.0004487	-.016315	.0023407	.0047071	.0026581
#3	.042719	.0003340	.0003503	-.015084	.0008806	.0165267	.0031509

Sample Name: Q2815-26 Acquired: 8/14/2025 16:18:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0100569	-.006460	-.000032
Stddev	.0021309	.001534	.000040
%RSD	21.18834	23.75020	123.4513

#1	.0125143	-.004712	.000012
#2	.0087201	-.007088	-.000065
#3	.0089363	-.007581	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.358	105671.7	11967.79	4311.526	7746.384
Stddev	6.673	272.7	25.16	20.909	6.961
%RSD	.1149632	.2581085	.2102601	.4849468	.0898659

#1	5801.352	105382.2	11990.35	4325.051	7746.120
#2	5812.005	105708.9	11972.37	4287.443	7753.474
#3	5799.716	105923.9	11940.65	4322.082	7739.559

Sample Name: Q2821-05 Acquired: 8/14/2025 16:23:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243442	.0044831	.0104582	.0028700	.0069288	.7977559
Stddev	.0007826	.0009441	.0016845	.0017995	.0012298	.0114700
%RSD	3.214895	21.05979	16.10651	62.70104	17.74893	1.437780

#1	.0252375	.0053573	.0085187	.0008063	.0079047	.7881874
#2	.0237789	.0034819	.0113013	.0041119	.0055475	.8104707
#3	.0240162	.0046100	.0115546	.0036919	.0073342	.7946098

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9506210	-.000068	.0000924	138.1940	.0021169	.0010942
Stddev	.0035190	.000064	.0000452	.3605	.0001682	.0000515
%RSD	.3701779	94.99761	48.94886	.2608357	7.945452	4.706943

#1	.9545601	-.000002	.0000726	138.4965	.0022976	.0010476
#2	.9495151	-.000131	.0000604	137.7952	.0019650	.0011495
#3	.9477878	-.000070	.0001441	138.2905	.0020879	.0010854

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050414	1.925624	.6023131	21.45769	.0048908	.0012790
Stddev	.0002938	.009269	.0020837	.05812	.0000938	.0002992
%RSD	5.826866	.4813349	.3459540	.2708513	1.918455	23.39570

#1	.0047249	1.922444	.6046900	21.50101	.0048054	.0010817
#2	.0053052	1.918364	.6008013	21.39164	.0049912	.0011320
#3	.0050942	1.936065	.6014479	21.48041	.0048757	.0016233

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	665.9786	.0245319	.0125254	18.39186	.5843123	.0502821
Stddev	5.1593	.0018524	.0001284	.11062	.0049388	.0001291
%RSD	.7746883	7.550833	1.024813	.6014725	.8452277	.2567222

#1	670.7859	.0244599	.0124571	18.28093	.5899933	.0504222
#2	660.5278	.0264192	.0124457	18.39249	.5819038	.0501679
#3	666.6221	.0227166	.0126735	18.50217	.5810399	.0502563

Sample Name: Q2821-05 Acquired: 8/14/2025 16:23:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013079	.0134203	F 20.04536	.1812955	7.748968	-.014363
Stddev	.000397	.0004328	.11512	.0045378	.030190	.001119
%RSD	3.036759	3.224833	.5743073	2.503007	.3896034	7.792680
#1	-.013458	.0136037	19.94970	.1760627	7.716658	-.015652
#2	-.012666	.0137312	20.01325	.1841465	7.753787	-.013796
#3	-.013114	.0129260	20.17313	.1836773	7.776459	-.013641

Elem	Sr4077
Units	ppm
Avg	1.143160
Stddev	.002720
%RSD	.2379445
#1	1.145870
#2	1.143182
#3	1.140429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4994.031	89741.39	11784.70	3731.419	5820.068
Stddev	8.042	190.58	64.09	8.355	4.339
%RSD	.1610263	.2123713	.5438231	.2239145	.0745554
#1	4985.722	89680.87	11710.71	3737.639	5819.071
#2	5001.775	89954.89	11822.93	3734.696	5824.819
#3	4994.597	89588.42	11820.46	3721.922	5816.314

Sample Name: Q2821-08 Acquired: 8/14/2025 16:27:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000703	.0028602	-.001164	.0015668	.0038354	.2807029
Stddev	.002376	.0003845	.000545	.0030863	.0012513	.0180291
%RSD	337.8576	13.44425	46.87402	196.9850	32.62373	6.422844

#1	.001565	.0033023	-.001368	.0050925	.0052562	.2601021
#2	-.000501	.0026034	-.001577	.0002528	.0028976	.2884041
#3	-.003174	.0026749	-.000545	-.000645	.0033526	.2936024

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5392230	-.000368	.0003404	163.4147	.0012763	.0007468
Stddev	.0028557	.000047	.0000139	.5227	.0001506	.0001401
%RSD	.5295984	12.74836	4.086765	.3198349	11.80240	18.75563

#1	.5361871	-.000399	.0003540	163.3138	.0013925	.0005887
#2	.5396264	-.000391	.0003409	162.9499	.0011061	.0008555
#3	.5418556	-.000314	.0003262	163.9805	.0013304	.0007962

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065069	3.712539	4.294986	26.18069	.0022604	.0007856
Stddev	.0003532	.009871	.021503	.18720	.0003560	.0001853
%RSD	5.428292	.2658813	.5006623	.7150443	15.74891	23.58247

#1	.0064295	3.707679	4.275358	26.16346	.0026710	.0006527
#2	.0061989	3.723898	4.291630	26.00269	.0020713	.0009972
#3	.0068924	3.706041	4.317970	26.37591	.0020389	.0007068

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1160.186	-.001417	1.303350	21.86823	3.071963	.0124817
Stddev	15.520	.003672	.000477	.10861	.020184	.0001820
%RSD	1.337674	259.1064	.0365854	.4966392	.6570269	1.458337

#1	1169.336	-.000258	1.303255	21.80382	3.071082	.0125829
#2	1168.955	.001535	1.303867	21.99362	3.052235	.0122716
#3	1142.267	-.005529	1.302928	21.80724	3.092573	.0125907

Sample Name: Q2821-08 Acquired: 8/14/2025 16:27:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.015267	.0020616	F 18.22625	.0977861	F 123.3071	-.026425
Stddev	.000694	.0005393	.04713	.0011681	.1262	.000408
%RSD	4.545298	26.16156	.2585801	1.194562	.1023549	1.543614

#1	-.015880	.0015717	18.24123	.0989597	123.4243	-.026024
#2	-.014514	.0019734	18.26407	.0977752	123.1735	-.026413
#3	-.015408	.0026396	18.17345	.0966235	123.3236	-.026839

Elem	Sr4077
Units	ppm
Avg	.8618744
Stddev	.0029316
%RSD	.3401365

#1	.8584900
#2	.8636243
#3	.8635089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4729.398	84208.75	11393.83	3519.626	5450.331
Stddev	2.264	273.18	45.15	12.812	.853
%RSD	.0478686	.3244103	.3963049	.3640173	.0156477

#1	4731.998	83909.96	11383.10	3530.357	5450.949
#2	4727.865	84270.55	11443.38	3505.441	5450.687
#3	4728.331	84445.74	11355.00	3523.079	5449.358

Sample Name: Q2837-01 Acquired: 8/14/2025 16:31:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000612	.0027725	.0035835	.0008435	.0040073	.9354059
Stddev	.003815	.0015669	.0011886	.0013559	.0013358	.0058046
%RSD	623.4193	56.51741	33.16792	160.7416	33.33418	.6205447

#1	-.000994	.0019194	.0031537	.0007612	.0029802	.9341763
#2	-.004222	.0045809	.0049272	-.000469	.0035243	.9417269
#3	.003379	.0018172	.0026696	.002239	.0055175	.9303147

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4770064	-.000042	.0000143	529.6286	.0569228	.0039740
Stddev	.0019255	.000030	.0000618	6.4519	.0003914	.0002748
%RSD	.4036556	72.55607	433.1711	1.218186	.6876568	6.915845

#1	.4763813	-.000018	.0000668	532.8301	.0565926	.0036658
#2	.4754712	-.000031	-.000054	533.8536	.0573552	.0040625
#3	.4791668	-.000076	.000030	522.2021	.0568207	.0041937

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274179	5.683863	.0069396	.5030078	.0477313	.0004164
Stddev	.0003889	.021156	.0004907	.0207137	.0002208	.0000599
%RSD	1.418568	.3722193	7.071690	4.117964	.4626385	14.37353

#1	.0272986	5.666988	.0063821	.5135920	.0479821	.0004839
#2	.0271025	5.677001	.0073061	.4791405	.0476456	.0003959
#3	.0278525	5.707598	.0071306	.5162909	.0475662	.0003695

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	237.1370	.0066658	.0145496	455.1391	.0709828	.2323806
Stddev	2.4359	.0015852	.0002506	2.2217	.0007282	.0006646
%RSD	1.027205	23.78078	1.722750	.4881289	1.025855	.2859828

#1	235.0074	.0080234	.0142612	456.2024	.0702074	.2323298
#2	239.7931	.0070502	.0146734	456.6293	.0710887	.2330691
#3	236.6106	.0049238	.0147143	452.5856	.0716522	.2317429

Sample Name: Q2837-01 Acquired: 8/14/2025 16:31:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028271	-.012560	8.670086	.0401811	F 262.3472	.1228581
Stddev	.0007653	.000709	.043152	.0064082	1.1781	.0025091
%RSD	27.07064	5.643222	.4977060	15.94823	.4490565	2.042233

#1	.0019473	-.011777	8.628985	.0331149	263.0555	.1235790
#2	.0031950	-.012745	8.666243	.0456158	262.9989	.1200676
#3	.0033390	-.013157	8.715031	.0418126	260.9873	.1249278

Elem	Sr4077
Units	ppm
Avg	7.441351
Stddev	.029731
%RSD	.3995356

#1	7.467018
#2	7.448262
#3	7.408773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4845.993	87579.95	11433.55	3582.493	5717.060
Stddev	6.875	408.93	46.20	19.961	11.948
%RSD	.1418680	.4669239	.4041066	.5571872	.2089840

#1	4838.057	88045.86	11483.94	3600.996	5704.079
#2	4850.115	87280.50	11393.18	3561.339	5719.505
#3	4849.808	87413.50	11423.54	3585.145	5727.596

Sample Name: Q2837-01DUP Acquired: 8/14/2025 16:36:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005176	.0039287	.0036109	-.003236	.0058951	.9016336
Stddev	.0005388	.0016881	.0006875	.002249	.0010699	.0029352
%RSD	104.0850	42.96787	19.03877	69.49494	18.14849	.3255419

#1	.0010532	.0019828	.0037079	-.005751	.0053728	.8983618
#2	-.000024	.0048038	.0042446	-.001418	.0071259	.9040355
#3	.000524	.0049996	.0028800	-.002538	.0051868	.9025037

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4526456	-.000025	-.000004	506.9390	.0540100	.0037747
Stddev	.0030484	.000007	.000074	3.1256	.0001048	.0002179
%RSD	.6734564	29.21229	2010.426	.6165670	.1940797	5.771888

#1	.4557387	-.000033	.000016	509.0251	.0540293	.0040090
#2	.4496441	-.000019	.000059	508.4466	.0541038	.0037371
#3	.4525540	-.000022	-.000086	503.3453	.0538969	.0035781

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258257	5.490307	.0065079	.4736849	.0452744	.0002167
Stddev	.0001512	.034745	.0002912	.0280418	.0004413	.0003791
%RSD	.5853445	.6328452	4.474160	5.919931	.9746248	174.9773

#1	.0258165	5.451358	.0061850	.4877683	.0449722	.0004956
#2	.0259813	5.501446	.0067504	.4918936	.0450703	.0003694
#3	.0256794	5.518116	.0065883	.4413927	.0457808	-.000215

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	224.4899	.0067677	.0107447	433.3540	.0643067	.2222410
Stddev	.5103	.0010086	.0001438	2.9742	.0007599	.0006835
%RSD	.2273078	14.90326	1.338509	.6863300	1.181625	.3075547

#1	224.0089	.0070548	.0108720	432.3638	.0650320	.2226537
#2	225.0252	.0056467	.0107734	436.6971	.0643718	.2214521
#3	224.4357	.0076016	.0105887	431.0012	.0635165	.2226173

Sample Name: Q2837-01DUP Acquired: 8/14/2025 16:36:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.016748	-0.012942	8.275377	.0384730	F 247.4088	.1148681
Stddev	.000353	.000758	.064865	.0011703	.2486	.0005681
%RSD	2.109798	5.859759	.7838317	3.041846	.1004797	.4945459

#1	-0.016439	-0.012131	8.202784	.0385906	247.6751	.1152484
#2	-0.016673	-0.013062	8.327648	.0372483	247.3685	.1142151
#3	-0.017133	-0.013633	8.295700	.0395800	247.1829	.1151409

Elem	Sr4077
Units	ppm
Avg	7.037833
Stddev	.064138
%RSD	.9113307

#1	7.111870
#2	6.999210
#3	7.002420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4882.262	88342.12	11702.63	3612.105	5795.182
Stddev	2.232	111.73	129.68	10.862	2.701
%RSD	.0457157	.1264797	1.108163	.3007150	.0466142

#1	4880.537	88248.46	11553.57	3599.626	5796.611
#2	4884.783	88312.10	11789.59	3617.257	5796.869
#3	4881.467	88465.79	11764.72	3619.433	5792.067

Sample Name: Q2837-01LX5 Acquired: 8/14/2025 16:41:26 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000610	.0013588	-.000389	-.002969	-.002322	.2047498
Stddev	.000860	.0007370	.001047	.003201	.001724	.0070503
%RSD	140.9382	54.23891	268.8634	107.8401	74.27727	3.443383

#1	-.000904	.0008005	-.001515	-.002704	-.000340	.2106723
#2	.000358	.0021942	-.000207	.000092	-.003480	.1969512
#3	-.001284	.0010818	.000555	-.006294	-.003145	.2066257

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0870861	-.000039	.0000297	108.8640	.0112163	.0006254
Stddev	.0009044	.000032	.0000486	.1794	.0002528	.0000582
%RSD	1.038489	83.36613	163.4089	.1647790	2.254344	9.305829

#1	.0881123	-.000068	-.000008	109.0326	.0114031	.0006095
#2	.0864053	-.000043	.000085	108.6755	.0109286	.0005768
#3	.0867408	-.000004	.000012	108.8840	.0113172	.0006899

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055706	1.093411	.0010734	.1110932	.0098233	.0010677
Stddev	.0004425	.011540	.0001868	.0111245	.0001174	.0001272
%RSD	7.944171	1.055409	17.40660	10.01368	1.195348	11.91022

#1	.0050767	1.080796	.0009310	.0993921	.0097916	.0010133
#2	.0059311	1.103435	.0010042	.1215338	.0097249	.0012130
#3	.0057040	1.096001	.0012849	.1123537	.0099533	.0009768

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.47351	.0014352	.0029166	84.32401	.0141205	.0452301
Stddev	.25532	.0022117	.0000499	.34984	.0002011	.0001393
%RSD	.6156329	154.1023	1.711313	.4148739	1.424345	.3080040

#1	41.36717	.0014092	.0029502	84.03363	.0141543	.0450726
#2	41.28853	.0036598	.0029403	84.22601	.0143026	.0452804
#3	41.76481	-.000763	.0028592	84.71240	.0139046	.0453372

Sample Name: Q2837-01LX5 Acquired: 8/14/2025 16:41:26 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000513	-0.003035	1.607270	.0062285	F 52.45920	.0379220
Stddev	.000154	.000524	.006490	.0020371	.23823	.0005607
%RSD	29.93932	17.27402	.4037794	32.70640	.4541253	1.478465

#1	-0.000397	-0.003379	1.608516	.0085542	52.72243	.0385543
#2	-0.000687	-0.003294	1.613047	.0047606	52.39676	.0374855
#3	-0.000455	-0.002431	1.600248	.0053706	52.25841	.0377261

Elem	Sr4077
Units	ppm
Avg	1.518608
Stddev	.006720
%RSD	.4424922

#1	1.515731
#2	1.513805
#3	1.526287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5391.345	97464.24	11968.65	4016.554	6633.411
Stddev	10.584	190.97	28.37	2.621	5.614
%RSD	.1963190	.1959436	.2370259	.0652613	.0846258

#1	5403.068	97676.96	11952.73	4018.467	6637.147
#2	5388.475	97307.54	11951.82	4017.630	6636.131
#3	5382.492	97408.21	12001.40	4013.566	6626.956

Sample Name: Q2837-01MS Acquired: 8/14/2025 16:45:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8600862	1.718191	.8882354	2.159626	.8729981	2.816105
Stddev	.0011176	.036341	.0028626	.006278	.0042557	.015045
%RSD	.1299457	2.115076	.3222830	.2906808	.4874847	.5342623

#1	.8610334	1.704342	.8852131	2.154125	.8723088	2.812748
#2	.8603716	1.759420	.8909058	2.158288	.8691292	2.832546
#3	.8588535	1.690810	.8885873	2.166464	.8775565	2.803022

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6390089	.1705970	.1897602	497.8931	.4435380	.1970176
Stddev	.0046707	.0011586	.0006880	2.9909	.0009498	.0005020
%RSD	.7309247	.6791583	.3625516	.6007182	.2141447	.2547796

#1	.6383743	.1715613	.1889669	500.7833	.4427164	.1966435
#2	.6439644	.1709181	.1901200	494.8107	.4433195	.1968213
#3	.6346879	.1693117	.1901937	498.0853	.4445779	.1975881

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3162861	8.685270	.2022725	2.206802	.5272807	.0680437
Stddev	.0002419	.027520	.0015677	.036197	.0011059	.0003603
%RSD	.0764678	.3168570	.7750342	1.640236	.2097420	.5295131

#1	.3160219	8.659356	.2018534	2.218359	.5260044	.0683071
#2	.3163400	8.714155	.2040071	2.235810	.5279542	.0681910
#3	.3164965	8.682299	.2009569	2.166239	.5278836	.0676331

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	229.5584	.2970745	.2349967	442.9647	.2954125	.6465524
Stddev	.6110	.0049263	.0002384	3.8332	.0036418	.0005656
%RSD	.2661675	1.658272	.1014435	.8653549	1.232769	.0874749

#1	228.9785	.2986405	.2352117	443.1275	.2982298	.6463773
#2	230.1964	.3010275	.2347403	439.0526	.2967075	.6460951
#3	229.5002	.2915556	.2350380	446.7139	.2913002	.6471849

Sample Name: Q2837-01MS Acquired: 8/14/2025 16:45:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6507833	.1810180	9.157723	5.801823	F 242.7781	.3217640
Stddev	.0023636	.0007653	.024745	.023480	.7784	.0012815
%RSD	.3631933	.4227713	.2702134	.4046938	.3206254	.3982732
#1	.6483902	.1801672	9.135006	5.779323	242.1658	.3212712
#2	.6508432	.1816500	9.154070	5.799972	243.6541	.3232188
#3	.6531163	.1812369	9.184091	5.826173	242.5142	.3208021

Elem	Sr4077
Units	ppm
Avg	7.278394
Stddev	.064433
%RSD	.8852572
#1	7.292693
#2	7.334476
#3	7.208013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4866.851	88971.90	11831.14	3634.720	5775.513
Stddev	4.349	13.15	77.86	17.308	11.624
%RSD	.0893696	.0147852	.6580920	.4761858	.2012574
#1	4868.126	88967.37	11757.65	3652.497	5788.858
#2	4870.420	88986.72	11823.04	3633.742	5767.599
#3	4862.006	88961.61	11912.73	3617.922	5770.081

Sample Name: CCV05 Acquired: 8/14/2025 16:50:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.114708	4.710340	4.773488	5.225192	5.232513	9.711862	9.705590
Stddev	.010041	.181250	.020237	.021441	.006194	.036775	.044734
%RSD	.1963064	3.847912	.4239372	.4103406	.1183827	.3786639	.4609070

#1	5.108402	4.559202	4.765103	5.203817	5.239619	9.738548	9.748060
#2	5.109435	4.660533	4.758791	5.225061	5.229667	9.727126	9.709819
#3	5.126286	4.911287	4.796569	5.246698	5.228254	9.669913	9.658893

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2283110	2.389477	23.77220	.9845878	2.412141	1.255871	5.155964
Stddev	.0005825	.009302	.03364	.0017722	.006791	.002367	.030665
%RSD	.2551481	.3892978	.1415112	.1799957	.2815514	.1885045	.5947402

#1	.2283110	2.383846	23.78398	.9864979	2.409587	1.255283	5.185966
#2	.2288935	2.384371	23.79837	.9842688	2.406997	1.253853	5.124677
#3	.2277284	2.400214	23.73426	.9829968	2.419840	1.258477	5.157248

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.361207	23.49209	2.428214	1.254954	23.34016	2.449468	2.588129
Stddev	.006207	.13764	.007289	.002017	.13439	.007149	.002971
%RSD	.2628753	.5859093	.3001728	.1607123	.5757819	.2918648	.1148012

#1	2.368359	23.54443	2.423096	1.257188	23.49052	2.456348	2.589525
#2	2.358041	23.59589	2.424987	1.254406	23.23175	2.449979	2.590145
#3	2.357222	23.33596	2.436560	1.253268	23.29821	2.442077	2.584717

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.50163	4.607680	5.140996	4.798819	4.853985	5.170420	4.605430
Stddev	.09923	.009483	.009979	.023892	.011980	.036363	.020036
%RSD	.3744181	.2058091	.1941051	.4978670	.2468077	.7032810	.4350545

#1	26.61267	4.603262	5.133516	4.777713	4.867668	5.201721	4.628190
#2	26.42166	4.618566	5.137145	4.793986	4.848900	5.130533	4.597647
#3	26.47055	4.601213	5.152327	4.824758	4.845386	5.179007	4.590453

Sample Name: CCV05 Acquired: 8/14/2025 16:50:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.885101	4.692917	4.899423
Stddev	.028042	.006610	.013246
%RSD	.5740388	.1408493	.2703683

#1	4.859013	4.700234	4.884562
#2	4.881534	4.691138	4.909989
#3	4.914756	4.687379	4.903719

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5508.273	100320.4	12161.45	4095.658	6755.987
Stddev	6.647	346.4	26.00	13.211	7.035
%RSD	.1206708	.3453247	.2138310	.3225701	.1041360

#1	5500.624	99937.5	12147.83	4080.881	6756.147
#2	5512.653	100612.1	12145.08	4106.327	6762.941
#3	5511.540	100411.5	12191.44	4099.767	6748.873

Sample Name: CCB05 Acquired: 8/14/2025 17:00:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000658	-.001408	-.000067	-.001777	-.000562	.0016345
Stddev	.001119	.000579	.000957	.001747	.000576	.0099087
%RSD	169.9612	41.08190	1430.778	98.34131	102.5266	606.2334

#1	.000232	-.001136	-.001171	-.000034	-.001210	-.003889
#2	-.000293	-.002073	.000530	-.003529	-.000371	.013074
#3	-.001914	-.001016	.000440	-.001768	-.000105	-.004281

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009753	.0000447	.0000147	.0054078	-.000129	-.000107
Stddev	.000945	.0000087	.0000632	.0085716	.000130	.000113
%RSD	9.688176	19.45259	430.0954	158.5044	100.3331	105.8633

#1	-.010363	.0000379	.0000497	.0082938	.000020	.000024
#2	-.010232	.0000416	-.000058	-.004234	-.000210	-.000175
#3	-.008665	.0000545	.000053	.012164	-.000199	-.000169

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000283	.0024441	-.000378	.0046958	.0000494	.0013196
Stddev	.000461	.0053989	.000092	.0146409	.0003482	.0002193
%RSD	163.0476	220.8954	24.36641	311.7877	705.0684	16.62097

#1	.000246	-.003695	-.000305	.0083537	-.000210	.0011439
#2	-.000602	.004574	-.000348	.0171609	-.000087	.0015654
#3	-.000493	.006453	-.000482	-.011427	.000445	.0012494

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4493008	-.002584	-.000061	.4421860	-.000433	.0001426
Stddev	.0309146	.002102	.000325	.0529697	.000246	.0001808
%RSD	6.880602	81.33630	530.8672	11.97905	56.80984	126.7244

#1	.4141281	-.005004	.000136	.3811360	-.000458	-.000007
#2	.4616075	-.001521	.000117	.4694776	-.000175	.000091
#3	.4721668	-.001226	-.000437	.4759445	-.000665	.000344

Sample Name: CCB05 Acquired: 8/14/2025 17:00:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000287	.0008311	.0042590	.0013334	F .0270164	.0011641
Stddev	.000427	.0002928	.0095369	.0013133	.0013954	.0007469
%RSD	148.8644	35.23710	223.9230	98.49551	5.165069	64.16588

#1	-.000365	.0005153	.0138699	.0015739	.0282076	.0003016
#2	-.000670	.0008842	-.005202	-.000084	.0273605	.0015867
#3	.000174	.0010937	.004109	.002510	.0254811	.0016039

Elem	Sr4077
Units	ppm
Avg	-.000063
Stddev	.000063
%RSD	99.07940

#1	-.000044
#2	-.000012
#3	-.000133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5789.619	104207.0	12088.27	4328.957	7695.130
Stddev	6.899	219.4	50.78	9.333	14.213
%RSD	.1191657	.2105421	.4201084	.2156059	.1847069

#1	5788.420	103993.7	12135.44	4329.264	7690.978
#2	5783.398	104195.2	12094.87	4319.474	7683.455
#3	5797.039	104432.0	12034.51	4338.133	7710.957

Sample Name: Q2837-01MSD Acquired: 8/14/2025 17:04:34 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8958620	1.772004	.9020326	2.264545	.9143061	2.899208
Stddev	.0051446	.017213	.0022376	.002643	.0010806	.006739
%RSD	.5742571	.9713640	.2480615	.1167066	.1181911	.2324343

#1	.8922155	1.752865	.8994549	2.261510	.9132688	2.906920
#2	.8936241	1.776931	.9034745	2.266339	.9142241	2.896249
#3	.9017465	1.786216	.9031683	2.265785	.9154254	2.894454

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6724473	.1723068	.1933040	515.9136	.4513684	.2019243
Stddev	.0020911	.0029025	.0003086	10.7060	.0003217	.0002319
%RSD	.3109730	1.684522	.1596727	2.075162	.0712704	.1148666

#1	.6705427	.1719592	.1929691	517.0006	.4517391	.2016806
#2	.6746850	.1753675	.1935770	526.0346	.4511617	.2021424
#3	.6721142	.1695937	.1933658	504.7055	.4512046	.2019498

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3277882	9.139796	.1993660	2.259079	.5403237	.0704419
Stddev	.0007436	.104090	.0022789	.022664	.0005798	.0008402
%RSD	.2268638	1.138862	1.143059	1.003230	.1073093	1.192715

#1	.3280245	9.121959	.1980633	2.234540	.5396543	.0713711
#2	.3269552	9.045778	.2019974	2.263471	.5406627	.0697358
#3	.3283850	9.251652	.1980374	2.279225	.5406543	.0702188

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	241.7269	.3055677	.2392248	464.0576	.3008991	.6723390
Stddev	2.9487	.0005667	.0014740	4.9147	.0053202	.0017143
%RSD	1.219861	.1854720	.6161735	1.059062	1.768096	.2549756

#1	241.9562	.3055285	.2380913	460.7965	.3013531	.6713714
#2	244.5543	.3061530	.2408912	461.6659	.3059778	.6713273
#3	238.6702	.3050216	.2386919	469.7103	.2953665	.6743183

Sample Name: Q2837-01MSD Acquired: 8/14/2025 17:04:34 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6580772	.1847748	9.644965	5.902406	F 256.6118	.3406898
Stddev	.0027214	.0014268	.135178	.010278	.7429	.0022154
%RSD	.4135442	.7721923	1.401544	.1741296	.2895219	.6502702

#1	.6552795	.1856130	9.601168	5.912991	255.7971	.3409546
#2	.6607153	.1855841	9.537115	5.901761	256.7868	.3383539
#3	.6582368	.1831274	9.796611	5.892466	257.2517	.3427609

Elem	Sr4077
Units	ppm
Avg	7.505237
Stddev	.071261
%RSD	.9494869

#1	7.461315
#2	7.587459
#3	7.466938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4772.103	89389.98	12048.37	3593.432	5696.337
Stddev	11.794	115.35	189.80	13.791	11.117
%RSD	.2471528	.1290452	1.575342	.3837942	.1951675

#1	4782.979	89338.19	12033.75	3609.163	5709.148
#2	4773.765	89522.15	11866.30	3587.709	5690.634
#3	4759.566	89309.58	12245.06	3583.422	5689.228

Sample Name: Q2837-01A Acquired: 8/14/2025 17:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8586769	1.670175	.8613869	2.177982	.8964786	2.761432
Stddev	.0035067	.038036	.0046050	.009105	.0027746	.009724
%RSD	.4083865	2.277361	.5346032	.4180256	.3094938	.3521184

#1	.8596176	1.641733	.8563777	2.184617	.8993992	2.751963
#2	.8616172	1.655411	.8623464	2.167602	.8938778	2.771392
#3	.8547957	1.713379	.8654365	2.181726	.8961587	2.760941

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6383446	.1629080	.1847726	496.1586	.4309728	.1924329
Stddev	.0007150	.0004026	.0004826	3.3333	.0011753	.0004226
%RSD	.1119999	.2471214	.2611867	.6718309	.2727192	.2196223

#1	.6385569	.1625371	.1842511	498.9639	.4302249	.1919486
#2	.6375475	.1628506	.1848632	497.0382	.4303659	.1926229
#3	.6389293	.1633362	.1852034	492.4737	.4323275	.1927271

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3123297	8.784790	.1881634	2.163687	.5182393	.0753241
Stddev	.0003775	.021532	.0000257	.005537	.0017363	.0012330
%RSD	.1208824	.2451018	.0136706	.2558946	.3350403	1.636924

#1	.3122778	8.761575	.1881898	2.161258	.5164106	.0755872
#2	.3127306	8.804105	.1881621	2.159780	.5184420	.0764043
#3	.3119808	8.788691	.1881384	2.170023	.5198654	.0739808

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	234.8103	.2922705	.2318932	445.1963	.2849944	.6532755
Stddev	2.8504	.0007539	.0011990	2.0389	.0010093	.0009606
%RSD	1.213934	.2579612	.5170367	.4579690	.3541382	.1470470

#1	238.0761	.2914824	.2305089	444.1158	.2852505	.6543805
#2	232.8225	.2929848	.2326047	443.9250	.2838818	.6526394
#3	233.5324	.2923442	.2325660	447.5480	.2858510	.6528067

Sample Name: Q2837-01A Acquired: 8/14/2025 17:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6520497	.1792648	9.486592	5.552983	F 241.6708	.3243025
Stddev	.0011763	.0018609	.014467	.039507	1.3319	.0006782
%RSD	.1804061	1.038077	.1524944	.7114578	.5511214	.2091274
#1	.6509177	.1772720	9.471159	5.508316	240.3958	.3242321
#2	.6519655	.1795653	9.499845	5.583345	241.5634	.3236622
#3	.6532659	.1809572	9.488772	5.567288	243.0531	.3250131

Elem	Sr4077
Units	ppm
Avg	7.179132
Stddev	.016781
%RSD	.2337431
#1	7.176181
#2	7.197193
#3	7.164023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4910.565	91667.12	12509.62	3675.669	5878.101
Stddev	4.821	112.63	26.17	12.794	10.665
%RSD	.0981779	.1228663	.2091660	.3480608	.1814438
#1	4905.925	91538.99	12499.45	3661.079	5886.405
#2	4915.549	91711.89	12539.35	3684.969	5881.825
#3	4910.222	91750.47	12490.07	3680.959	5866.073

Sample Name: Q2858-01 Acquired: 8/14/2025 17:13:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0572673	-.025466	1.384830	-.000232	-.007972	101.8079	.5109856
Stddev	.0015215	.001653	.000813	.001678	.000777	.1255	.0026807
%RSD	2.656889	6.490916	.0586960	722.3051	9.742734	.1232913	.5246097

#1	.0566789	-.023925	1.383918	.000705	-.007355	101.9128	.5108346
#2	.0589951	-.027212	1.385097	-.002170	-.007716	101.8422	.5137385
#3	.0561277	-.025261	1.385476	.000768	-.008844	101.6689	.5083835

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061287	.0105638	92.45795	.1875823	.0890305	.2792764	229.9780
Stddev	.0000561	.0001105	.28926	.0008524	.0001808	.0009147	.8450
%RSD	.9145552	1.046270	.3128523	.4543993	.2030993	.3275164	.3674060

#1	.0060740	.0105415	92.47392	.1885335	.0890106	.2788391	230.3633
#2	.0061259	.0104662	92.73889	.1873258	.0888605	.2786625	230.5616
#3	.0061860	.0106838	92.16104	.1868877	.0892205	.2803277	229.0091

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.890201	25.69322	.1693561	.0125017	5.702301	.3512860	1.028328
Stddev	.014516	.06582	.0003346	.0002532	.016181	.0024641	.002534
%RSD	.3731302	.2561911	.1975992	2.025068	.2837685	.7014605	.2464262

#1	3.890918	25.70214	.1690313	.0126011	5.717696	.3518069	1.027098
#2	3.904345	25.75413	.1693370	.0126901	5.703772	.3534481	1.031242
#3	3.875340	25.62339	.1696998	.0122139	5.685434	.3486031	1.026643

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.638765	.1530277	.0052772	.0065242	4.118063	11.12196	4.025009
Stddev	.077149	.0028228	.0001750	.0002364	.006184	.12992	.009432
%RSD	.8004060	1.844638	3.315182	3.623027	.1501577	1.168104	.2343423

#1	9.669984	.1559691	.0050847	.0065066	4.116473	11.26750	4.032173
#2	9.695411	.1527733	.0054265	.0062971	4.124886	11.01770	4.014322
#3	9.550898	.1503408	.0053204	.0067689	4.112829	11.08068	4.028532

Sample Name: Q2858-01 Acquired: 8/14/2025 17:13:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.962992	.1001873	.2081702
Stddev	.010047	.0009241	.0004289
%RSD	.3390670	.9223468	.2060185

#1	2.965073	.1009682	.2076752
#2	2.952068	.1004267	.2084292
#3	2.971835	.0991671	.2084062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6084.976	111450.5	14732.17	4512.093	6675.461
Stddev	11.950	194.0	17.11	8.716	8.981
%RSD	.1963862	.1740249	.1161543	.1931701	.1345375

#1	6082.715	111257.2	14724.68	4516.653	6670.034
#2	6097.895	111449.4	14720.09	4502.043	6685.828
#3	6074.317	111645.1	14751.75	4517.583	6670.522

Sample Name: Q2858-01DUP Acquired: 8/14/2025 17:17:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606134	-.026574	1.408849	-.001385	-.007143	105.4439	.5215077
Stddev	.0011122	.002079	.002476	.001390	.001078	.0828	.0004167
%RSD	1.834926	7.824551	.1757643	100.3599	15.08782	.0784951	.0799031

#1	.0617569	-.028606	1.408800	-.000123	-.005904	105.3642	.5214736
#2	.0595353	-.026667	1.406397	-.002876	-.007662	105.5294	.5211091
#3	.0605480	-.024450	1.411349	-.001158	-.007864	105.4381	.5219404

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064002	.0116699	82.63264	.2061302	.0966712	.2870158	229.2773
Stddev	.0001343	.0000201	.09245	.0002329	.0003842	.0004812	.6724
%RSD	2.098420	.1723581	.1118854	.1129704	.3974673	.1676681	.2932605

#1	.0062616	.0116468	82.63511	.2061043	.0971135	.2871402	229.9213
#2	.0065297	.0116791	82.72382	.2059113	.0964204	.2864847	229.3307
#3	.0064092	.0116838	82.53897	.2063749	.0964796	.2874227	228.5798

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.123274	28.17365	.1793015	.0099079	5.486426	.3421529	1.156859
Stddev	.007545	.11231	.0004424	.0001246	.010795	.0013725	.000075
%RSD	.1472607	.3986301	.2467653	1.258038	.1967639	.4011468	.0064664

#1	5.128752	28.14270	.1797092	.0100515	5.493309	.3431581	1.156914
#2	5.126400	28.29819	.1788310	.0098442	5.491985	.3405891	1.156774
#3	5.114668	28.08006	.1793643	.0098280	5.473984	.3427114	1.156888

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.90735	.1316237	.0060489	.0099033	3.713799	12.54578	4.123067
Stddev	.02061	.0021646	.0001881	.0009400	.015857	.16404	.010091
%RSD	.1889883	1.644502	3.110418	9.492195	.4269646	1.307570	.2447557

#1	10.89970	.1337705	.0061125	.0104221	3.701665	12.70634	4.121694
#2	10.93070	.1316590	.0058372	.0104696	3.731740	12.55255	4.113733
#3	10.89166	.1294418	.0061970	.0088181	3.707990	12.37846	4.133775

Sample Name: Q2858-01DUP Acquired: 8/14/2025 17:17:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.974418	.1117740	.1745882
Stddev	.008784	.0003858	.0011118
%RSD	.2953268	.3451385	.6368404

#1	2.982331	.1119351	.1733045
#2	2.975957	.1113338	.1752134
#3	2.964966	.1120531	.1752467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6111.250	111949.3	14454.72	4550.291	6686.929
Stddev	3.354	97.9	24.76	5.879	1.528
%RSD	.0548838	.0874660	.1712659	.1292091	.0228487

#1	6115.016	112034.7	14482.74	4544.877	6685.166
#2	6108.583	111842.4	14435.81	4549.452	6687.872
#3	6110.152	111970.6	14445.62	4556.545	6687.749

Sample Name: Q2858-01LX5 Acquired: 8/14/2025 17:21:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134344	-.006576	.3012615	-.001273	-.001375	23.72329	.1066000
Stddev	.0012814	.002026	.0043120	.000898	.001357	.02245	.0006689
%RSD	9.537920	30.80959	1.431309	70.50517	98.72969	.0946300	.6274926

#1	.0143781	-.007361	.3049080	-.001148	.000192	23.70269	.1072278
#2	.0119757	-.008092	.3023743	-.000444	-.002140	23.74722	.1066758
#3	.0139494	-.004275	.2965022	-.002226	-.002176	23.71998	.1058964

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015277	.0017943	21.91431	.0445173	.0184459	.0687060	52.00371
Stddev	.0000436	.0001163	.04073	.0003730	.0001106	.0007010	.15226
%RSD	2.851082	6.479860	.1858754	.8377926	.5993446	1.020304	.2927905

#1	.0014878	.0018664	21.91808	.0445383	.0183786	.0685838	51.95335
#2	.0015211	.0018564	21.87183	.0441343	.0185735	.0694601	52.17477
#3	.0015741	.0016602	21.95303	.0448793	.0183857	.0680742	51.88301

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9510984	6.166296	.0356523	.0034705	1.630119	.0822357	.2571195
Stddev	.0011138	.015207	.0005096	.0001892	.016788	.0017175	.0015089
%RSD	.1171097	.2466172	1.429442	5.452930	1.029852	2.088556	.5868352

#1	.9510250	6.177505	.0362407	.0032704	1.613742	.0821241	.2587033
#2	.9500232	6.172399	.0353570	.0034944	1.629324	.0840063	.2556988
#3	.9522472	6.148986	.0353590	.0036466	1.647290	.0805766	.2569565

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.615458	.0217507	.0013304	.0000958	.9666221	2.859320	.8248415
Stddev	.018941	.0014301	.0002554	.0008907	.0034454	.025972	.0125775
%RSD	.7242013	6.575105	19.19680	929.7116	.3564377	.9083433	1.524832

#1	2.593627	.0202936	.0013228	.0010440	.9668328	2.830006	.8309876
#2	2.625222	.0231522	.0015895	-.000723	.9630762	2.879462	.8331641
#3	2.627524	.0218061	.0010789	-.000033	.9699574	2.868493	.8103727

Sample Name: Q2858-01LX5 Acquired: 8/14/2025 17:21:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6821402	.0232474	.0490129
Stddev	.0076183	.0013627	.0003732
%RSD	1.116816	5.861540	.7614733

#1	.6873452	.0239572	.0493724
#2	.6856792	.0241086	.0486273
#3	.6733961	.0216763	.0490392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5813.359	106896.5	13324.12	4345.838	7313.607
Stddev	4.392	118.4	43.29	6.111	6.228
%RSD	.0755445	.1107521	.3249223	.1406238	.0851589

#1	5815.988	106987.4	13327.91	4343.835	7306.416
#2	5808.289	106762.6	13365.40	4352.700	7317.115
#3	5815.799	106939.4	13279.06	4340.980	7317.290

Sample Name: Q2858-01MS Acquired: 8/14/2025 17:25:53 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7556269	1.664506	2.206179	1.695790	.3254792	119.6307
Stddev	.0031263	.023765	.005039	.008022	.0006452	.1735
%RSD	.4137333	1.427752	.2284215	.4730312	.1982471	.1450456

#1	.7590487	1.681298	2.211428	1.686843	.3262229	119.6630
#2	.7529200	1.637313	2.201379	1.698188	.3251479	119.7858
#3	.7549119	1.674905	2.205728	1.702340	.3250670	119.4433

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6981396	.1488239	.1897487	94.79876	.5507114	.2814447
Stddev	.0019571	.0007795	.0004388	.18349	.0041207	.0004300
%RSD	.2803355	.5237656	.2312347	.1935523	.7482522	.1527865

#1	.6958863	.1488559	.1896484	94.78148	.5543004	.2813952
#2	.6994164	.1495869	.1893688	94.99027	.5516225	.2810416
#3	.6991160	.1480289	.1902290	94.62452	.5462114	.2818973

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5340245	251.1046	4.701313	29.29738	.6471347	.0786857
Stddev	.0008027	1.0500	.009286	.07171	.0013945	.0000514
%RSD	.1503150	.4181339	.1975201	.2447814	.2154865	.0652584

#1	.5336197	252.1527	4.691232	29.33261	.6462197	.0787443
#2	.5335047	251.1082	4.709518	29.34467	.6464448	.0786638
#3	.5349490	250.0529	4.703188	29.21487	.6487397	.0786488

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.281295	.5897101	1.319329	20.28678	.3747947	.3558079
Stddev	.022258	.0025143	.012533	.06237	.0036688	.0007474
%RSD	.2687726	.4263606	.9499892	.3074300	.9788794	.2100693

#1	8.299494	.5899201	1.324905	20.34907	.3790167	.3563136
#2	8.287913	.5921128	1.328107	20.28692	.3723821	.3549493
#3	8.256479	.5870974	1.304975	20.22434	.3729852	.3561607

Sample Name: Q2858-01MS Acquired: 8/14/2025 17:25:53 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6009222	4.172984	F 16.55255	9.371012	3.754173	.2820730
Stddev	.0013794	.007180	.24936	.012827	.011329	.0010864
%RSD	.2295514	.1720536	1.506500	.1368790	.3017769	.3851573
#1	.6006644	4.178362	16.84045	9.385393	3.760492	.2809796
#2	.5996899	4.164830	16.41279	9.360752	3.741094	.2820872
#3	.6024124	4.175759	16.40441	9.366891	3.760935	.2831523

Elem	Sr4077
Units	ppm
Avg	.3899516
Stddev	.0024026
%RSD	.6161387
#1	.3871845
#2	.3915081
#3	.3911623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6108.744	112745.8	14986.15	4567.899	6595.786
Stddev	9.462	660.6	46.96	38.109	12.545
%RSD	.1548948	.5859284	.3133377	.8342718	.1901966
#1	6112.038	112180.8	15000.89	4556.539	6593.780
#2	6116.118	112584.4	14933.60	4536.762	6609.213
#3	6098.075	113472.1	15023.98	4610.396	6584.364

Sample Name: Q2858-01MSD Acquired: 8/14/2025 17:29:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7534426	1.679801	2.417061	1.684420	.3060983	127.8085
Stddev	.0038816	.029520	.005451	.003789	.0020697	.0348
%RSD	.5151756	1.757341	.2255107	.2249173	.6761699	.0271990

#1	.7544535	1.661423	2.421483	1.688670	.3084237	127.7928
#2	.7491556	1.664128	2.410971	1.681398	.3054132	127.7844
#3	.7567187	1.713852	2.418729	1.683193	.3044579	127.8484

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7474403	.1482530	.1906274	69.48679	.5440577	.2886343
Stddev	.0020743	.0001799	.0006262	.12753	.0020309	.0004717
%RSD	.2775251	.1213413	.3284991	.1835289	.3732843	.1634387

#1	.7493475	.1482998	.1911243	69.62351	.5463508	.2890828
#2	.7452317	.1484048	.1899240	69.37106	.5424859	.2881423
#3	.7477416	.1480543	.1908340	69.46580	.5433366	.2886778

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5577476	259.1127	4.868481	31.40618	.6627894	.0789635
Stddev	.0012133	1.5779	.017633	.04065	.0006256	.0007662
%RSD	.2175378	.6089441	.3621773	.1294335	.0943959	.9702682

#1	.5566315	260.7599	4.885665	31.43371	.6626072	.0795858
#2	.5575722	257.6148	4.850432	31.35949	.6622751	.0781078
#3	.5590391	258.9633	4.869347	31.42534	.6634859	.0791969

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.472979	.6004427	1.427478	19.98263	.3460646	.3503622
Stddev	.047980	.0040285	.005481	.08874	.0068242	.0006842
%RSD	.5662735	.6709283	.3839959	.4440999	1.971946	.1952963

#1	8.528069	.6040055	1.433330	20.08483	.3522296	.3507875
#2	8.450531	.6012515	1.426642	19.92515	.3387319	.3495729
#3	8.440339	.5960711	1.422463	19.93790	.3472322	.3507262

Sample Name: Q2858-01MSD Acquired: 8/14/2025 17:29:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5994116	4.171916	F 15.83624	9.365435	2.839599	.2980917
Stddev	.0018321	.012608	.03729	.012796	.005342	.0014521
%RSD	.3056469	.3022005	.2354446	.1366273	.1881324	.4871346

#1	.5988023	4.186449	15.87737	9.379603	2.835682	.2982059
#2	.5979617	4.163911	15.80466	9.354721	2.837430	.2994834
#3	.6014707	4.165387	15.82670	9.361980	2.845684	.2965859

Elem	Sr4077
Units	ppm
Avg	.2926608
Stddev	.0001732
%RSD	.0591918

#1	.2927345
#2	.2927850
#3	.2924629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6111.569	112717.6	15012.36	4542.080	6578.795
Stddev	6.086	148.6	36.10	13.339	9.247
%RSD	.0995890	.1318236	.2404448	.2936727	.1405573

#1	6107.076	112575.1	15053.96	4531.923	6569.306
#2	6118.496	112871.6	14989.28	4557.186	6587.780
#3	6109.136	112706.2	14993.85	4537.131	6579.299

Sample Name: Q2858-01A Acquired: 8/14/2025 17:33:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8306090	1.854410	2.292205	1.928257	.8083428	102.2124
Stddev	.0455433	.082066	.051513	.106636	.0429324	.0594
%RSD	5.483121	4.425456	2.247323	5.530169	5.311163	.0581558

#1	.7838324	1.787525	2.236072	1.822001	.7646813	102.1946
#2	.8331851	1.829717	2.303228	1.927501	.8098401	102.1639
#3	.8748096	1.945987	2.337314	2.035269	.8505070	102.2787

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6451984	.1402317	.2048385	90.60228	.4998504	.2893090
Stddev	.0043495	.0059786	.0100990	.20966	.0124726	.0100679
%RSD	.6741382	4.263365	4.930226	.2314110	2.495267	3.479992

#1	.6403286	.1346138	.1942090	90.37726	.4870820	.2787365
#2	.6465689	.1395660	.2060000	90.79214	.5004647	.2904082
#3	.6486975	.1465152	.2143065	90.63744	.5120045	.2987821

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5505642	230.5231	4.094939	26.72454	.6709877	.0729780
Stddev	.0153321	1.8986	.008344	.10874	.0266490	.0021208
%RSD	2.784789	.8236125	.2037695	.4068923	3.971605	2.906096

#1	.5351441	230.2834	4.094135	26.60023	.6428112	.0705308
#2	.5507420	232.5301	4.103657	26.80202	.6743649	.0741228
#3	.5658066	228.7557	4.087027	26.77137	.6957872	.0742805

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.508279	.5475397	1.181167	17.14534	.3484493	.4052057
Stddev	.046676	.0082232	.002779	.26118	.0074945	.0217902
%RSD	.6216667	1.501841	.2352682	1.523308	2.150826	5.377556

#1	7.457267	.5392505	1.178050	16.85592	.3398561	.3826581
#2	7.548851	.5476733	1.182064	17.21662	.3536320	.4068093
#3	7.518720	.5556952	1.183386	17.36347	.3518598	.4261498

Sample Name: Q2858-01A Acquired: 8/14/2025 17:33:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6955269	4.173397	F 13.59954	9.237124	2.841748	.2339152
Stddev	.0362599	.007752	.17359	.273065	.012470	.0057256
%RSD	5.213307	.1857539	1.276414	2.956168	.4388155	2.447728

#1	.6569388	4.164599	13.66595	8.949962	2.855640	.2277246
#2	.7007495	4.176368	13.73011	9.267933	2.831523	.2350007
#3	.7288923	4.179225	13.40255	9.493478	2.838081	.2390205

Elem	Sr4077
Units	ppm
Avg	.3357606
Stddev	.0053165
%RSD	1.583406

#1	.3314242
#2	.3341657
#3	.3416920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6020.651	110565.5	14721.01	4492.515	6611.799
Stddev	17.080	405.1	45.08	20.489	14.615
%RSD	.2836918	.3664129	.3062486	.4560662	.2210407

#1	6036.788	110466.8	14718.68	4498.135	6626.858
#2	6022.403	110218.8	14767.22	4469.803	6610.864
#3	6002.762	111010.8	14677.14	4509.608	6597.673

Sample Name: CCV06 Acquired: 8/14/2025 17:54:46 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.147495	4.999600	4.751030	5.255591	5.260674	9.734911
Stddev	.015191	.099565	.006624	.022497	.020105	.025187
%RSD	.2951152	1.991459	.1394304	.4280503	.3821663	.2587273

#1	5.130577	4.908454	4.750209	5.230045	5.237723	9.742626
#2	5.151943	5.105856	4.744853	5.272447	5.275172	9.706770
#3	5.159966	4.984489	4.758026	5.264279	5.269126	9.755339

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.969442	.2425316	2.382054	24.00823	.9842582	2.409881
Stddev	.050538	.0004587	.004397	.05314	.0014397	.005892
%RSD	.5069251	.1891344	.1845684	.2213458	.1462701	.2445107

#1	9.973389	.2430518	2.382722	24.00856	.9826510	2.408781
#2	9.917046	.2423575	2.377361	23.95492	.9854298	2.404616
#3	10.01789	.2421854	2.386077	24.06121	.9846938	2.416246

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255099	5.312148	2.397394	23.41586	2.428692	1.253767
Stddev	.001056	.024378	.007826	.08950	.002713	.001779
%RSD	.0841104	.4589171	.3264538	.3822044	.1116937	.1418599

#1	1.254253	5.288752	2.395763	23.41742	2.427751	1.252972
#2	1.254762	5.310289	2.390511	23.32560	2.426575	1.252523
#3	1.256282	5.337402	2.405907	23.50457	2.431750	1.255804

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.04809	2.474562	2.572157	26.94976	4.502417	5.201319
Stddev	.09674	.004415	.001729	.09096	.008400	.013412
%RSD	.3862371	.1784027	.0672077	.3375195	.1865627	.2578616

#1	24.96957	2.474680	2.570219	26.87457	4.511602	5.186033
#2	25.01853	2.470089	2.573539	26.92385	4.495125	5.211115
#3	25.15616	2.478916	2.572712	27.05087	4.500525	5.206810

Sample Name: CCV06 Acquired: 8/14/2025 17:54:46 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.797266	4.935201	5.388417	F 4.411828	4.785661	4.762817
Stddev	.007663	.014011	.023182	.002845	.005754	.012100
%RSD	.1597307	.2838976	.4302205	.0644779	.1202280	.2540542
#1	4.796259	4.931426	5.368851	4.415072	4.781486	4.763223
#2	4.790157	4.923464	5.382380	4.410649	4.792224	4.750520
#3	4.805383	4.950713	5.414020	4.409762	4.783272	4.774710

Elem	Sr4077
Units	ppm
Avg	5.043267
Stddev	.024828
%RSD	.4923048
#1	5.019117
#2	5.041962
#3	5.068721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5549.096	100637.8	12475.61	4140.234	6820.090
Stddev	14.272	222.1	11.79	15.761	11.202
%RSD	.2571983	.2207097	.0945042	.3806698	.1642457
#1	5565.512	100878.5	12465.38	4158.300	6830.290
#2	5542.149	100594.2	12488.50	4129.303	6821.878
#3	5539.628	100440.8	12472.95	4133.098	6808.102

Sample Name: CCB06 Acquired: 8/14/2025 18:05:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000102	-.001876	.0000201	-.001761	-.000204	-.015220
Stddev	.001588	.000902	.0002232	.002373	.002072	.005063
%RSD	1559.755	48.10584	1108.701	134.7118	1015.861	33.26677

#1	-.001907	-.002596	-.000130	-.003257	-.000126	-.020608
#2	.001080	-.002167	-.000087	.000974	.001827	-.014493
#3	.000522	-.000864	.000277	-.003001	-.002313	-.010560

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014347	-.000005	.0000123	.0202246	.0004056	-.000227
Stddev	.000814	.000041	.0000388	.0040049	.0001708	.000077
%RSD	5.670367	821.0430	316.2779	19.80196	42.11782	33.86251

#1	-.014192	-.000048	.0000003	.0211239	.0006025	-.000231
#2	-.015228	.000034	.0000556	.0237033	.0002967	-.000301
#3	-.013623	-.000001	-.000019	.0158465	.0003176	-.000148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000395	.0076668	-.000326	-.003407	.0002365	.0014844
Stddev	.000135	.0033631	.000125	.007987	.0001322	.0003185
%RSD	34.06172	43.86546	38.48021	234.4409	55.91155	21.45560

#1	-.000399	.0109076	-.000214	.002998	.0003662	.0013722
#2	-.000258	.0041935	-.000462	-.012355	.0001019	.0018439
#3	-.000527	.0078992	-.000303	-.000863	.0002413	.0012373

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4055122	-.001236	.0003172	.5199273	.0018751	.0002963
Stddev	.0199763	.000367	.0000315	.0040250	.0002921	.0000675
%RSD	4.926184	29.69414	9.916939	.7741421	15.57748	22.77358

#1	.3838788	-.001583	.0003490	.5245476	.0015575	.0002254
#2	.4093971	-.000851	.0002861	.5171809	.0021322	.0003037
#3	.4232607	-.001275	.0003166	.5180534	.0019356	.0003598

Sample Name: CCB06 Acquired: 8/14/2025 18:05:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013915	-.000174	.0194123	-.001219	F .0101961	.0035866
Stddev	.000372	.000455	.0005403	.000710	.0005331	.0005852
%RSD	2.673263	261.1370	2.783297	58.29687	5.228649	16.31595

#1	-.014106	.000301	.0189112	-.001938	.0098765	.0029491
#2	-.013487	-.000607	.0199847	-.000518	.0108115	.0037112
#3	-.014154	-.000217	.0193409	-.001199	.0099001	.0040993

Elem	Sr4077
Units	ppm
Avg	-.000095
Stddev	.000033
%RSD	34.46160

#1	-.000057
#2	-.000116
#3	-.000111

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5763.393	105381.3	12420.50	4317.490	7671.868
Stddev	9.482	102.9	50.78	12.501	9.454
%RSD	.1645135	.0976004	.4088658	.2895346	.1232326

#1	5771.780	105295.0	12464.00	4303.402	7680.502
#2	5765.295	105495.1	12432.81	4321.811	7673.337
#3	5753.105	105353.8	12364.70	4327.258	7661.766

LB136799 INSTRUMENT ID:CV1

Method: 7471B

Operator: Admin

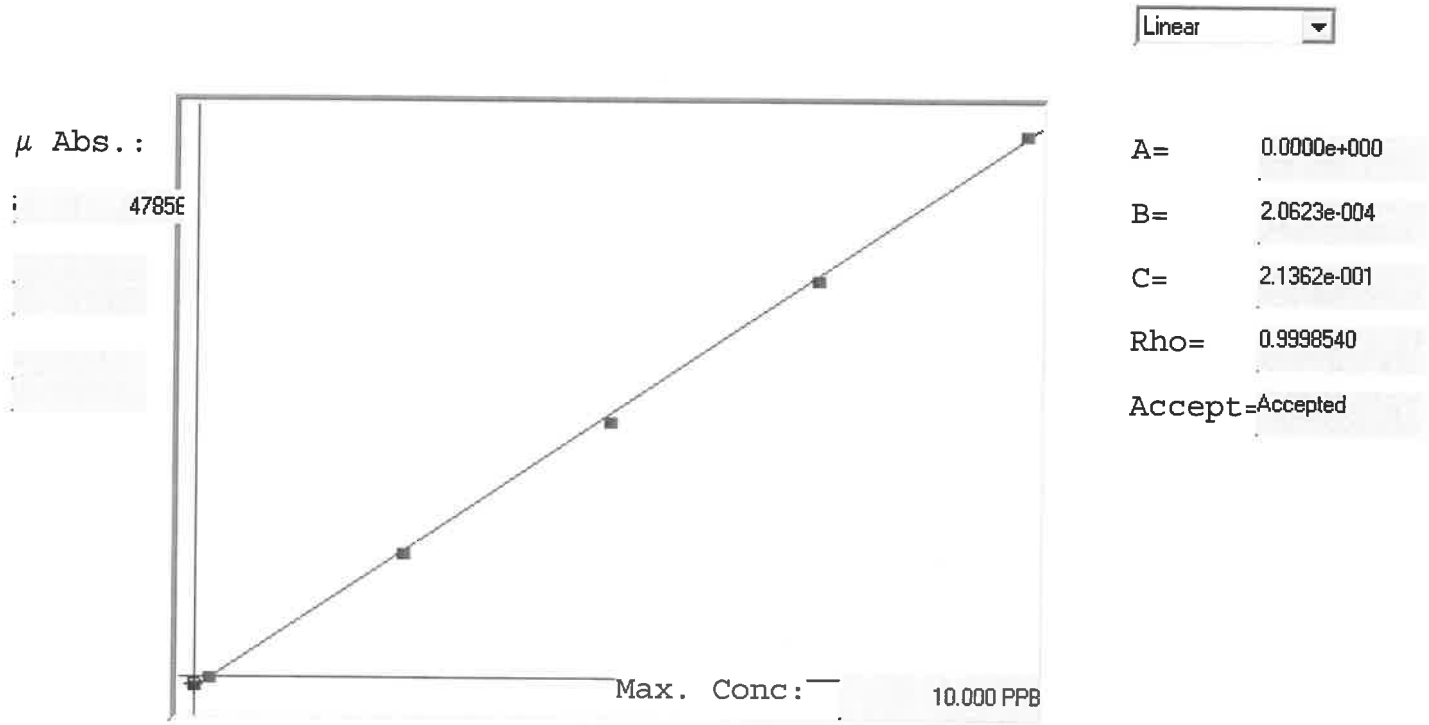
Date of Analysis: 13 Aug 2025 13:56:07

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Type	Stdnd Conc	Method	Date
S	0.0 - 1	50.0	-	-829	PPB	Std	0.0000	7471B	13 Aug 2025 14:11:01
S	0.2 - 1	50.2	-	109	PPB	Std	0.2000	7471B	13 Aug 2025 14:13:18
S	2.5 - 1	52.5	-	11015	PPB	Std	2.5000	7471B	13 Aug 2025 14:15:35
S	5.0 - 1	55.0	-	22669	PPB	Std	5.0000	7471B	13 Aug 2025 14:17:52
S	7.5 - 1	57.5	-	35161	PPB	Std	7.5000	7471B	13 Aug 2025 14:20:11
S	10.0 - 1	510.0	-	47856	PPB	Std	10.0000	7471B	13 Aug 2025 14:22:30
U	ICV13 - 1	ICV13	3.9393	18066	PPB	SMPL	-7471B		13 Aug 2025 14:39:23
U	ICB13 - 1	ICB13	-0.0192	-1129	PPB	SMPL	-7471B		13 Aug 2025 14:41:40
U	CCV38 - 1	CCV38	4.9836	23130	PPB	SMPL	-7471B		13 Aug 2025 14:44:01
U	CCB38 - 1	CCB38	-0.0347	-1204	PPB	SMPL	-7471B		13 Aug 2025 14:46:15
U	CRA - 1	CRA	0.2332	95	PPB	SMPL	-7471B		13 Aug 2025 14:48:35
U	HighStd - 1	HighStd	10.1669	48264	PPB	SMPL	-7471B		13 Aug 2025 14:50:50
U	ChkStd - 1	ChkStd	7.7431	36511	PPB	SMPL	-7471B		13 Aug 2025 14:53:08
U	PB169231BL - 1	PB169231BL	-0.0912	-1478	PPB	SMPL	-7471B		13 Aug 2025 14:55:33
U	PB169231BS - 1	PB169231BS	3.4679	15780	PPB	SMPL	-7471B		13 Aug 2025 14:57:54
U	Q2832-01 - 1	TG-S01	21.3213	102352	PPB	SMPL	-7471B		13 Aug 2025 15:00:11
U	Q2832-03 - 1	TG-S02	5.1868	24115	PPB	SMPL	-7471B		13 Aug 2025 15:02:30
U	Q2832-05 - 1	TG-S03	7.2954	34340	PPB	SMPL	-7471B		13 Aug 2025 15:05:13
U	Q2832-07 - 1	TG-S04	6.5899	30919	PPB	SMPL	-7471B		13 Aug 2025 15:08:55
U	Q2832-09 - 1	TG-S05	9.4773	44920	PPB	SMPL	-7471B		13 Aug 2025 15:11:11
U	CCV39 - 1	CCV39	4.8834	22644	PPB	SMPL	-7471B		13 Aug 2025 15:13:34
U	CCB39 - 1	CCB39	-0.0621	-1337	PPB	SMPL	-7471B		13 Aug 2025 15:15:59
U	Q2838-01 - 1	TP-11	0.0622	-734	PPB	SMPL	-7471B		13 Aug 2025 15:18:19
U	Q2838-05 - 1	TP-10	0.2738	292	PPB	SMPL	-7471B		13 Aug 2025 15:20:35
U	Q2840-01 - 1	0804-SOIL	2.2317	9786	PPB	SMPL	-7471B		13 Aug 2025 15:22:51
U	Q2840-01DUP - 1	0804-SOILDUP	1.6417	6925	PPB	SMPL	-7471B		13 Aug 2025 15:25:07
U	Q2840-01MS - 1	0804-SOILMS	5.0152	23283	PPB	SMPL	-7471B		13 Aug 2025 15:27:27
U	Q2840-01MSD - 1	0804-SOILMSD	6.5726	30835	PPB	SMPL	-7471B		13 Aug 2025 15:32:57
U	Q2840-02 - 1	0804-D	0.0928	-586	PPB	SMPL	-7471B		13 Aug 2025 15:37:52
U	Q2840-01LX5 - 1		0.3873	842	PPB	SMPL	-7471B		13 Aug 2025 15:40:12
U	Q2840-01A - 1		4.0915	18804	PPB	SMPL	-7471B		13 Aug 2025 15:42:29
U	Q2832-01DLX5 - 1		4.2286	19469	PPB	SMPL	-7471B		13 Aug 2025 15:44:45
U	CCV40 - 1	CCV40	4.7574	22033	PPB	SMPL	-7471B		13 Aug 2025 15:47:03
U	CCB40 - 1	CCB40	-0.0270	-1167	PPB	SMPL	-7471B		13 Aug 2025 15:49:29

LB136799

7471B

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	10.0
0.0	0.000	0.043	0.043	-829	0.000	-829					10.0
0.2	0.200	0.236	0.036	109	0.0 %	109					10.0
2.5	2.500	2.485	-0.015	11015	0.0 %	11015					10.0
5.0	5.000	4.889	-0.111	22669	0.0 %	22669					10.0
7.5	7.500	7.465	-0.035	35161	0.0 %	35161					10.0
10.0	10.000	10.083	0.083	47856	0.0 %	47856					10.0

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 08/12/2025 Time : 13:05 Temp : 97 °C

End Digest Date: 08/12/2025 Time : 11:15 Temp : 98 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: *[Signature]*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6180
LFS-2	1.00	M6181
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP86404
30% H2O2	3.00	M6170
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#5 CELL#35 97C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/12/2025 12:15	<i>[Signature]</i> Met Dig	<i>[Signature]</i> Met Lab
08/12/2025	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB169215BL	PBS215	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB169215BS	LCS215	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6180,M6181	2
Q2829-01	SILICA	N/A	2.36	100	White	Yellow	Medium	N/A	N/A	3
Q2830-01	BIN0009-DRIVEWAY-TP-SO UTH EAST	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	4
Q2830-03	BIN0009-DRIVEWAY-TP-WE ST	N/A	2.25	100	Reddish Brown	Yellow	Medium	N/A	N/A	5
Q2830-05	BIN0009-DRIVEWAY-TP-WE STSIDE	N/A	2.27	100	Reddish Brown	Yellow	Medium	N/A	N/A	6
Q2830-07	BIN0009-DRIVEWAY-TP-EAS TSIDE	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	7
Q2831-01	VNJ-238	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	8
Q2832-01	TG-S01	N/A	2.14	100	Dark Brown	Yellow	Medium	N/A	N/A	9
Q2832-03	TG-S02	N/A	2.12	100	Dark Brown	Yellow	Medium	N/A	N/A	10
Q2832-05	TG-S03	N/A	2.20	100	Dark Brown	Yellow	Medium	N/A	N/A	11
Q2832-07	TG-S04	N/A	2.21	100	Dark Brown	Yellow	Medium	N/A	N/A	12
Q2832-09	TG-S05	N/A	2.35	100	Black	Yellow	Medium	N/A	N/A	13
Q2832-09DUP	TG-S05DUP	N/A	2.30	100	Black	Yellow	Medium	N/A	N/A	14
Q2832-09MS	TG-S05MS	N/A	2.31	100	Black	Yellow	Medium	N/A	M6180,M6181	15
Q2832-09MSD	TG-S05MSD	N/A	2.32	100	Black	Yellow	Medium	N/A	M6180,M6181	16

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB169215

Worklist ID : 191224

Department : Digestion

Date : 08-12-2025 12:23:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2829-01	SILICA	Solid	Metals Group3	Cool 4 deg C	VVA01	D21	08/11/2025	6010D
Q2830-01	BIN0009-DRIVEWAY-TP-SOUT	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	08/11/2025	6010D
Q2830-03	BIN0009-DRIVEWAY-TP-WEST	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	08/11/2025	6010D
Q2830-05	BIN0009-DRIVEWAY-TP-WEST	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	08/11/2025	6010D
Q2830-07	BIN0009-DRIVEWAY-TP-EAST	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	08/11/2025	6010D
Q2831-01	VNJ-238	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D21	08/11/2025	6010D
Q2832-01	TG-S01	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	J21	08/11/2025	6010D
Q2832-03	TG-S02	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	J21	08/11/2025	6010D
Q2832-05	TG-S03	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	J21	08/11/2025	6010D
Q2832-07	TG-S04	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	J21	08/11/2025	6010D
Q2832-09	TG-S05	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	J21	08/12/2025	6010D

Date/Time 08/12/25 12:40
 Raw Sample Received by: SKMethala
 Raw Sample Relinquished by: JCS

Date/Time 08/12/25 13:40
 Raw Sample Received by: JCS
 Raw Sample Relinquished by: SKMethala

SOP ID : M7471B-Mercury-19

SDG No : N/A

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 08/13/2025 Time : 10:30 Temp : 95 °C

End Digest Date: 08/13/2025 Time : 10:40 Temp : 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: 

Supervisor Signature: 

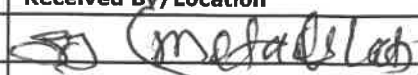
Temp : 1. 95°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP86761
CCV	30mL	MP86763
CRA	30mL	MP86765
Blank Spike	0.48mL	MP86754
Matrix Spike	0.48mL	MP86754

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	2.5mL	MP86767
KMnO4 (5%)	4.5mL	MP85893
Hydroxylamine HCL (12%)	2.0mL	MP85895
PTFE Boiling Stones	-----	M5582
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP86755
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP86756
2.5 ppb	S2.5	30mL	MP86757
5.0 ppb	S5.0	30mL	MP86758
7.5 ppb	S7.5	30mL	MP86759
10.0 ppb	S10.0	30mL	MP86760
ICV	ICV	30mL	MP86761
ICB	ICB	30mL	MP86762
CCV	CCV	30mL	MP86763
CCB	CCB	30mL	MP86764
CRI	CRI	30mL	MP86765
CHK STD	CHK STD	30mL	MP86766

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/13/25 11:40	S14 met dig	
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB169231BL	PBS231	0.51	35	N/A	N/A	1-1
PB169231BS	LCS231	0.51	35	N/A	MP86754	2
Q2832-01	TG-S01	0.56	35	N/A	N/A	3
Q2832-03	TG-S02	0.55	35	N/A	N/A	4
Q2832-05	TG-S03	0.56	35	N/A	N/A	5
Q2832-07	TG-S04	0.56	35	N/A	N/A	6
Q2832-09	TG-S05	0.52	35	N/A	N/A	7
Q2838-01	TP-11	0.57	35	N/A	N/A	8
Q2838-05	TP-10	0.56	35	N/A	N/A	9
Q2840-01	0804-SOIL	0.57	35	N/A	N/A	10
Q2840-01MS	0804-SOILMS	0.56	35	N/A	MP86754	12
Q2840-01MSD	0804-SOILMSD	0.52	35	N/A	MP86754	13
Q2840-01DUP	0804-SOILDUP	0.56	35	N/A	N/A	11
Q2840-02	0804-D	0.57	35	N/A	N/A	14

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB169231

Worklist ID : 191246

Department : Digestion

Date : 08-13-2025 09:44:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2832-01	TG-S01	Solid	Mercury	Cool 4 deg C	PORT06	J21	08/11/2025	7471B
Q2832-03	TG-S02	Solid	Mercury	Cool 4 deg C	PORT06	J21	08/11/2025	7471B
Q2832-05	TG-S03	Solid	Mercury	Cool 4 deg C	PORT06	J21	08/11/2025	7471B
Q2832-07	TG-S04	Solid	Mercury	Cool 4 deg C	PORT06	J21	08/11/2025	7471B
Q2832-09	TG-S05	Solid	Mercury	Cool 4 deg C	PORT06	J21	08/12/2025	7471B
Q2838-01	TP-11	Solid	Mercury	Cool 4 deg C	PSEG03	D21	08/12/2025	7471B
Q2838-05	TP-10	Solid	Mercury	Cool 4 deg C	PSEG03	D21	08/12/2025	7471B
Q2840-01	0804-SOIL	Solid	Mercury	Cool 4 deg C	PSEG03	D31	08/12/2025	7471B
Q2840-02	0804-D	Solid	Mercury	Cool 4 deg C	PSEG03	D31	08/12/2025	7471B

Date/Time 08/13/25 10:05

Raw Sample Received by: S14 met d19

Raw Sample Relinquished by: C19CSWJ

Date/Time 08/13/25 11:05

Raw Sample Received by: C19CSWJ

Raw Sample Relinquished by: S15 met d19

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2732-02	WC-A7-01-C	74	1.15	10.37	11.52	11.18	96.7	
Q2819-01	22BP-N	1	1.15	10.16	11.31	9.57	82.9	
Q2819-02	22BP-E	2	1.16	10.67	11.83	10.3	85.7	
Q2819-03	22BP-W	3	1.16	10.83	11.99	10.45	85.8	
Q2819-04	22BP-S	4	1.15	9.96	11.11	9.92	88.1	
Q2819-05	11M-W	5	1.14	10.45	11.59	10.7	91.5	
Q2819-06	11M-S	6	1.16	10.83	11.99	10.96	90.5	
Q2819-07	11M-N	7	1.16	10.81	11.97	9.37	75.9	
Q2819-08	11M-E	8	1.17	10.27	11.44	8.54	71.8	
Q2819-09	84SB-E	9	1.13	10.62	11.75	5.12	37.6	
Q2819-10	84SB-S	10	1.18	10.11	11.29	10.51	92.3	
Q2819-11	84SB-W	11	1.14	10.14	11.28	9.94	86.8	
Q2819-12	17M-S	12	1.19	118.66	119.85	11.15	8.4	
Q2819-13	17M-E	13	1.17	10.38	11.55	9.86	83.7	
Q2819-14	17M-W	14	1.15	10.46	11.61	10.1	85.6	
Q2819-15	17M-N	15	1.15	10.57	11.72	9.96	83.3	
Q2819-16	38M-S	16	1.15	10.77	11.92	11.1	92.4	
Q2819-17	38M-N	17	1.16	10.41	11.57	10.27	87.5	
Q2819-18	38M-W	18	1.14	10.66	11.8	10.34	86.3	
Q2819-19	38M-E	19	1.13	10.13	11.26	10.02	87.8	
Q2819-20	82H-E	20	1.17	10.64	11.81	9.38	77.2	
Q2820-01	82H-S	21	1.16	10.76	11.92	10.04	82.5	
Q2820-02	82H-W	22	1.15	11.21	12.36	10.51	83.5	
Q2820-03	82H-N	23	1.16	11.14	12.3	10.9	87.4	
Q2820-04	SOIL-DUP-1	24	1.16	10.83	11.99	10.56	86.8	
Q2820-05	518R-E	25	1.16	10.40	11.56	6.23	48.8	
Q2820-06	518R-N	26	1.18	10.55	11.73	9.35	77.4	
Q2820-07	518R-S	27	1.17	10.52	11.69	9.44	78.6	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2820-08	518R-W	28	1.13	10.80	11.93	10.74	89.0	
Q2820-09	705R-S	29	1.14	10.59	11.73	7.05	55.8	
Q2820-10	SOIL-DUP-2	30	1.15	10.87	12.02	6.41	48.4	
Q2820-11	10PC-W	31	1.11	10.25	11.36	10.58	92.4	
Q2820-12	10PC-S	32	1.19	10.52	11.71	10.88	92.1	
Q2820-13	10P-W	33	1.14	10.09	11.23	10.34	91.2	
Q2820-14	10P-E	34	1.19	10.37	11.56	9.62	81.3	
Q2820-15	10P-S	35	1.18	10.21	11.39	10.22	88.5	
Q2820-16	10P-N	36	1.11	10.09	11.2	9.81	86.2	
Q2820-17	88H-E	37	1.16	10.42	11.58	9.77	82.6	
Q2820-18	88H-N	38	1.16	10.90	12.06	10.57	86.3	
Q2820-19	88H-W	39	1.18	10.66	11.84	10.62	88.6	
Q2820-20	88H-S	40	1.18	10.12	11.3	9.74	84.6	
Q2820-21	22M-N	41	1.14	11.06	12.2	11.34	92.2	
Q2820-22	22M-W	42	1.17	10.90	12.07	6.94	52.9	
Q2820-23	22M-E	43	1.17	10.27	11.44	4.66	34.0	
Q2820-24	22M-S	44	1.13	10.68	11.81	10.63	89.0	
Q2832-01	TG-S01	45	1.15	10.46	11.61	10.92	93.4	
Q2832-03	TG-S02	46	1.18	10.41	11.59	10.97	94.0	
Q2832-05	TG-S03	47	1.15	10.50	11.65	11.00	93.8	
Q2832-07	TG-S04	48	1.17	10.58	11.75	11.02	93.1	
Q2832-09	TG-S05	49	1.15	10.40	11.55	10.6	90.9	
Q2836-02	WC-A2-15-C	75	1.18	10.38	11.56	9.67	81.8	
Q2836-06	WC-A2-16-C	76	1.19	10.43	11.62	10.66	90.8	
Q2836-10	WC-A2-17-C	77	1.19	10.48	11.67	10.96	93.2	
Q2836-14	WC-A5-02-C	78	1.19	10.17	11.36	8.8	74.8	
Q2838-01	TP-11	50	1.14	10.60	11.74	10.44	87.7	
Q2838-02	TP-11-EPH	51	1.14	10.85	11.99	9.57	77.7	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2838-03	TP-11-VOC	52	1.19	11.24	12.43	9.97	78.1	
Q2838-05	TP-10	53	1.14	11.08	12.22	10.75	86.7	
Q2838-06	TP-10-EPH	54	1.18	10.42	11.6	7.63	61.9	
Q2838-07	TP-10-VOC	55	1.18	10.50	11.68	8.68	71.4	
Q2839-01	BC274436-1-1	56	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-02	BC274436-1-2	57	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-03	BC151973-1-1	58	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-04	BC151973-1-2	59	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-05	BC271336-1-1	60	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-06	BC271336-1-2	61	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-07	BC271242-1-1	62	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-08	BC271242-1-2	63	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-09	BC271242-2-1	64	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-10	BC271242-2-2	65	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-11	BC226751-1-1	66	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-12	BC226751-1-2	67	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-13	BC226751-2-1	68	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-14	BC226751-2-2	69	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-15	JEC773V-1-1	70	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-16	JEC773V-1-2	71	1.00	1.00	2.00	2.00	100.0	PILC
Q2840-01	0804-SOIL	72	1.12	11.32	12.44	10.42	82.2	
Q2840-02	0804-D	73	1.00	1.00	2.00	2.00	100.0	debris

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225

WorkList ID : 191210

Department : Wet-Chemistry

Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2820-06	518R-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-07	518R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-08	518R-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-09	705R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-10	SOIL-DUP-2	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2819-19	38M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-20	82H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-01	82H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-02	82H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-03	82H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-04	SOIL-DUP-1	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-13	17M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-14	17M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-15	17M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-16	38M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-17	38M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-18	38M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-07	11M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-08	11M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-09	84SB-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-10	84SB-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO

Date/Time 08/12/25 15:40
 Raw Sample Received by: SP WCL
 Raw Sample Relinquished by: SP WCL

Date/Time

08/12/25

Raw Sample Received by:

SP WCL

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225

WorkList ID : 191210

Department : Wet-Chemistry

Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-01	22BP-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-02	22BP-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-03	22BP-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-04	22BP-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-05	11M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-06	11M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-23	22M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-24	22M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-17	88H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-18	88H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-19	88H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-20	88H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-21	22M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-22	22M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-11	10PC-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-12	10PC-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-13	10P-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-14	10P-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-15	10P-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-16	10P-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-05	518R-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: 80 WSC

Raw Sample Relinquished by: [Signature]

Date/Time 08/12/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: 80 WSC

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225 WorkList ID : 191210 Department : Wet-Chemistry Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2839-04	BC151973-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-05	BC271336-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-06	BC271336-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-07	BC271242-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-08	BC271242-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-09	BC271242-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-10	BC271242-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-11	BC226751-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-12	BC226751-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-13	BC226751-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-14	BC226751-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-15	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-16	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2840-01	0804-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO
Q2840-02	0804-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 08/12/25 17:35

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

W 131783

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-081225 WorkList ID : 191210 Department : Wet-Chemistry Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-11	84SB-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-12	17M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2832-01	TG-S01	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2732-02	WC-A7-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J21	08/12/2025	Chemtech -SO
Q2832-03	TG-S02	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-05	TG-S03	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-07	TG-S04	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-09	TG-S05	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/12/2025	Chemtech -SO
Q2836-02	WC-A2-15-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-06	WC-A2-16-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-10	WC-A2-17-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-14	WC-A5-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2838-01	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-02	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-03	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-05	TP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-06	TP-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-07	TP-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2839-01	BC274436-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-02	BC274436-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-03	BC151973-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00 Date/Time 08/12/25 17:35
 Raw Sample Received by: SP WOC Raw Sample Received by: CP SM
 Raw Sample Relinquished by: CP SM Raw Sample Relinquished by: SP WOC

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136799

Review By	sagar	Review On	8/13/2025 4:22:09 PM
Supervise By	jaswal	Supervise On	8/13/2025 9:52:52 PM

STD. NAME	STD REF.#
ICAL Standard	MP86755,MP86756,MP86757,MP86758,MP86759,MP86760
ICV Standard	MP86761
CCV Standard	MP86763
ICSA Standard	
CRI Standard	MP86765
LCS Standard	
Chk Standard	MP86762,MP86764,MP86766,MP86769

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/13/25 14:11		sagar	OK
2	S0.2	S0.2	CAL2	08/13/25 14:13		sagar	OK
3	S2.5	S2.5	CAL3	08/13/25 14:15		sagar	OK
4	S5	S5	CAL4	08/13/25 14:17		sagar	OK
5	S7.5	S7.5	CAL5	08/13/25 14:20		sagar	OK
6	S10	S10	CAL6	08/13/25 14:22		sagar	OK
7	ICV13	ICV13	ICV	08/13/25 14:39		sagar	OK
8	ICB13	ICB13	ICB	08/13/25 14:41		sagar	OK
9	CCV38	CCV38	CCV	08/13/25 14:44		sagar	OK
10	CCB38	CCB38	CCB	08/13/25 14:46		sagar	OK
11	CRA	CRA	CRDL	08/13/25 14:48		sagar	OK
12	HighStd	HighStd	HIGH STD	08/13/25 14:50		sagar	OK
13	ChkStd	ChkStd	SAM	08/13/25 14:53		sagar	OK
14	PB169231BL	PB169231BL	MB	08/13/25 14:55		sagar	OK
15	PB169231BS	PB169231BS	LCS	08/13/25 14:57		sagar	OK
16	Q2832-01	TG-S01	SAM	08/13/25 15:00	High	sagar	Dilution
17	Q2832-03	TG-S02	SAM	08/13/25 15:02		sagar	OK
18	Q2832-05	TG-S03	SAM	08/13/25 15:05		sagar	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136799

Review By	sagar	Review On	8/13/2025 4:22:09 PM
Supervise By	jaswal	Supervise On	8/13/2025 9:52:52 PM
STD. NAME	STD REF.#		
ICAL Standard	MP86755,MP86756,MP86757,MP86758,MP86759,MP86760		
ICV Standard	MP86761		
CCV Standard	MP86763		
ICSA Standard			
CRI Standard	MP86765		
LCS Standard			
Chk Standard	MP86762,MP86764,MP86766,MP86769		

19	Q2832-07	TG-S04	SAM	08/13/25 15:08		sagar	OK
20	Q2832-09	TG-S05	SAM	08/13/25 15:11		sagar	OK
21	CCV39	CCV39	CCV	08/13/25 15:13		sagar	OK
22	CCB39	CCB39	CCB	08/13/25 15:15		sagar	OK
23	Q2838-01	TP-11	SAM	08/13/25 15:18		sagar	OK
24	Q2838-05	TP-10	SAM	08/13/25 15:20		sagar	OK
25	Q2840-01	0804-SOIL	SAM	08/13/25 15:22		sagar	OK
26	Q2840-01DUP	0804-SOILDUP	DUP	08/13/25 15:25		sagar	OK
27	Q2840-01MS	0804-SOILMS	MS	08/13/25 15:27		sagar	OK
28	Q2840-01MSD	0804-SOILMSD	MSD	08/13/25 15:32		sagar	OK
29	Q2840-02	0804-D	SAM	08/13/25 15:37		sagar	OK
30	Q2840-01L	0804-SOILL	SD	08/13/25 15:40		sagar	OK
31	Q2840-01A	0804-SOILA	PS	08/13/25 15:42		sagar	OK
32	Q2832-01DL	TG-S01DL	SAM	08/13/25 15:44	Report 5X	sagar	Confirms
33	CCV40	CCV40	CCV	08/13/25 15:47		sagar	OK
34	CCB40	CCB40	CCB	08/13/25 15:49		sagar	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136801

Review By	Janvi	Review On	8/15/2025 10:10:36 AM
Supervise By	jaswal	Supervise On	8/19/2025 2:31:42 AM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/13/25 11:56		Jaswal	OK
2	S1	S1	CAL2	08/13/25 12:00		Jaswal	OK
3	S2	S2	CAL3	08/13/25 12:04		Jaswal	OK
4	S3	S3	CAL4	08/13/25 12:08		Jaswal	OK
5	S4	S4	CAL5	08/13/25 12:12		Jaswal	OK
6	S5	S5	CAL6	08/13/25 12:17		Jaswal	OK
7	ICV01	ICV01	ICV	08/13/25 12:21		Jaswal	OK
8	LLICV01	LLICV01	LLICV	08/13/25 12:28		Jaswal	OK
9	ICB01	ICB01	ICB	08/13/25 12:33		Jaswal	OK
10	CRI01	CRI01	CRDL	08/13/25 12:37		Jaswal	OK
11	ICSA01	ICSA01	ICSA	08/13/25 12:41		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	08/13/25 12:45		Jaswal	OK
13	ICSADL	ICSADL	ICSA	08/13/25 12:49		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	08/13/25 12:54		Jaswal	OK
15	CCV01	CCV01	CCV	08/13/25 12:58		Jaswal	OK
16	CCB01	CCB01	CCB	08/13/25 13:03		Jaswal	OK
17	Q2828-01	POWDER	SAM	08/13/25 13:07		Jaswal	OK
18	Q2828-01DUP	POWDERDUP	DUP	08/13/25 13:12		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136801

Review By	Janvi	Review On	8/15/2025 10:10:36 AM
Supervise By	jaswal	Supervise On	8/19/2025 2:31:42 AM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

19	Q2828-01L	POWDERL	SD	08/13/25 13:16		Jaswal	OK
20	Q2828-01MS	POWDERMS	MS	08/13/25 13:20		Jaswal	OK
21	Q2828-01MSD	POWDERMSD	MSD	08/13/25 13:25		Jaswal	OK
22	Q2828-01A	POWDERA	PS	08/13/25 13:30	0.1 ml of each M6004 and M6017 in 10ml sample	Jaswal	OK
23	CCV02	CCV02	CCV	08/13/25 13:42		Jaswal	OK
24	CCB02	CCB02	CCB	08/13/25 13:46		Jaswal	OK
25	Q2830-01	BIN0009-DRIVEWAY	SAM	08/13/25 13:50		Jaswal	OK
26	Q2830-03	BIN0009-DRIVEWAY	SAM	08/13/25 13:55		Jaswal	OK
27	Q2830-05	BIN0009-DRIVEWAY	SAM	08/13/25 13:59		Jaswal	OK
28	Q2830-07	BIN0009-DRIVEWAY	SAM	08/13/25 14:03		Jaswal	OK
29	Q2831-01	VNJ-238	SAM	08/13/25 14:07		Jaswal	OK
30	Q2818-01	B-2-5-1	SAM	08/13/25 14:11		Jaswal	OK
31	Q2818-02	B-3-5-2	SAM	08/13/25 14:16		Jaswal	OK
32	Q2823-01	SU-04-081125	SAM	08/13/25 14:20		Jaswal	OK
33	Q2831-03	VNJ-238	SAM	08/13/25 14:24		Jaswal	OK
34	Q2831-03DUP	VNJ-238DUP	DUP	08/13/25 14:28		Jaswal	OK
35	CCV03	CCV03	CCV	08/13/25 14:33		Jaswal	OK
36	CCB03	CCB03	CCB	08/13/25 14:37		Jaswal	OK
37	Q2831-03L	VNJ-238L	SD	08/13/25 14:41		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136801

Review By	Janvi	Review On	8/15/2025 10:10:36 AM
Supervise By	jaswal	Supervise On	8/19/2025 2:31:42 AM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

38	Q2831-03MS	VNJ-238MS	MS	08/13/25 14:46		Jaswal	OK
39	Q2831-03MSD	VNJ-238MSD	MSD	08/13/25 14:50		Jaswal	OK
40	Q2831-03A	VNJ-238A	PS	08/13/25 14:54	0.1 ml of each M6004 and M6017 in 10ml sample	Jaswal	OK
41	PB169214BL	PB169214BL	MB	08/13/25 14:58		Jaswal	OK
42	PB169214BS	PB169214BS	LCS	08/13/25 15:02		Jaswal	OK
43	PB169211BL	PB169211BL	MB	08/13/25 15:06		Jaswal	OK
44	PB169215BL	PB169215BL	MB	08/13/25 15:15		Jaswal	OK
45	PB169211BS	PB169211BS	LCS	08/13/25 15:19		Jaswal	OK
46	CCV04	CCV04	CCV	08/13/25 15:23		Jaswal	OK
47	CCB04	CCB04	CCB	08/13/25 15:27		Jaswal	OK
48	PB169200TB	PB169200TB	MB	08/13/25 15:31		Jaswal	OK
49	Q2808-04	TP-7	SAM	08/13/25 15:36		Jaswal	OK
50	Q2826-02	WC1	SAM	08/13/25 15:40		Jaswal	OK
51	Q2827-04	TP-8	SAM	08/13/25 15:45		Jaswal	OK
52	Q2827-08	TP-9	SAM	08/13/25 15:49		Jaswal	OK
53	Q2808-01	TP-7	SAM	08/13/25 15:53		Jaswal	OK
54	Q2817-01	LEAD-PAINT-CHIPS	SAM	08/13/25 15:58		Jaswal	OK
55	Q2819-06	11M-S	SAM	08/13/25 16:02		Jaswal	OK
56	Q2819-11	84SB-W	SAM	08/13/25 16:06		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136801

Review By	Janvi	Review On	8/15/2025 10:10:36 AM
Supervise By	jaswal	Supervise On	8/19/2025 2:31:42 AM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

57	Q2819-14	17M-W	SAM	08/13/25 16:10		Jaswal	OK
58	CCV05	CCV05	CCV	08/13/25 16:14		Jaswal	OK
59	CCB05	CCB05	CCB	08/13/25 16:19		Jaswal	OK
60	Q2820-09	705R-S	SAM	08/13/25 16:23		Jaswal	OK
61	Q2820-10	SOIL-DUP-2	SAM	08/13/25 16:27		Jaswal	OK
62	Q2820-24	22M-S	SAM	08/13/25 16:31		Jaswal	OK
63	Q2826-01	WC1	SAM	08/13/25 16:35		Jaswal	OK
64	Q2827-01	TP-8	SAM	08/13/25 16:39		Jaswal	OK
65	Q2827-05	TP-9	SAM	08/13/25 16:44		Jaswal	OK
66	Q2829-01	SILICA	SAM	08/13/25 16:48		Jaswal	OK
67	Q2832-09	TG-S05	SAM	08/13/25 16:52		Jaswal	OK
68	Q2832-09DUP	TG-S05DUP	DUP	08/13/25 16:56	Si High	Jaswal	Dilution
69	Q2832-09L	TG-S05L	SD	08/13/25 17:00		Jaswal	OK
70	CCV06	CCV06	CCV	08/13/25 17:05		Jaswal	OK
71	CCB06	CCB06	CCB	08/13/25 17:09		Jaswal	OK
72	Q2832-09MS	TG-S05MS	MS	08/13/25 17:13	Si High	Jaswal	Dilution
73	Q2832-09MSD	TG-S05MSD	MSD	08/13/25 17:17	Si High	Jaswal	Dilution
74	Q2832-09A	TG-S05A	PS	08/13/25 17:21	0.1 ml of each M6004 and M6017 in 10ml sample	Jaswal	OK
75	Q2832-03	TG-S02	SAM	08/13/25 17:25		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136801

Review By	Janvi	Review On	8/15/2025 10:10:36 AM
Supervise By	jaswal	Supervise On	8/19/2025 2:31:42 AM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

76	Q2832-05	TG-S03	SAM	08/13/25 17:29		Jaswal	OK
77	Q2832-07	TG-S04	SAM	08/13/25 17:33		Jaswal	OK
78	PB169215BS	PB169215BS	LCS	08/13/25 17:42		Jaswal	OK
79	CCV07	CCV07	CCV	08/13/25 17:46		Jaswal	OK
80	CCB07	CCB07	CCB	08/13/25 17:50		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/14/25 11:39		Jaswal	OK
2	S1	S1	CAL2	08/14/25 11:44		Jaswal	OK
3	S2	S2	CAL3	08/14/25 11:48		Jaswal	OK
4	S3	S3	CAL4	08/14/25 11:52		Jaswal	OK
5	S4	S4	CAL5	08/14/25 11:56		Jaswal	OK
6	S5	S5	CAL6	08/14/25 12:00		Jaswal	OK
7	ICV01	ICV01	ICV	08/14/25 12:05		Jaswal	OK
8	LLICV01	LLICV01	LLICV	08/14/25 12:09		Jaswal	OK
9	ICB01	ICB01	ICB	08/14/25 12:13		Jaswal	OK
10	CRI01	CRI01	CRDL	08/14/25 12:23		Jaswal	OK
11	ICSA01	ICSA01	ICSA	08/14/25 12:27		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	08/14/25 12:38		Jaswal	OK
13	ICSADL	ICSADL	ICSA	08/14/25 12:42		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	08/14/25 12:46		Jaswal	OK
15	CCV01	CCV01	CCV	08/14/25 12:50		Jaswal	OK
16	CCB01	CCB01	CCB	08/14/25 12:54		Jaswal	OK
17	Q2832-01	TG-S01	SAM	08/14/25 12:59		Jaswal	OK
18	PB169236BL	PB169236BL	MB	08/14/25 13:03		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641
ICV Standard	MP86752,MP86656
CCV Standard	MP86646
ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

19	PB169236BS	PB169236BS	LCS	08/14/25 13:07		Jaswal	OK
20	PB169232BL	PB169232BL	MB	08/14/25 13:11		Jaswal	OK
21	PB169232BS	PB169232BS	LCS	08/14/25 13:15		Jaswal	OK
22	PB169212TB	PB169212TB	MB	08/14/25 13:19		Jaswal	OK
23	Q2732-03	WC-A7-01-C	SAM	08/14/25 13:24		Jaswal	OK
24	Q2832-02	TG-S01	SAM	08/14/25 13:28		Jaswal	OK
25	Q2832-04	TG-S02	SAM	08/14/25 13:33		Jaswal	OK
26	Q2832-06	TG-S03	SAM	08/14/25 13:37		Jaswal	OK
27	CCV02	CCV02	CCV	08/14/25 13:42		Jaswal	OK
28	CCB02	CCB02	CCB	08/14/25 13:46		Jaswal	OK
29	Q2832-08	TG-S04	SAM	08/14/25 13:50		Jaswal	OK
30	Q2832-10	TG-S05	SAM	08/14/25 13:54		Jaswal	OK
31	Q2836-03	WC-A2-15-C	SAM	08/14/25 13:59		Jaswal	OK
32	Q2836-07	WC-A2-16-C	SAM	08/14/25 14:03		Jaswal	OK
33	Q2836-11	WC-A2-17-C	SAM	08/14/25 14:08		Jaswal	OK
34	Q2836-15	WC-A5-02-C	SAM	08/14/25 14:12		Jaswal	OK
35	Q2838-04	TP-11	SAM	08/14/25 14:17		Jaswal	OK
36	Q2838-08	TP-10	SAM	08/14/25 14:21		Jaswal	OK
37	Q2838-08DUP	TP-10DUP	DUP	08/14/25 14:25		Jaswal	OK
38	Q2838-08L	TP-10L	SD	08/14/25 14:30		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM
STD. NAME	STD REF.#		
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641		
ICV Standard	MP86752,MP86656		
CCV Standard	MP86646		
ICSA Standard	MP86651,MP86753		
CRI Standard	MP86656		
LCS Standard			
Chk Standard	MP86647,MP86648		

39	CCV03	CCV03	CCV	08/14/25 14:41		Jaswal	OK
40	CCB03	CCB03	CCB	08/14/25 14:45		Jaswal	OK
41	Q2838-08MS	TP-10MS	MS	08/14/25 14:50		Jaswal	OK
42	Q2838-08MSD	TP-10MSD	MSD	08/14/25 14:54		Jaswal	OK
43	Q2838-08A	TP-10A	PS	08/14/25 14:58	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
44	Q2814-01	TW-84SB-E	SAM	08/14/25 15:02		Jaswal	OK
45	Q2814-03	TW-17M-W	SAM	08/14/25 15:06		Jaswal	OK
46	Q2814-16	FB	SAM	08/14/25 15:10		Jaswal	OK
47	Q2814-17DL	TW-518R-SDL	SAM	08/14/25 15:15	Straight 5x for all elemenst	Jaswal	OK
48	Q2814-22	TW-84SB-E	SAM	08/14/25 15:19	Not used	Jaswal	Not Ok
49	Q2814-23	TW-17M-W	SAM	08/14/25 15:23	Not used	Jaswal	Not Ok
50	Q2815-01	TW-705R-S	SAM	08/14/25 15:27		Jaswal	OK
51	CCV04	CCV04	CCV	08/14/25 15:58		Jaswal	OK
52	CCB04	CCB04	CCB	08/14/25 16:02		Jaswal	OK
53	Q2815-11	TW-22M-W	SAM	08/14/25 16:06		Jaswal	OK
54	Q2815-20	TW-11M-W	SAM	08/14/25 16:10		Jaswal	OK
55	Q2815-25	TW-11M-W	SAM	08/14/25 16:14	Not used	Jaswal	Not Ok
56	Q2815-26	FB	SAM	08/14/25 16:18		Jaswal	OK
57	Q2821-05	GW-COMP	SAM	08/14/25 16:23		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641
ICV Standard	MP86752,MP86656
CCV Standard	MP86646
ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

58	Q2821-08	DM-COMP	SAM	08/14/25 16:27		Jaswal	OK
59	Q2837-01	TW-WTS-13	SAM	08/14/25 16:31		Jaswal	OK
60	Q2837-01DUP	TW-WTS-13DUP	DUP	08/14/25 16:36		Jaswal	OK
61	Q2837-01L	TW-WTS-13L	SD	08/14/25 16:41		Jaswal	OK
62	Q2837-01MS	TW-WTS-13MS	MS	08/14/25 16:45		Jaswal	OK
63	CCV05	CCV05	CCV	08/14/25 16:50		Jaswal	OK
64	CCB05	CCB05	CCB	08/14/25 17:00		Jaswal	OK
65	Q2837-01MSD	TW-WTS-13MSD	MSD	08/14/25 17:04		Jaswal	OK
66	Q2837-01A	TW-WTS-13A	PS	08/14/25 17:09	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
67	Q2858-01	VNJ 216	SAM	08/14/25 17:13		Jaswal	OK
68	Q2858-01DUP	VNJ 216DUP	DUP	08/14/25 17:17		Jaswal	OK
69	Q2858-01L	VNJ 216L	SD	08/14/25 17:21		Jaswal	OK
70	Q2858-01MS	VNJ 216MS	MS	08/14/25 17:25		Jaswal	OK
71	Q2858-01MSD	VNJ 216MSD	MSD	08/14/25 17:29		Jaswal	OK
72	Q2858-01A	VNJ 216A	PS	08/14/25 17:33	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
73	CCV06	CCV06	CCV	08/14/25 17:54		Jaswal	OK
74	CCB06	CCB06	CCB	08/14/25 18:05		Jaswal	OK

Prep Standard - Chemical Standard Summary

Order ID : Q2832

Test : Mercury, Metals ICP-TAL

Prepbatch ID : PB169215, PB169231,

Sequence ID/Qc Batch ID: LB136799, LB136801, LB136801, LB136837,

Standard ID :

MP85893, MP85895, MP86404, MP86640, MP86641, MP86642, MP86643, MP86646, MP86647, MP86648, MP86651, MP86653, MP86655, MP86656, MP86752, MP86753, MP86754, MP86755, MP86756, MP86757, MP86758, MP86759, MP86760, MP86761, MP86762, MP86763, MP86764, MP86765, MP86766, MP86767, MP86769,

Chemical ID :

M4371, M4916, M5062, M5467, M5581, M5582, M5658, M5697, M5748, M5798, M5799, M5800, M5801, M5805, M5814, M5816, M5820, M5884, M5962, M5969, M5970, M5979, M5985, M5998, M6021, M6023, M6027, M6028, M6030, M6032, M6058, M6076, M6077, M6086, M6128, M6137, M6140, M6142, M6144, M6145, M6146, M6151, M6158, M6159, M6162, M6163, M6164, M6165, M6170, M6171, M6174, M6176, M6177, M6178, M6179, M6180, M6181, M6182, M6184, W 3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP85893	06/05/2025	12/05/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal
06/14/2025								

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP85895	06/05/2025	08/31/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal
06/14/2025								

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
169	1:1HNO3	MP86404	07/17/2025	11/16/2025	Sagar Kanani	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal 07/17/2025
FROM 1250.00000ml of M6162 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml A)								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
902	ICP AES CAL BLK (SO/ICB/CCB)	MP86640	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
A) FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 500.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
907	ICP AES STD S (S5)	MP86641	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
A) FROM 5.00000ml of M5467 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5970 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6146 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP86640 = Final Quantity: 500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
910	ICP AES STD S4	MP86642	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
FROM 50.00000ml of MP86640 + 50.00000ml of MP86641 = Final Quantity: 100.000 ml A)								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
909	ICP AES STD S3	MP86643	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

A)

FROM 25.00000ml of MP86641 + 75.00000ml of MP86640 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
911	ICP AES CCV SOLN	MP86646	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

A)

FROM 50.00000ml of MP86640 + 50.00000ml of MP86641 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
919	ICP AES INTERNAL STD	MP86647	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
A) FROM 1.00000ml of M6179 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
903	ICP AES RINSE SOLN	MP86648	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
A) FROM 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
904	ICP AES ICSA SOLN	MP86651	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
FROM 5.00000ml of M6182 + 45.00000ml of MP86640 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3913	ICP AES STD S2	MP86653	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
FROM 4.00000ml of MP86641 + 46.00000ml of MP86640 = Final Quantity: 50.000 ml								

Metals STANDARD PREPARATION LOG

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2951	ICP AES S1/CRI WORK STD	MP86656	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal
FROM 1.00000ml of MP86655 + 49.00000ml of MP86640 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4163	NEW ICV-060925	MP86752	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP)	Sarabjit Jaswal
A) FROM 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.60000ml of MP86640 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3494	ICP AES ICSAB SOLN-1	MP86753	08/06/2025	08/27/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	0.05000ml of M6076 + 5.00000ml of M6182 + 5.00000ml of M6184 + 39.95000ml of MP86640 = Final Quantity: 100.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP86754	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 08/14/2025
A)								
<u>FROM</u>	1.00000ml of M6162 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1340	Hg 0.00 PPB STD	MP86755	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1341	Hg 0.2 PPB STD	MP86756	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 08/14/2025
FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86754 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1342	Hg 2.5 PPB STD	MP86757	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 08/14/2025
FROM 2.50000ml of M6162 + 245.00000ml of W3112 + 2.50000ml of MP86754 = Final Quantity: 250.000 ml A)								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1343	Hg 5.0 PPB STD	MP86758	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	2.50000ml of M6162 + 242.50000ml of W3112 + 5.00000ml of MP86754 = Final Quantity: 250.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1344	Hg 7.5 PPB STD	MP86759	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	2.50000ml of M6162 + 240.00000ml of W3112 + 7.50000ml of MP86754 = Final Quantity: 250.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1345	Hg 10.0 PPB STD	MP86760	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
A) FROM 2.50000ml of M6162 + 237.50000ml of W3112 + 10.00000ml of MP86754 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1346	Hg ICV SOLUTION	MP86761	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	2.50000ml of M6162 + 245.00000ml of W3112 = Final Quantity: 250.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1351	ICB (Hg 0.00 PPB SOLUTION)	MP86762	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1358	CCV (Hg 5.0 PPB SOLUTION)	MP86763	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	485.00000ml of W3112 + 5.00000ml of M6162 + 10.00000ml of MP86754 = Final Quantity: 500.000 ml							



Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1352	CCB (Hg 0.00 PPB SOLUTION)	MP86764	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 495.00000ml of W3112 + 5.00000ml of M6162 = Final Quantity: 500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP86765	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86754 = Final Quantity: 250.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP86766	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6162 + 240.50000ml of W3112 + 7.00000ml of MP86754 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
887	AQUA REGIA FOR HG ON 7471A	MP86767	08/13/2025	08/14/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 08/14/2025
<u>FROM</u>	150.00000ml of M6151 + 50.00000ml of M6162 = Final Quantity: 200.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
104	5% RINSING HCL	MP86769	08/13/2025	08/17/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 100.00000ml of M6151 + 1900.00000ml of W3112 = Final Quantity: 2000.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	03/20/2026	03/20/2025 /	06/12/2023 / jaswal	M5581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	12/31/2025	06/17/2023 / Al-Terek	06/12/2023 / jaswal	M5582

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	122223	12/22/2026	04/17/2025 / Janvi	01/03/2024 / jaswal	M5805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	03/31/2026	03/31/2025 / kareem	06/11/2024 / Jaswal	M5969

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	08/05/2026	08/06/2025 / Janvi	02/22/2024 / Jaswal	M5979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	07/30/2026	07/30/2025 / Janvi	02/22/2024 / kareem	M5998

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / TI, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	062024	06/20/2027	06/04/2025 / Janvi	08/05/2024 / Jaswal	M6027

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	01/01/2026	01/01/2025 / kareem	09/19/2024 / kareem	M6076

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Calcium, 500 ml, 10000 PPM	082324	08/23/2027	03/06/2025 / JANVI	10/14/2024 / jaswal	M6086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	011025	01/10/2028	06/25/2025 / Janvi	01/13/2025 / Jaswal	M6140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	09/09/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	06/08/2026	06/09/2025 / jaswal	06/06/2025 / jaswal	M6163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2	U2-MEB733713	06/08/2026	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	06/08/2026	06/09/2025 / jaswal	06/09/2025 / jaswal	M6165

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2186-03 / Hydrogen Peroxide (cs/4x4L)	24D1961001	10/16/2025	06/25/2025 /	05/20/2025 / Sagar	M6170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	011525	01/15/2028	07/15/2025 /	02/13/2025 / Janvi	M6171

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	V2-MEB742428	07/31/2026	07/31/2025 / Janvi	05/05/2025 / Janvi	M6174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	092724	09/27/2027	08/06/2025 / Janvi	08/06/2025 / Janvi	M6176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	031525	03/15/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	080528	08/05/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6178

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	08/05/2026	08/06/2025 / Janvi	06/02/2024 / Janvi	M6179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	W2-MEB752149	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	V2-MEB7433480	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	02/05/2026	08/06/2025 / Janvi	03/06/2024 / Janvi	M6182

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	02/05/2026	08/06/2025 / Janvi	03/06/2024 / Janvi	M6184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

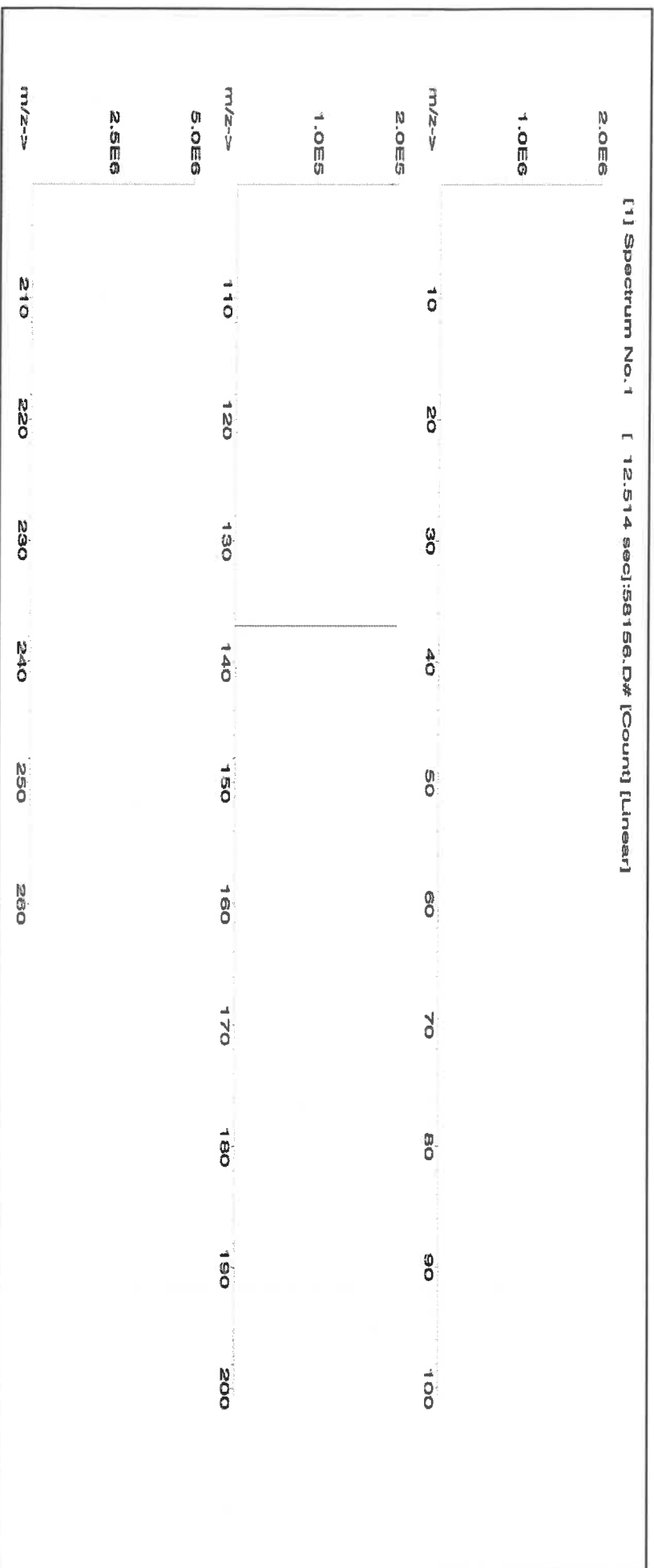
**CERTIFIED WEIGHT REPORT:**

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

SDS information

Compound	(Solvent Safety Info. On Attached pg.)					
	Lot Number	Nominal Conc. ($\mu\text{g/mL}$)	Purity (%)	Uncertainty Assay Purity (%)	Target Weight (g)	Actual Weight (g) +/- ($\mu\text{g/mL}$)
	RM#			CAS#	OSHA PEL (TMA)	LD50 SRM

1. Barium nitrate (Ba)	IN023	BAD02019A1	1000	99.999	0.10	52.3	3.82417	3.82441	1000.1	2.0	10022-31-8	0.5 mg/m3	ort-rat 355 mg/kg	3104a
------------------------	-------	------------	------	--------	------	------	---------	---------	--------	-----	------------	-----------	-------------------	-------





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Lot # **58120** **122223** **Calcium (Ca)**
Part Number:
Description:
Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.0

Solvent: 24002546 Nitric Acid

2% 80.0 (mL) Nitric Acid

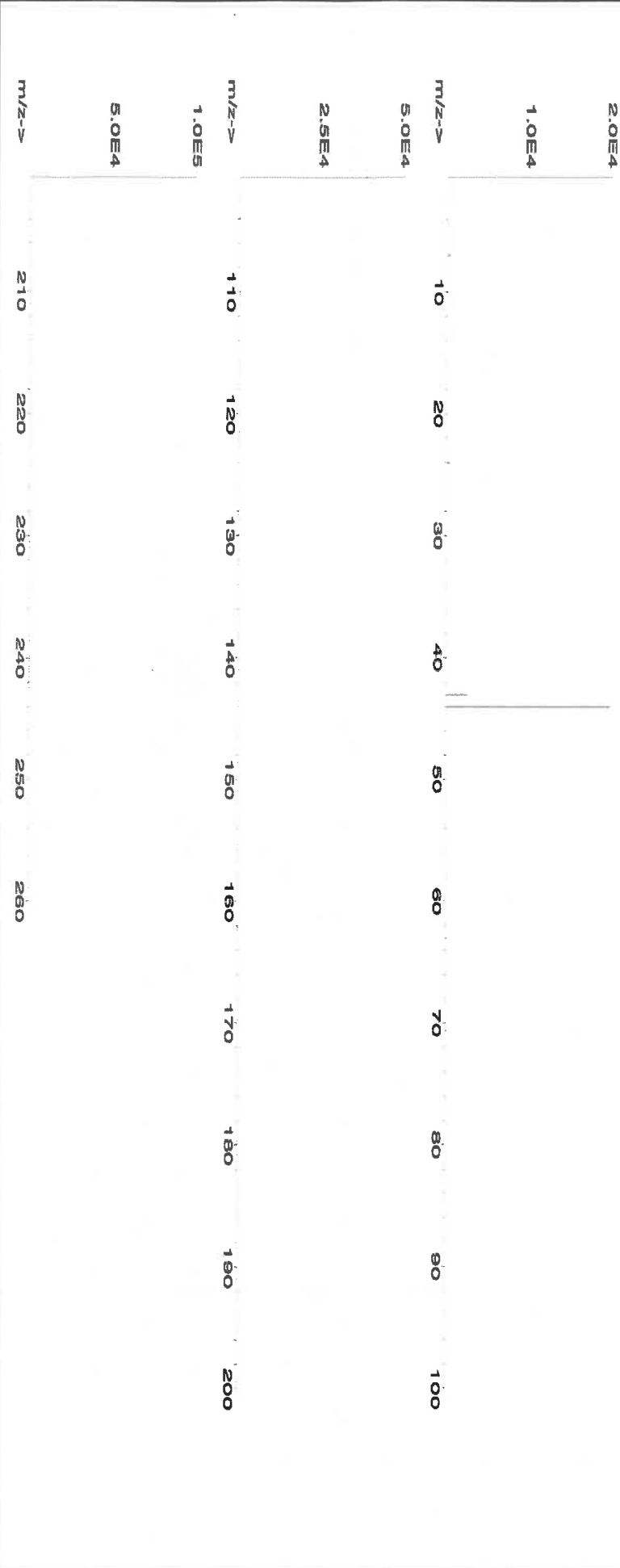
<i>Giovanni Caporaso</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Renterias
	122223

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Calcium carbonate (Ca) IN014 CAD0302383 10000 99.999 0.10 39.9 100.2525 100.2670 10001.4 20.0 471.34-1 5 mg/m3 off-ral >2000mg/kg 3109a

[1] Spectrum No.1 [12.514 sec]:58120.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **58120**
Lot Number: **082324**
Description: **Calcium (Ca)**

Solvent: **24002546 Nitric Acid**

Rev'd 20/11/2024 M6085 / M6086 / M6087

Expiration Date: **082327**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **10000**

NIST Test Number: **6UTB**

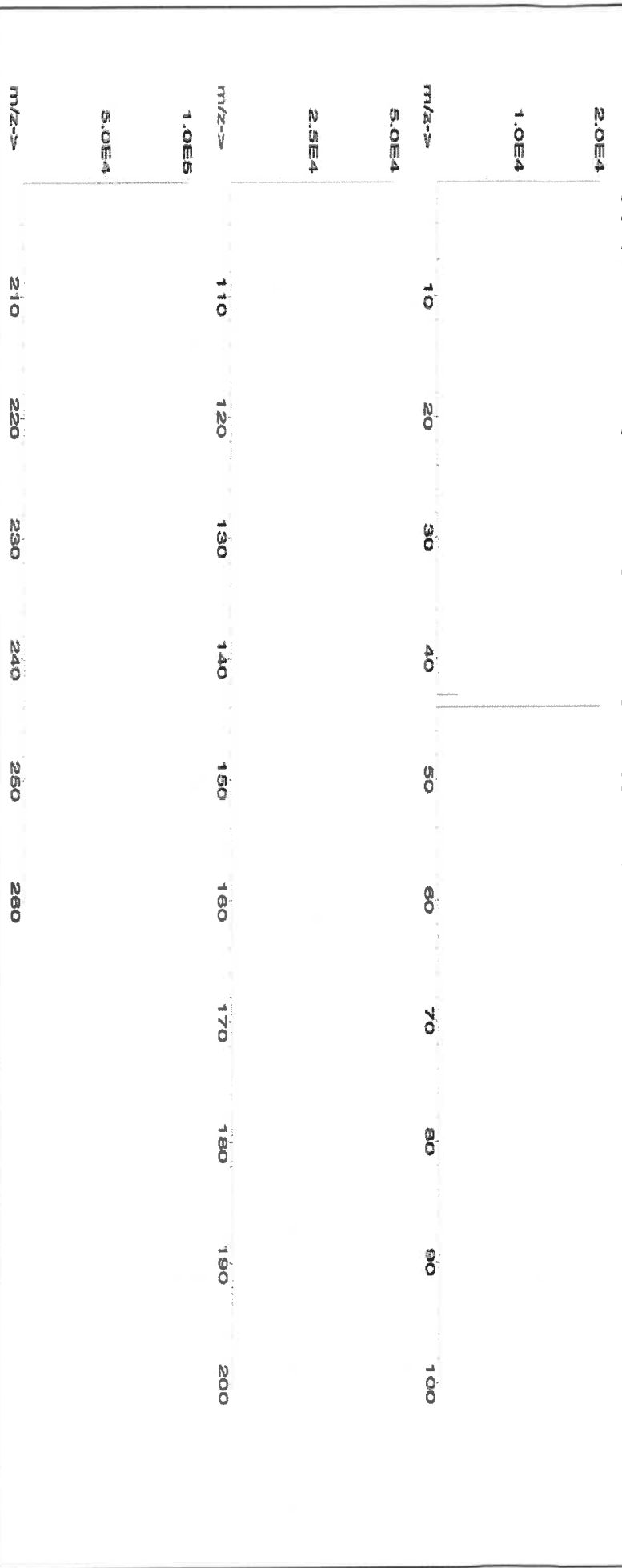
Weight shown below was diluted to (mL): **4000.1** **0.15** **Flask Uncertainty**

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Rentas

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Calcium carbonate (Ca)	IN014	CAD03202383	10000	99.999	0.10	39.9	100.2537	100.2656	10001.2

20.0 471-34-1 5 mg/m3 or-rat >2000mg/kg 3109a

[1] Spectrum No. 1 [12.514 sec]: 58120.D* [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tm	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Sn	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Su	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57048
070124
Cadmium (Cd)

Solvent: 24002546 Nitric Acid

Lot #

R: 815/24

2% 40.0 Nitric Acid (mL)

Expiration Date: 070127

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

SE-05 Balance Uncertainty

Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

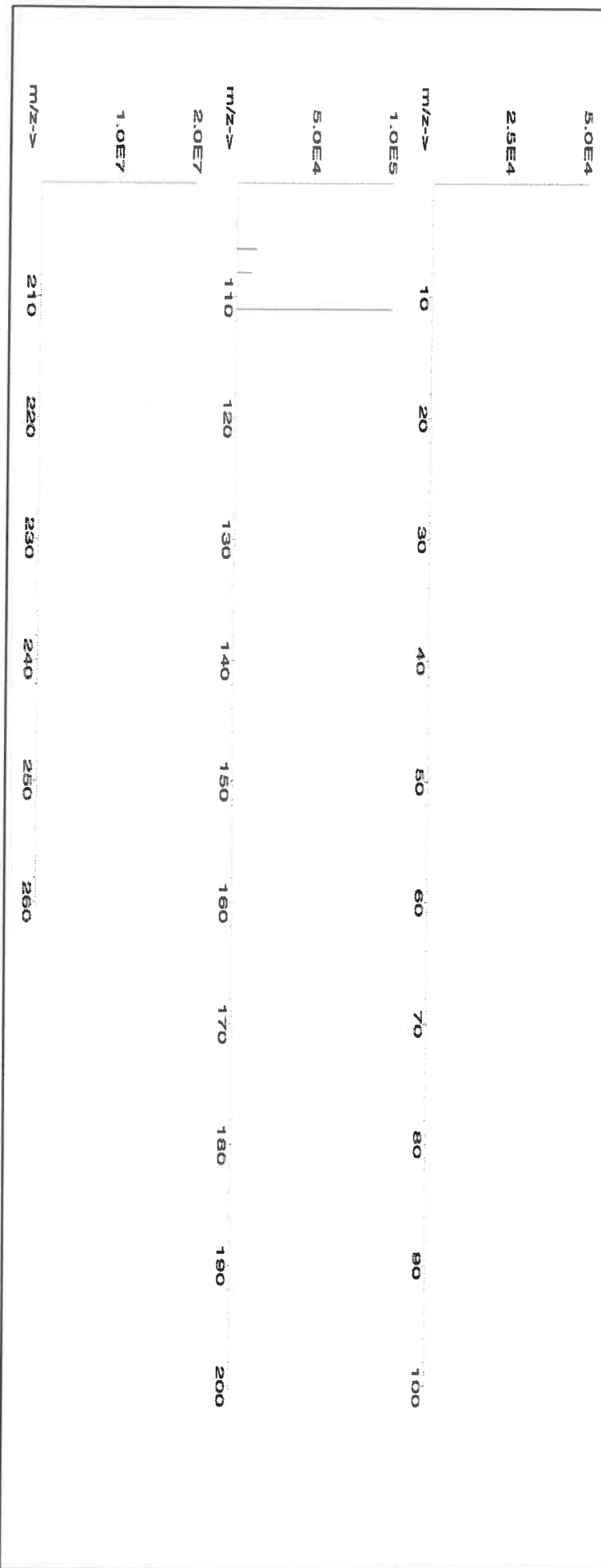
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	070124
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	070124

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Cadmium nitrate tetrahydrate (Cd)	IN024 CDM09221A1	1000	99.999	0.10	36.5	5.4797	5.4804	1000.1	2.0	10022-68-1	0.01 mg/m3	or-rat 60.2mg/kg	3108
--------------------------------------	------------------	------	--------	------	------	--------	--------	--------	-----	------------	------------	------------------	------

[1] Spectrum No. 1 [12.514 sec]:\$8148.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.2	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Cd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pr	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec - 06.07.19



avantortm

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NH ₂ OH · HCl) (by KMnO ₄ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrate Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH ₄)	Passes Test	PT
Sulfur Compounds (as SO ₄)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4913-16

MS

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

MS062
MS063
MB

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Mass Spec Solution
Catalog Number: MSHG-10PPM
Lot Number: S2-HG709270
Matrix: 10% (v/v) HCl
Value / Analyte(s): 10 µg/mL ea:
Mercury
Starting Material: Hg metal
Starting Material Lot#: 1959
Starting Material Purity: 99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL
Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char i}^2) / (\sum (1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	0.000011	M	Eu	<	0.000201	O	Na	0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al	0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si	0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201		
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007		
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201		
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201		
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201		
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216		
O	Ca	0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201			
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402		
M	Ce	<	0.000201	O	K	0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508			
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201		
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058		
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201		
M	Cu	<	0.000402	O	Mg	0.000001	O	S	<	0.053950	M	W	<	0.000604			
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201		
M	Er	<	0.000201	M	Mo	0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO₃. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO₃ / LDPE container, stable in 10% HNO₃ packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO₃ packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO₃ / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxide (Soluble in HNO₃); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va, 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 22, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57058
020623
Cerium (Ce)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

020626
Ambient (20 °C)
1000
6UTB

Weight shown below was diluted to (mL):

1000.12 **0.058** **Balance Uncertainty**
Flask Uncertainty

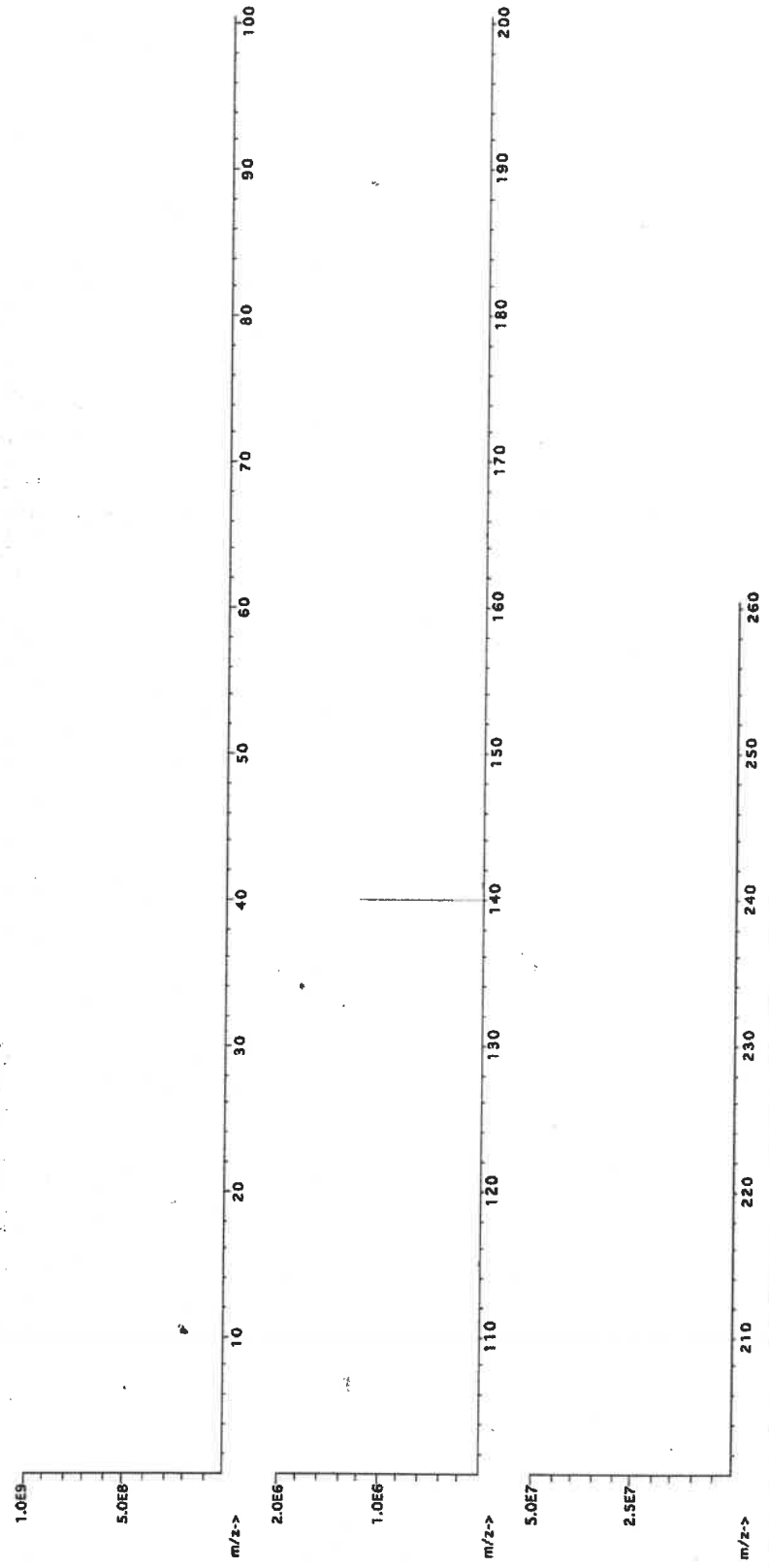
Solvent: **21110221** **Nitric Acid**

2% **20.0** **Nitric Acid**
(mL)

Lawrence Barry
Formulated By: **Lawrence Barry** **020623**
Pedro L. Rentas
Reviewed By: **Pedro L. Rentas** **020623**

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information		
										(Solvent Safety Info. On Attached pg.)	CAS#	LD50
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	1000.0	2.0	10294-41-4	NA
											NA	NA

[1] Spectrum No.1 [43.472 sec]58158.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER: PCI SCIENTIFIC SUPPLY, INC

PURCHASE ORDER NO. 6054931

CATALOG NO. BOI5021-450L

PRODUCT DESCRIPTION: BOILING STONES, TFE, 454GMS

QUANTITY: 10 EACH

LOT NO. W126678

SPECIFICATION (S): Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.



Laura Valencia
Quality Assurance Inspector

F:\J:\LCP\PCISCI\COC-55118-BOI5021-061223



MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER: PCI SCIENTIFIC SUPPLY, INC

PURCHASE ORDER NO. 6054931

CATALOG NO. BOI5021-450L

PRODUCT DESCRIPTION: BOILING STONES, TFE, 454GMS

QUANTITY: 10 EACH

LOT NO. W126678

SPECIFICATION (S): Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.



Laura Valencia
Quality Assurance Inspector

F:\J:\A\CF\PCISCI\COC-55118-BOI5021-061223



CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

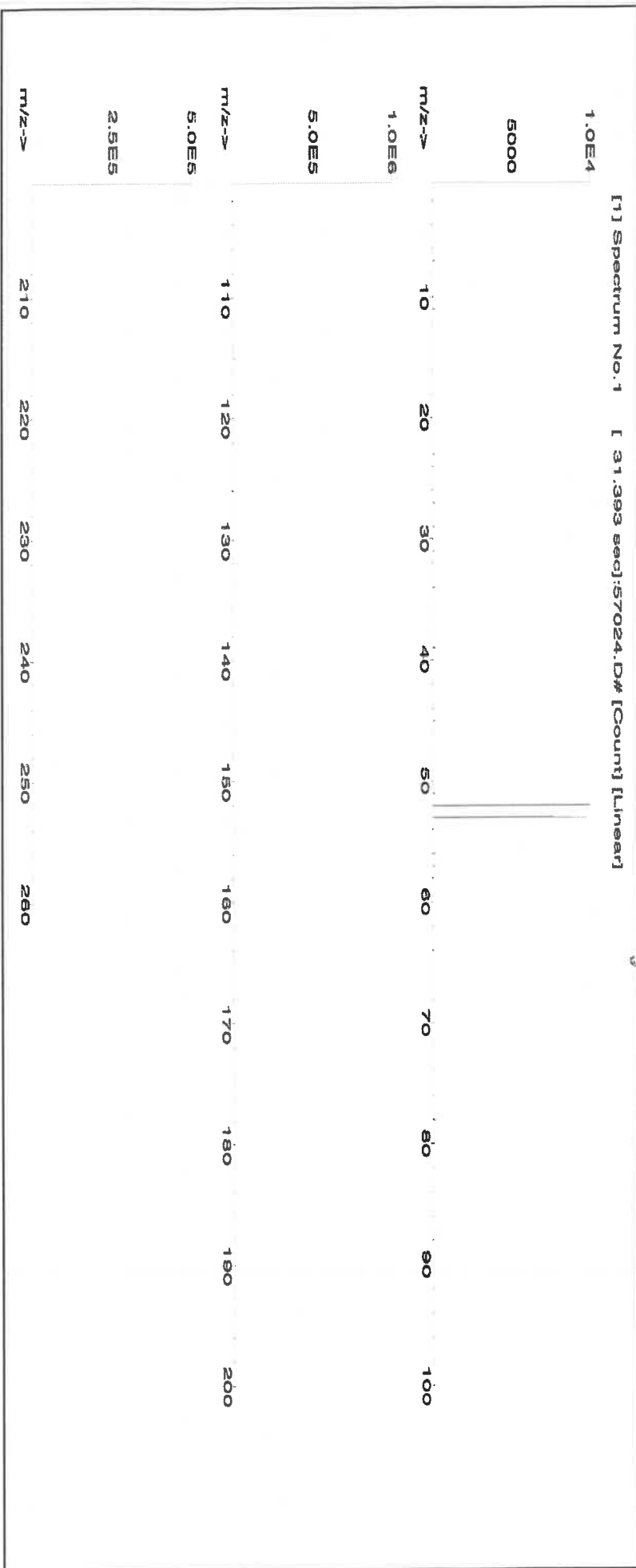
Lot #
21110221
Solvent: Nitric Acid

Formulated By:	Lawrence Barry
	060523
Reviewed By:	Pedro L. Henrias
	060523

Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	------------------	-----------------------	-----------------------	---------------------	----------------------------------	------	----------------	------	----------

1. Chromium(III) nitrate nonahydrate (Cr) 58124 071122 0.1000 200.0 0.084 1000 10000.1 1000.0 2.2 7789-02-8 0.5 mg(Cr)/m3 or rat 3250 mg/kg 3112a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

M5697 R: 10/27/23



CERTIFIED WEIGHT REPORT:

Part Number: 58029
Lot Number: 102523
Description: Copper (Cu)

Lot # 24002546
Solvent: Nitric Acid

2.0% 40.0 Nitric Acid
(mL)

Expiration Date: 102526
Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

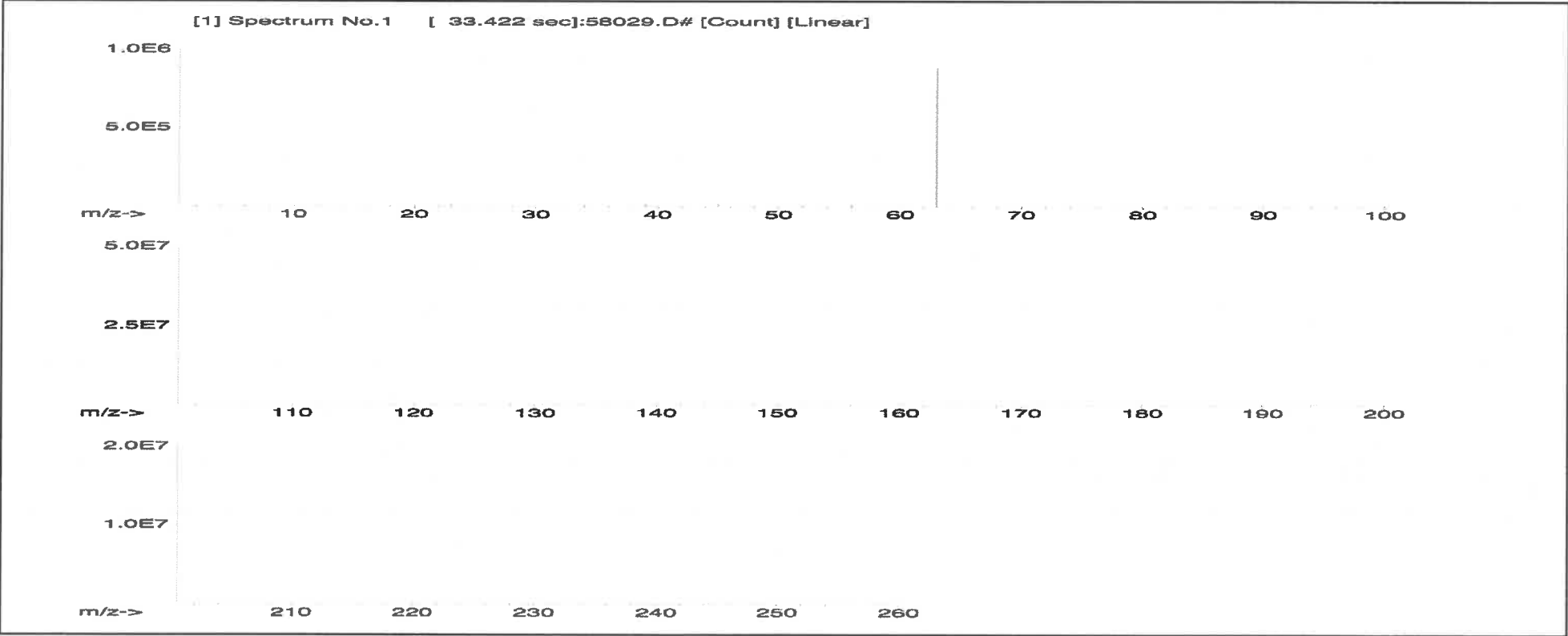
NIST Test Number: 6UTB

5E-05 Balance Uncertainty

Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded	SDS Information			NIST
									Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)			SRM
										CAS#	OSHA PEL (TWA)	LD50	
Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	1000.0	2.2	10031-43-3	1 mg/m3	ori-rat 794 mg/kg	3114





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **091223**
Description: **Nickel (NI)**

Lot # **24002546** Solvent: **Nitric Acid**

Expiration Date: **091226**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**

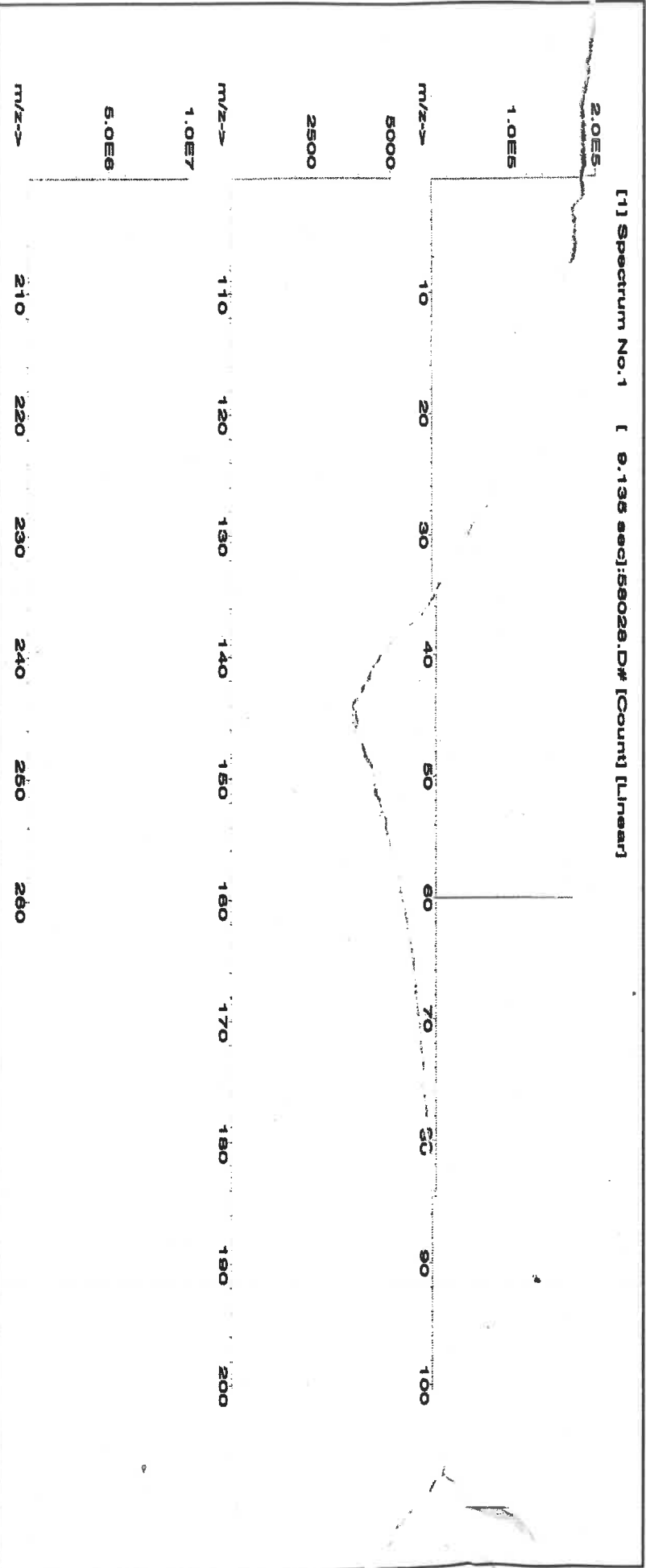
2.0% 40.0 (mL) Nitric Acid

Formulated By:	<i>Lawrence Barry</i>	091223
Reviewed By:	<i>Pedro L. Renteria</i>	091223

NIST Test Number: **6U7B**
Volume shown below was diluted to (mL): **2000.02** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.056**

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	------------------	--------------	-----------------------	-----------------------	---------------------	----------------------------------	------	----------------	------	----------

1. Nickel(II) nitrate hexahydrate (NI) 58128 062023 0.1000 200.0 0.084 1000 10000.4 1000.0 2.2 13478-00-7 1 mg/m3 or-rel 1620 mg/kg 3136





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tb	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57004
Lot Number: 102523
Description: Beryllium (Be)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

102526

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty

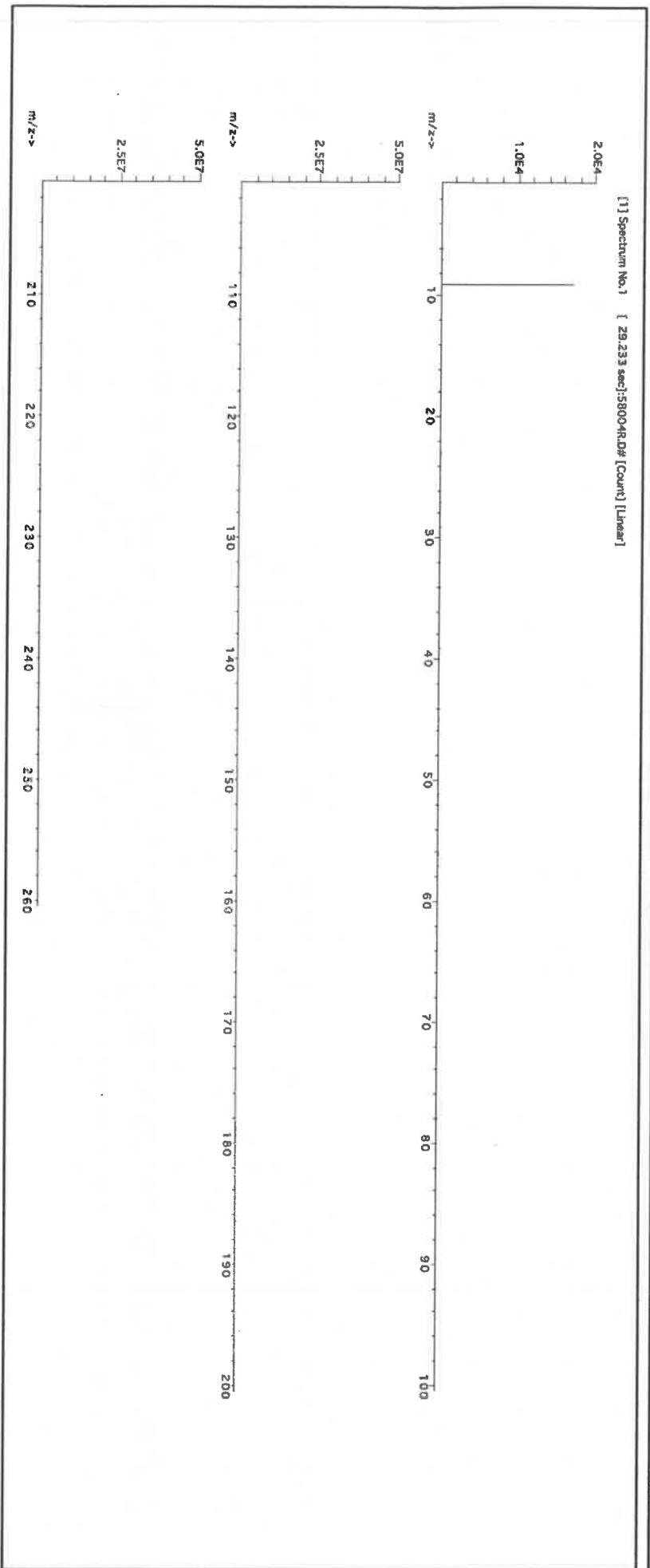
0.058 Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	--------------------------	-----------------------	-----------------------	---------------------	----------------------------------	------	----------------	------	----------

1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13597-99-4	0.2µg/m3	intrinsc-rat 3.16mg/kg	NA
---------------------------	-------	--------	--------	-------	-------	------	---------	--------	-----	------------	----------	------------------------	----





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.02	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ta	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.

* All standard containers are meticulously cleaned prior to use.

* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).

* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

* All Standards should be stored with caps tight and under appropriate laboratory conditions.

* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E. "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

Lot # R-02509124 M599

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 499.93

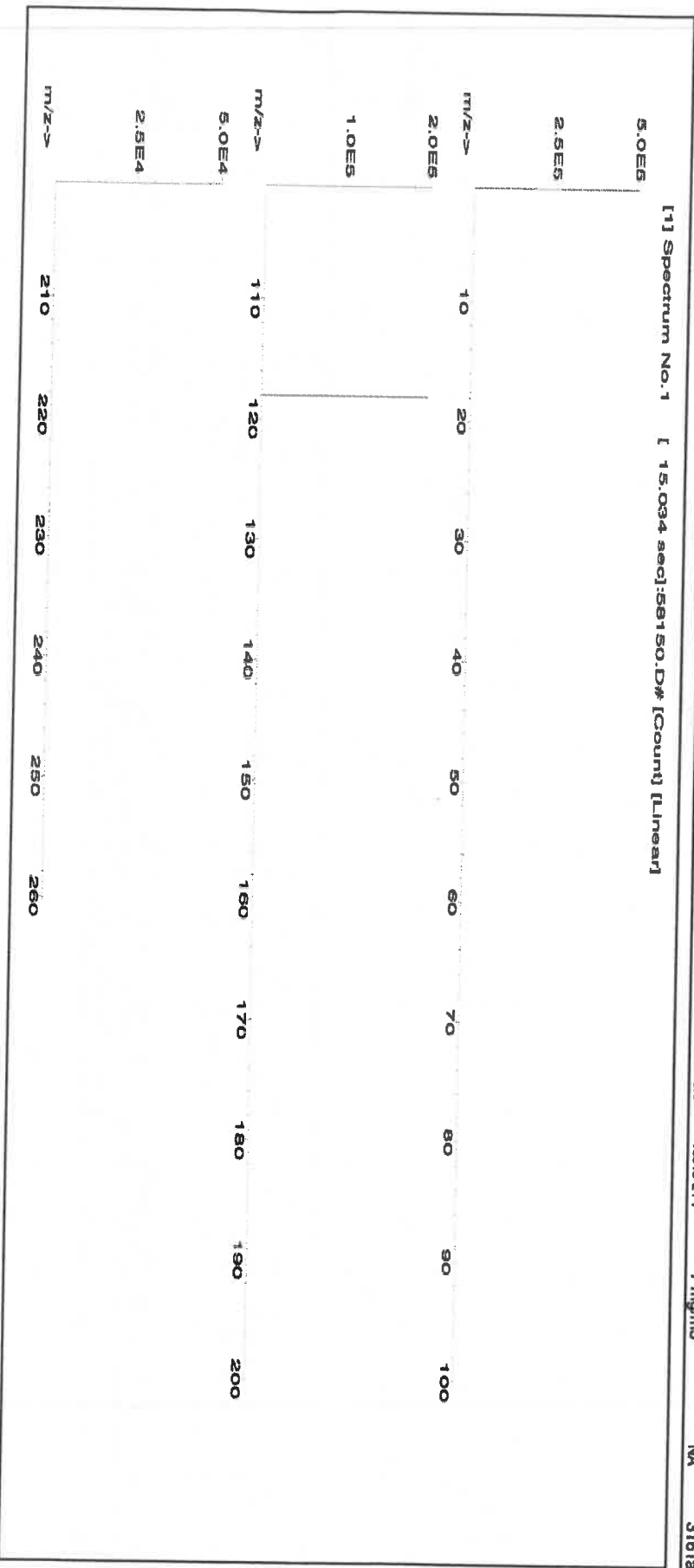
5E-05 Balance Uncertainty
0.0058 Flask Uncertainty

Formulated By:	Benson Chan
	071123
Reviewed By:	Pedro L. Rientas
	071123

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty		CAS#	OSHA PEL (TWA)	LD50	NIST SRM
									+/- (µg/mL)	(µg/mL)				

1. Ammonium hexafluoroantimonate(V) (Sn) INO10 SMD042023A1 1000 99.999 0.10 44.2 1.13107 1.13286 1001.6 2.0 16919-24-7 7 mg/m3 NA 3161a

[1] Spectrum No. 1 [15.034 sec]:56150.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ta	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027
Lot Number: 091923
Description: Cobalt (Co)

Expiration Date: 091926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # 24002546
Solvent: Nitric Acid

2.0% Nitric Acid
40.0 (mL)

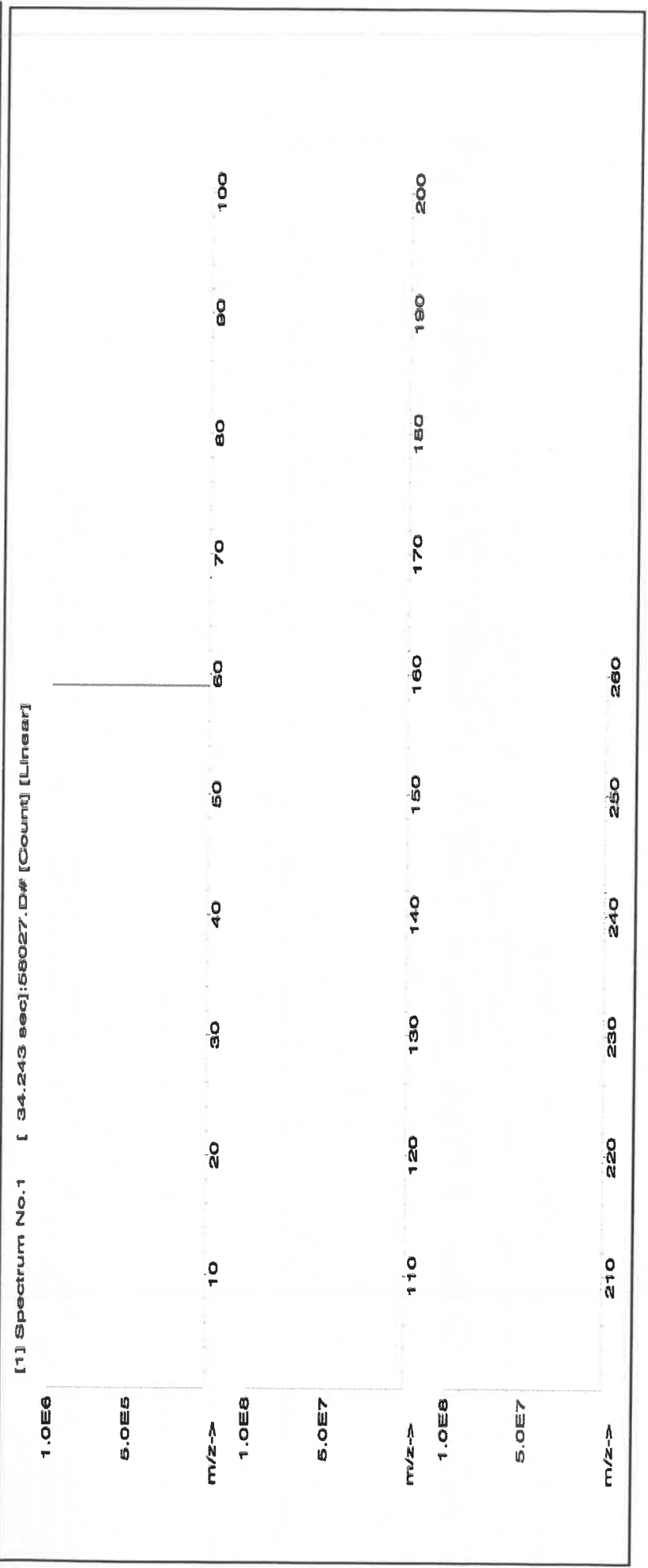
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

SDS Information

Expanded Uncertainty +/- (µg/mL)
Final Conc. (µg/mL)
Initial Conc. (µg/mL)
Nominal Conc. (µg/mL)
Pipette (mL)
Initial Vol. (mL)
Dilution Factor
Part Number
Lot Number

(Solvent Safety Info. On Attached pg.)
CAS#
OSHA PEL (TWA)
LD50
NIST
SRM

1. Cobalt(II) nitrate hexahydrate (Co) 58127 050923 0.1000 200.0 0.084 1000 10000.0 1000.0 2.2 10026-22-9 0.02 mg/m3 orl-rat 691 mg/kg 3113





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.2	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57033
111323
Arsenic (As)

Lot #
Solvent:

24002546
Nitric Acid

Expiration Date:

111326

2.0%
80.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

4000.0

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

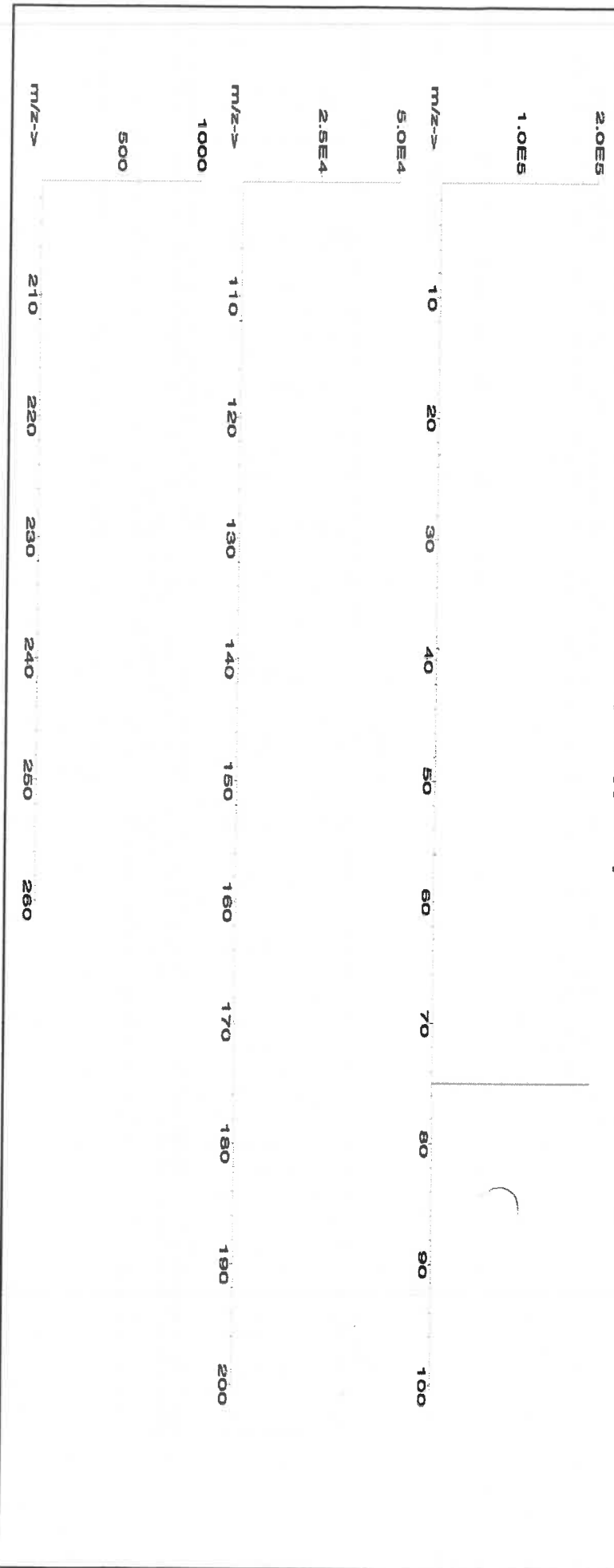
Formulated By:	Lawrence Barry
	111323
Reviewed By:	Pedro L. Rendas
	111323

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-------------	------------	-----------------	-------------------	--------------------------	-----------------------	-----------------------	---------------------	----------------------------------	--	------	----------------	------	----------

1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	1000.0	2.0	7440-38-2	0.5 mg/m3	or-rat 500 mg/kg	3103a
-----------------	-------	--------	--------	-------	-------	------	---------	--------	-----	-----------	-----------	------------------	-------

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tl	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sa	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57005**
Lot Number: **071123**
Description: **Boron (B)**

Solvent: MKB0857V Ammonium hydroxide

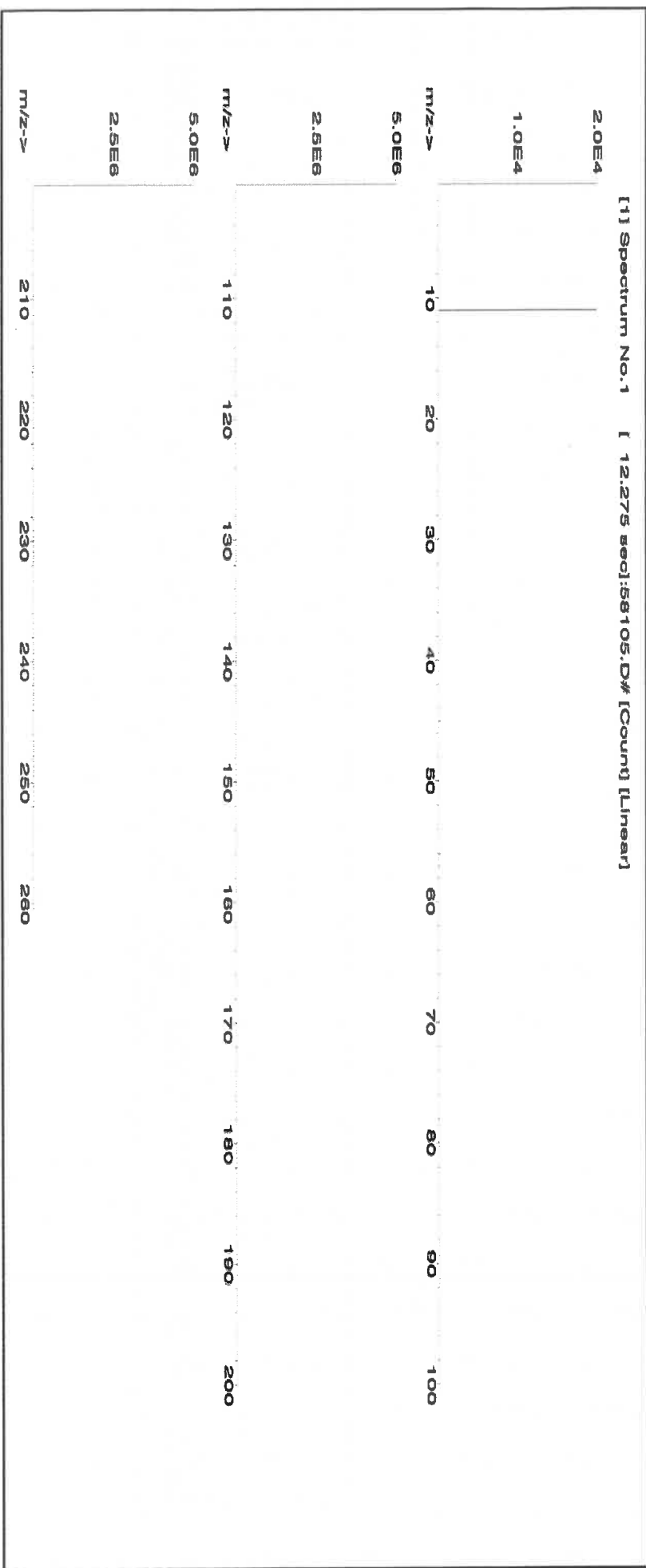
Lot #

AI: 021009124 M5814

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 0.058 Balance Uncertainty
2.0% 40.0 Ammonium hydroxide (mL)

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rientas
071123	

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
1. Boric acid (B)	IN018 BV082018A1	1000	99.999	0.10	17.3	11.55772	11.56201	1000.4	2.0
									10043-35-3
									2 mg/m3
									ort-nat 2660 mg/kg
									3107





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57016
122923
Sulfur (S)

Lot #

ASTM Type 1 Water

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas
122923	

Expiration Date:

122926

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6L7B

Weight shown below was diluted to (mL):

4000.0

SE-05 Balance Uncertainty
0.06 Flask Uncertainty

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-----	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Ammonium sulfate (S) IN117 SLBR725V 1000 99.9 0.10 24.3 16.4979 16.4980 1000.0 2.0 7783-20-2 NA 0.01-0.02 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	S	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57015
Lot Number: 091123
Description: Phosphorous (P)

Solvent: 24002546 Nitric Acid

Lot #

R: 02109124 M5820

Lawrence Barry
Formulated By: Lawrence Barry
091123

Pedro L. Rentas
Reviewed By: Pedro L. Rentas
091123

2% 40.0 (mL) Nitric Acid

Expiration Date: 091126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6LJB

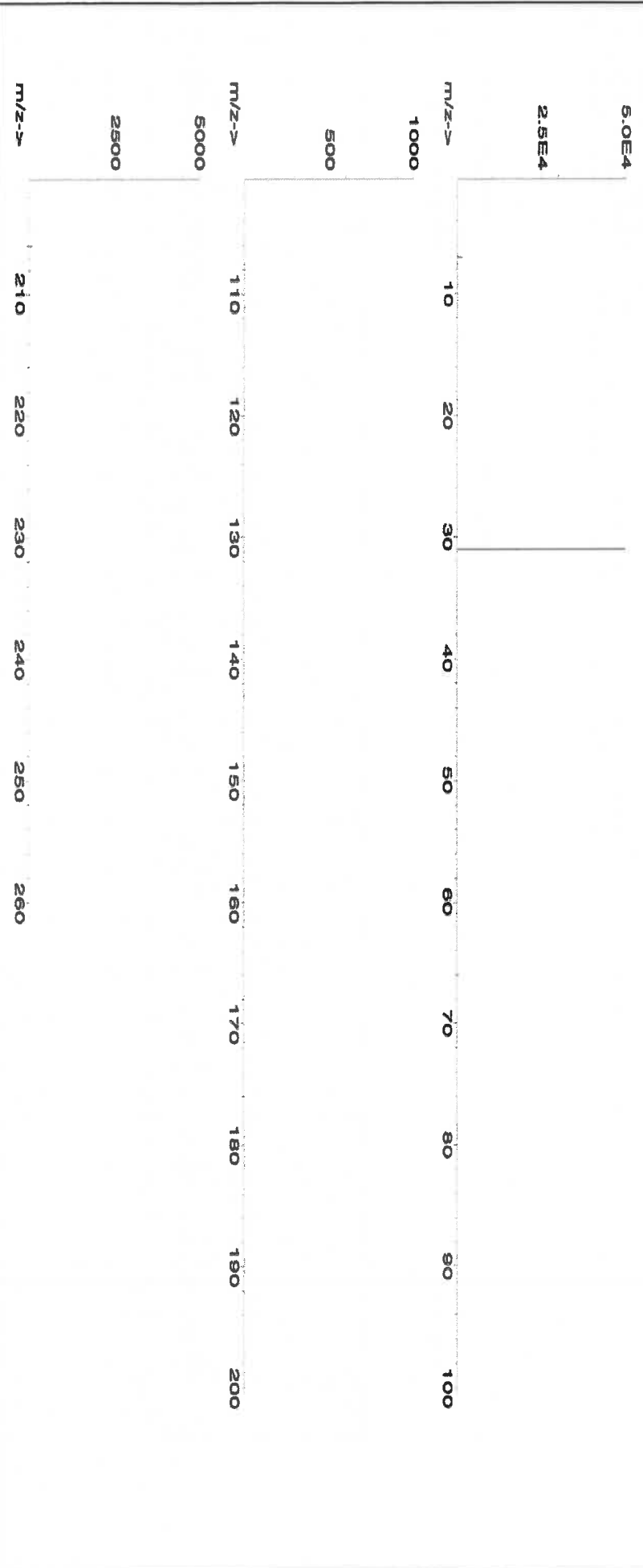
Weight shown below was diluted to (mL): 2000.02 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

SDS Information

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-----	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Ammonium dihydrogen phosphate (P) IN008 PVO62019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sa	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent



MS824
MB

Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

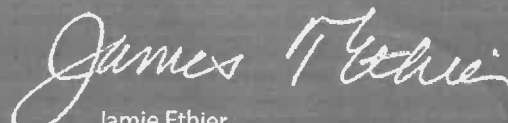
Retest Date: 2026-06-07

Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	$\leq 0.005 \%$	0.003 %
Iodide (I)	$\leq 0.002 \%$	< 0.002 %
Bromide (Br)	$\leq 0.01 \%$	< 0.01 %
Chlorate and Nitrate (as NO ₃)	$\leq 0.003 \%$	< 0.001 %
ACS - Phosphate (PO ₄)	$\leq 5 \text{ ppm}$	< 5 ppm
Sulfate (SO ₄)	$\leq 0.004 \%$	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5 ppm
Iron (Fe)	$\leq 2 \text{ ppm}$	< 1 ppm
Calcium (Ca)	$\leq 0.002 \%$	< 0.001 %
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001 %
Potassium (K)	$\leq 0.005 \%$	0.001 %

For Laboratory, Research, or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



CERTIFIED WEIGHT REPORT:

MS962 **R: 06/14/24**

Lot # **24002546** Solvent: **Nitric Acid**

Part Number: **57034**
Lot Number: **060624**
Description: **Selenium (Se)**

2.0% 40.0 (mL) Nitric Acid

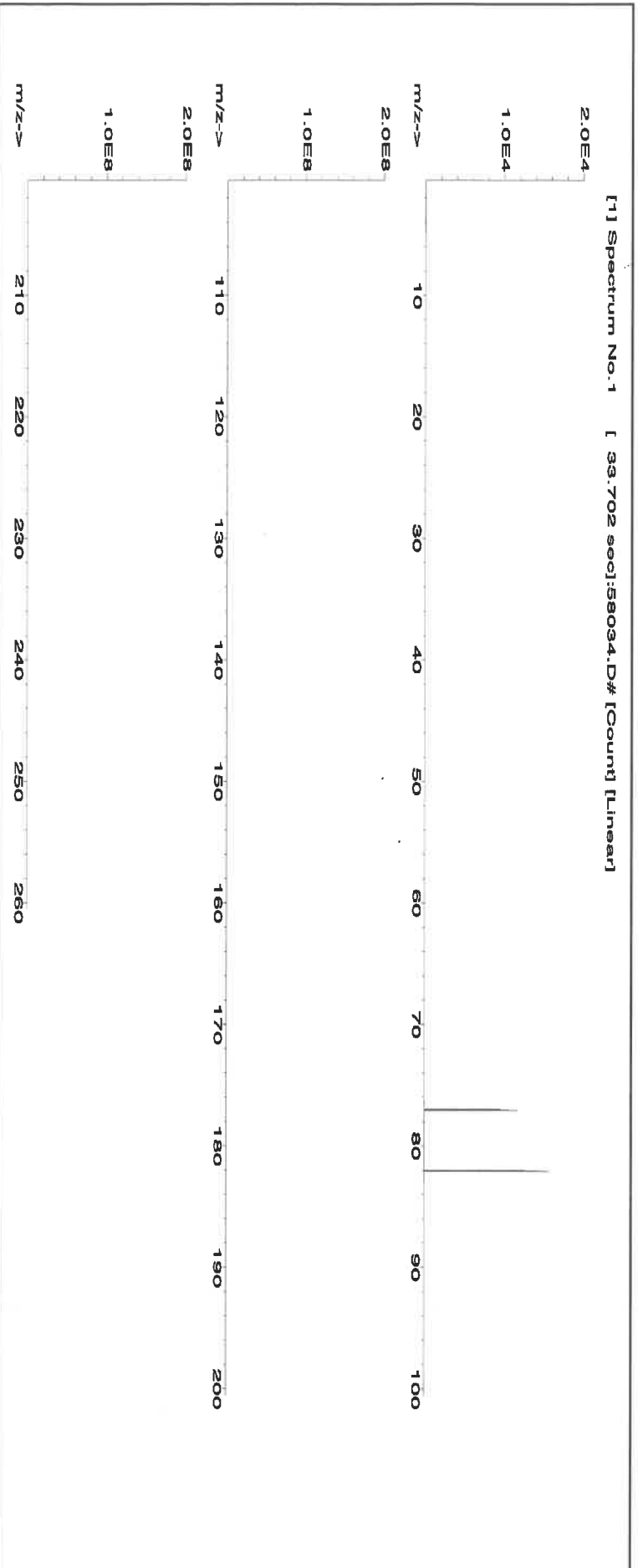
Expiration Date: **060627**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Volume shown below was diluted to (mL): **2000.07**
SE-05 Balance Uncertainty **0.100** Flask Uncertainty

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rantas	060624

SDS Information									
Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	1000.0	2.2

(Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) LD50 SRM

[1] Spectrum No. 1 [33.702 sec]:58034.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	T	Tb	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02		<0.02	Ti	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57016
Lot Number: 122923
Description: Sulfur (S)

Lot #
Solvent: 122923 ASTM Type 1 Water

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.0
5E-05 Balance Uncertainty
0.06 Flask Uncertainty

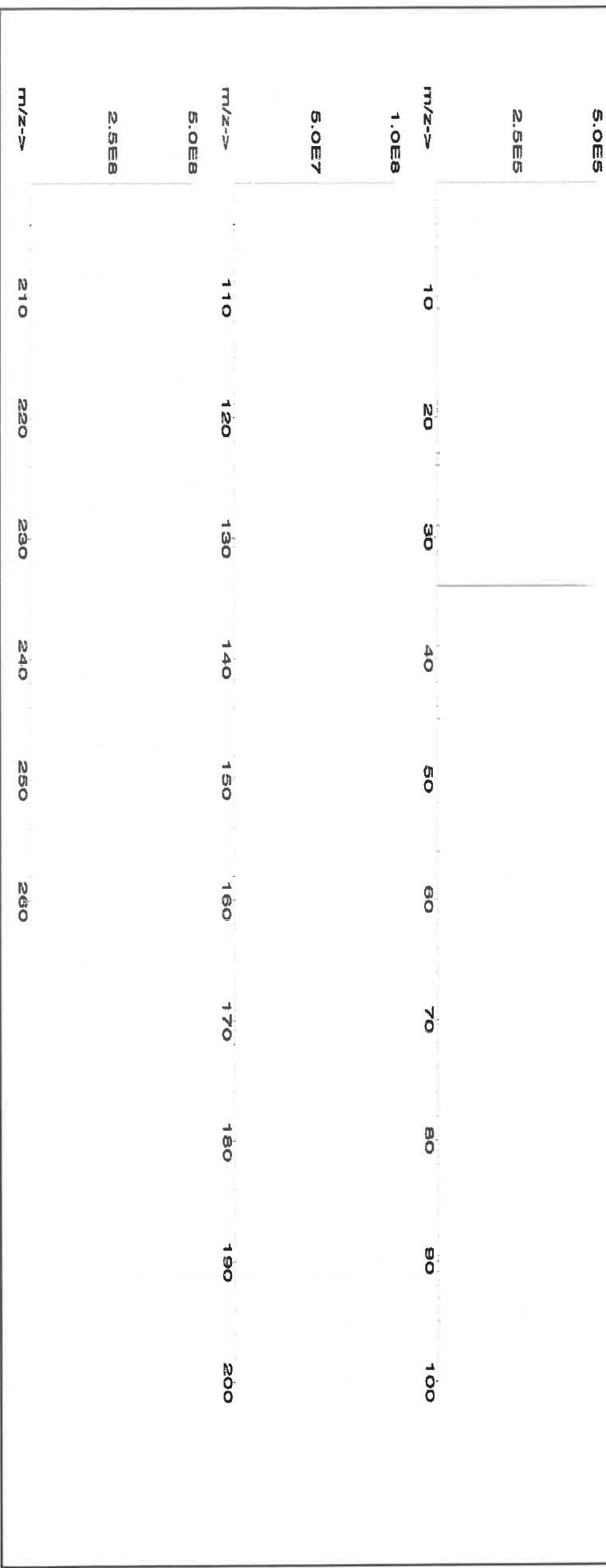
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty		NIST SRM
									±	(µg/mL)	

SDS Information

(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

1. Ammonium sulfate (S) IN117 SLBR725V 1000 99.9 0.10 24.3 16.4979 16.4980 1000.0 2.0 7783-20-2 NA or-rel 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]



Absolute Standards, Inc.
800-368-1131
www.absolute-standards.com



Certified Reference Material CRM

M5970 M5971

R. J. 10/12/24



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **57003**
Lot Number: **062124**
Description: **Lithium (Li)**
Expiration Date: **06/127**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Volume shown below was diluted to (mL): **250.11**
SE-05 Balance Uncertainty
0.016 Flask Uncertainty

Lot # **24002546**
Solvent: **Nitric Acid**

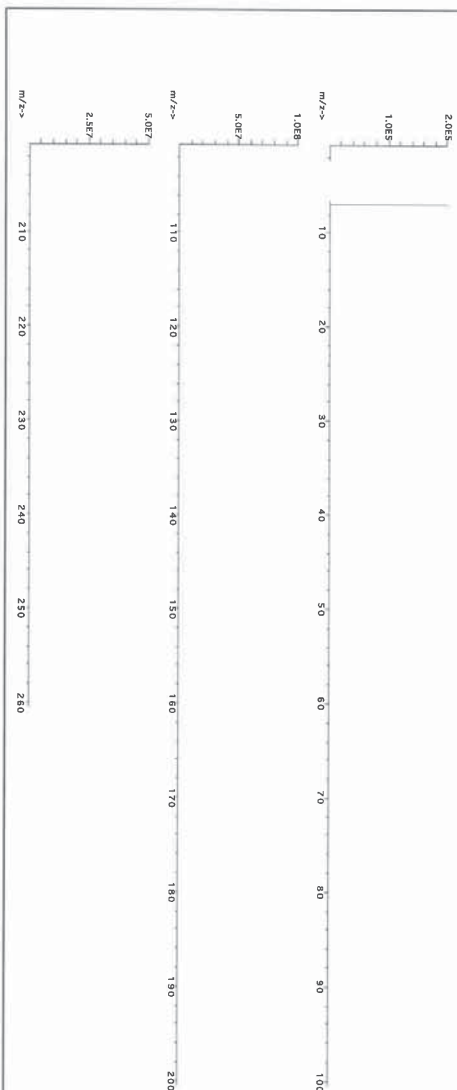
2.0% 5.0 (mL) Nitric Acid

Microvial Capable	
Formulated By:	062124
Giovanni Esposito	
Reviewed By: <i>[Signature]</i>	
Pietro L. Parias	062124

Compound		Part		Lot		Dilution		Initial		Uncertainty		Nominal		Initial		Final		Expanded		SDS Information		NIST	
Number	Factor	Number	Factor	Number	Factor	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Uncertainty	± (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SM

1. Lithium nitrate (Li) 58103 070622 0.1000 25.0 0.004 1000 10000.4 1000.0 2.0 7790-68-4 5 mg/m3 or-hal 1428 mg/kg NA

[1] Spectrum No. 1 [32.093 sec; 15000.0Hz Count [Lines]



Certificate of Analysis

MS978, MS979



Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution

Catalog Number: CGT1

Lot Number: T2-T1719972

Matrix: 2% (v/v) HNO₃

Value / Analyte(s): tr. HF

Starting Material: 1 000 µg/mL ea.

Starting Material: Titanium

Starting Material: Ti Metal

Starting Material Lot#: 2094

Starting Material Purity: 99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Method #1

1002 ± 4 µg/mL

ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods
Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \sum (X_i / U_i^2)$ where X_i = mean of Assay Method A with

U_i = the standard uncertainty of characterization Method A

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$

$k = \text{coverage factor} = 2$

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

$U_{CRM} = \sqrt{U_A^2 + U_B^2 + U_C^2 + \dots}$ where U_{CRM} is the standard uncertainty of characterization method

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UHPA-filtered Clean Room. An UHPA-filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M Ag	<	0.000536	M Eu	<	0.000268	O Na	<	0.032670	M Se	<	0.001204	O Zn	<	0.003267
O Al	<	0.000872	O Fe	<	0.003225	O Nb	<	0.043560	O Si	<	0.004735	O Zr	<	0.043560
M As	<	0.008586	M Ga	<	0.000268	M Nd	<	0.000268	M Sm	<	0.000268			
M Au	<	0.004577	M Gd	<	0.000268	O Ni	<	0.010890	M Sn	<	0.000986			
O B	<	0.008929	M Ge	<	0.002146	M Os	<	0.000269	O Sr	<	0.000986			
M Ba	<	0.002683	M Hf	<	0.002161	O P	<	0.054450	M Ta	<	0.010560			
M Be	<	0.005366	M Hg	<	0.003231	M Pb	<	0.001073	M Tb	<	0.000268			
M Bi	<	0.001609	M Ho	<	0.000268	M Pd	<	0.000268	M Th	<	0.001341			
O Ca	<	0.000676	M In	<	0.002683	M Pr	<	0.000268	M Tl	<	0.053663			
M Cd	<	0.000268	M Ir	<	0.000269	M Pt	<	0.000536	S Ti	<				
M Co	<	0.000268	M K	<	0.001172	M Rb	<	0.000268	M Tl	<	0.000268			
M Cr	<	0.000752	O Li	<	0.000268	M Re	<	0.000268	M Tm	<	0.000268			
M Cs	<	0.000268	M Lu	<	0.000268	M Rh	<	0.000268	M U	<	0.000268			
O Cu	<	0.010890	O Mg	<	0.005445	I S	<	0.006976	M Y	<	0.002146			
M Dy	<	0.000268	O Mn	<	0.003267	M Sb	<	0.004900	M Yb	<	0.000536			
M Er	<	0.000268	M Mo	<	0.000774	O Sc	<							

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 ± 4.6 Ti(F)₆-2 media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)₆-2 for months in 1% HNO₃ / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)₆-2 chemically stable for years in 2-5% HNO₃ / trace HF in an LDPE container.

TI Containing Samples (Preparation and Solution) - Metal (Soluble in H₂O / HF caution - powder reacts violently). Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H₂O / HF / H₂SO₄); K₂SiO₇ - no KF if silica not present); Organic Matrices (Dry ash at 450EC in P10 and dissolve by heating with 1:1:1 H₂O / HF / H₂SO₄ or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystaline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	14 ppt
ICP-MS 48 amu	N/A	
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1
ICP-OES 334.941 nm	0.0038 / 0.00028 µg/mL	1
ICP-OES 336.121 nm	0.0053 / 0.00034 µg/mL	1

HF Note: This standard should not be prepared or stored in glass.

W, Mo, Co
Nb, Ta, Cr, U
Ce, Ar, Ni
Ru
(where X = Zr, Mo,
14N17N2, 36Ar12C,
48Ca, 196X=2
14N16O18O,
32S16O, 32S14N,
N/A
Order Interferences (underlined indicates severe)

8.0

HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0

HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0

QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, VA 24073, USA; Telephone: 800.868.6786; 540.565.3030; Fax: 540.565.3030; Email: info@inorganicventures.com

11.0

CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date:

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozlikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul Gaines

80978

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGIN10
Lot Number: U2-IN729349
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Indium
Starting Material: Indium Metal
Starting Material Lot#: 2511
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL
Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	10021 ± 56 µg/mL ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	10035 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	10001 ± 33 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na	0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al	0.003385	O	Fe	0.004462	M	Nb	<	0.000760	O	Si	0.024619	M	Zr	<	0.000760		
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760			
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760			
O	B	0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760			
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb	0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760			
O	Ca	0.004616	s	In	<			M	Pr	<	0.000760	M	Th	<	0.000760			
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100			
M	Ce	<	0.000760	O	K	0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760			
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760			
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600			
M	Cu	<	0.003800	O	Mg	0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn	0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760			

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For

s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 114.82 +3 6 In(H₂O)₆+3

Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO₃); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; Info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24
MS-997

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories".

Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CLPP-CAL-3
Lot Number: T2-MEB727800
Matrix: 7% (v/v) HNO₃
Value / Analyte(s):
1 000 µg/mL ea:
Arsenic, Lead,
Selenium, Thallium,
500 µg/mL ea:
Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	1 000 ± 7 µg/mL	Cadmium, Cd	500.0 ± 2.2 µg/mL
Lead, Pb	1 000 ± 4 µg/mL	Selenium, Se	1 000 ± 6 µg/mL
Thallium, Tl	1 000 ± 7 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 21, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

*R: 08/22/24 M6058, M6059*300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.comP: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CHEM-CLP-4
Lot Number: V2-MEB746172
Matrix: 3% (v/v) HNO₃
3% (v/v) HF
Value / Analyte(s): 1 000 µg/mL ea:
Boron, Molybdenum,
Silicon, Tin,
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™)

see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale).

<https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 12, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

M6074
M6075
M6076
M6077

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

EXP: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CHEM-CLP-4
Lot Number: V2-MEB746762
Matrix: 3% (v/v) HNO₃
3% (v/v) HF
Value / Analyte(s): 1 000 µg/mL ea:
Boron, Molybdenum,
Silicon, Tin,
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 06, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

M6074
M6075
M6076
M6077

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

EXP: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CHEM-CLP-4
Lot Number: V2-MEB746762
Matrix: 3% (v/v) HNO₃
3% (v/v) HF
Value / Analyte(s): 1 000 µg/mL ea:
Boron, Molybdenum,
Silicon, Tin,
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 06, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M6137
R-71013124

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGSI1
Lot Number: V2-SI744713
Matrix: tr. HNO₃
tr. HF
Value / Analyte(s): 1 000 µg/mL ea:
Silicon
Starting Material: Silica
Starting Material Lot#: 1771
Starting Material Purity: 99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL
Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	999 ± 5 µg/mL ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	1000 ± 7 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M Ag <	0.000310	M Eu <	0.000310	O Na	0.001656	M Se <	0.022000	M Zn <	0.002500
M Al	0.010787	M Fe <	0.027000	M Nb <	0.001300	s Si <		O Zr <	0.001900
M As <	0.001900	M Ga <	0.001300	M Nd <	0.000310	M Sm <	0.000310		
M Au <	0.000910	M Gd <	0.000310	M Ni <	0.005500	M Sn	0.000096		
M B	0.016180	M Ge <	0.001900	M Os <	0.000610	O Sr	0.000092		
M Ba	0.000096	M Hf	0.000423	i P <		M Ta	0.002542		
O Be <	0.000570	M Hg <	0.000610	M Pb <	0.000310	M Tb <	0.000310		
M Bi <	0.000310	M Ho <	0.000610	M Pd <	0.000610	M Te <	0.000910		
O Ca	0.011557	M In <	0.000310	M Pr <	0.000310	M Th <	0.001900		
M Cd <	0.000310	M Ir <	0.000310	M Pt <	0.000310	M Ti	0.001078		
M Ce <	0.000610	O K	0.000577	M Rb <	0.009100	M Tl <	0.000310		
M Co <	0.001600	M La <	0.000310	M Re <	0.000310	M Tm <	0.000310		
M Cr <	0.010000	O Li <	0.000460	M Rh <	0.000310	M U <	0.000310		
M Cs <	0.000310	M Lu <	0.000310	M Ru <	0.000310	O V <	0.001300		
M Cu <	0.002500	O Mg	0.001348	O S <	0.570000	M W <	0.001900		
M Dy <	0.000310	M Mn <	0.002500	M Sb <	0.000310	M Y <	0.000310		
M Er <	0.000310	M Mo <	0.000310	O Sc <	0.000590	M Yb <	0.000310		

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For

s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphous (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 10, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 011025
Description: Iron (Fe)
Lot # R-113125
Solvent: 24012496 Nitric Acid

Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Weight (mL) 40.0
Nitric Acid

Nominal Concentration (µg/mL): 10000

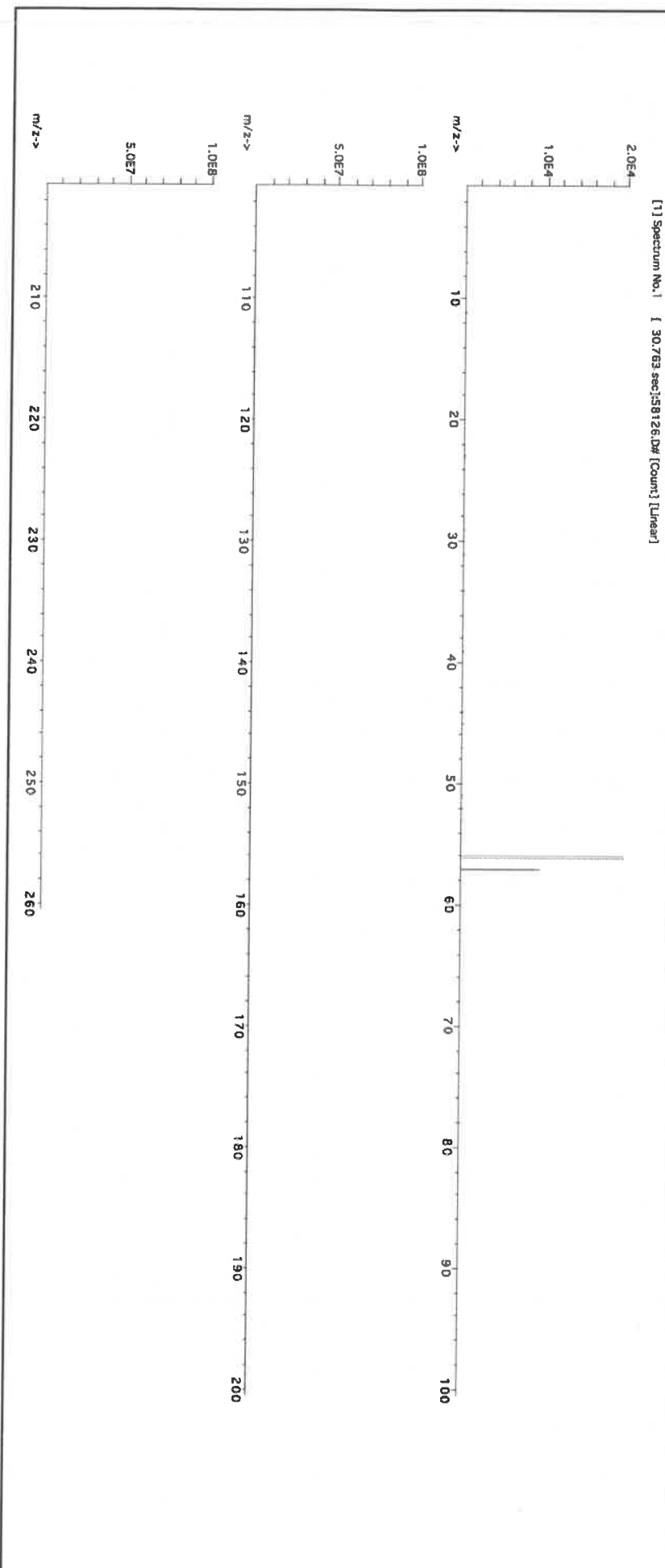
NIST Test Number: 6U7B

Weight shown below was diluted to (mL): 2000.07
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Formulated By:	Benson Chan	011025
Reviewed By:	Pedro L. Renteria	011025

Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	± (µg/mL)	(Solvent Safety Info. On Attached pg.)	SFM

1. Iron(III) nitrate nonahydrate (Fe) IN028 FED082023A1 10000 99.999 0.10 13.0 153.8534 ##### 10000.2 20.0 7782-61-8 1 mg/m³ or-rel 3250mg/kg 3126A





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	T	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02
																U	<0.02
																V	<0.02
																Yb	<0.02
																Y	<0.02
																Zn	<0.02
																Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

R-21113125

Solvent: 24002546 Nitric Acid
Lot #

Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M6141
M6142
M6143

2% 80.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Renteria
	103024

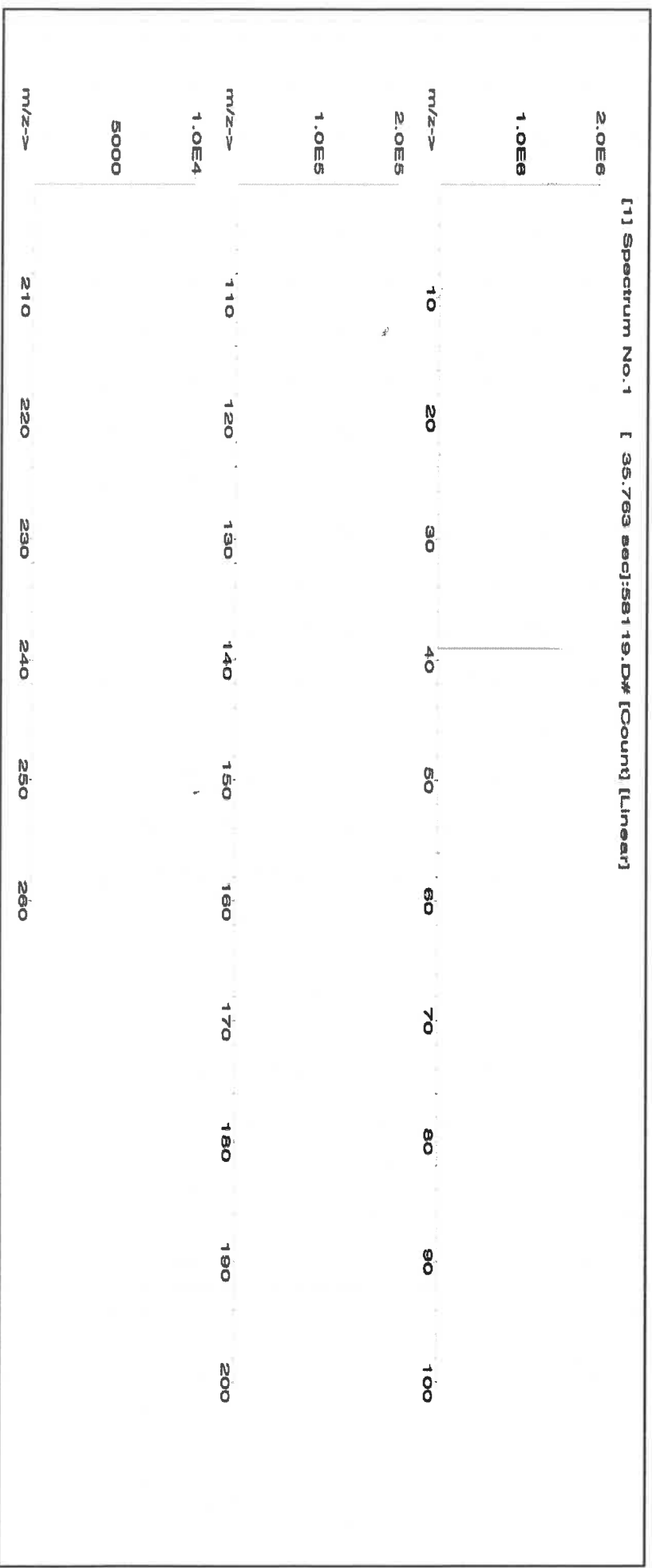
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

SDS Information

(Solvent Safety Info. On Attached pg.)

1. Potassium nitrate (K) IN034 KD062022A1 10000 99.999 0.10 37.7 106.1040 ##### 10001.1 20.0 7757-79-1 5 mg/m3 orl-rat 3750 mg/kg 3141a

[1] Spectrum No. 1 [35.763 sec]:58119.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58111 **Lot #** R-1113/25
Lot Number: 072424 **Solvent:** Nitric Acid
Description: Sodium (Na)

Expiration Date: 072427 **2%** 80.0 Nitric Acid (mL)

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 10000

NIST Test Number: 6UTB **5E-05** Balance Uncertainty

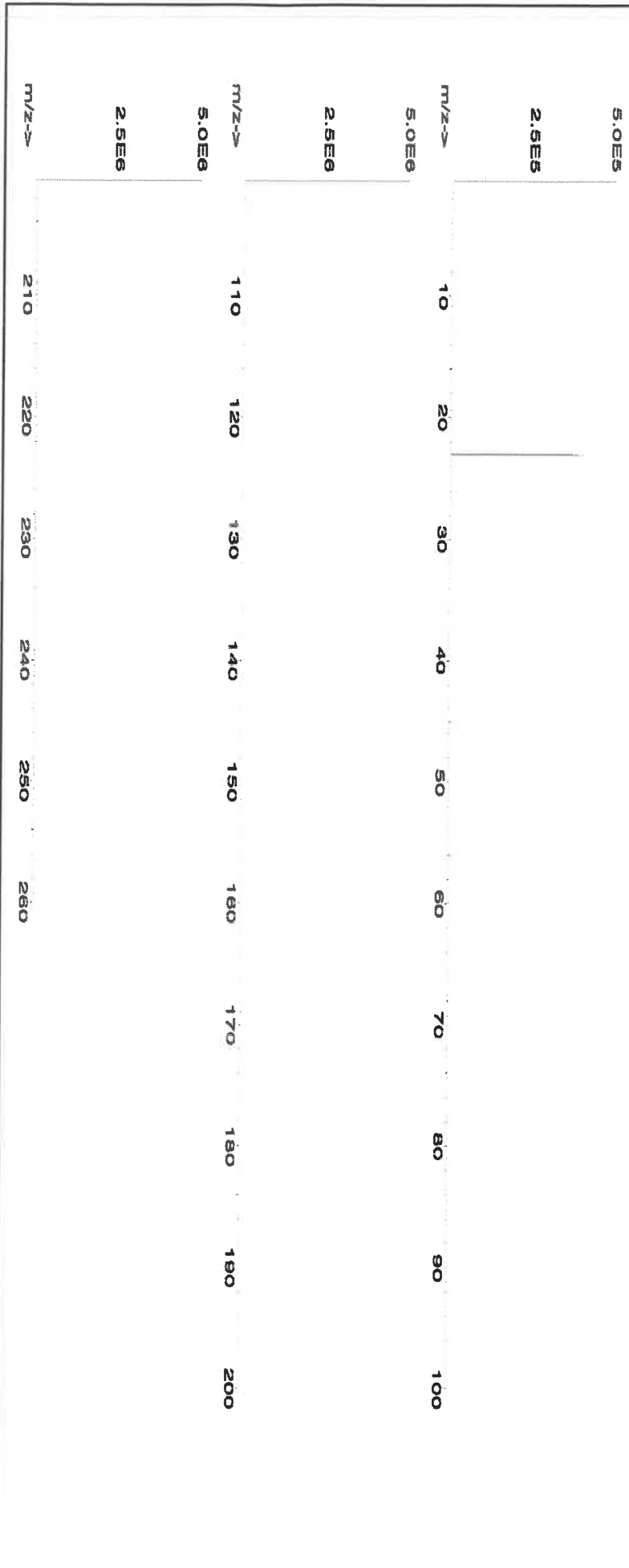
Weight shown below was diluted to (mL): 4000.2 **0.10** Flask Uncertainty

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Renteria	072424

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.999 0.10 26.9 148.7096 ##### 10000.0 20.0 7631-99-4 5 mg/m3 orl-rat 3430 mg/kg 3152a

[1] Spectrum No. 1 [8.935 sec]: 58111.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rb	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **58030** Lot # **R → 11/13/25**
Lot Number: **121724** Solvent: **24012496 Nitric Acid**
Description: **Zinc (Zn)**

Expiration Date: **121727** 2% 40.0 (mL) Nitric Acid

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

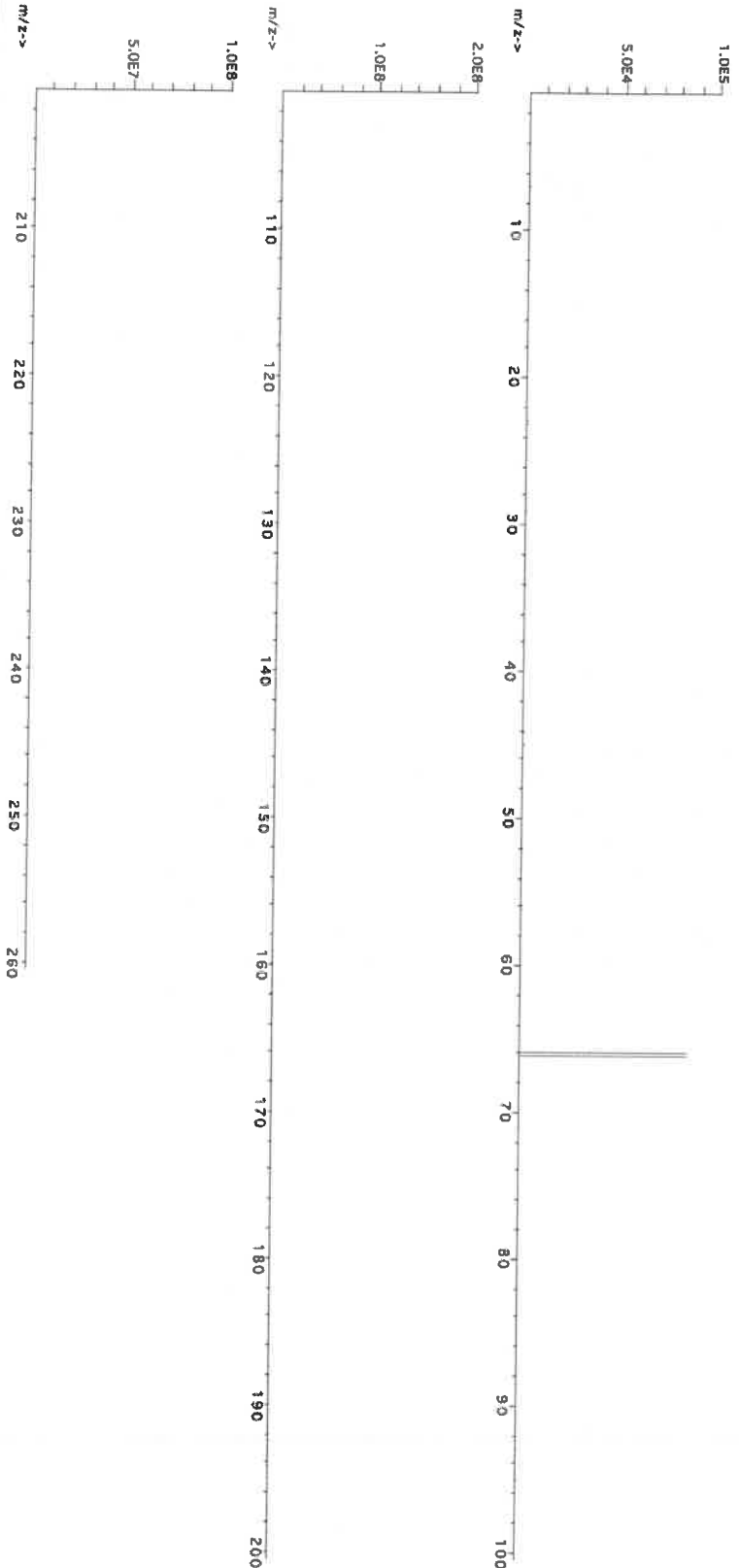
Weight shown below was diluted to (mL): **2000.1** 0.10 Balance Uncertainty
Flask Uncertainty

<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
Reviewed By:	<i>Pedro L. Rentias</i>
	Pedro L. Rentias
	121724

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Zinc nitrate hexahydrate (Zn) IN016 ZNE032021A1 1000 99.999 0.10 24.3 8.2308 8.2311 1000.0 2.0 10196-18-6 1 mg/m3 or-rat 1190mg/kg 3168

[1] Spectrum No.1 [31.103 sec;58130.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis

 **avantor**™

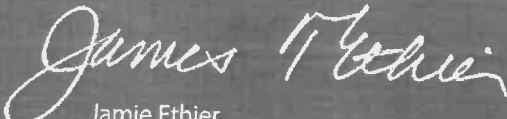


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
------	---------------	--------

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™



R- 0210212025

m - 6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor™**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantor™**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
------	---------------	--------

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

 **avantorsTM**



m-6162

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

R. Date :- 04/27/2025

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantor™**



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
------	---------------	--------

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution		
Catalog Number:	QCP-CICV-1		
Lot Number:	V2-MEB744107		
Matrix:	7% (v/v) HNO ₃		
Value / Analyte(s):	2 500 µg/mL ea:		
	Calcium,		Potassium,
	Magnesium,		Sodium,
	1 000 µg/mL ea:		
	Aluminum,		Barium,
	500 µg/mL ea:		
	Iron,		
	250 µg/mL ea:		
	Nickel,		Vanadium,
	Zinc,		Cobalt,
	Manganese,		
	125 µg/mL ea:		
	Silver,		Copper,
	100 µg/mL ea:		
	Chromium,		
	25 µg/mL ea:		
	Beryllium		

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	1 000 ± 4 µg/mL	Barium, Ba	1 000 ± 6 µg/mL
Beryllium, Be	24.98 ± 0.12 µg/mL	Calcium, Ca	2 500 ± 8 µg/mL
Chromium, Cr	99.9 ± 0.6 µg/mL	Cobalt, Co	250.2 ± 1.2 µg/mL
Copper, Cu	125.0 ± 0.5 µg/mL	Iron, Fe	500.0 ± 2.2 µg/mL
Magnesium, Mg	2 500 ± 11 µg/mL	Manganese, Mn	249.9 ± 1.1 µg/mL
Nickel, Ni	250.0 ± 1.2 µg/mL	Potassium, K	2 500 ± 11 µg/mL
Silver, Ag	125.0 ± 0.6 µg/mL	Sodium, Na	2 500 ± 11 µg/mL
Vanadium, V	250.0 ± 1.1 µg/mL	Zinc, Zn	249.9 ± 1.1 µg/mL

Density: 1.081 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale), <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 22, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

 P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: QCP-CICV-2
 Lot Number: U2-MEB733713
 Matrix: 3% (w/v) Tartaric acid
 1% (v/v) HNO₃
 Value / Analyte(s): 500 µg/mL ea:
 Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	500.0 ± 2.8 µg/mL		

Density: 1.017 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2(u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale). <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 01, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 01, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: QCP-CICV-3
 Lot Number: V2-MEB749572
 Matrix: 7% (v/v) HNO₃
 Value / Analyte(s):
 500 µg/mL ea:
 Arsenic, Lead,
 Selenium, Thallium,
 250 µg/mL ea:
 Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	500.0 ± 3.1 µg/mL	Cadmium, Cd	250.1 ± 1.1 µg/mL
Lead, Pb	500.0 ± 2.3 µg/mL	Selenium, Se	500.0 ± 3.2 µg/mL
Thallium, Tl	500.0 ± 3.0 µg/mL		

Density: 1.040 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale), <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 02, 2025

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 02, 2030**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrogen Peroxide, 30%

CMOS

(Stabilized)

M-6170

avantor™



R.Date . 8-05/20/2025

Material No.: 2190-03

Batch No.: 24D1961001

Test	Specification	Result
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 600.0 ppb	176.7 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	190.0 – 500.0 ppb	272.3 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 50 ppb	< 1 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.2 µm and greater	≤ 1175 par/ml	202 par/ml
Particle Count – 0.5 µm and greater	≤ 100 par/ml	33 par/ml

>>> Continued on page 3 >>>

Hydrogen Peroxide, 30%

CMOS

(Stabilized)

 **avantor™**



Material No.: 2190-03
Batch No.: 24D1961001

Test	Specification	Result
------	---------------	--------

For Microelectronic Use

Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC



Michelle Bales
Sr. Manager, Quality Assurance

Hydrogen Peroxide, 30%
CMOS
(Stabilized)



Material No.: 2190-03
Batch No.: 24D1961001
Manufactured Date: 2024-04-17
Expiration Date: 2025-10-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₂ O ₂)	30.0 – 32.0 %	31.6 %
Color (APHA)	≤ 10	< 5
Free Acid (μeq/g)	≤ 0.2	0.1
Residue after Evaporation	≤ 10 ppm	2 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 3 ppm
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Nitrate (NO ₃)	≤ 2 ppm	< 2 ppm
Phosphate (PO ₄)	≤ 1 ppm	1 ppm
Sulfate (SO ₄)	≤ 3 ppm	< 3 ppm
Trace Impurities – Aluminum (Al)	≤ 70.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Chromium (Cr)	≤ 20.0 ppb	1.5 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	< 5.0 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 250.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	4.6 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://AbsoluteStandards.com>

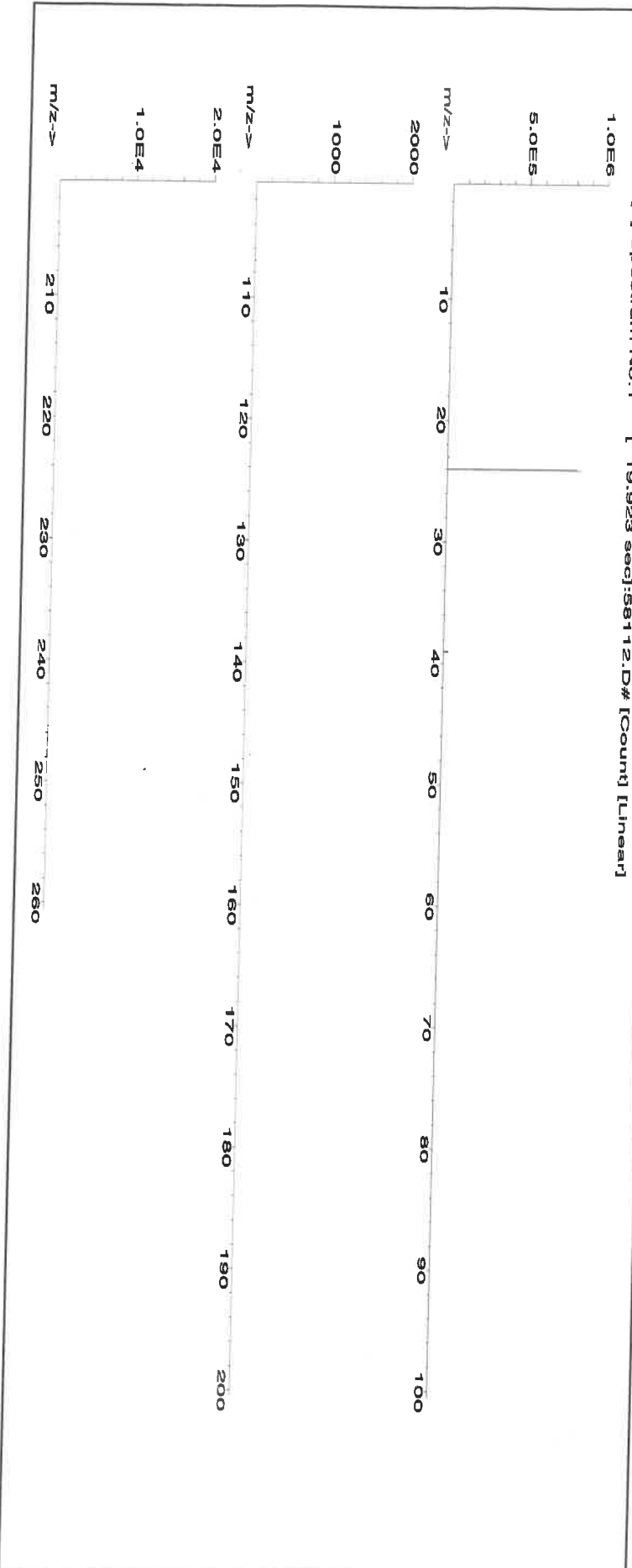
CERTIFIED WEIGHT REPORT:

Part Number: 58112 **Lot #** M 6171
Lot Number: 011525 **Solvent:** 24012496 Nitric Acid
Description: Magnesium (Mg)
Expiration Date: 011528 2%
Recommended Storage: Ambient (20 °C) 40.0 (mL) Nitric Acid
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

Formulated By:	Benson Chan	011525
Reviewed By:	Pedro L. Rentas	011525

Compound

1. Magnesium nitrate hexahydrate (Mg) IN030 MGD05023A1 10000 99.999 0.10 8.51 234.9183 234.9195 10000.1 20.0 13446-18-9 NA off-ret 5440 mg/kg 3131a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ku	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

M6174
R → S1/S124

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution	
Catalog Number:	CLPP-CAL-1	
Lot Number:	V2-MEB742428	
Matrix:	5% (v/v) HNO ₃	
Value / Analyte(s):	5 000 µg/mL ea:	
	Calcium,	Potassium,
	Magnesium,	Sodium,
	2 000 µg/mL ea:	
	Aluminum,	Barium,
	1 000 µg/mL ea:	
	Iron,	
	500 µg/mL ea:	
	Nickel,	Vanadium,
	Zinc,	Cobalt,
	Manganese,	
	250 µg/mL ea:	
	Silver,	Copper,
	200 µg/mL ea:	
	Chromium,	
	50 µg/mL ea:	
	Beryllium	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.03 ± 0.30 µg/mL	Calcium, Ca	5 000 ± 16 µg/mL
Chromium, Cr	200.0 ± 1.1 µg/mL	Cobalt, Co	500.0 ± 2.3 µg/mL
Copper, Cu	250.0 ± 1.1 µg/mL	Iron, Fe	1 000 ± 4 µg/mL
Magnesium, Mg	5 000 ± 22 µg/mL	Manganese, Mn	499.9 ± 2.2 µg/mL
Nickel, Ni	500.1 ± 2.3 µg/mL	Potassium, K	5 000 ± 22 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.117 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale). <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





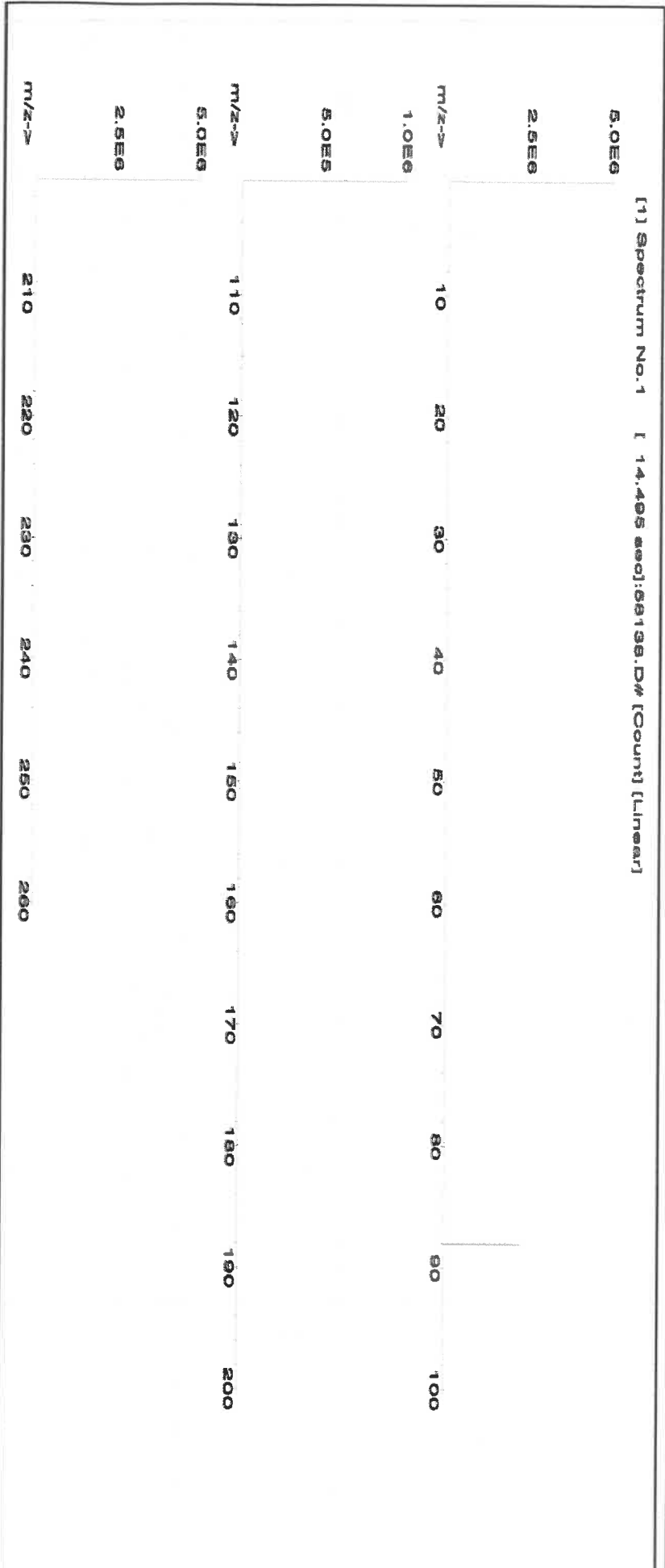
CERTIFIED WEIGHT REPORT:

Part Number: 57038 **Lot #** 24002546 **Solvent:** Nitric Acid
Lot Number: 092724
Description: Strontium (Sr)
Expiration Date: 092727 **2%** 40.0 **Nitric Acid**
Recommended Storage: Ambient (20 °C) **(mL)**
Nominal Concentration (µg/mL): 1000
NIST Test Number: 8UTB **5E-05** **Balance Uncertainty**
Weight shown below was diluted to (mL): 2000.07 **0.100** **Flask Uncertainty**

<i>[Signature]</i>	
Formulated By:	Benson Chan
	092724
<i>[Signature]</i>	
Reviewed By:	Pedro L. Rentas
	092724

SDS Information									
Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded
	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty
									+/- (µg/mL)

1. Strontium nitrate (Sr) IN017 SR2022018A1 1000 99.997 0.10 41.2 4.85470 4.85481 1000.0 2.0 10042-76-9 NA or -rel >2000mg/kg 3153a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57042
080525
Molybdenum (Mo)

Solvent:
Ammonium hydroxide
ASTM Type 1 Water

Expiration Date:

080528

Recommended Storage:

Ambient (15 - 30 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

1999.41

R → 8/6/25
M6177

0.5%

10.0

Ammonium hydroxide

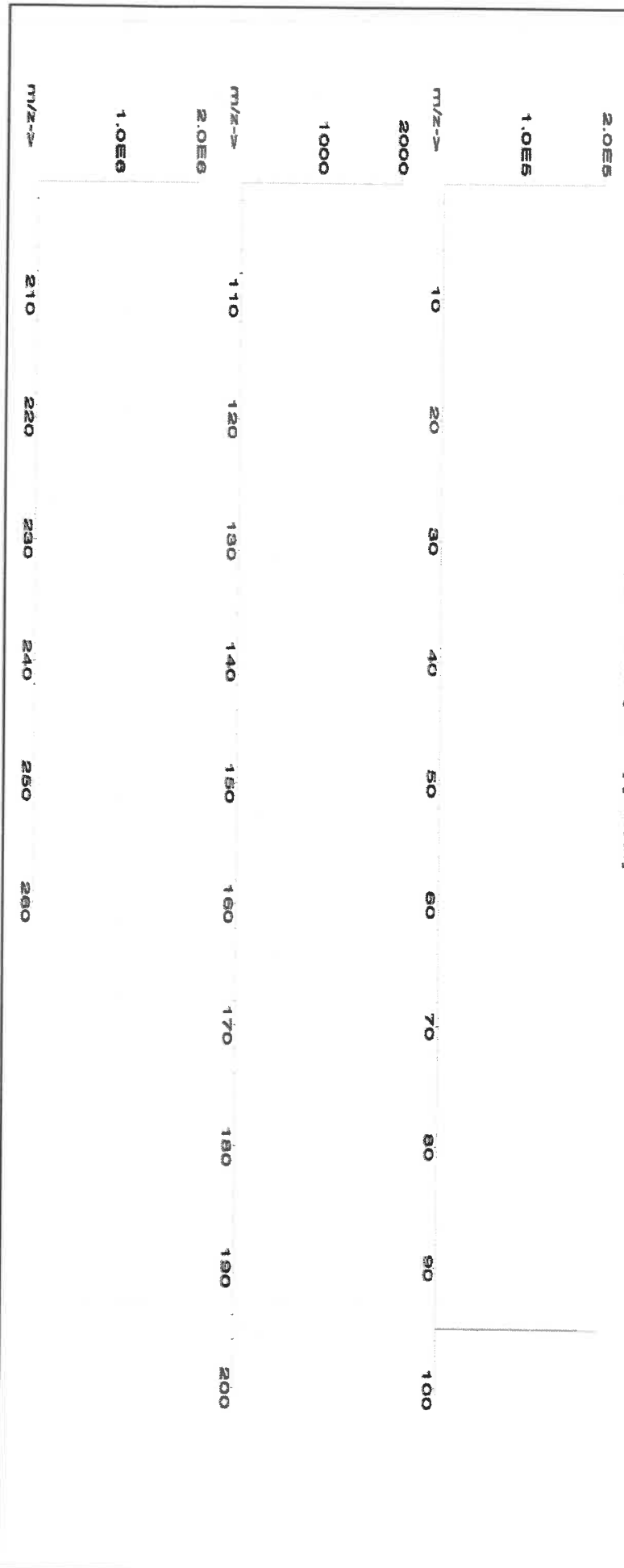
Formulated By:	Benson Chan	080525
Reviewed By:	Pedro L. Renteria	080525

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	--------------------------	-----------------------	-----------------------	---------------------	----------------------------------	------	----------------	------	----------

1. Ammonium molybdate (Mo) 58142 112322 0.1000 200.0 0.084 1000 10001.4 1000.5 2.2 13106-76-8 5 mg(Mo)/mL 0.1-0.333 mg/kg 3134

[1] Spectrum No. 1 [8.594 sec]:57042.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)															
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02
Ba	<0.02	Ce	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Te	<0.02
														Tb	<0.02
														Ti	<0.02
														Th	<0.02
														Tm	<0.02
														Sn	<0.02
														Tl	<0.02
														U	<0.02
														V	<0.02
														Yb	<0.02
														Y	<0.02
														Zn	<0.02
														Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).
- Rev 1.0, 2/25/2025



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57082
031525
Lead (Pb)

Lot #

Nitric Acid

Expiration Date:

031528

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

2000.07

0.10 Flask Uncertainty

2%

40.0 (mL)

Nitric Acid

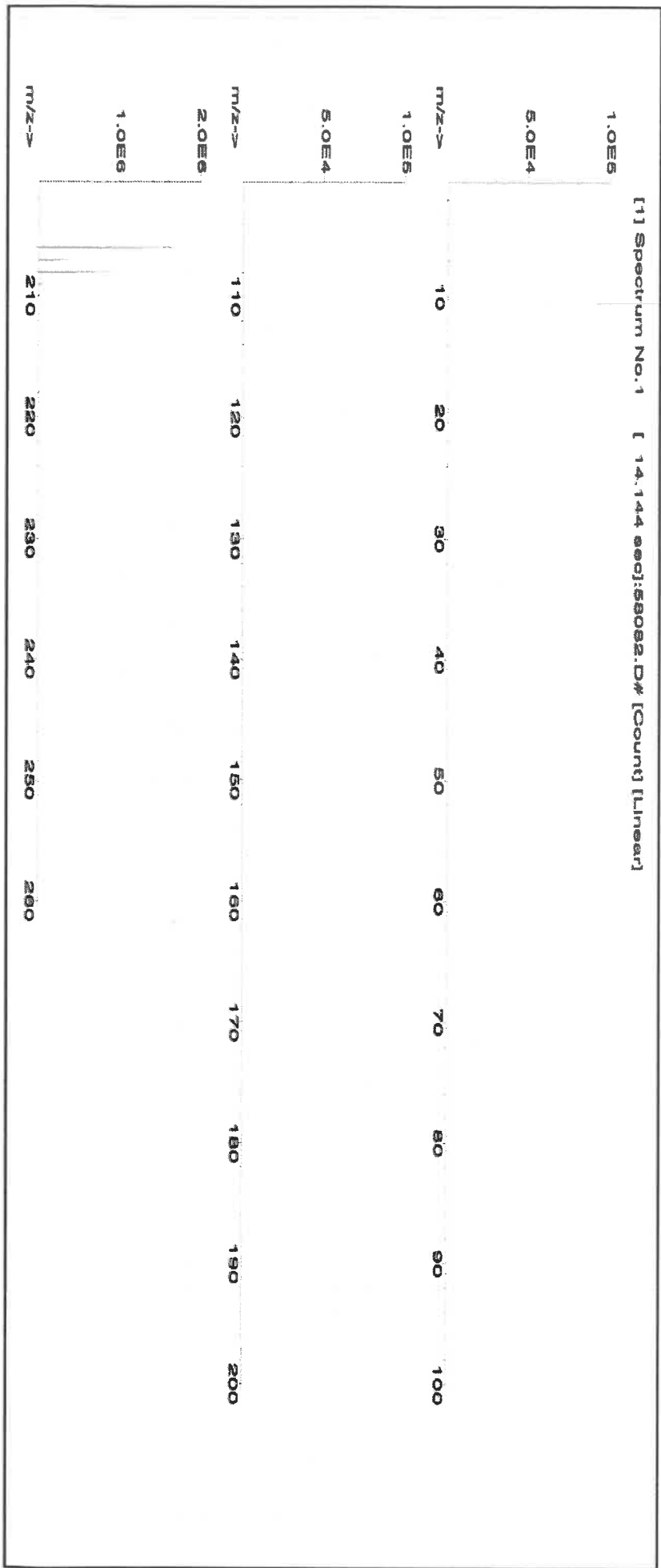
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Renteria
	031525

SDS Information

Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-----	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. **Lead(II) nitrate (Pb)** IN029 PBD122016A1 1000 99.999 0.10 62.5 3.20015 3.20067 1000.2 2.0 10099-74-8 0.05 mg/m3 Intrins-ral 93 mg/kg 3128

[1] Spectrum No. 1 [14.144 sec]:58082.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Se	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M6179
R → 612/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGY10
Lot Number: V2-Y740548
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Yttrium
Starting Material: Yttrium Oxide
Starting Material Lot#: 2661 and 06230520YL
Starting Material Purity: 99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL
Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	10011 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	9997 ± 50 µg/mL ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	9984 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu	0.009037	M	Na	0.086360	M	Se	<	0.005200	M	Zn	0.030125	
M	Al		0.014862	O	Fe	0.002410	M	Nb	<	0.000570	O	Si	0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd	0.000923	M	Sm	0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300		
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600		
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570		
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb	0.005020	M	Tb	0.001044				
M	Bi	<	0.003500	M	Ho	0.009037	M	Pd	<	0.005100	M	Te	<	0.002300			
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570		
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500		
M	Ce	<	0.002300	O	K	0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570			
M	Co	<	0.000570	M	La	0.000461	M	Re	<	0.000570	M	Tm	<	0.003500			
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570		
M	Cs	<	0.000570	M	Lu	0.000582	M	Ru	<	0.000570	M	V	0.001265				
M	Cu		0.002610	O	Mg	0.001486	n	S	<		M	W	<	0.002300			
M	Dy		0.003815	M	Mn	0.000582	M	Sb	0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb	0.001827			

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For

s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale). <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 88.91 +3 6 Y(OH)(H₂O)_{x+2}
Chemical Compatibility -Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H₂O / HNO₃); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	W2-MEB752149
Matrix:	5% (v/v) HNO ₃

M6180
R-37/22/23

Value / Analyte(s):	1 000 µg/mL ea:	
	Potassium,	
	600 µg/mL ea:	
	Phosphorus,	
	300 µg/mL ea:	
	Sodium,	Iron,
	200 µg/mL ea:	
	Magnesium,	Aluminum,
	Cerium,	Selenium,
	Thallium,	
	100 µg/mL ea:	
	Lead,	Calcium,
	80 µg/mL ea:	
	Arsenic,	
	70 µg/mL ea:	
	Mercury,	
	50 µg/mL ea:	
	Nickel,	
	40 µg/mL ea:	
	Chromium,	
	30 µg/mL ea:	
	Copper,	Boron,
	Vanadium,	
	20 µg/mL ea:	
	Zinc,	Strontium,
	Barium,	Beryllium,
	Cadmium,	Cobalt,
	Manganese,	Lithium,
	7.5 µg/mL ea:	
	Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.2 ± 0.7 µg/mL	Arsenic, As	80.1 ± 0.5 µg/mL
Barium, Ba	20.02 ± 0.12 µg/mL	Beryllium, Be	20.02 ± 0.11 µg/mL
Boron, B	30.02 ± 0.15 µg/mL	Cadmium, Cd	20.04 ± 0.09 µg/mL
Calcium, Ca	100.1 ± 0.3 µg/mL	Cerium, Ce	200.2 ± 1.0 µg/mL
Chromium, Cr	40.02 ± 0.26 µg/mL	Cobalt, Co	20.03 ± 0.09 µg/mL
Copper, Cu	30.03 ± 0.13 µg/mL	Iron, Fe	300.3 ± 1.3 µg/mL
Lead, Pb	100.1 ± 0.5 µg/mL	Lithium, Li	20.03 ± 0.09 µg/mL
Magnesium, Mg	200.2 ± 0.9 µg/mL	Manganese, Mn	19.99 ± 0.09 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.05 ± 0.22 µg/mL
Phosphorus, P	600.5 ± 2.9 µg/mL	Potassium, K	1 001 ± 4 µg/mL
Selenium, Se	200.2 ± 1.1 µg/mL	Silver, Ag	7.52 ± 0.03 µg/mL
Sodium, Na	300.3 ± 1.3 µg/mL	Strontium, Sr	20.02 ± 0.10 µg/mL
Thallium, Tl	200.2 ± 1.0 µg/mL	Vanadium, V	30.02 ± 0.13 µg/mL
Zinc, Zn	20.05 ± 0.09 µg/mL		

Density: 1.037 g/mL (measured at 20 ± 5 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 25° C to minimize the effects of transpiration. Use at 20° ± 5° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; Info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 08, 2025

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 08, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M6181
R → 7/22/28

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: WW-LFS-2
Lot Number: V2-MEB743480
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s):
200 µg/mL ea:
Silica,
80 µg/mL ea:
Antimony,
70 µg/mL ea:
Tin,
40 µg/mL ea:
Molybdenum,
20 µg/mL ea:
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.5 µg/mL	Molybdenum, Mo	40.05 ± 0.22 µg/mL
Silica, SiO ₂	200.3 ± 1.4 µg/mL	Tin, Sn	70.1 ± 0.4 µg/mL
Titanium, Ti	20.03 ± 0.12 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Sb	ICP Assay	3102a	140911
SiO ₂	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum ((w_i)^2 (u_{\text{char } i})^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 07, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 07, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Instructions for QATS Reference Material: ICP-AES ICS

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



M6182

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: ICP-AES ICS

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.



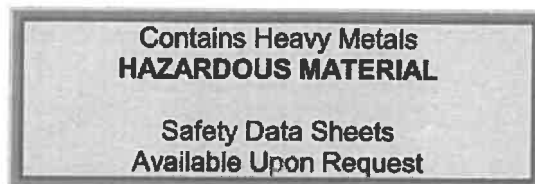
Instructions for QATS Reference Material: ICP-AES ICS

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



M6184

(A) **SAMPLE DESCRIPTION**

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) **BREAKAGE OR MISSING ITEMS**

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) **ANALYSIS OF SAMPLES**

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,





Instructions for QATS Reference Material: ICP-AES ICS

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

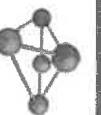
Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value $\pm$ 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value $\pm$ 15 percent of the listed certified value.



Certified Reference Material CRM

M6027



CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **062024**
Description: **Nickel (NI)**

Lot # **24002546**
Solvent: **Nitric Acid**

Formulated By: *Benson Chan*
Reviewed By: *Pedro L. Rentes*

Benson Chan

062024

Expiration Date: **062027**

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

5E-05 Balance Uncertainty

Volume shown below was diluted to (mL): **2000.07**

0.100 Flask Uncertainty

Expanded Uncertainty: **2.2**
CAS# **13478-00-7**
SDS Information: **1 mg/m3 orl-rat 1620 mg/kg 3136**

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-------------	------------	-----------------	-------------------	------------------	---------------	-----------------------	---------------------	----------------------	------	----------------	------	----------

1. Nickel(II) nitrate hexahydrate (NI) 58128 062023 0.1000 200.0 0.084 1000 10000.4 1000.0 2.2 13478-00-7 1 mg/m3 orl-rat 1620 mg/kg 3136

[1] Spectrum No.1 [9.136 sec]:58028.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M6030



CERTIFIED WEIGHT REPORT:

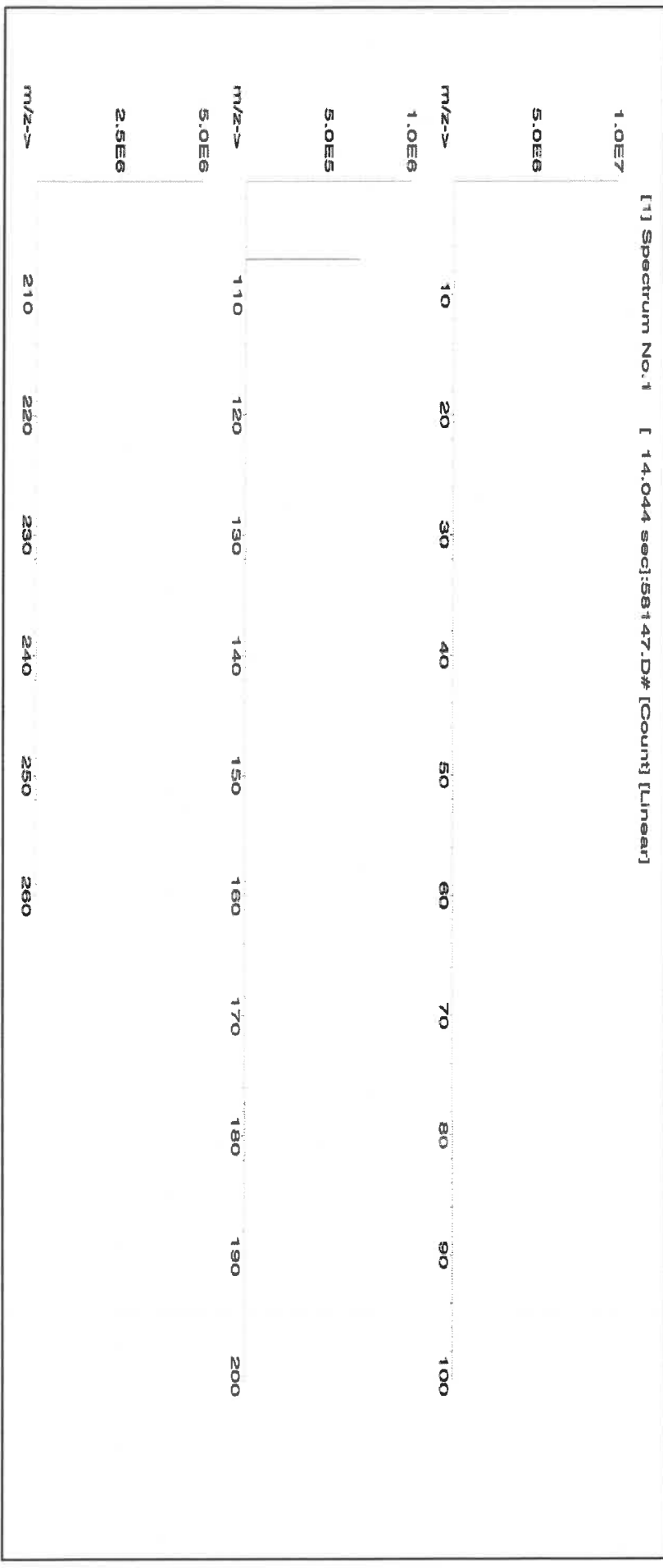
Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**
Solvent: **24002546 Nitric Acid**

Expiration Date: **122826**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Weight shown below was diluted to (mL): **4000.30**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas
122823	

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.999	0.10	63.7	6.27992	6.27998	1000.0

Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
2.0	7761-88-8	10 µg/m ³	NA	3151





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 meghm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM
R:101812A



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://Absolutestandards.com>

Part Number:

57051

Lot #	Solvent:
24002546	Nitric Acid

Solvent:
Nitric Acid

Lot Number:
Description:

071724
Antimony (Sb)

2.0%

Expiration Date:

071727

Recommended Storage: Ambient (20 °C)

Nominal Concentration ($\mu\text{g/mL}$):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 2000.26

0.058 Flask Uncertainty

Reviewed By:	
Reviewed By:	
Formulated By:	Giovanni Esposito
	071724

SDS Information

Expanded

Uncertainty

 $\pm$ ($\mu\text{g/mL}$)

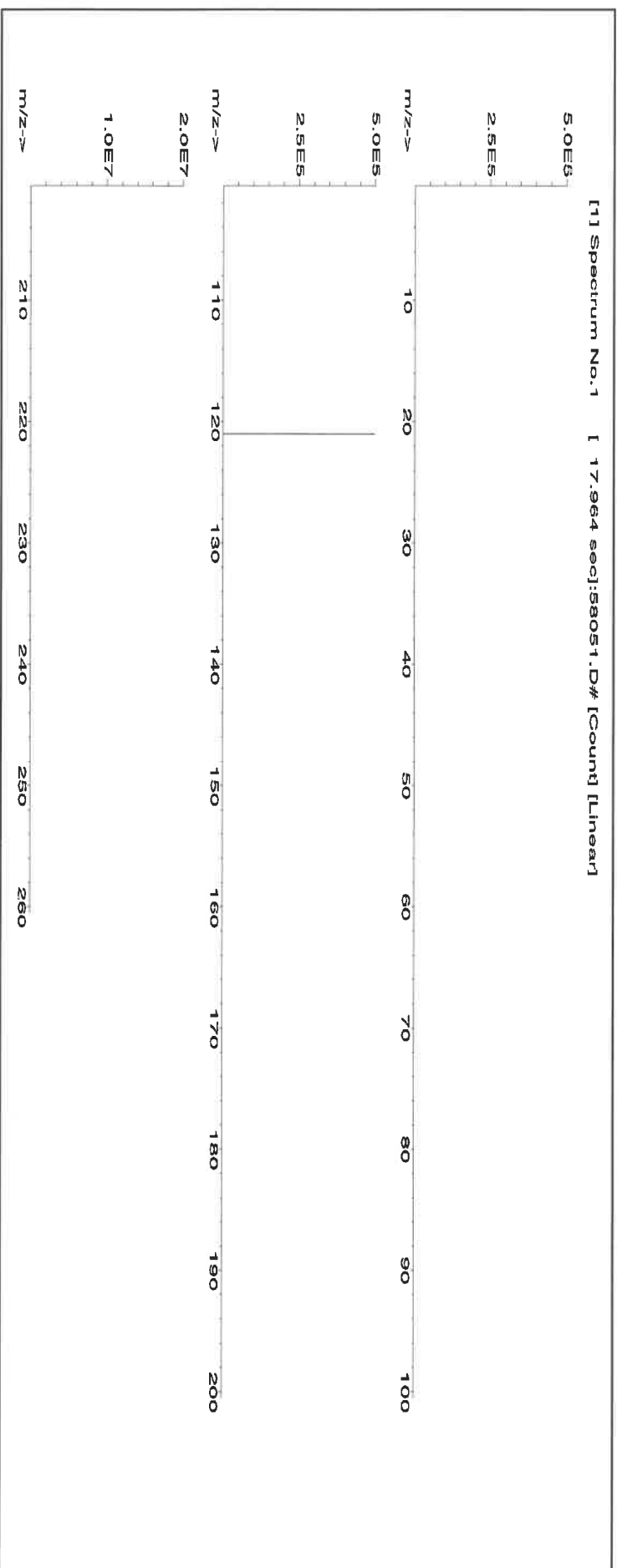
CAS#

CAS#	OSHA PEL (TWA)
10101-95-5	100
10102-95-5	100
10103-95-5	100
10104-95-5	100
10105-95-5	100
10106-95-5	100
10107-95-5	100
10108-95-5	100
10109-95-5	100
10110-95-5	100
10111-95-5	100
10112-95-5	100
10113-95-5	100
10114-95-5	100
10115-95-5	100
10116-95-5	100
10117-95-5	100
10118-95-5	100
10119-95-5	100
10120-95-5	100
10121-95-5	100
10122-95-5	100
10123-95-5	100
10124-95-5	100
10125-95-5	100
10126-95-5	100
10127-95-5	100
10128-95-5	100
10129-95-5	100
10130-95-5	100
10131-95-5	100
10132-95-5	100
10133-95-5	100
10134-95-5	100
10135-95-5	100
10136-95-5	100
10137-95-5	100
10138-95-5	100
10139-95-5	100
10140-95-5	100
10141-95-5	100
10142-95-5	100
10143-95-5	100
10144-95-5	100
10145-95-5	100
10146-95-5	100
10147-95-5	100
10148-95-5	100
10149-95-5	100
10150-95-5	100
10151-95-5	100
10152-95-5	100
10153-95-5	100
10154-95-5	100
10155-95-5	100
10156-95-5	100
10157-95-5	100
10158-95-5	100
10159-95-5	100
10160-95-5	100
10161-95-5	100
10162-95-5	100
10163-95-5	100
10164-95-5	100
10165-95-5	100
10166-95-5	100
10167-95-5	100
10168-95-5	100
10169-95-5	100
10170-95-5	100
10171-95-5	100
10172-95-5	100
10173-95-5	100
10174-95-5	100
10175-95-5	100
10176-95-5	100
10177-95-5	100
10178-95-5	100
10179-95-5	100
10180-95-5	100
10181-95-5	100
10182-95-5	100
10183-95-5	100
10184-95-5	100
10185-95-5	100
10186-95-5	100
10187-95-5	100
10188-95-5	100
10189-95-5	100
10190-95-5	100
10191-95-5	100
10192-95-5	100
10193-95-5	100
10194-95-5	100
10195-95-5	100
10196-95-5	100
10197-95-5	100
10198-95-5	100
10199-95-5	100
10200-95-5	100

LD50

SRM

1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	1000.0	2.2	7440-36-0	0.5 mg/m3	or/ rat 7000 mg/kg	3102a
------------------	-------	--------	--------	-------	-------	------	---------	---------------	------------	-----------	-----------	--------------------	-------





John P. ...



CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (TI)

Lot #

Solvent: 24002546 Nitric Acid

2% 40.0 Nitric Acid (mL)

Expiration Date:

062727

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL): 2000.1

5E-05 Balance Uncertainty
0.10 Flask Uncertainty

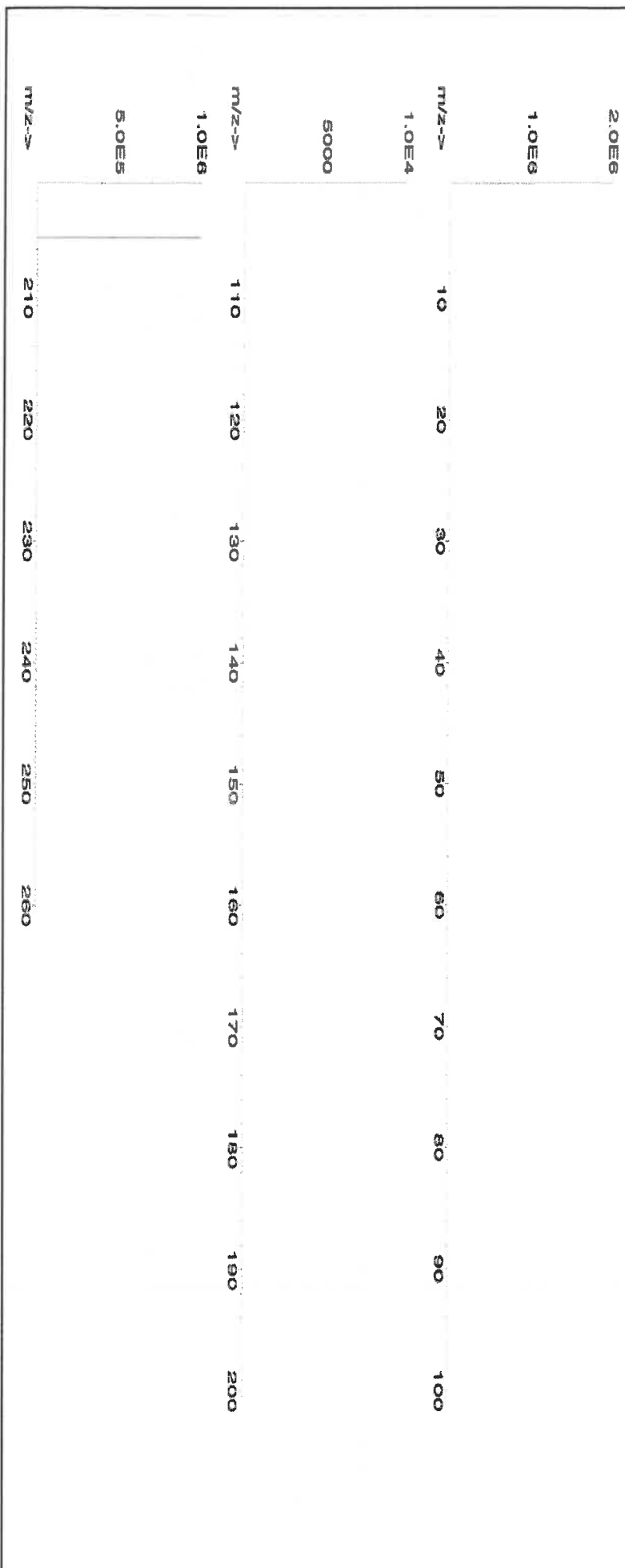
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	062724
Reviewed By:	<i>Pedro L. Renias</i>
	Pedro L. Renias
	062724

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Thallium nitrate (TI) IN037 BCCF4399 1000 99.999 0.10 77.0 2.5975 2.5977 1000.1 2.0 10102-45-1 0.1 mg/m3 orl-mus 15mg/kg 3158

[1] Spectrum No.1 [14.044 sec]:57081.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tm	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Sn	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Se	<0.02	Ta	<0.02			Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

M6021



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT:

Part Number: **57023**
Lot Number: **062424**
Description: **Vanadium (V)**

Lot # **24002546**
Solvent: **Nitric Acid**

Aleah O'Brady	
Formulated By:	Aleah O'Brady
	062424
Reviewed By:	Pedro L. Rantas
	062424

Expiration Date: **062427**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**

Volume shown below was diluted to (mL): **2000.3**
5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Volume shown below was diluted to (mL): **2000.3**

Compound		Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)		58123	021224	0.1000	200.0	0.084	1000	10000.3	1000.0	2.2	7803-55-6	0.05 mg/m3	or-at 58.1mg/kg	3165

[1] Spectrum No.1 [34.243 sec]:58023.D# [Count] [Linear]

2.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E7	m/z-->	10	20	30	40	50	60	70	80	90	100
2.0E7	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E7	m/z-->	10	20	30	40	50	60	70	80	90	100
5.0E8	m/z-->	110	120	130	140	150	160	170	180	190	200
2.5E8	m/z-->	210	220	230	240	250	260				



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)															
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ti	<0.02
														Tb	<0.02
														Te	<0.02
														Tl	<0.02
														Th	<0.02
														Tm	<0.02
														Sn	<0.02
														Ti	<0.02
														W	<0.02
														U	<0.02
														V	T
														Yb	<0.02
														Y	<0.02
														Zn	<0.02
														Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: **Gannett Fleming**
ADDRESS: **1010 Abrams Ave**
CITY: **Auburn** STATE: **PA** ZIP: **19403**
ATTENTION: **Joe Krupansky**
PHONE: **610-301-8342** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Amtrak Replacement of Southern Bridges**
PROJECT NO.: LOCATION: **Keansburg, NJ**
PROJECT MANAGER: **Joe Krupansky**
e-mail: **Gjake@bemsys.com**
PHONE: **610-301-8342** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Alliance** PO#: **284**
ADDRESS: **284 Sheffield St**
CITY: **Mountainside** STATE: **NJ** ZIP: **07092**
ATTENTION: **Yazmen Gueez** PHONE: **908-728-3998**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): **10** DAYS*
EDD: **10** DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
X EDD FORMAT **DEM EDD**

1. **TCL-Sink+25**
2. **TCL-Vol+10**
3. **PLBs**
4. **EPH**
5. **TAL Metals**
6. **TCLP Full Set**
7. **RLRA (PQ)**
8. **CRV/CCL**
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TG-S01	S		X	8/1/15	0815	9	X	X	X	X	X	X	X	X	X	
2.	TG-S02					0915	9										
3.	TG-S03					1110	9										
4.	TG-S04					1315	9										
5.	TG-S05					8/1/15	0725	9									
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 8/1/15 0910	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 1.9 C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	Comments: If Can't
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME:	RECEIVED BY: 3. [Signature]	Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2832 PORT06

Order Date : 8/12/2025 9:37:00 AM

Project Mgr :

Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 8/12/2025 9:10:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :

Hard Copy Date :

Invoice Contact : Joseph Krupansky

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2832-01	TG-S01	Solid	08/11/2025	08:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-03	TG-S02	Solid	08/11/2025	09:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-05	TG-S03	Solid	08/11/2025	11:10	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-07	TG-S04	Solid	08/11/2025	13:45	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-09	TG-S05	Solid	08/12/2025	07:25	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : af

Date / Time : 8/12/25 10:15

Received By : Sam

Date / Time : 08/12/25 10:15

Storage Area : VOA Refridgerator Room