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Fax : 908 789 8922

Cover Page

Order ID : Q3266

Project ID : MWCO CJO WTP Edison 295110

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q3266-01	ENV-3-6FT
Q3266-02	ENV-4-6FT

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: 10/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3266**

	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 Castody	✓
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: **SOHIL JODHANI** **Date:** **10/13/2025**

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LAB CHRONICLE

OrderID:	Q3266	**OrderDate:**	10/1/2025 3:15:00 PM
Client:	CDM Smith	**Project:**	MWCO CJO WTP Edison 295110
Contact:	Marcie Ann Encinas	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3266-01	**ENV-3-6FT**	**SOIL**			**10/01/25**			**10/01/25**
			Mercury	7471B		10/02/25	10/03/25	
			Metals ICP-TAL	6010D		10/02/25	10/03/25	
Q3266-02	**ENV-4-6FT**	**SOIL**			**10/01/25**			**10/01/25**
			Mercury	7471B		10/02/25	10/03/25	
			Metals ICP-TAL	6010D		10/02/25	10/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3266 **Order ID:** Q3266

Client: CDM Smith **Project ID:** MWCO CJO WTP Edison 295110

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ENV-3-6FT								
Q3266-01	ENV-3-6FT	SOIL	Aluminum	14800		0.86	5.12	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Arsenic	9.51		0.20	1.02	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Barium	162		0.75	5.12	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Beryllium	0.78		0.026	0.31	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Cadmium	0.66		0.025	0.31	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Calcium	2430		11.4	102	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Chromium	24.5		0.048	0.51	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Cobalt	20.2		0.10	1.54	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Copper	60.1		0.23	1.02	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Iron	37400		4.09	5.12	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Lead	39.9		0.13	0.62	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Magnesium	5970		12.3	102	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Manganese	1410		0.14	1.02	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Mercury	0.028		0.010	0.017	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Nickel	34.8		0.13	2.05	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Potassium	1560		28.4	102	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Selenium	0.78	J	0.27	1.02	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Silver	1.23		0.12	0.51	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Sodium	198		18.2	102	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Vanadium	41.1		0.26	2.05	mg/Kg
Q3266-01	ENV-3-6FT	SOIL	Zinc	85.1		0.24	2.05	mg/Kg
Client ID : ENV-4-6FT								
Q3266-02	ENV-4-6FT	SOIL	Aluminum	13900		0.89	5.32	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Arsenic	8.06		0.20	1.06	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Barium	135		0.78	5.32	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Beryllium	1.43		0.027	0.32	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Cadmium	0.97		0.026	0.32	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Calcium	3060		11.8	106	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Chromium	23.9		0.050	0.53	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Cobalt	17.4		0.11	1.60	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Copper	53.1		0.23	1.06	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Iron	30600		4.25	5.32	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Lead	46.3		0.14	0.64	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Magnesium	6250		12.8	106	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Manganese	1210		0.15	1.06	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Mercury	0.080		0.0090	0.016	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Nickel	31.8		0.14	2.13	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q3266 **Order ID:** Q3266

Client: CDM Smith **Project ID:** MWCO CJO WTP Edison 295110

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3266-02	ENV-4-6FT	SOIL	Potassium	1780		29.5	106	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Selenium	0.81	J	0.28	1.06	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Silver	1.01		0.13	0.53	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Sodium	86.8	J	18.9	106	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Vanadium	35.7		0.27	2.13	mg/Kg
Q3266-02	ENV-4-6FT	SOIL	Zinc	87.7		0.25	2.13	mg/Kg

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SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	10/01/25
Project:	MWCO CJO WTP Edison 295110	Date Received:	10/01/25
Client Sample ID:	ENV-3-6FT	SDG No.:	Q3266
Lab Sample ID:	Q3266-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	14800		1	0.86	5.12	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.56	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-38-2	Arsenic	9.51		1	0.20	1.02	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-39-3	Barium	162		1	0.75	5.12	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-41-7	Beryllium	0.78		1	0.026	0.31	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-43-9	Cadmium	0.66		1	0.025	0.31	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-70-2	Calcium	2430		1	11.4	102	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-47-3	Chromium	24.5	N	1	0.048	0.51	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-48-4	Cobalt	20.2	N	1	0.10	1.54	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-50-8	Copper	60.1	N	1	0.23	1.02	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7439-89-6	Iron	37400		1	4.09	5.12	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7439-92-1	Lead	39.9		1	0.13	0.62	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7439-95-4	Magnesium	5970		1	12.3	102	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7439-96-5	Manganese	1410		1	0.14	1.02	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7439-97-6	Mercury	0.028		1	0.010	0.017	mg/Kg	10/02/25 15:10	10/03/25 09:18	7471B	
7440-02-0	Nickel	34.8	N	1	0.13	2.05	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-09-7	Potassium	1560	N	1	28.4	102	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7782-49-2	Selenium	0.78	J	1	0.27	1.02	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-22-4	Silver	1.23		1	0.12	0.51	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-23-5	Sodium	198		1	18.2	102	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.05	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-62-2	Vanadium	41.1	N	1	0.26	2.05	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050
7440-66-6	Zinc	85.1		1	0.24	2.05	mg/Kg	10/02/25 10:15	10/03/25 16:29	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
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

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Report of Analysis

Client:	CDM Smith	Date Collected:	10/01/25
Project:	MWCO CJO WTP Edison 295110	Date Received:	10/01/25
Client Sample ID:	ENV-4-6FT	SDG No.:	Q3266
Lab Sample ID:	Q3266-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13900		1	0.89	5.32	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.66	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-38-2	Arsenic	8.06		1	0.20	1.06	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-39-3	Barium	135		1	0.78	5.32	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-41-7	Beryllium	1.43		1	0.027	0.32	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-43-9	Cadmium	0.97		1	0.026	0.32	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-70-2	Calcium	3060		1	11.8	106	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-47-3	Chromium	23.9	N	1	0.050	0.53	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-48-4	Cobalt	17.4	N	1	0.11	1.60	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-50-8	Copper	53.1	N	1	0.23	1.06	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7439-89-6	Iron	30600		1	4.25	5.32	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7439-92-1	Lead	46.3		1	0.14	0.64	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7439-95-4	Magnesium	6250		1	12.8	106	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7439-96-5	Manganese	1210		1	0.15	1.06	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7439-97-6	Mercury	0.080		1	0.0090	0.016	mg/Kg	10/02/25 15:10	10/03/25 09:26	7471B	
7440-02-0	Nickel	31.8	N	1	0.14	2.13	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-09-7	Potassium	1780	N	1	29.5	106	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7782-49-2	Selenium	0.81	J	1	0.28	1.06	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-22-4	Silver	1.01		1	0.13	0.53	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-23-5	Sodium	86.8	J	1	18.9	106	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-62-2	Vanadium	35.7	N	1	0.27	2.13	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050
7440-66-6	Zinc	87.7		1	0.25	2.13	mg/Kg	10/02/25 10:15	10/07/25 16:13	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
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

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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
ICV56	Mercury	3.85	4.0	96	90 - 110	CV	10/03/2025	08:42	LB137397

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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
CCV75	Mercury	4.99	5.0	100	90 - 110	CV	10/03/2025	08:47	LB137397
CCV76	Mercury	5.02	5.0	100	90 - 110	CV	10/03/2025	09:21	LB137397
CCV77	Mercury	4.85	5.0	97	90 - 110	CV	10/03/2025	09:38	LB137397

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	7850	8000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Antimony	4030	4000	101	95 - 105	P	10/03/2025	12:18	LB137426
	Arsenic	3940	4000	99	95 - 105	P	10/03/2025	12:18	LB137426
	Barium	7900	8000	99	95 - 105	P	10/03/2025	12:18	LB137426
	Beryllium	199	200	100	95 - 105	P	10/03/2025	12:18	LB137426
	Cadmium	1950	2000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Calcium	19600	20000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Chromium	799	800	100	95 - 105	P	10/03/2025	12:18	LB137426
	Cobalt	1950	2000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Copper	1010	1000	101	95 - 105	P	10/03/2025	12:18	LB137426
	Iron	3950	4000	99	95 - 105	P	10/03/2025	12:18	LB137426
	Lead	3840	4000	96	95 - 105	P	10/03/2025	12:18	LB137426
	Magnesium	19600	20000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Manganese	1980	2000	99	95 - 105	P	10/03/2025	12:18	LB137426
	Nickel	1960	2000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Potassium	19400	20000	97	95 - 105	P	10/03/2025	12:18	LB137426
	Selenium	3960	4000	99	95 - 105	P	10/03/2025	12:18	LB137426
	Silver	960	1000	96	95 - 105	P	10/03/2025	12:18	LB137426
	Sodium	19300	20000	97	95 - 105	P	10/03/2025	12:18	LB137426
	Thallium	3750	4000	94	95 - 105	P	10/03/2025	12:18	LB137426
	Vanadium	1960	2000	98	95 - 105	P	10/03/2025	12:18	LB137426
	Zinc	1980	2000	99	95 - 105	P	10/03/2025	12:18	LB137426

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	114	100	114	80 - 120	P	10/03/2025	13:05	LB137426
	Antimony	53.8	50.0	108	80 - 120	P	10/03/2025	13:05	LB137426
	Arsenic	22.0	20.0	110	80 - 120	P	10/03/2025	13:05	LB137426
	Barium	99.1	100	99	80 - 120	P	10/03/2025	13:05	LB137426
	Beryllium	6.51	6.0	108	80 - 120	P	10/03/2025	13:05	LB137426
	Cadmium	6.05	6.0	101	80 - 120	P	10/03/2025	13:05	LB137426
	Calcium	2060	2000	103	80 - 120	P	10/03/2025	13:05	LB137426
	Chromium	10.4	10.0	104	80 - 120	P	10/03/2025	13:05	LB137426
	Cobalt	30.1	30.0	100	80 - 120	P	10/03/2025	13:05	LB137426
	Copper	21.3	20.0	107	80 - 120	P	10/03/2025	13:05	LB137426
	Iron	92.9	100	93	80 - 120	P	10/03/2025	13:05	LB137426
	Lead	12.8	12.0	107	80 - 120	P	10/03/2025	13:05	LB137426
	Magnesium	2160	2000	108	80 - 120	P	10/03/2025	13:05	LB137426
	Manganese	21.2	20.0	106	80 - 120	P	10/03/2025	13:05	LB137426
	Nickel	41.3	40.0	103	80 - 120	P	10/03/2025	13:05	LB137426
	Potassium	1960	2000	98	80 - 120	P	10/03/2025	13:05	LB137426
	Selenium	19.3	20.0	96	80 - 120	P	10/03/2025	13:05	LB137426
	Silver	10.2	10.0	102	80 - 120	P	10/03/2025	13:05	LB137426
	Sodium	1990	2000	100	80 - 120	P	10/03/2025	13:05	LB137426
	Thallium	41.8	40.0	104	80 - 120	P	10/03/2025	13:05	LB137426
	Vanadium	39.2	40.0	98	80 - 120	P	10/03/2025	13:05	LB137426
	Zinc	42.4	40.0	106	80 - 120	P	10/03/2025	13:05	LB137426

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	9960	10000	100	90 - 110	P	10/03/2025	13:37	LB137426
	Antimony	5040	5000	101	90 - 110	P	10/03/2025	13:37	LB137426
	Arsenic	5030	5000	100	90 - 110	P	10/03/2025	13:37	LB137426
	Barium	10000	10000	100	90 - 110	P	10/03/2025	13:37	LB137426
	Beryllium	247	250	99	90 - 110	P	10/03/2025	13:37	LB137426
	Cadmium	2490	2500	100	90 - 110	P	10/03/2025	13:37	LB137426
	Calcium	24800	25000	99	90 - 110	P	10/03/2025	13:37	LB137426
	Chromium	989	1000	99	90 - 110	P	10/03/2025	13:37	LB137426
	Cobalt	2480	2500	99	90 - 110	P	10/03/2025	13:37	LB137426
	Copper	1260	1250	101	90 - 110	P	10/03/2025	13:37	LB137426
	Iron	4900	5000	98	90 - 110	P	10/03/2025	13:37	LB137426
	Lead	4940	5000	99	90 - 110	P	10/03/2025	13:37	LB137426
	Magnesium	24700	25000	99	90 - 110	P	10/03/2025	13:37	LB137426
	Manganese	2500	2500	100	90 - 110	P	10/03/2025	13:37	LB137426
	Nickel	2490	2500	100	90 - 110	P	10/03/2025	13:37	LB137426
	Potassium	24200	25000	97	90 - 110	P	10/03/2025	13:37	LB137426
	Selenium	5050	5000	101	90 - 110	P	10/03/2025	13:37	LB137426
	Silver	1230	1250	98	90 - 110	P	10/03/2025	13:37	LB137426
	Sodium	24400	25000	97	90 - 110	P	10/03/2025	13:37	LB137426
	Thallium	4650	5000	93	90 - 110	P	10/03/2025	13:37	LB137426
	Vanadium	2480	2500	99	90 - 110	P	10/03/2025	13:37	LB137426
	Zinc	2480	2500	99	90 - 110	P	10/03/2025	13:37	LB137426
CCV02	Aluminum	9920	10000	99	90 - 110	P	10/03/2025	15:00	LB137426
	Antimony	4990	5000	100	90 - 110	P	10/03/2025	15:00	LB137426
	Arsenic	4990	5000	100	90 - 110	P	10/03/2025	15:00	LB137426
	Barium	9880	10000	99	90 - 110	P	10/03/2025	15:00	LB137426
	Beryllium	244	250	98	90 - 110	P	10/03/2025	15:00	LB137426
	Cadmium	2460	2500	98	90 - 110	P	10/03/2025	15:00	LB137426
	Calcium	24700	25000	99	90 - 110	P	10/03/2025	15:00	LB137426
	Chromium	984	1000	98	90 - 110	P	10/03/2025	15:00	LB137426
	Cobalt	2450	2500	98	90 - 110	P	10/03/2025	15:00	LB137426
	Copper	1240	1250	99	90 - 110	P	10/03/2025	15:00	LB137426
	Iron	4860	5000	97	90 - 110	P	10/03/2025	15:00	LB137426
	Lead	4890	5000	98	90 - 110	P	10/03/2025	15:00	LB137426

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/03/2025	15:00	LB137426
	Manganese	2440	2500	98	90 - 110	P	10/03/2025	15:00	LB137426
	Nickel	2450	2500	98	90 - 110	P	10/03/2025	15:00	LB137426
	Potassium	24400	25000	98	90 - 110	P	10/03/2025	15:00	LB137426
	Selenium	5040	5000	101	90 - 110	P	10/03/2025	15:00	LB137426
	Silver	1230	1250	98	90 - 110	P	10/03/2025	15:00	LB137426
	Sodium	24300	25000	97	90 - 110	P	10/03/2025	15:00	LB137426
	Thallium	4580	5000	92	90 - 110	P	10/03/2025	15:00	LB137426
	Vanadium	2470	2500	99	90 - 110	P	10/03/2025	15:00	LB137426
	Zinc	2450	2500	98	90 - 110	P	10/03/2025	15:00	LB137426
CCV03	Aluminum	9680	10000	97	90 - 110	P	10/03/2025	15:51	LB137426
	Antimony	5140	5000	103	90 - 110	P	10/03/2025	15:51	LB137426
	Arsenic	5080	5000	102	90 - 110	P	10/03/2025	15:51	LB137426
	Barium	10000	10000	100	90 - 110	P	10/03/2025	15:51	LB137426
	Beryllium	239	250	96	90 - 110	P	10/03/2025	15:51	LB137426
	Cadmium	2440	2500	98	90 - 110	P	10/03/2025	15:51	LB137426
	Calcium	24200	25000	97	90 - 110	P	10/03/2025	15:51	LB137426
	Chromium	972	1000	97	90 - 110	P	10/03/2025	15:51	LB137426
	Cobalt	2450	2500	98	90 - 110	P	10/03/2025	15:51	LB137426
	Copper	1250	1250	100	90 - 110	P	10/03/2025	15:51	LB137426
	Iron	5230	5000	105	90 - 110	P	10/03/2025	15:51	LB137426
	Lead	4860	5000	97	90 - 110	P	10/03/2025	15:51	LB137426
	Magnesium	23500	25000	94	90 - 110	P	10/03/2025	15:51	LB137426
	Manganese	2420	2500	97	90 - 110	P	10/03/2025	15:51	LB137426
	Nickel	2450	2500	98	90 - 110	P	10/03/2025	15:51	LB137426
	Potassium	25700	25000	103	90 - 110	P	10/03/2025	15:51	LB137426
	Selenium	5170	5000	103	90 - 110	P	10/03/2025	15:51	LB137426
	Silver	1240	1250	99	90 - 110	P	10/03/2025	15:51	LB137426
	Sodium	27300	25000	109	90 - 110	P	10/03/2025	15:51	LB137426
	Thallium	5250	5000	105	90 - 110	P	10/03/2025	15:51	LB137426
	Vanadium	2450	2500	98	90 - 110	P	10/03/2025	15:51	LB137426
	Zinc	2490	2500	100	90 - 110	P	10/03/2025	15:51	LB137426
CCV04	Aluminum	9420	10000	94	90 - 110	P	10/03/2025	16:45	LB137426
	Antimony	5020	5000	100	90 - 110	P	10/03/2025	16:45	LB137426

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	4930	5000	99	90 - 110	P	10/03/2025	16:45	LB137426
	Barium	9780	10000	98	90 - 110	P	10/03/2025	16:45	LB137426
	Beryllium	234	250	93	90 - 110	P	10/03/2025	16:45	LB137426
	Cadmium	2360	2500	94	90 - 110	P	10/03/2025	16:45	LB137426
	Calcium	23600	25000	94	90 - 110	P	10/03/2025	16:45	LB137426
	Chromium	938	1000	94	90 - 110	P	10/03/2025	16:45	LB137426
	Cobalt	2370	2500	95	90 - 110	P	10/03/2025	16:45	LB137426
	Copper	1210	1250	97	90 - 110	P	10/03/2025	16:45	LB137426
	Iron	5120	5000	102	90 - 110	P	10/03/2025	16:45	LB137426
	Lead	4700	5000	94	90 - 110	P	10/03/2025	16:45	LB137426
	Magnesium	22700	25000	91	90 - 110	P	10/03/2025	16:45	LB137426
	Manganese	2370	2500	95	90 - 110	P	10/03/2025	16:45	LB137426
	Nickel	2370	2500	95	90 - 110	P	10/03/2025	16:45	LB137426
	Potassium	24100	25000	96	90 - 110	P	10/03/2025	16:45	LB137426
	Selenium	5060	5000	101	90 - 110	P	10/03/2025	16:45	LB137426
	Silver	1210	1250	97	90 - 110	P	10/03/2025	16:45	LB137426
	Sodium	25400	25000	102	90 - 110	P	10/03/2025	16:45	LB137426
	Thallium	5250	5000	105	90 - 110	P	10/03/2025	16:45	LB137426
	Vanadium	2390	2500	96	90 - 110	P	10/03/2025	16:45	LB137426
	Zinc	2420	2500	97	90 - 110	P	10/03/2025	16:45	LB137426

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	7920	8000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Antimony	4110	4000	103	95 - 105	P	10/07/2025	10:54	LB137447
	Arsenic	4000	4000	100	95 - 105	P	10/07/2025	10:54	LB137447
	Barium	7940	8000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Beryllium	201	200	100	95 - 105	P	10/07/2025	10:54	LB137447
	Cadmium	1980	2000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Calcium	19900	20000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Chromium	817	800	102	95 - 105	P	10/07/2025	10:54	LB137447
	Cobalt	1980	2000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Copper	1020	1000	102	95 - 105	P	10/07/2025	10:54	LB137447
	Iron	4130	4000	103	95 - 105	P	10/07/2025	10:54	LB137447
	Lead	3890	4000	97	95 - 105	P	10/07/2025	10:54	LB137447
	Magnesium	19900	20000	100	95 - 105	P	10/07/2025	10:54	LB137447
	Manganese	1990	2000	100	95 - 105	P	10/07/2025	10:54	LB137447
	Nickel	1980	2000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Potassium	20200	20000	101	95 - 105	P	10/07/2025	10:54	LB137447
	Selenium	4000	4000	100	95 - 105	P	10/07/2025	10:54	LB137447
	Silver	1030	1000	103	95 - 105	P	10/07/2025	10:54	LB137447
	Sodium	20100	20000	100	95 - 105	P	10/07/2025	10:54	LB137447
	Thallium	3720	4000	93	95 - 105	P	10/07/2025	10:54	LB137447
	Vanadium	1980	2000	99	95 - 105	P	10/07/2025	10:54	LB137447
	Zinc	2020	2000	101	95 - 105	P	10/07/2025	10:54	LB137447

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	92.2	100	92	80 - 120	P	10/07/2025	12:01	LB137447
	Antimony	49.4	50.0	99	80 - 120	P	10/07/2025	12:01	LB137447
	Arsenic	18.4	20.0	92	80 - 120	P	10/07/2025	12:01	LB137447
	Barium	95.7	100	96	80 - 120	P	10/07/2025	12:01	LB137447
	Beryllium	6.20	6.0	103	80 - 120	P	10/07/2025	12:01	LB137447
	Cadmium	5.85	6.0	98	80 - 120	P	10/07/2025	12:01	LB137447
	Calcium	2020	2000	101	80 - 120	P	10/07/2025	12:01	LB137447
	Chromium	9.65	10.0	96	80 - 120	P	10/07/2025	12:01	LB137447
	Cobalt	29.0	30.0	97	80 - 120	P	10/07/2025	12:01	LB137447
	Copper	21.9	20.0	110	80 - 120	P	10/07/2025	12:01	LB137447
	Iron	119	100	119	80 - 120	P	10/07/2025	12:01	LB137447
	Lead	11.1	12.0	93	80 - 120	P	10/07/2025	12:01	LB137447
	Magnesium	2070	2000	104	80 - 120	P	10/07/2025	12:01	LB137447
	Manganese	20.8	20.0	104	80 - 120	P	10/07/2025	12:01	LB137447
	Nickel	39.6	40.0	99	80 - 120	P	10/07/2025	12:01	LB137447
	Potassium	1910	2000	95	80 - 120	P	10/07/2025	12:01	LB137447
	Selenium	23.6	20.0	118	80 - 120	P	10/07/2025	12:01	LB137447
	Silver	9.88	10.0	99	80 - 120	P	10/07/2025	12:01	LB137447
	Sodium	1890	2000	94	80 - 120	P	10/07/2025	12:01	LB137447
	Thallium	43.0	40.0	107	80 - 120	P	10/07/2025	12:01	LB137447
	Vanadium	37.3	40.0	93	80 - 120	P	10/07/2025	12:01	LB137447
	Zinc	36.9	40.0	92	80 - 120	P	10/07/2025	12:01	LB137447

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	12:50	LB137447
	Antimony	5050	5000	101	90 - 110	P	10/07/2025	12:50	LB137447
	Arsenic	5080	5000	102	90 - 110	P	10/07/2025	12:50	LB137447
	Barium	9980	10000	100	90 - 110	P	10/07/2025	12:50	LB137447
	Beryllium	252	250	101	90 - 110	P	10/07/2025	12:50	LB137447
	Cadmium	2510	2500	100	90 - 110	P	10/07/2025	12:50	LB137447
	Calcium	25200	25000	101	90 - 110	P	10/07/2025	12:50	LB137447
	Chromium	1030	1000	103	90 - 110	P	10/07/2025	12:50	LB137447
	Cobalt	2490	2500	100	90 - 110	P	10/07/2025	12:50	LB137447
	Copper	1270	1250	101	90 - 110	P	10/07/2025	12:50	LB137447
	Iron	5200	5000	104	90 - 110	P	10/07/2025	12:50	LB137447
	Lead	4980	5000	100	90 - 110	P	10/07/2025	12:50	LB137447
	Magnesium	25200	25000	101	90 - 110	P	10/07/2025	12:50	LB137447
	Manganese	2490	2500	100	90 - 110	P	10/07/2025	12:50	LB137447
	Nickel	2490	2500	100	90 - 110	P	10/07/2025	12:50	LB137447
	Potassium	25500	25000	102	90 - 110	P	10/07/2025	12:50	LB137447
	Selenium	5150	5000	103	90 - 110	P	10/07/2025	12:50	LB137447
	Silver	1280	1250	103	90 - 110	P	10/07/2025	12:50	LB137447
	Sodium	25600	25000	102	90 - 110	P	10/07/2025	12:50	LB137447
	Thallium	4870	5000	97	90 - 110	P	10/07/2025	12:50	LB137447
	Vanadium	2520	2500	101	90 - 110	P	10/07/2025	12:50	LB137447
	Zinc	2600	2500	104	90 - 110	P	10/07/2025	12:50	LB137447
CCV02	Aluminum	9930	10000	99	90 - 110	P	10/07/2025	14:19	LB137447
	Antimony	5050	5000	101	90 - 110	P	10/07/2025	14:19	LB137447
	Arsenic	5080	5000	102	90 - 110	P	10/07/2025	14:19	LB137447
	Barium	9770	10000	98	90 - 110	P	10/07/2025	14:19	LB137447
	Beryllium	250	250	100	90 - 110	P	10/07/2025	14:19	LB137447
	Cadmium	2510	2500	100	90 - 110	P	10/07/2025	14:19	LB137447
	Calcium	24900	25000	100	90 - 110	P	10/07/2025	14:19	LB137447
	Chromium	1030	1000	103	90 - 110	P	10/07/2025	14:19	LB137447
	Cobalt	2480	2500	99	90 - 110	P	10/07/2025	14:19	LB137447
	Copper	1260	1250	101	90 - 110	P	10/07/2025	14:19	LB137447
	Iron	5340	5000	107	90 - 110	P	10/07/2025	14:19	LB137447
	Lead	4960	5000	99	90 - 110	P	10/07/2025	14:19	LB137447

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	24900	25000	100	90 - 110	P	10/07/2025	14:19	LB137447
	Manganese	2480	2500	99	90 - 110	P	10/07/2025	14:19	LB137447
	Nickel	2490	2500	100	90 - 110	P	10/07/2025	14:19	LB137447
	Potassium	26100	25000	104	90 - 110	P	10/07/2025	14:19	LB137447
	Selenium	5190	5000	104	90 - 110	P	10/07/2025	14:19	LB137447
	Silver	1290	1250	103	90 - 110	P	10/07/2025	14:19	LB137447
	Sodium	25000	25000	100	90 - 110	P	10/07/2025	14:19	LB137447
	Thallium	5200	5000	104	90 - 110	P	10/07/2025	14:19	LB137447
	Vanadium	2500	2500	100	90 - 110	P	10/07/2025	14:19	LB137447
	Zinc	2600	2500	104	90 - 110	P	10/07/2025	14:19	LB137447
CCV03	Aluminum	10000	10000	100	90 - 110	P	10/07/2025	15:08	LB137447
	Antimony	4960	5000	99	90 - 110	P	10/07/2025	15:08	LB137447
	Arsenic	4970	5000	99	90 - 110	P	10/07/2025	15:08	LB137447
	Barium	9860	10000	99	90 - 110	P	10/07/2025	15:08	LB137447
	Beryllium	253	250	101	90 - 110	P	10/07/2025	15:08	LB137447
	Cadmium	2440	2500	98	90 - 110	P	10/07/2025	15:08	LB137447
	Calcium	25100	25000	100	90 - 110	P	10/07/2025	15:08	LB137447
	Chromium	1010	1000	101	90 - 110	P	10/07/2025	15:08	LB137447
	Cobalt	2420	2500	97	90 - 110	P	10/07/2025	15:08	LB137447
	Copper	1240	1250	99	90 - 110	P	10/07/2025	15:08	LB137447
	Iron	5120	5000	102	90 - 110	P	10/07/2025	15:08	LB137447
	Lead	4840	5000	97	90 - 110	P	10/07/2025	15:08	LB137447
	Magnesium	25100	25000	101	90 - 110	P	10/07/2025	15:08	LB137447
	Manganese	2510	2500	100	90 - 110	P	10/07/2025	15:08	LB137447
	Nickel	2430	2500	97	90 - 110	P	10/07/2025	15:08	LB137447
	Potassium	24200	25000	97	90 - 110	P	10/07/2025	15:08	LB137447
	Selenium	5070	5000	101	90 - 110	P	10/07/2025	15:08	LB137447
	Silver	1250	1250	100	90 - 110	P	10/07/2025	15:08	LB137447
	Sodium	23700	25000	95	90 - 110	P	10/07/2025	15:08	LB137447
	Thallium	4850	5000	97	90 - 110	P	10/07/2025	15:08	LB137447
	Vanadium	2540	2500	102	90 - 110	P	10/07/2025	15:08	LB137447
	Zinc	2520	2500	101	90 - 110	P	10/07/2025	15:08	LB137447
CCV04	Aluminum	9980	10000	100	90 - 110	P	10/07/2025	16:00	LB137447
	Antimony	5080	5000	102	90 - 110	P	10/07/2025	16:00	LB137447

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	16:00	LB137447
	Barium	9920	10000	99	90 - 110	P	10/07/2025	16:00	LB137447
	Beryllium	254	250	102	90 - 110	P	10/07/2025	16:00	LB137447
	Cadmium	2490	2500	100	90 - 110	P	10/07/2025	16:00	LB137447
	Calcium	25100	25000	100	90 - 110	P	10/07/2025	16:00	LB137447
	Chromium	1020	1000	102	90 - 110	P	10/07/2025	16:00	LB137447
	Cobalt	2480	2500	99	90 - 110	P	10/07/2025	16:00	LB137447
	Copper	1260	1250	101	90 - 110	P	10/07/2025	16:00	LB137447
	Iron	5080	5000	102	90 - 110	P	10/07/2025	16:00	LB137447
	Lead	4950	5000	99	90 - 110	P	10/07/2025	16:00	LB137447
	Magnesium	25200	25000	101	90 - 110	P	10/07/2025	16:00	LB137447
	Manganese	2530	2500	101	90 - 110	P	10/07/2025	16:00	LB137447
	Nickel	2480	2500	99	90 - 110	P	10/07/2025	16:00	LB137447
	Potassium	24300	25000	97	90 - 110	P	10/07/2025	16:00	LB137447
	Selenium	5180	5000	104	90 - 110	P	10/07/2025	16:00	LB137447
	Silver	1260	1250	101	90 - 110	P	10/07/2025	16:00	LB137447
	Sodium	23700	25000	95	90 - 110	P	10/07/2025	16:00	LB137447
	Thallium	5000	5000	100	90 - 110	P	10/07/2025	16:00	LB137447
	Vanadium	2540	2500	102	90 - 110	P	10/07/2025	16:00	LB137447
	Zinc	2550	2500	102	90 - 110	P	10/07/2025	16:00	LB137447
CCV05	Aluminum	9820	10000	98	90 - 110	P	10/07/2025	16:50	LB137447
	Antimony	4960	5000	99	90 - 110	P	10/07/2025	16:50	LB137447
	Arsenic	5000	5000	100	90 - 110	P	10/07/2025	16:50	LB137447
	Barium	9540	10000	95	90 - 110	P	10/07/2025	16:50	LB137447
	Beryllium	245	250	98	90 - 110	P	10/07/2025	16:50	LB137447
	Cadmium	2480	2500	99	90 - 110	P	10/07/2025	16:50	LB137447
	Calcium	24500	25000	98	90 - 110	P	10/07/2025	16:50	LB137447
	Chromium	1030	1000	103	90 - 110	P	10/07/2025	16:50	LB137447
	Cobalt	2450	2500	98	90 - 110	P	10/07/2025	16:50	LB137447
	Copper	1250	1250	100	90 - 110	P	10/07/2025	16:50	LB137447
	Iron	5320	5000	106	90 - 110	P	10/07/2025	16:50	LB137447
	Lead	4890	5000	98	90 - 110	P	10/07/2025	16:50	LB137447
	Magnesium	24700	25000	99	90 - 110	P	10/07/2025	16:50	LB137447
	Manganese	2430	2500	97	90 - 110	P	10/07/2025	16:50	LB137447

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	2460	2500	98	90 - 110	P	10/07/2025	16:50	LB137447
	Potassium	26200	25000	105	90 - 110	P	10/07/2025	16:50	LB137447
	Selenium	5090	5000	102	90 - 110	P	10/07/2025	16:50	LB137447
	Silver	1280	1250	103	90 - 110	P	10/07/2025	16:50	LB137447
	Sodium	26000	25000	104	90 - 110	P	10/07/2025	16:50	LB137447
	Thallium	5150	5000	103	90 - 110	P	10/07/2025	16:50	LB137447
	Vanadium	2490	2500	99	90 - 110	P	10/07/2025	16:50	LB137447
	Zinc	2620	2500	105	90 - 110	P	10/07/2025	16:50	LB137447
CCV06	Aluminum	9870	10000	99	90 - 110	P	10/07/2025	17:49	LB137447
	Antimony	5030	5000	100	90 - 110	P	10/07/2025	17:49	LB137447
	Arsenic	5040	5000	101	90 - 110	P	10/07/2025	17:49	LB137447
	Barium	9460	10000	95	90 - 110	P	10/07/2025	17:49	LB137447
	Beryllium	244	250	98	90 - 110	P	10/07/2025	17:49	LB137447
	Cadmium	2460	2500	98	90 - 110	P	10/07/2025	17:49	LB137447
	Calcium	24400	25000	98	90 - 110	P	10/07/2025	17:49	LB137447
	Chromium	1000	1000	100	90 - 110	P	10/07/2025	17:49	LB137447
	Cobalt	2440	2500	98	90 - 110	P	10/07/2025	17:49	LB137447
	Copper	1250	1250	100	90 - 110	P	10/07/2025	17:49	LB137447
	Iron	4840	5000	97	90 - 110	P	10/07/2025	17:49	LB137447
	Lead	4880	5000	98	90 - 110	P	10/07/2025	17:49	LB137447
	Magnesium	24700	25000	99	90 - 110	P	10/07/2025	17:49	LB137447
	Manganese	2420	2500	97	90 - 110	P	10/07/2025	17:49	LB137447
	Nickel	2450	2500	98	90 - 110	P	10/07/2025	17:49	LB137447
	Potassium	25200	25000	101	90 - 110	P	10/07/2025	17:49	LB137447
	Selenium	5150	5000	103	90 - 110	P	10/07/2025	17:49	LB137447
	Silver	1230	1250	98	90 - 110	P	10/07/2025	17:49	LB137447
	Sodium	23800	25000	95	90 - 110	P	10/07/2025	17:49	LB137447
	Thallium	4750	5000	95	90 - 110	P	10/07/2025	17:49	LB137447
	Vanadium	2460	2500	98	90 - 110	P	10/07/2025	17:49	LB137447
	Zinc	2480	2500	99	90 - 110	P	10/07/2025	17:49	LB137447
CCV07	Aluminum	9840	10000	98	90 - 110	P	10/07/2025	18:44	LB137447
	Antimony	5100	5000	102	90 - 110	P	10/07/2025	18:44	LB137447
	Arsenic	5120	5000	102	90 - 110	P	10/07/2025	18:44	LB137447
	Barium	9570	10000	96	90 - 110	P	10/07/2025	18:44	LB137447

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	244	250	98	90 - 110	P	10/07/2025	18:44	LB137447
	Cadmium	2470	2500	99	90 - 110	P	10/07/2025	18:44	LB137447
	Calcium	24400	25000	98	90 - 110	P	10/07/2025	18:44	LB137447
	Chromium	997	1000	100	90 - 110	P	10/07/2025	18:44	LB137447
	Cobalt	2460	2500	98	90 - 110	P	10/07/2025	18:44	LB137447
	Copper	1260	1250	101	90 - 110	P	10/07/2025	18:44	LB137447
	Iron	4950	5000	99	90 - 110	P	10/07/2025	18:44	LB137447
	Lead	4920	5000	98	90 - 110	P	10/07/2025	18:44	LB137447
	Magnesium	24600	25000	98	90 - 110	P	10/07/2025	18:44	LB137447
	Manganese	2440	2500	98	90 - 110	P	10/07/2025	18:44	LB137447
	Nickel	2470	2500	99	90 - 110	P	10/07/2025	18:44	LB137447
	Potassium	24000	25000	96	90 - 110	P	10/07/2025	18:44	LB137447
	Selenium	5280	5000	106	90 - 110	P	10/07/2025	18:44	LB137447
	Silver	1230	1250	98	90 - 110	P	10/07/2025	18:44	LB137447
	Sodium	24600	25000	98	90 - 110	P	10/07/2025	18:44	LB137447
	Thallium	5050	5000	101	90 - 110	P	10/07/2025	18:44	LB137447
	Vanadium	2480	2500	99	90 - 110	P	10/07/2025	18:44	LB137447
	Zinc	2480	2500	99	90 - 110	P	10/07/2025	18:44	LB137447
CCV08	Aluminum	9510	10000	95	90 - 110	P	10/07/2025	19:20	LB137447
	Antimony	4850	5000	97	90 - 110	P	10/07/2025	19:20	LB137447
	Arsenic	4850	5000	97	90 - 110	P	10/07/2025	19:20	LB137447
	Barium	9160	10000	92	90 - 110	P	10/07/2025	19:20	LB137447
	Beryllium	238	250	95	90 - 110	P	10/07/2025	19:20	LB137447
	Cadmium	2370	2500	95	90 - 110	P	10/07/2025	19:20	LB137447
	Calcium	23500	25000	94	90 - 110	P	10/07/2025	19:20	LB137447
	Chromium	967	1000	97	90 - 110	P	10/07/2025	19:20	LB137447
	Cobalt	2360	2500	94	90 - 110	P	10/07/2025	19:20	LB137447
	Copper	1210	1250	96	90 - 110	P	10/07/2025	19:20	LB137447
	Iron	4810	5000	96	90 - 110	P	10/07/2025	19:20	LB137447
	Lead	4720	5000	94	90 - 110	P	10/07/2025	19:20	LB137447
	Magnesium	23900	25000	96	90 - 110	P	10/07/2025	19:20	LB137447
	Manganese	2350	2500	94	90 - 110	P	10/07/2025	19:20	LB137447
	Nickel	2360	2500	94	90 - 110	P	10/07/2025	19:20	LB137447
	Potassium	23100	25000	92	90 - 110	P	10/07/2025	19:20	LB137447

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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
CCV08	Selenium	4950	5000	99	90 - 110	P	10/07/2025	19:20	LB137447
	Silver	1200	1250	96	90 - 110	P	10/07/2025	19:20	LB137447
	Sodium	24000	25000	96	90 - 110	P	10/07/2025	19:20	LB137447
	Thallium	4540	5000	91	90 - 110	P	10/07/2025	19:20	LB137447
	Vanadium	2380	2500	95	90 - 110	P	10/07/2025	19:20	LB137447
	Zinc	2420	2500	97	90 - 110	P	10/07/2025	19:20	LB137447

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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
CRA	Mercury	0.20	0.2	101	70 - 130	CV	10/03/2025	08:52	LB137397
CRI01	Aluminum	118	100	118	65 - 135	P	10/03/2025	13:16	LB137426
	Antimony	50.6	50.0	101	65 - 135	P	10/03/2025	13:16	LB137426
	Arsenic	21.4	20.0	107	65 - 135	P	10/03/2025	13:16	LB137426
	Barium	100	100	100	65 - 135	P	10/03/2025	13:16	LB137426
	Beryllium	6.49	6.0	108	65 - 135	P	10/03/2025	13:16	LB137426
	Cadmium	6.04	6.0	101	65 - 135	P	10/03/2025	13:16	LB137426
	Calcium	2060	2000	103	65 - 135	P	10/03/2025	13:16	LB137426
	Chromium	9.90	10.0	99	65 - 135	P	10/03/2025	13:16	LB137426
	Cobalt	29.7	30.0	99	65 - 135	P	10/03/2025	13:16	LB137426
	Copper	21.2	20.0	106	65 - 135	P	10/03/2025	13:16	LB137426
	Iron	91.2	100	91	65 - 135	P	10/03/2025	13:16	LB137426
	Lead	10.2	12.0	85	65 - 135	P	10/03/2025	13:16	LB137426
	Magnesium	2140	2000	107	65 - 135	P	10/03/2025	13:16	LB137426
	Manganese	21.0	20.0	105	65 - 135	P	10/03/2025	13:16	LB137426
	Nickel	40.9	40.0	102	65 - 135	P	10/03/2025	13:16	LB137426
	Potassium	1890	2000	94	65 - 135	P	10/03/2025	13:16	LB137426
	Selenium	21.2	20.0	106	65 - 135	P	10/03/2025	13:16	LB137426
	Silver	10.5	10.0	105	65 - 135	P	10/03/2025	13:16	LB137426
	Sodium	1910	2000	95	65 - 135	P	10/03/2025	13:16	LB137426
	Thallium	39.4	40.0	98	65 - 135	P	10/03/2025	13:16	LB137426
	Vanadium	39.8	40.0	100	65 - 135	P	10/03/2025	13:16	LB137426
	Zinc	42.0	40.0	105	65 - 135	P	10/03/2025	13:16	LB137426
CRI01	Aluminum	90.0	100	90	65 - 135	P	10/07/2025	12:10	LB137447
	Antimony	49.9	50.0	100	65 - 135	P	10/07/2025	12:10	LB137447
	Arsenic	17.7	20.0	88	65 - 135	P	10/07/2025	12:10	LB137447
	Barium	97.4	100	97	65 - 135	P	10/07/2025	12:10	LB137447
	Beryllium	6.27	6.0	104	65 - 135	P	10/07/2025	12:10	LB137447
	Cadmium	5.96	6.0	99	65 - 135	P	10/07/2025	12:10	LB137447
	Calcium	2040	2000	102	65 - 135	P	10/07/2025	12:10	LB137447
	Chromium	9.90	10.0	99	65 - 135	P	10/07/2025	12:10	LB137447
	Cobalt	29.6	30.0	99	65 - 135	P	10/07/2025	12:10	LB137447
	Copper	22.2	20.0	111	65 - 135	P	10/07/2025	12:10	LB137447
	Iron	123	100	123	65 - 135	P	10/07/2025	12:10	LB137447
	Lead	12.1	12.0	101	65 - 135	P	10/07/2025	12:10	LB137447

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	2090	2000	104	65 - 135	P	10/07/2025	12:10	LB137447
	Manganese	20.9	20.0	105	65 - 135	P	10/07/2025	12:10	LB137447
	Nickel	40.1	40.0	100	65 - 135	P	10/07/2025	12:10	LB137447
	Potassium	1880	2000	94	65 - 135	P	10/07/2025	12:10	LB137447
	Selenium	22.6	20.0	113	65 - 135	P	10/07/2025	12:10	LB137447
	Silver	9.85	10.0	98	65 - 135	P	10/07/2025	12:10	LB137447
	Sodium	1910	2000	95	65 - 135	P	10/07/2025	12:10	LB137447
	Thallium	45.0	40.0	113	65 - 135	P	10/07/2025	12:10	LB137447
	Vanadium	37.6	40.0	94	65 - 135	P	10/07/2025	12:10	LB137447
	Zinc	37.9	40.0	95	65 - 135	P	10/07/2025	12:10	LB137447

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB56	Mercury	0.076	+/-0.2	U	0.20	CV	10/03/2025	08:45	LB137397

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB75	Mercury	0.076	+/-0.2	U	0.20	CV	10/03/2025	08:50	LB137397
CCB76	Mercury	0.076	+/-0.2	U	0.20	CV	10/03/2025	09:23	LB137397
CCB77	Mercury	0.076	+/-0.2	U	0.20	CV	10/03/2025	09:41	LB137397

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.6	+/-50	J	100	P	10/03/2025	13:12	LB137426
	Antimony	6.76	+/-25	U	50.0	P	10/03/2025	13:12	LB137426
	Arsenic	5.12	+/-10	U	20.0	P	10/03/2025	13:12	LB137426
	Barium	14.6	+/-50	U	100	P	10/03/2025	13:12	LB137426
	Beryllium	0.56	+/-3	U	6.00	P	10/03/2025	13:12	LB137426
	Cadmium	0.50	+/-3	U	6.00	P	10/03/2025	13:12	LB137426
	Calcium	234	+/-1000	U	2000	P	10/03/2025	13:12	LB137426
	Chromium	2.12	+/-5	U	10.0	P	10/03/2025	13:12	LB137426
	Cobalt	2.26	+/-15	U	30.0	P	10/03/2025	13:12	LB137426
	Copper	4.60	+/-10	U	20.0	P	10/03/2025	13:12	LB137426
	Iron	23.4	+/-50	U	100	P	10/03/2025	13:12	LB137426
	Lead	2.30	+/-6	U	12.0	P	10/03/2025	13:12	LB137426
	Magnesium	244	+/-1000	U	2000	P	10/03/2025	13:12	LB137426
	Manganese	5.94	+/-10	U	20.0	P	10/03/2025	13:12	LB137426
	Nickel	3.06	+/-20	U	40.0	P	10/03/2025	13:12	LB137426
	Potassium	918	+/-1000	U	2000	P	10/03/2025	13:12	LB137426
	Selenium	9.64	+/-10	U	20.0	P	10/03/2025	13:12	LB137426
	Silver	1.62	+/-5	U	10.0	P	10/03/2025	13:12	LB137426
	Sodium	868	+/-1000	U	2000	P	10/03/2025	13:12	LB137426
	Thallium	4.38	+/-20	U	40.0	P	10/03/2025	13:12	LB137426
	Vanadium	6.26	+/-20	U	40.0	P	10/03/2025	13:12	LB137426
	Zinc	16.7	+/-20	U	40.0	P	10/03/2025	13:12	LB137426

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/03/2025	13:41	LB137426
	Antimony	6.76	+/-25	U	50.0	P	10/03/2025	13:41	LB137426
	Arsenic	5.12	+/-10	U	20.0	P	10/03/2025	13:41	LB137426
	Barium	14.6	+/-50	U	100	P	10/03/2025	13:41	LB137426
	Beryllium	0.56	+/-3	U	6.00	P	10/03/2025	13:41	LB137426
	Cadmium	0.50	+/-3	U	6.00	P	10/03/2025	13:41	LB137426
	Calcium	234	+/-1000	U	2000	P	10/03/2025	13:41	LB137426
	Chromium	2.12	+/-5	U	10.0	P	10/03/2025	13:41	LB137426
	Cobalt	2.26	+/-15	U	30.0	P	10/03/2025	13:41	LB137426
	Copper	4.60	+/-10	U	20.0	P	10/03/2025	13:41	LB137426
	Iron	23.4	+/-50	U	100	P	10/03/2025	13:41	LB137426
	Lead	2.30	+/-6	U	12.0	P	10/03/2025	13:41	LB137426
	Magnesium	244	+/-1000	U	2000	P	10/03/2025	13:41	LB137426
	Manganese	5.94	+/-10	U	20.0	P	10/03/2025	13:41	LB137426
	Nickel	3.06	+/-20	U	40.0	P	10/03/2025	13:41	LB137426
	Potassium	918	+/-1000	U	2000	P	10/03/2025	13:41	LB137426
	Selenium	9.64	+/-10	U	20.0	P	10/03/2025	13:41	LB137426
	Silver	1.62	+/-5	U	10.0	P	10/03/2025	13:41	LB137426
	Sodium	868	+/-1000	U	2000	P	10/03/2025	13:41	LB137426
	Thallium	4.38	+/-20	U	40.0	P	10/03/2025	13:41	LB137426
	Vanadium	6.26	+/-20	U	40.0	P	10/03/2025	13:41	LB137426
	Zinc	16.7	+/-20	U	40.0	P	10/03/2025	13:41	LB137426
CCB02	Aluminum	11.3	+/-50	U	100	P	10/03/2025	15:04	LB137426
	Antimony	6.76	+/-25	U	50.0	P	10/03/2025	15:04	LB137426
	Arsenic	5.12	+/-10	U	20.0	P	10/03/2025	15:04	LB137426
	Barium	14.6	+/-50	U	100	P	10/03/2025	15:04	LB137426
	Beryllium	0.56	+/-3	U	6.00	P	10/03/2025	15:04	LB137426
	Cadmium	0.50	+/-3	U	6.00	P	10/03/2025	15:04	LB137426
	Calcium	234	+/-1000	U	2000	P	10/03/2025	15:04	LB137426
	Chromium	2.12	+/-5	U	10.0	P	10/03/2025	15:04	LB137426
	Cobalt	2.26	+/-15	U	30.0	P	10/03/2025	15:04	LB137426
	Copper	4.60	+/-10	U	20.0	P	10/03/2025	15:04	LB137426
	Iron	23.4	+/-50	U	100	P	10/03/2025	15:04	LB137426
	Lead	2.30	+/-6	U	12.0	P	10/03/2025	15:04	LB137426
	Magnesium	244	+/-1000	U	2000	P	10/03/2025	15:04	LB137426
	Manganese	5.94	+/-10	U	20.0	P	10/03/2025	15:04	LB137426
	Nickel	3.06	+/-20	U	40.0	P	10/03/2025	15:04	LB137426
	Potassium	918	+/-1000	U	2000	P	10/03/2025	15:04	LB137426
	Selenium	9.64	+/-10	U	20.0	P	10/03/2025	15:04	LB137426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/03/2025	15:04	LB137426
	Sodium	868	+/-1000	U	2000	P	10/03/2025	15:04	LB137426
	Thallium	10.1	+/-20	J	40.0	P	10/03/2025	15:04	LB137426
	Vanadium	6.26	+/-20	U	40.0	P	10/03/2025	15:04	LB137426
	Zinc	16.7	+/-20	U	40.0	P	10/03/2025	15:04	LB137426
CCB03	Aluminum	11.3	+/-50	U	100	P	10/03/2025	16:00	LB137426
	Antimony	6.76	+/-25	U	50.0	P	10/03/2025	16:00	LB137426
	Arsenic	5.12	+/-10	U	20.0	P	10/03/2025	16:00	LB137426
	Barium	14.6	+/-50	U	100	P	10/03/2025	16:00	LB137426
	Beryllium	0.56	+/-3	U	6.00	P	10/03/2025	16:00	LB137426
	Cadmium	0.50	+/-3	U	6.00	P	10/03/2025	16:00	LB137426
	Calcium	234	+/-1000	U	2000	P	10/03/2025	16:00	LB137426
	Chromium	2.12	+/-5	U	10.0	P	10/03/2025	16:00	LB137426
	Cobalt	2.26	+/-15	U	30.0	P	10/03/2025	16:00	LB137426
	Copper	4.60	+/-10	U	20.0	P	10/03/2025	16:00	LB137426
	Iron	23.4	+/-50	U	100	P	10/03/2025	16:00	LB137426
	Lead	2.30	+/-6	U	12.0	P	10/03/2025	16:00	LB137426
	Magnesium	244	+/-1000	U	2000	P	10/03/2025	16:00	LB137426
	Manganese	5.94	+/-10	U	20.0	P	10/03/2025	16:00	LB137426
	Nickel	3.06	+/-20	U	40.0	P	10/03/2025	16:00	LB137426
	Potassium	918	+/-1000	U	2000	P	10/03/2025	16:00	LB137426
	Selenium	9.64	+/-10	U	20.0	P	10/03/2025	16:00	LB137426
	Silver	1.62	+/-5	U	10.0	P	10/03/2025	16:00	LB137426
	Sodium	868	+/-1000	U	2000	P	10/03/2025	16:00	LB137426
	Thallium	4.38	+/-20	U	40.0	P	10/03/2025	16:00	LB137426
	Vanadium	6.26	+/-20	U	40.0	P	10/03/2025	16:00	LB137426
	Zinc	16.7	+/-20	U	40.0	P	10/03/2025	16:00	LB137426
CCB04	Aluminum	11.3	+/-50	U	100	P	10/03/2025	16:49	LB137426
	Antimony	6.76	+/-25	U	50.0	P	10/03/2025	16:49	LB137426
	Arsenic	5.12	+/-10	U	20.0	P	10/03/2025	16:49	LB137426
	Barium	14.6	+/-50	U	100	P	10/03/2025	16:49	LB137426
	Beryllium	0.56	+/-3	U	6.00	P	10/03/2025	16:49	LB137426
	Cadmium	0.50	+/-3	U	6.00	P	10/03/2025	16:49	LB137426
	Calcium	234	+/-1000	U	2000	P	10/03/2025	16:49	LB137426
	Chromium	2.12	+/-5	U	10.0	P	10/03/2025	16:49	LB137426
	Cobalt	2.26	+/-15	U	30.0	P	10/03/2025	16:49	LB137426
	Copper	4.60	+/-10	U	20.0	P	10/03/2025	16:49	LB137426
	Iron	23.4	+/-50	U	100	P	10/03/2025	16:49	LB137426
	Lead	2.30	+/-6	U	12.0	P	10/03/2025	16:49	LB137426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/03/2025	16:49	LB137426
	Manganese	5.94	+/-10	U	20.0	P	10/03/2025	16:49	LB137426
	Nickel	3.06	+/-20	U	40.0	P	10/03/2025	16:49	LB137426
	Potassium	918	+/-1000	U	2000	P	10/03/2025	16:49	LB137426
	Selenium	9.64	+/-10	U	20.0	P	10/03/2025	16:49	LB137426
	Silver	1.62	+/-5	U	10.0	P	10/03/2025	16:49	LB137426
	Sodium	868	+/-1000	U	2000	P	10/03/2025	16:49	LB137426
	Thallium	4.38	+/-20	U	40.0	P	10/03/2025	16:49	LB137426
	Vanadium	6.26	+/-20	U	40.0	P	10/03/2025	16:49	LB137426
	Zinc	16.7	+/-20	U	40.0	P	10/03/2025	16:49	LB137426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	12:06	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	12:06	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	12:06	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	12:06	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	12:06	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	12:06	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	12:06	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	12:06	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	12:06	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	12:06	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	12:06	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	12:06	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	12:06	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	12:06	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	12:06	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	12:06	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	12:06	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	12:06	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	12:06	LB137447
	Thallium	5.24	+/-20	J	40.0	P	10/07/2025	12:06	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	12:06	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	12:06	LB137447

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	12:58	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	12:58	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	12:58	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	12:58	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	12:58	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	12:58	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	12:58	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	12:58	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	12:58	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	12:58	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	12:58	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	12:58	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	12:58	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	12:58	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	12:58	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	12:58	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	12:58	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	12:58	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	12:58	LB137447
	Thallium	4.38	+/-20	U	40.0	P	10/07/2025	12:58	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	12:58	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	12:58	LB137447
CCB02	Aluminum	14.4	+/-50	J	100	P	10/07/2025	14:24	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	14:24	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	14:24	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	14:24	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	14:24	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	14:24	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	14:24	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	14:24	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	14:24	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	14:24	LB137447
	Iron	28.4	+/-50	J	100	P	10/07/2025	14:24	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	14:24	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	14:24	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	14:24	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	14:24	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	14:24	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	14:24	LB137447

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	14:24	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	14:24	LB137447
	Thallium	5.15	+/-20	J	40.0	P	10/07/2025	14:24	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	14:24	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	14:24	LB137447
CCB03	Aluminum	11.3	+/-50	U	100	P	10/07/2025	15:12	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	15:12	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	15:12	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	15:12	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	15:12	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	15:12	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	15:12	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	15:12	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	15:12	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	15:12	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	15:12	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	15:12	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	15:12	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	15:12	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	15:12	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	15:12	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	15:12	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	15:12	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	15:12	LB137447
	Thallium	6.22	+/-20	J	40.0	P	10/07/2025	15:12	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	15:12	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	15:12	LB137447
CCB04	Aluminum	11.3	+/-50	U	100	P	10/07/2025	16:04	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	16:04	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	16:04	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	16:04	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	16:04	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	16:04	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	16:04	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	16:04	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	16:04	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	16:04	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	16:04	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	16:04	LB137447

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	16:04	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	16:04	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	16:04	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	16:04	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	16:04	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	16:04	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	16:04	LB137447
	Thallium	5.51	+/-20	J	40.0	P	10/07/2025	16:04	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	16:04	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	16:04	LB137447
CCB05	Aluminum	11.3	+/-50	U	100	P	10/07/2025	17:01	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	17:01	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	17:01	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	17:01	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	17:01	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	17:01	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	17:01	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	17:01	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	17:01	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	17:01	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	17:01	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	17:01	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	17:01	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	17:01	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	17:01	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	17:01	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	17:01	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	17:01	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	17:01	LB137447
	Thallium	5.07	+/-20	J	40.0	P	10/07/2025	17:01	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	17:01	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	17:01	LB137447
CCB06	Aluminum	11.3	+/-50	U	100	P	10/07/2025	17:59	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	17:59	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	17:59	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	17:59	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	17:59	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	17:59	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	17:59	LB137447

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	10/07/2025	17:59	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	17:59	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	17:59	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	17:59	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	17:59	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	17:59	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	17:59	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	17:59	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	17:59	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	17:59	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	17:59	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	17:59	LB137447
	Thallium	4.38	+/-20	U	40.0	P	10/07/2025	17:59	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	17:59	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	17:59	LB137447
CCB07	Aluminum	11.3	+/-50	U	100	P	10/07/2025	18:48	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	18:48	LB137447
	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	18:48	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	18:48	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	18:48	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	18:48	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	18:48	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	18:48	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	18:48	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	18:48	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	18:48	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	18:48	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	18:48	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	18:48	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	18:48	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	18:48	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	18:48	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	18:48	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	18:48	LB137447
	Thallium	4.38	+/-20	U	40.0	P	10/07/2025	18:48	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	18:48	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	18:48	LB137447
CCB08	Aluminum	11.3	+/-50	U	100	P	10/07/2025	19:24	LB137447
	Antimony	6.76	+/-25	U	50.0	P	10/07/2025	19:24	LB137447

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	10/07/2025	19:24	LB137447
	Barium	14.6	+/-50	U	100	P	10/07/2025	19:24	LB137447
	Beryllium	0.56	+/-3	U	6.00	P	10/07/2025	19:24	LB137447
	Cadmium	0.50	+/-3	U	6.00	P	10/07/2025	19:24	LB137447
	Calcium	234	+/-1000	U	2000	P	10/07/2025	19:24	LB137447
	Chromium	2.12	+/-5	U	10.0	P	10/07/2025	19:24	LB137447
	Cobalt	2.26	+/-15	U	30.0	P	10/07/2025	19:24	LB137447
	Copper	4.60	+/-10	U	20.0	P	10/07/2025	19:24	LB137447
	Iron	23.4	+/-50	U	100	P	10/07/2025	19:24	LB137447
	Lead	2.30	+/-6	U	12.0	P	10/07/2025	19:24	LB137447
	Magnesium	244	+/-1000	U	2000	P	10/07/2025	19:24	LB137447
	Manganese	5.94	+/-10	U	20.0	P	10/07/2025	19:24	LB137447
	Nickel	3.06	+/-20	U	40.0	P	10/07/2025	19:24	LB137447
	Potassium	918	+/-1000	U	2000	P	10/07/2025	19:24	LB137447
	Selenium	9.64	+/-10	U	20.0	P	10/07/2025	19:24	LB137447
	Silver	1.62	+/-5	U	10.0	P	10/07/2025	19:24	LB137447
	Sodium	868	+/-1000	U	2000	P	10/07/2025	19:24	LB137447
	Thallium	4.38	+/-20	U	40.0	P	10/07/2025	19:24	LB137447
	Vanadium	6.26	+/-20	U	40.0	P	10/07/2025	19:24	LB137447
	Zinc	16.7	+/-20	U	40.0	P	10/07/2025	19:24	LB137447

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169964BL		**SOLID**		**Batch Number:**	**PB169964**		**Prep Date:**	**10/02/2025**	
	Mercury	0.0070	<0.013	U	0.013	CV	10/03/2025	09:00	LB137397

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169960BL		**SOLID**		**Batch Number:**	**PB169960**		**Prep Date:**	**10/02/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	10/03/2025	15:12	LB137426
	Antimony	0.22	<1.25	U	2.50	P	10/03/2025	15:12	LB137426
	Arsenic	0.19	<0.5	U	1.00	P	10/03/2025	15:12	LB137426
	Barium	0.73	<2.5	U	5.00	P	10/03/2025	15:12	LB137426
	Beryllium	0.025	<0.15	U	0.30	P	10/03/2025	15:12	LB137426
	Cadmium	0.024	<0.15	U	0.30	P	10/03/2025	15:12	LB137426
	Calcium	11.1	<50	U	100	P	10/03/2025	15:12	LB137426
	Chromium	0.047	<0.25	U	0.50	P	10/03/2025	15:12	LB137426
	Cobalt	0.10	<0.75	U	1.50	P	10/03/2025	15:12	LB137426
	Copper	0.22	<0.5	U	1.00	P	10/03/2025	15:12	LB137426
	Iron	3.99	<2.5	U	5.00	P	10/03/2025	15:12	LB137426
	Lead	0.13	<0.3	U	0.60	P	10/03/2025	15:12	LB137426
	Magnesium	12.0	<50	U	100	P	10/03/2025	15:12	LB137426
	Manganese	0.14	<0.5	U	1.00	P	10/03/2025	15:12	LB137426
	Nickel	0.13	<1	U	2.00	P	10/03/2025	15:12	LB137426
	Potassium	27.7	<50	U	100	P	10/03/2025	15:12	LB137426
	Selenium	0.26	<0.5	U	1.00	P	10/03/2025	15:12	LB137426
	Silver	0.12	<0.25	U	0.50	P	10/03/2025	15:12	LB137426
	Sodium	17.8	<50	U	100	P	10/03/2025	15:12	LB137426
	Thallium	0.57	<1	J	2.00	P	10/03/2025	15:12	LB137426
	Vanadium	0.25	<1	U	2.00	P	10/03/2025	15:12	LB137426
	Zinc	0.23	<1	U	2.00	P	10/03/2025	15:12	LB137426

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	245000	255000	96	216000	294000	10/03/2025	13:20	LB137426
	Antimony	3.52			-50	50	10/03/2025	13:20	LB137426
	Arsenic	8.41			-20	20	10/03/2025	13:20	LB137426
	Barium	1.66	6.0	28	-94	106	10/03/2025	13:20	LB137426
	Beryllium	1.42			-6	6	10/03/2025	13:20	LB137426
	Cadmium	0.91	1.0	91	-5	7	10/03/2025	13:20	LB137426
	Calcium	236000	245000	96	208000	282000	10/03/2025	13:20	LB137426
	Chromium	46.6	52.0	90	42	62	10/03/2025	13:20	LB137426
	Cobalt	0.68			-30	30	10/03/2025	13:20	LB137426
	Copper	3.06	2.0	153	-18	22	10/03/2025	13:20	LB137426
	Iron	99600	101000	99	85600	116500	10/03/2025	13:20	LB137426
	Lead	0.97			-12	12	10/03/2025	13:20	LB137426
	Magnesium	247000	255000	97	216000	294000	10/03/2025	13:20	LB137426
	Manganese	-1.76	7.0	25	-13	27	10/03/2025	13:20	LB137426
	Nickel	3.93	2.0	196	-38	42	10/03/2025	13:20	LB137426
	Potassium	187			0	0	10/03/2025	13:20	LB137426
	Selenium	9.27			-20	20	10/03/2025	13:20	LB137426
	Silver	1.41			-10	10	10/03/2025	13:20	LB137426
	Sodium	127			0	0	10/03/2025	13:20	LB137426
	Thallium	11.3			-40	40	10/03/2025	13:20	LB137426
	Vanadium	4.84			-40	40	10/03/2025	13:20	LB137426
	Zinc	1.66			-40	40	10/03/2025	13:20	LB137426
ICSAB01	Aluminum	247000	247000	100	209000	285000	10/03/2025	13:25	LB137426
	Antimony	609	618	98	525	711	10/03/2025	13:25	LB137426
	Arsenic	110	104	106	88.4	120	10/03/2025	13:25	LB137426
	Barium	496	537	92	437	637	10/03/2025	13:25	LB137426
	Beryllium	516	495	104	420	570	10/03/2025	13:25	LB137426
	Cadmium	980	972	101	826	1120	10/03/2025	13:25	LB137426
	Calcium	235000	235000	100	199000	271000	10/03/2025	13:25	LB137426
	Chromium	553	542	102	460	624	10/03/2025	13:25	LB137426
	Cobalt	491	476	103	404	548	10/03/2025	13:25	LB137426
	Copper	484	511	95	434	588	10/03/2025	13:25	LB137426
	Iron	97500	99300	98	84400	114500	10/03/2025	13:25	LB137426
	Lead	49.1	49.0	100	37	61	10/03/2025	13:25	LB137426
	Magnesium	248000	248000	100	210000	286000	10/03/2025	13:25	LB137426
	Manganese	492	507	97	430	584	10/03/2025	13:25	LB137426
	Nickel	981	954	103	810	1100	10/03/2025	13:25	LB137426
	Potassium	15.2			0	0	10/03/2025	13:25	LB137426
	Selenium	56.4	46.0	123	26	66	10/03/2025	13:25	LB137426
	Silver	208	201	104	170	232	10/03/2025	13:25	LB137426
	Sodium	92.2			0	0	10/03/2025	13:25	LB137426
	Thallium	105	108	97	68	148	10/03/2025	13:25	LB137426

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	485	491	99	417	565	10/03/2025	13:25	LB137426
	Zinc	1030	952	108	809	1095	10/03/2025	13:25	LB137426
ICSA01	Aluminum	243000	255000	95	216000	294000	10/07/2025	12:14	LB137447
	Antimony	-5.05			-50	50	10/07/2025	12:14	LB137447
	Arsenic	3.53			-20	20	10/07/2025	12:14	LB137447
	Barium	-8.30	6.0	138	-94	106	10/07/2025	12:14	LB137447
	Beryllium	1.74			-6	6	10/07/2025	12:14	LB137447
	Cadmium	2.40	1.0	240	-5	7	10/07/2025	12:14	LB137447
	Calcium	234000	245000	96	208000	282000	10/07/2025	12:14	LB137447
	Chromium	47.2	52.0	91	42	62	10/07/2025	12:14	LB137447
	Cobalt	1.06			-30	30	10/07/2025	12:14	LB137447
	Copper	13.8	2.0	690	-18	22	10/07/2025	12:14	LB137447
	Iron	94400	101000	94	85600	116500	10/07/2025	12:14	LB137447
	Lead	-1.11			-12	12	10/07/2025	12:14	LB137447
	Magnesium	246000	255000	96	216000	294000	10/07/2025	12:14	LB137447
	Manganese	6.71	7.0	96	-13	27	10/07/2025	12:14	LB137447
	Nickel	2.60	2.0	130	-38	42	10/07/2025	12:14	LB137447
	Potassium	-102			0	0	10/07/2025	12:14	LB137447
	Selenium	8.06			-20	20	10/07/2025	12:14	LB137447
	Silver	-0.34			-10	10	10/07/2025	12:14	LB137447
	Sodium	-109			0	0	10/07/2025	12:14	LB137447
	Thallium	33.6			-40	40	10/07/2025	12:14	LB137447
	Vanadium	-0.97			-40	40	10/07/2025	12:14	LB137447
	Zinc	-0.92			-40	40	10/07/2025	12:14	LB137447
ICSAB01	Aluminum	247000	247000	100	209000	285000	10/07/2025	12:37	LB137447
	Antimony	604	618	98	525	711	10/07/2025	12:37	LB137447
	Arsenic	107	104	103	88.4	120	10/07/2025	12:37	LB137447
	Barium	477	537	89	437	637	10/07/2025	12:37	LB137447
	Beryllium	496	495	100	420	570	10/07/2025	12:37	LB137447
	Cadmium	990	972	102	826	1120	10/07/2025	12:37	LB137447
	Calcium	231000	235000	98	199000	271000	10/07/2025	12:37	LB137447
	Chromium	540	542	100	460	624	10/07/2025	12:37	LB137447
	Cobalt	493	476	104	404	548	10/07/2025	12:37	LB137447
	Copper	489	511	96	434	588	10/07/2025	12:37	LB137447
	Iron	97100	99300	98	84400	114500	10/07/2025	12:37	LB137447
	Lead	50.4	49.0	103	37	61	10/07/2025	12:37	LB137447
	Magnesium	246000	248000	99	210000	286000	10/07/2025	12:37	LB137447
	Manganese	477	507	94	430	584	10/07/2025	12:37	LB137447
	Nickel	982	954	103	810	1100	10/07/2025	12:37	LB137447
	Potassium	-317			0	0	10/07/2025	12:37	LB137447
	Selenium	60.1	46.0	131	26	66	10/07/2025	12:37	LB137447
	Silver	205	201	102	170	232	10/07/2025	12:37	LB137447

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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	-119			0	0	10/07/2025	12:37	LB137447
	Thallium	140	108	130	68	148	10/07/2025	12:37	LB137447
	Vanadium	475	491	97	417	565	10/07/2025	12:37	LB137447
	Zinc	1020	952	107	809	1095	10/07/2025	12:37	LB137447

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q3266

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2409-05 **client id:** COP-SOIL-PILEMS

Percent Solids for Sample: 96.4 **Spiked ID:** Q2409-05MS **Percent Solids for Spike Sample:** 96.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.52		0.30		0.25	89		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q3266

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2409-05 **client id:** COP-SOIL-PILEMSD

Percent Solids for Sample: 96.4 **Spiked ID:** Q2409-05MSD **Percent Solids for Spike Sample:** 96.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.56		0.30		0.26	101		CV

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q3266

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q3266-02 **client id:** ENV-4-6FTMS

Percent Solids for Sample: 87 **Spiked ID:** Q3266-02MS **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	14900		13900		95.8	1028		P
Antimony	mg/Kg	75 - 125	11.1		2.66	U	38.3	29	N	P
Arsenic	mg/Kg	75 - 125	37.7		8.06		38.3	78		P
Barium	mg/Kg	75 - 125	154		135		9.6	206		P
Beryllium	mg/Kg	75 - 125	8.83		1.43		9.6	77		P
Cadmium	mg/Kg	75 - 125	10.6		0.97		9.6	101		P
Calcium	mg/Kg	75 - 125	3220		3060		47.9	329		P
Chromium	mg/Kg	75 - 125	36.7		23.9		19.2	67	N	P
Cobalt	mg/Kg	75 - 125	27.7		17.4		9.6	107		P
Copper	mg/Kg	75 - 125	77.0		53.1		14.4	166	N	P
Iron	mg/Kg	75 - 125	29500		30600		140	-854		P
Lead	mg/Kg	75 - 125	87.7		46.3		47.9	87		P
Magnesium	mg/Kg	75 - 125	6820		6250		95.8	595		P
Manganese	mg/Kg	75 - 125	1220		1210		9.6	26		P
Nickel	mg/Kg	75 - 125	58.1		31.8		23.9	110		P
Potassium	mg/Kg	75 - 125	2390		1780		480	126	N	P
Selenium	mg/Kg	75 - 125	72.3		0.81	J	95.8	75		P
Silver	mg/Kg	75 - 125	4.03		1.01		3.6	84		P
Sodium	mg/Kg	75 - 125	216		86.8	J	140	92		P
Thallium	mg/Kg	75 - 125	84.5		2.13	U	95.8	88		P
Vanadium	mg/Kg	75 - 125	43.4		35.7		14.4	54	N	P
Zinc	mg/Kg	75 - 125	102		87.7		9.6	152		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q3266

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q3266-02 **client id:** ENV-4-6FTMSD

Percent Solids for Sample: 87 **Spiked ID:** Q3266-02MSD **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	15900		13900		97.0	2127		P
Antimony	mg/Kg	75 - 125	11.3		2.66	U	38.8	29	N	P
Arsenic	mg/Kg	75 - 125	39.3		8.06		38.8	80		P
Barium	mg/Kg	75 - 125	163		135		9.7	295		P
Beryllium	mg/Kg	75 - 125	9.15		1.43		9.7	80		P
Cadmium	mg/Kg	75 - 125	11.1		0.97		9.7	104		P
Calcium	mg/Kg	75 - 125	3410		3060		48.5	720		P
Chromium	mg/Kg	75 - 125	39.1		23.9		19.4	78		P
Cobalt	mg/Kg	75 - 125	29.9		17.4		9.7	129	N	P
Copper	mg/Kg	75 - 125	75.2		53.1		14.5	152	N	P
Iron	mg/Kg	75 - 125	31700		30600		150	730		P
Lead	mg/Kg	75 - 125	95.8		46.3		48.5	102		P
Magnesium	mg/Kg	75 - 125	7150		6250		97.0	927		P
Manganese	mg/Kg	75 - 125	1300		1210		9.7	941		P
Nickel	mg/Kg	75 - 125	62.2		31.8		24.2	126	N	P
Potassium	mg/Kg	75 - 125	2540		1780		480	157	N	P
Selenium	mg/Kg	75 - 125	74.5		0.81	J	97.0	76		P
Silver	mg/Kg	75 - 125	4.27		1.01		3.6	91		P
Sodium	mg/Kg	75 - 125	227		86.8	J	150	93		P
Thallium	mg/Kg	75 - 125	82.1		2.13	U	97.0	85		P
Vanadium	mg/Kg	75 - 125	46.6		35.7		14.5	75		P
Zinc	mg/Kg	75 - 125	111		87.7		9.7	237		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** ENV-4-6FTA

Sample ID: Q3266-02 **Spiked ID:** Q3266-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	35.0		2.66	U	42.6	82		P
Chromium	mg/Kg	75 - 125	40.6		23.9		21.3	78		P
Cobalt	mg/Kg	75 - 125	27.4		17.4		10.6	95		P
Copper	mg/Kg	75 - 125	65.4		53.1		16.0	77		P
Nickel	mg/Kg	75 - 125	57.0		31.8		26.6	95		P
Potassium	mg/Kg	75 - 125	2110		1780		530	61	N	P
Vanadium	mg/Kg	75 - 125	48.2		35.7		16.0	78		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2409-05 **Client ID:** COP-SOIL-PILEDUP

Percent Solids for Sample: 96.4 **Duplicate ID** Q2409-05DUP **Percent Solids for Spike Sample:** 96.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.30		0.29		5		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2409-05MS **Client ID:** COP-SOIL-PILEMSD

Percent Solids for Sample: 96.4 **Duplicate ID** Q2409-05MSD **Percent Solids for Spike Sample:** 96.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.52		0.56		8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3266-02 **Client ID:** ENV-4-6FTDUP

Percent Solids for Sample: 87 **Duplicate ID** Q3266-02DUP **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	13900		13400		4		P
Antimony	mg/Kg	20	2.66	U	2.57	U			P
Arsenic	mg/Kg	20	8.06		7.20		11		P
Barium	mg/Kg	20	135		146		8		P
Beryllium	mg/Kg	20	1.43		1.31		9		P
Cadmium	mg/Kg	20	0.97		1.07		10		P
Calcium	mg/Kg	20	3060		3110		2		P
Chromium	mg/Kg	20	23.9		21.0		13		P
Cobalt	mg/Kg	20	17.4		17.2		1		P
Copper	mg/Kg	20	53.1		61.5		15		P
Iron	mg/Kg	20	30600		27900		9		P
Lead	mg/Kg	20	46.3		42.4		9		P
Magnesium	mg/Kg	20	6250		6300		1		P
Manganese	mg/Kg	20	1210		1170		3		P
Nickel	mg/Kg	20	31.8		32.6		2		P
Potassium	mg/Kg	20	1780		1710		4		P
Selenium	mg/Kg	20	0.81	J	0.61	J	29		P
Silver	mg/Kg	20	1.01		0.74		31		P
Sodium	mg/Kg	20	86.8	J	118		30		P
Thallium	mg/Kg	20	2.13	U	2.05	U			P
Vanadium	mg/Kg	20	35.7		32.4		10		P
Zinc	mg/Kg	20	87.7		88.3		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q3266-02MS **Client ID:** ENV-4-6FTMSD

Percent Solids for Sample: 87 **Duplicate ID** Q3266-02MSD **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	14900		15900		6		P
Antimony	mg/Kg	20	11.1		11.3		2		P
Arsenic	mg/Kg	20	37.7		39.3		4		P
Barium	mg/Kg	20	154		163		6		P
Beryllium	mg/Kg	20	8.83		9.15		4		P
Cadmium	mg/Kg	20	10.6		11.1		4		P
Calcium	mg/Kg	20	3220		3410		6		P
Chromium	mg/Kg	20	36.7		39.1		6		P
Cobalt	mg/Kg	20	27.7		29.9		8		P
Copper	mg/Kg	20	77.0		75.2		2		P
Iron	mg/Kg	20	29500		31700		7		P
Lead	mg/Kg	20	87.7		95.8		9		P
Magnesium	mg/Kg	20	6820		7150		5		P
Manganese	mg/Kg	20	1220		1300		6		P
Nickel	mg/Kg	20	58.1		62.2		7		P
Potassium	mg/Kg	20	2390		2540		6		P
Selenium	mg/Kg	20	72.3		74.5		3		P
Silver	mg/Kg	20	4.03		4.27		6		P
Sodium	mg/Kg	20	216		227		5		P
Thallium	mg/Kg	20	84.5		82.1		3		P
Vanadium	mg/Kg	20	43.4		46.6		7		P
Zinc	mg/Kg	20	102		111		8		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169960BS							
Aluminum	mg/Kg	100	96.8		97	80 - 120	P
Antimony	mg/Kg	40.0	38.9		97	80 - 120	P
Arsenic	mg/Kg	40.0	38.7		97	80 - 120	P
Barium	mg/Kg	10.0	9.41		94	80 - 120	P
Beryllium	mg/Kg	10.0	10.3		103	80 - 120	P
Cadmium	mg/Kg	10.0	9.53		95	80 - 120	P
Calcium	mg/Kg	50.0	47.9	J	96	80 - 120	P
Chromium	mg/Kg	20.0	20.2		101	80 - 120	P
Cobalt	mg/Kg	10.0	9.54		95	80 - 120	P
Copper	mg/Kg	15.0	15.0		100	80 - 120	P
Iron	mg/Kg	150	146		97	80 - 120	P
Lead	mg/Kg	50.0	46.9		94	80 - 120	P
Magnesium	mg/Kg	100	98.8	J	99	80 - 120	P
Manganese	mg/Kg	10.0	9.71		97	80 - 120	P
Nickel	mg/Kg	25.0	24.4		98	80 - 120	P
Potassium	mg/Kg	500	437		87	80 - 120	P
Selenium	mg/Kg	100	98.9		99	80 - 120	P
Silver	mg/Kg	3.8	3.66		96	80 - 120	P
Sodium	mg/Kg	150	137		91	80 - 120	P
Thallium	mg/Kg	100	114		114	80 - 120	P
Vanadium	mg/Kg	15.0	14.5		97	80 - 120	P
Zinc	mg/Kg	10.0	9.84		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169964BS							
Mercury	mg/Kg	0.25	0.27		106	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

COP-SOIL-PILEL

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb137397 **Lab Sample ID :** Q2409-05L **SDG No.:** Q3266

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.30		0.24		21		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

ENV-4-6FTL

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb137447 **Lab Sample ID :** Q3266-02L **SDG No.:** Q3266

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13900		17200		24		P
Antimony	2.66	U	13.3	U			P
Arsenic	8.06		8.70		8		P
Barium	135		160		19		P
Beryllium	1.43		1.82		28		P
Cadmium	0.97		0.76	J	22		P
Calcium	3060		3860		26		P
Chromium	23.9		30.1		26		P
Cobalt	17.4		18.4		6		P
Copper	53.1		72.1		36		P
Iron	30600		36300		19		P
Lead	46.3		50.4		9		P
Magnesium	6250		7880		26		P
Manganese	1210		1500		24		P
Nickel	31.8		34.2		8		P
Potassium	1780		2140		20		P
Selenium	0.81	J	5.32	U	100.0		P
Silver	1.01		0.72	J	29		P
Sodium	86.8	J	532	U	100.0		P
Thallium	2.13	U	1.22	J	100.0		P
Vanadium	35.7		44.3		24		P
Zinc	87.7		108		23		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement 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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement 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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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:	**PB169960**						
PB169960BL	PB169960BL	MB	SOLID	10/02/2025	2.00	100.0	100.00
PB169960BS	PB169960BS	LCS	SOLID	10/02/2025	2.00	100.0	100.00
Q3266-01	ENV-3-6FT	SAM	SOLID	10/02/2025	2.43	100.0	80.30
Q3266-02	ENV-4-6FT	SAM	SOLID	10/02/2025	2.16	100.0	87.00
Q3266-02DUP	ENV-4-6FTDUP	DUP	SOLID	10/02/2025	2.24	100.0	87.00
Q3266-02MS	ENV-4-6FTMS	MS	SOLID	10/02/2025	2.40	100.0	87.00
Q3266-02MSD	ENV-4-6FTMSD	MSD	SOLID	10/02/2025	2.37	100.0	87.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q3266

Contract: CAMP02 **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:	**PB169964**						
PB169964BL	PB169964BL	MB	SOLID	10/02/2025	0.54	35.0	100.00
PB169964BS	PB169964BS	LCS	SOLID	10/02/2025	0.57	35.0	100.00
Q2409-05DUP	COP-SOIL-PILEDUP	DUP	SOLID	10/02/2025	0.55	35.0	96.40
Q2409-05MS	COP-SOIL-PILEMS	MS	SOLID	10/02/2025	0.59	35.0	96.40
Q2409-05MSD	COP-SOIL-PILEMSD	MSD	SOLID	10/02/2025	0.55	35.0	96.40
Q3266-01	ENV-3-6FT	SAM	SOLID	10/02/2025	0.50	35.0	80.30
Q3266-02	ENV-4-6FT	SAM	SOLID	10/02/2025	0.51	35.0	87.00

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metals
- 14 -
ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q3266

Instrument id number: **Method:** **Run number:** LB137397

Start date: 10/03/2025 **End date:** 10/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0827	HG
S0.2	S0.2	1	0829	HG
S2.5	S2.5	1	0831	HG
S5	S5	1	0834	HG
S7.5	S7.5	1	0836	HG
S10	S10	1	0839	HG
ICV56	ICV56	1	0842	HG
ICB56	ICB56	1	0845	HG
CCV75	CCV75	1	0847	HG
CCB75	CCB75	1	0850	HG
CRA	CRA	1	0852	HG
PB169964BL	PB169964BL	1	0900	HG
PB169964BS	PB169964BS	1	0902	HG
Q2409-05DUP	COP-SOIL-PILEDUP	1	0907	HG
Q2409-05MS	COP-SOIL-PILEMS	1	0910	HG
Q2409-05MSD	COP-SOIL-PILEMSD	1	0916	HG
Q3266-01	ENV-3-6FT	1	0918	HG
CCV76	CCV76	1	0921	HG
CCB76	CCB76	1	0923	HG
Q3266-02	ENV-4-6FT	1	0926	HG
Q2409-05L	COP-SOIL-PILEL	5	0934	HG
CCV77	CCV77	1	0938	HG
CCB77	CCB77	1	0941	HG

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q3266

Instrument id number: **Method:** **Run number:** LB137426

Start date: 10/03/2025 **End date:** 10/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1153	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	1158	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	1202	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	1206	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	1210	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	1214	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	1218	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	1305	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	1312	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	1316	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	1320	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	1325	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	1337	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	1341	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	1500	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	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169960BL	PB169960BL	1	1512	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169960BS	PB169960BS	1	1517	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	1551	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	1600	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-01	ENV-3-6FT	1	1629	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	1645	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	1649	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q3266

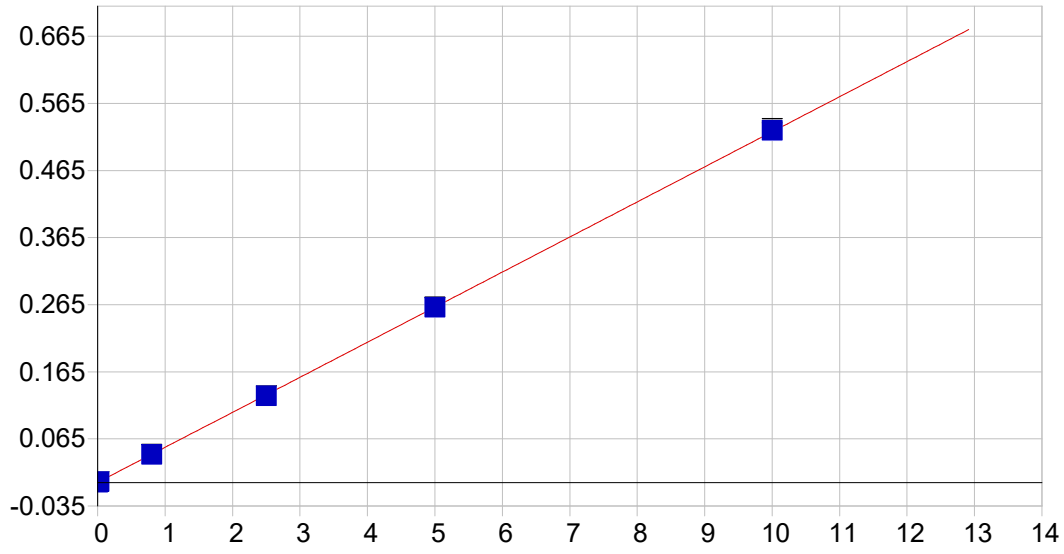
Instrument id number: **Method:** **Run number:** LB137447

Start date: 10/07/2025 **End date:** 10/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1029	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	1034	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	1038	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	1042	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	1046	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	1050	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	1054	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	1201	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	1206	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	1210	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	1214	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	1237	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	1258	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	1419	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	1424	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	1508	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	1512	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	1600	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	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02	ENV-4-6FT	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02DUP	ENV-4-6FTDUP	1	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02L	ENV-4-6FTL	5	1620	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02MS	ENV-4-6FTMS	1	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02MSD	ENV-4-6FTMSD	1	1629	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3266-02A	ENV-4-6FTA	1	1633	Co,Cr,Cu,K,Ni,Sb,V
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	1701	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	1749	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	1759	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	1844	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	1848	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1924	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

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



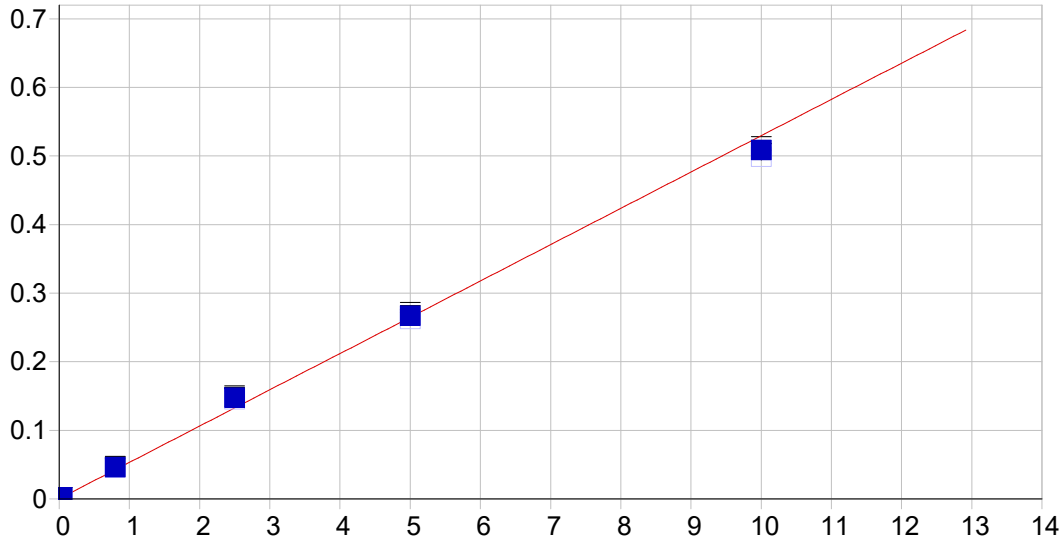
As 189.042 {479}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.052272	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.002187		
Predicted MQL:	0.007289		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.02000	.02167	.002	8.33	.00120	.000	1
S3	2.5000	2.4716	-.028	-1.14	.12913	.000	1
S4	5.0000	4.9941	-.006	-.118	.26086	.001	1
S5	10.000	10.037	.037	.373	.52420	.003	1
S2	.80000	.79531	-.005	-.586	.04160	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



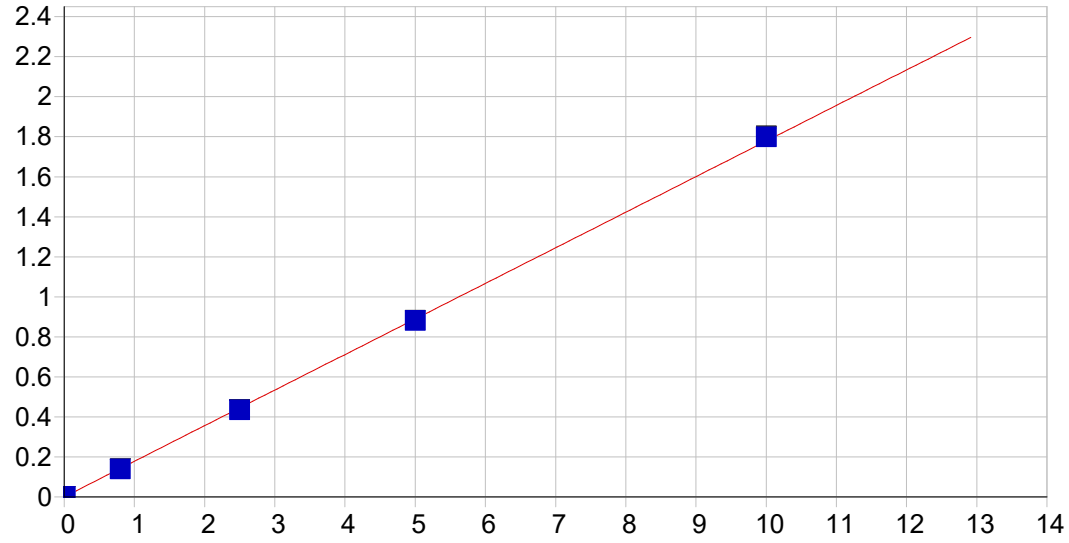
Tl 190.856 {477}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000301	Re-Slope:	1.000000
A1 (Gain):	0.052924	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998479	Status:	OK.
Std Error of Est:	0.000095		
Predicted MDL:	0.003182		
Predicted MQL:	0.010605		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00030	.000	1
S1	.04000	.04529	.005	13.2	.00256	.000	1
S3	2.5000	2.7840	.284	11.4	.14523	.003	1
S4	5.0000	5.0418	.042	.836	.26231	.005	1
S5	10.000	9.6057	-.394	-3.94	.49903	.005	1
S2	.80000	.86350	.063	7.94	.04523	.002	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



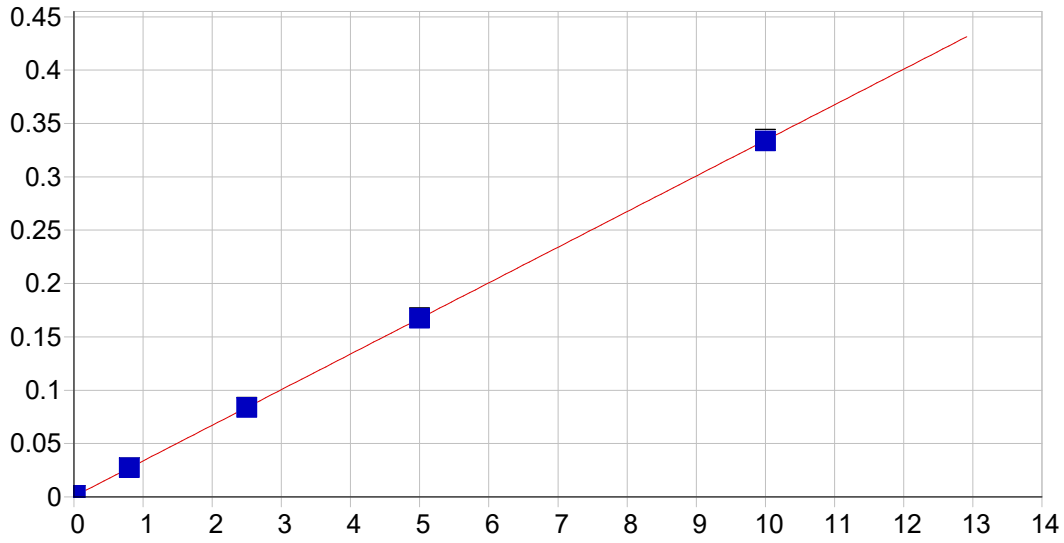
Pb 220.353 {453}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000334	Re-Slope:	1.000000
A1 (Gain):	0.177798	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001542		
Predicted MQL:	0.005140		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.01200	.01132	-.001	-5.65	.00230	.000	1
S3	2.5000	2.4425	-.057	-2.30	.43412	.000	1
S4	5.0000	4.9569	-.043	-.862	.88068	.001	1
S5	10.000	10.116	.116	1.16	1.7970	.005	1
S2	.80000	.78497	-.015	-1.88	.13974	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



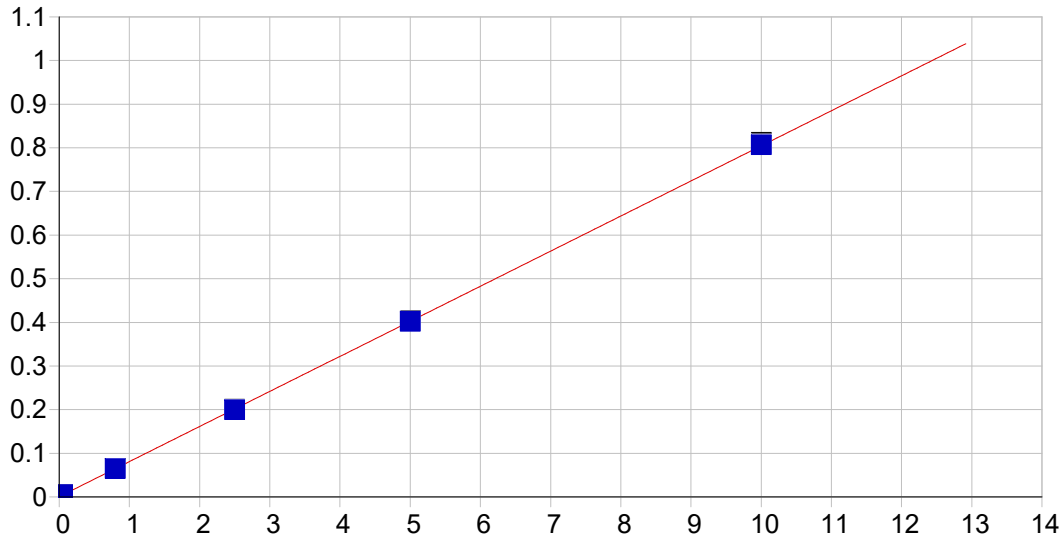
Se 196.090 {472}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000403	Re-Slope:	1.000000
A1 (Gain):	0.033375	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.004121		
Predicted MQL:	0.013738		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00040	.000	1
S1	.02000	.02658	.007	32.9	.00129	.000	1
S3	2.5000	2.4984	-.002	-.065	.08376	.000	1
S4	5.0000	5.0068	.007	.135	.16746	.000	1
S5	10.000	9.9819	-.018	-.181	.33346	.002	1
S2	.80000	.80638	.006	.797	.02731	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



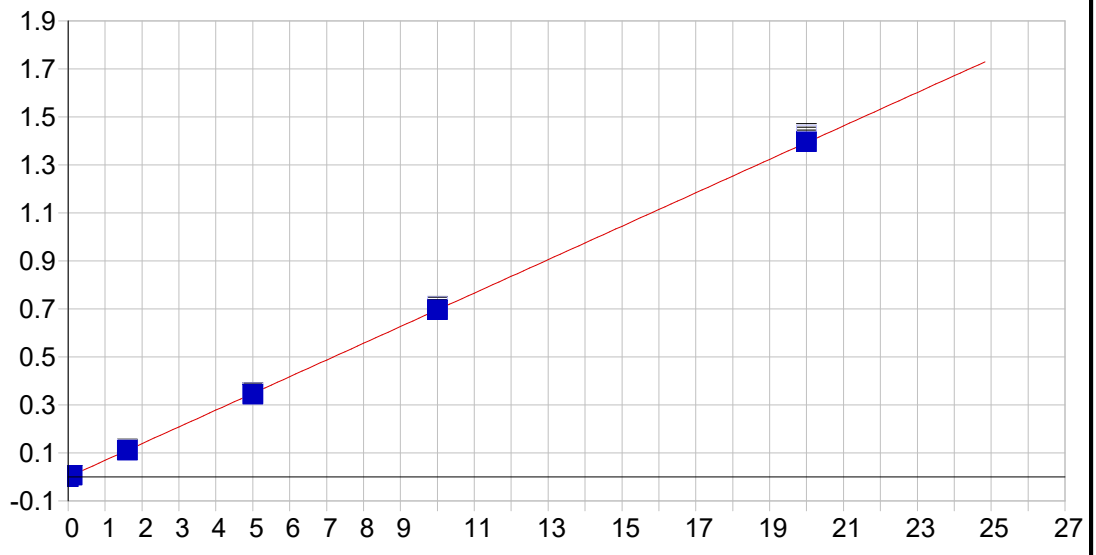
Sb 206.833 {463}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000662	Re-Slope:	1.000000
A1 (Gain):	0.080384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.002238		
Predicted MQL:	0.007460		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00066	.000	1
S1	.05000	.05174	.002	3.47	.00483	.000	1
S3	2.5000	2.4770	-.023	-.919	.20032	.000	1
S4	5.0000	4.9927	-.007	-.145	.40309	.001	1
S5	10.000	10.031	.031	.312	.80919	.003	1
S2	.80000	.79737	-.003	-.329	.06493	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



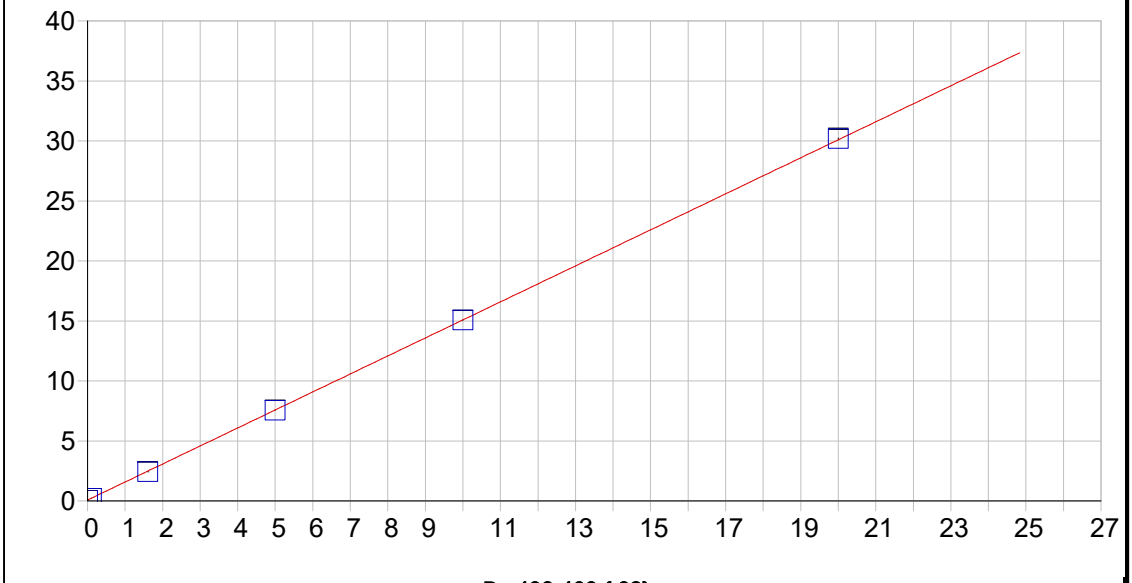
Al 396.152 { 85}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000534	Re-Slope:	1.000000
A1 (Gain):	0.069670	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.014199		
Predicted MQL:	0.047329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00053	.000	1
S1	.10000	.10827	.008	8.27	.00755	.000	1
S3	5.0000	4.9456	-.054	-1.09	.35078	.001	1
S4	10.000	9.9915	-.008	-.085	.70909	.002	1
S5	20.000	20.051	.051	.256	1.4235	.007	1
S2	1.6000	1.6030	.003	.187	.11331	.002	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



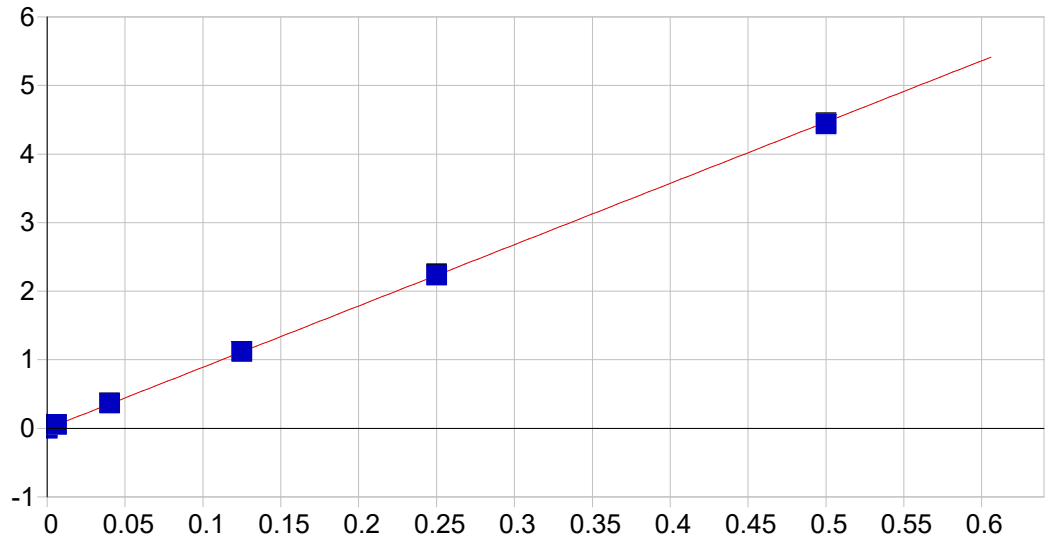
Ba 493.409 { 68}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.075290	Re-Slope:	1.000000
A1 (Gain):	1.500833	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000575		
Predicted MDL:	0.001708		
Predicted MQL:	0.005692		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.07529	.001	1
S1	.10000	.10034	.000	.342	.22589	.003	1
S3	5.0000	4.9807	-.019	-.385	7.5506	.016	1
S4	10.000	9.9839	-.016	-.161	15.059	.017	1
S5	20.000	20.067	.067	.336	30.193	.050	1
S2	1.6000	1.5677	-.032	-2.02	2.4281	.005	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



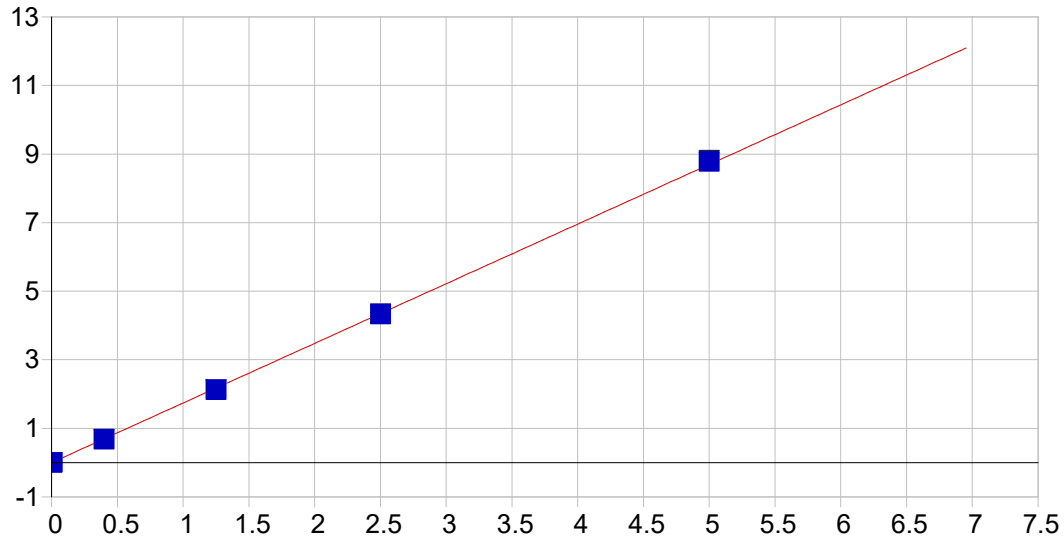
Be 234.861 {144}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002662	Re-Slope:	1.000000
A1 (Gain):	8.938020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000246		
Predicted MDL:	0.000075		
Predicted MQL:	0.000251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00267	.000	1
S1	.00600	.00643	.000	7.13	.05439	.001	1
S3	.12500	.12549	.000	.393	1.1140	.001	1
S4	.25000	.25045	.000	.180	2.2259	.018	1
S5	.50000	.49741	-.003	-.518	4.4232	.013	1
S2	.04000	.04122	.001	3.06	.36419	.002	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



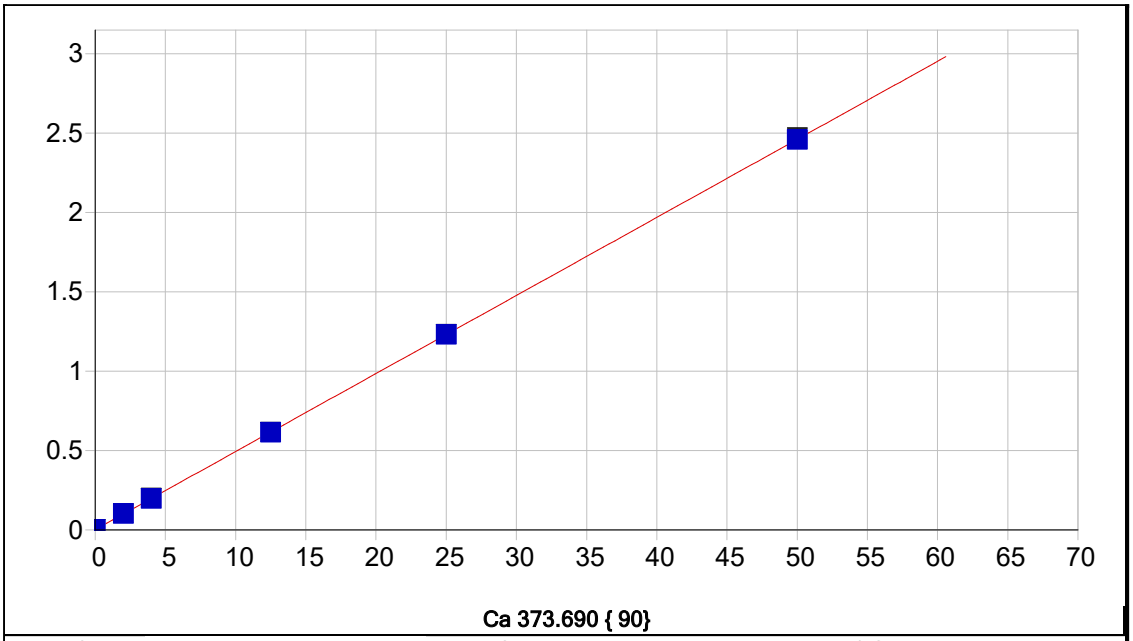
Cd 226.502 {449}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000518	Re-Slope:	1.000000
A1 (Gain):	1.739467	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000199		
Predicted MDL:	0.000123		
Predicted MQL:	0.000410		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00052	.000	1
S1	.00600	.00616	.000	2.64	.01023	.000	1
S3	1.2500	1.2213	-.029	-2.30	2.1253	.003	1
S4	2.5000	2.4907	-.009	-.372	4.3349	.008	1
S5	5.0000	5.0486	.049	.972	8.7871	.029	1
S2	.40000	.38925	-.011	-2.69	.67703	.002	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



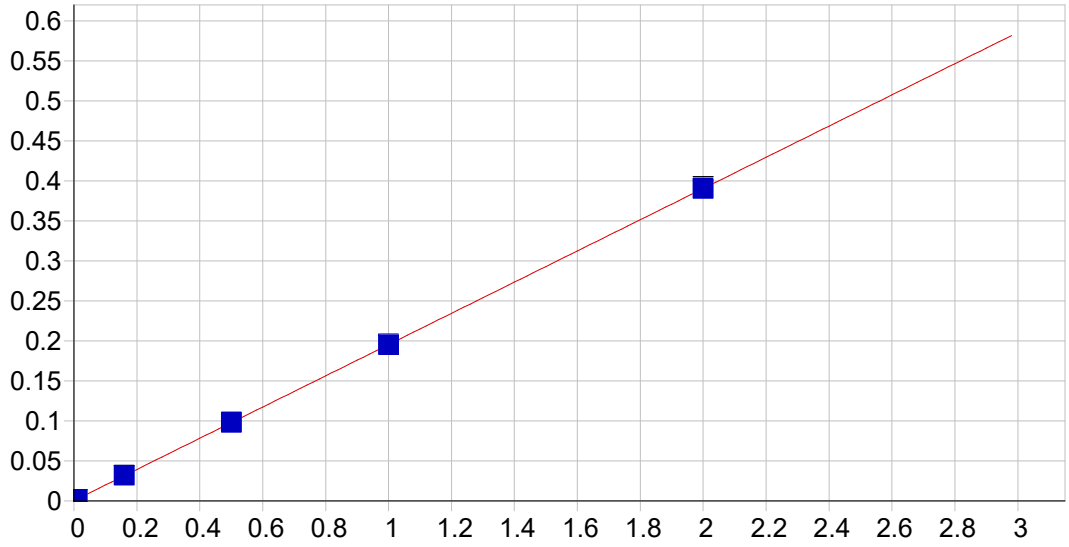
Ca 373.690 { 90}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001787	Re-Slope:	1.000000
A1 (Gain):	0.049187	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	0.015854		
Predicted MQL:	0.052848		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	.00179	.001	1
S2	4.0000	3.9925	-.007	-.186	.19817	.001	1
S3	12.500	12.455	-.045	-.362	.61439	.001	1
S4	25.000	25.010	.010	.039	1.2319	.001	1
S5	50.000	49.996	-.004	-.009	2.4609	.009	1
S1	2.0000	2.0474	.047	2.37	.10249	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



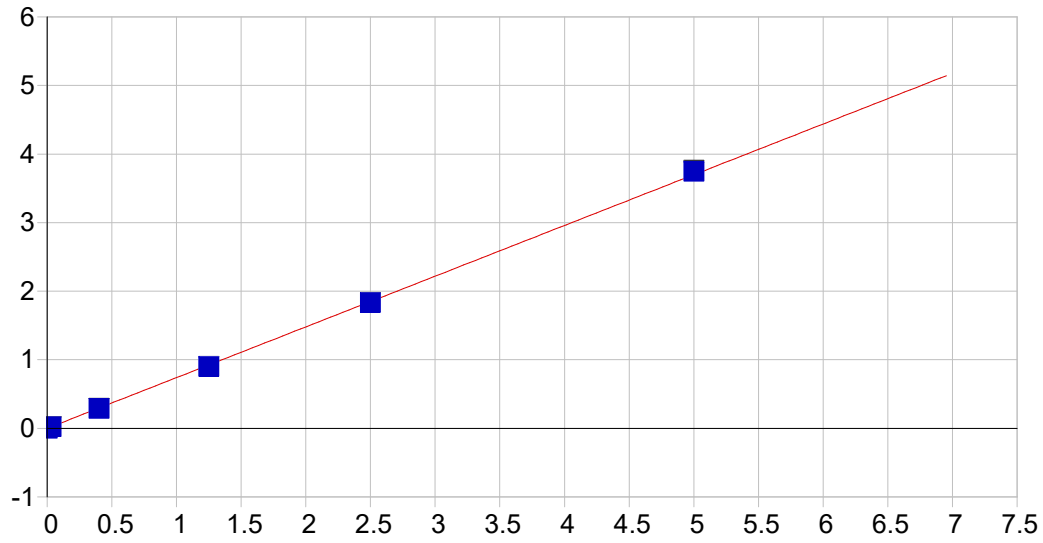
Cr 267.716 {126}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000320	Re-Slope:	1.000000
A1 (Gain):	0.195086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.000412		
Predicted MQL:	0.001372		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00032	.000	1
S1	.01000	.00977	-.000	-2.27	.00223	.000	1
S3	.50000	.50002	.000	.003	.09794	.001	1
S4	1.0000	.99969	-.000	-.031	.19550	.001	1
S5	2.0000	1.9989	-.001	-.056	.39059	.002	1
S2	.16000	.16163	.002	1.02	.03188	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



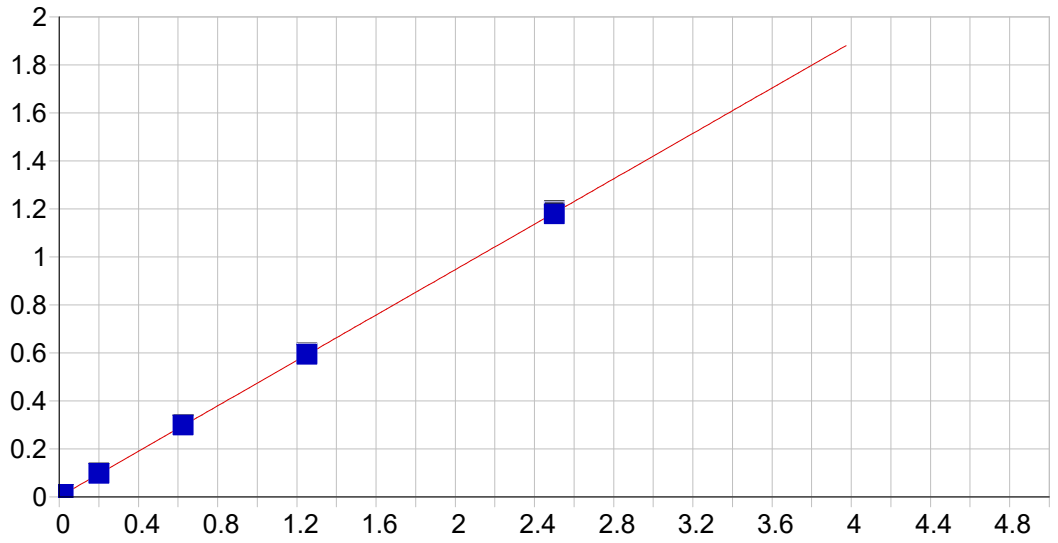
Co 228.616 {448}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000065	Re-Slope:	1.000000
A1 (Gain):	0.739619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	0.000265		
Predicted MQL:	0.000884		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.03000	.03046	.000	1.54	.02250	.000	1
S3	1.2500	1.2170	-.033	-2.64	.90176	.001	1
S4	2.5000	2.4765	-.023	-.938	1.8349	.002	1
S5	5.0000	5.0651	.065	1.30	3.7526	.014	1
S2	.40000	.39082	-.009	-2.29	.28963	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



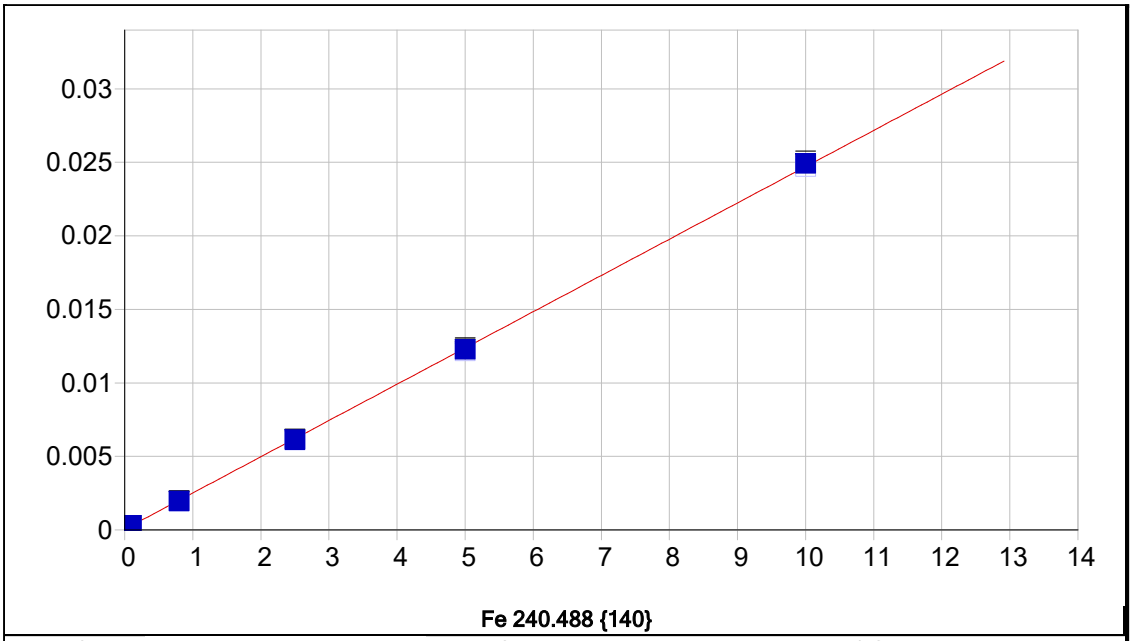
Cu 224.700 {450}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001150	Re-Slope:	1.000000
A1 (Gain):	0.472979	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.000542		
Predicted MQL:	0.001808		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00115	.000	1
S1	.02000	.02110	.001	5.52	.01124	.000	1
S3	.62500	.62786	.003	.457	.30058	.001	1
S4	1.2500	1.2523	.002	.187	.59840	.001	1
S5	2.5000	2.4893	-.011	-.428	1.1884	.004	1
S2	.20000	.20440	.004	2.20	.09862	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



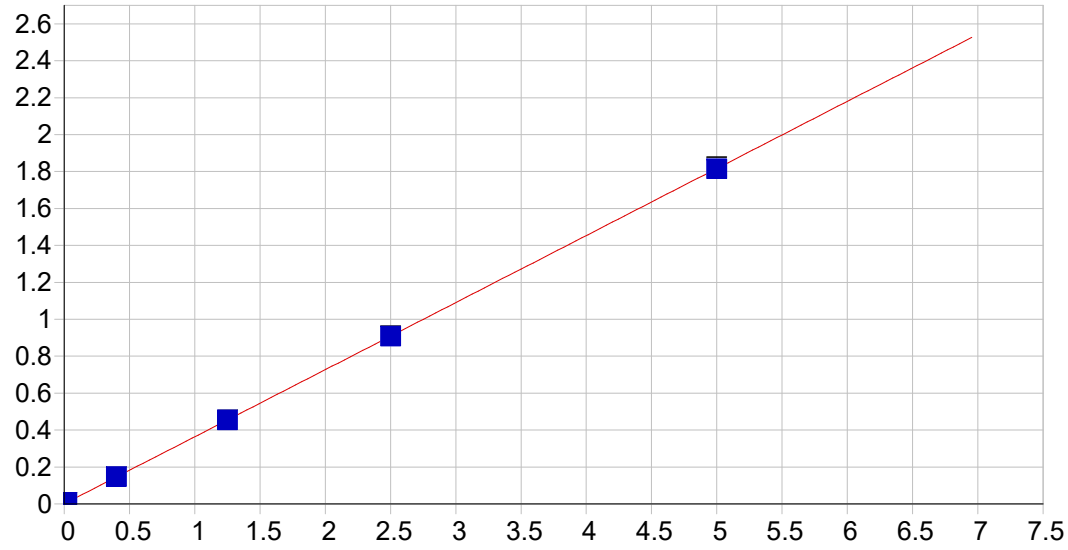
Fe 240.488 {140}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.002466	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.009368		
Predicted MQL:	0.031225		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.10000	.10480	.005	4.80	.00030	.000	1
S3	2.5000	2.4741	-.026	-1.04	.00609	.000	1
S4	5.0000	4.9563	-.044	-.874	.01216	.000	1
S5	10.000	10.088	.088	.879	.02471	.000	1
S2	.80000	.77693	-.023	-2.88	.00194	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



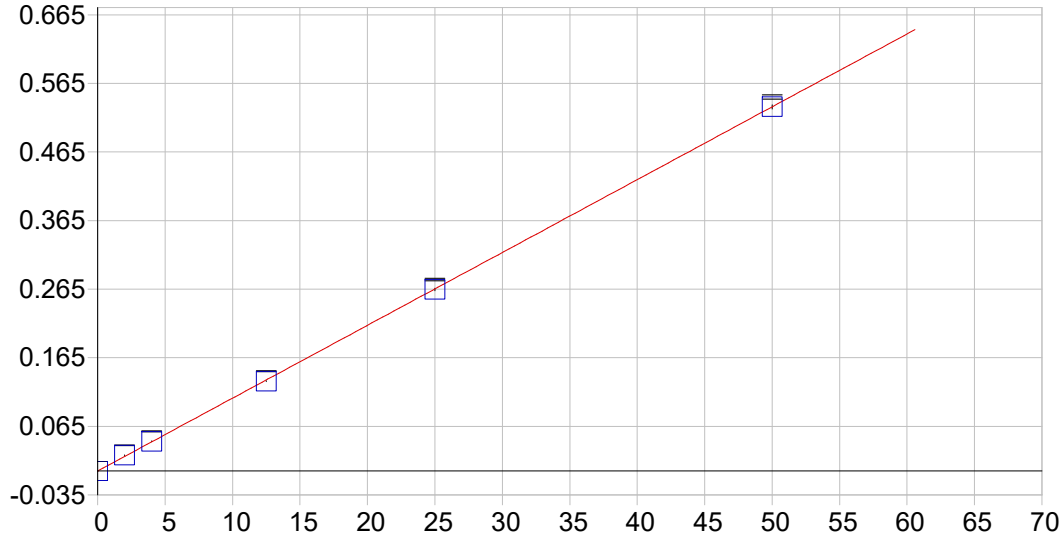
Mn 257.610 {131}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000392	Re-Slope:	1.000000
A1 (Gain):	0.363250	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000795		
Predicted MQL:	0.002650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00039	.000	1
S1	.02000	.02124	.001	6.21	.00811	.000	1
S3	1.2500	1.2510	.001	.083	.45492	.000	1
S4	2.5000	2.4979	-.002	-.084	.90794	.002	1
S5	5.0000	4.9950	-.005	-.099	1.8152	.009	1
S2	.40000	.40476	.005	1.19	.14745	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



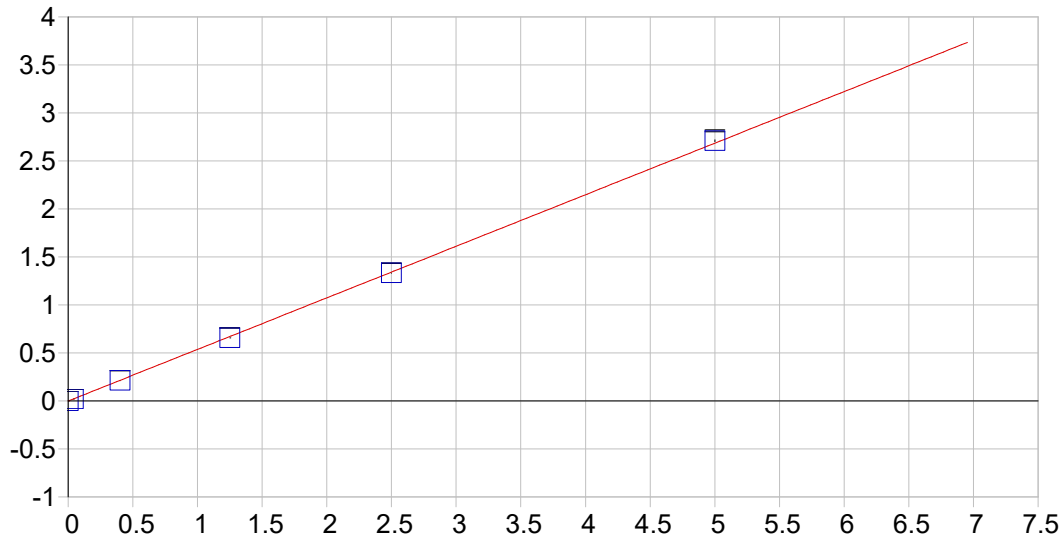
Mg 279.079 {121}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000164	Re-Slope:	1.000000
A1 (Gain):	0.010621	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.035570		
Predicted MQL:	0.118566		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	-.00017	.000	1
S2	4.0000	4.0771	.077	1.93	.04314	.001	1
S3	12.500	12.337	-.163	-1.31	.13086	.001	1
S4	25.000	24.925	-.075	-.302	.26456	.002	1
S5	50.000	49.993	-.007	-.014	.53080	.003	1
S1	2.0000	2.1687	.169	8.44	.02287	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



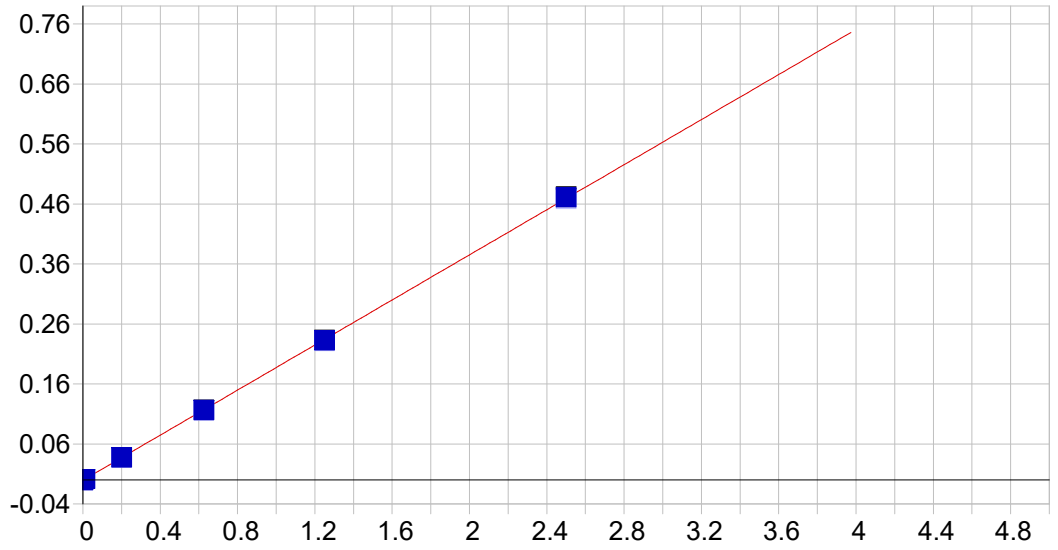
Ni 231.604 {446}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000619	Re-Slope:	1.000000
A1 (Gain):	0.537098	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000147		
Predicted MDL:	0.000409		
Predicted MQL:	0.001362		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00062	.000	1
S1	.04000	.04103	.001	2.58	.02142	.000	1
S3	1.2500	1.2239	-.026	-2.09	.65675	.001	1
S4	2.5000	2.4811	-.019	-.756	1.3320	.001	1
S5	5.0000	5.0486	.049	.973	2.7110	.010	1
S2	.40000	.39531	-.005	-1.17	.21170	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



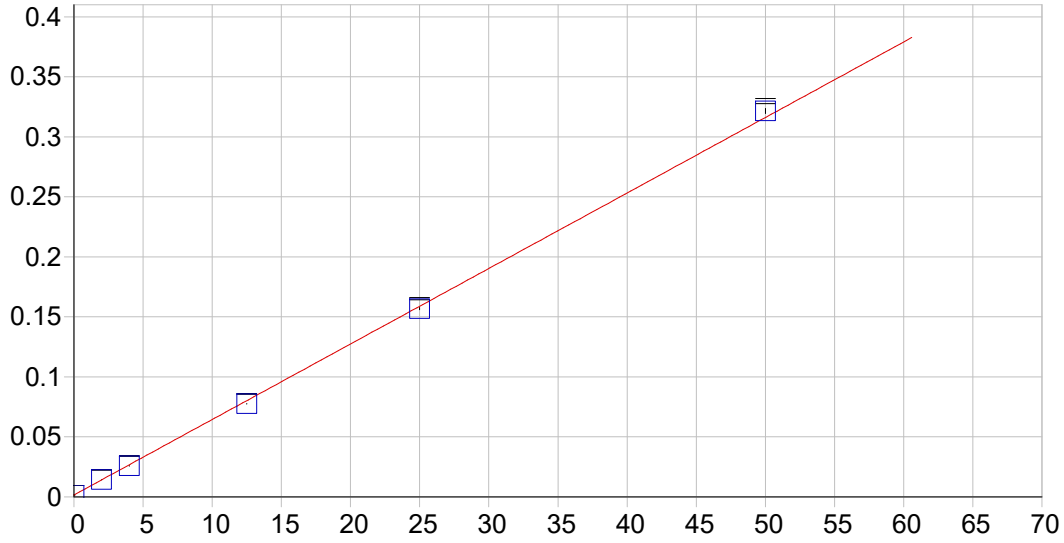
Ag 328.068 {103}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000610	Re-Slope:	1.000000
A1 (Gain):	0.187883	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.000663		
Predicted MQL:	0.002208		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00061	.000	1
S1	.01000	.01061	.001	6.07	.00137	.000	1
S3	.62500	.62199	-.003	-.481	.11568	.000	1
S4	1.2500	1.2416	-.008	-.674	.23152	.000	1
S5	2.5000	2.5090	.009	.361	.46852	.001	1
S2	.20000	.20180	.002	.899	.03712	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



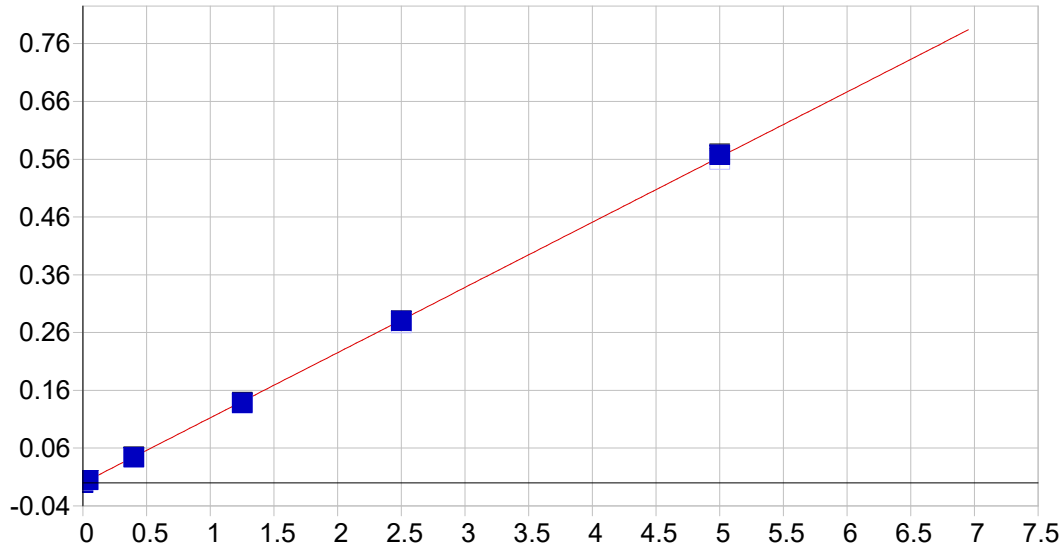
Na 589.592 { 57}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001608	Re-Slope:	1.000000
A1 (Gain):	0.006289	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.025012		
Predicted MQL:	0.083374		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00161	.000	1
S2	4.0000	3.8566	-.143	-3.58	.02586	.000	1
S3	12.500	12.083	-.417	-3.34	.07760	.000	1
S4	25.000	24.674	-.326	-1.30	.15678	.001	1
S5	50.000	50.860	.860	1.72	.32147	.002	1
S1	2.0000	2.0261	.026	1.31	.01435	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



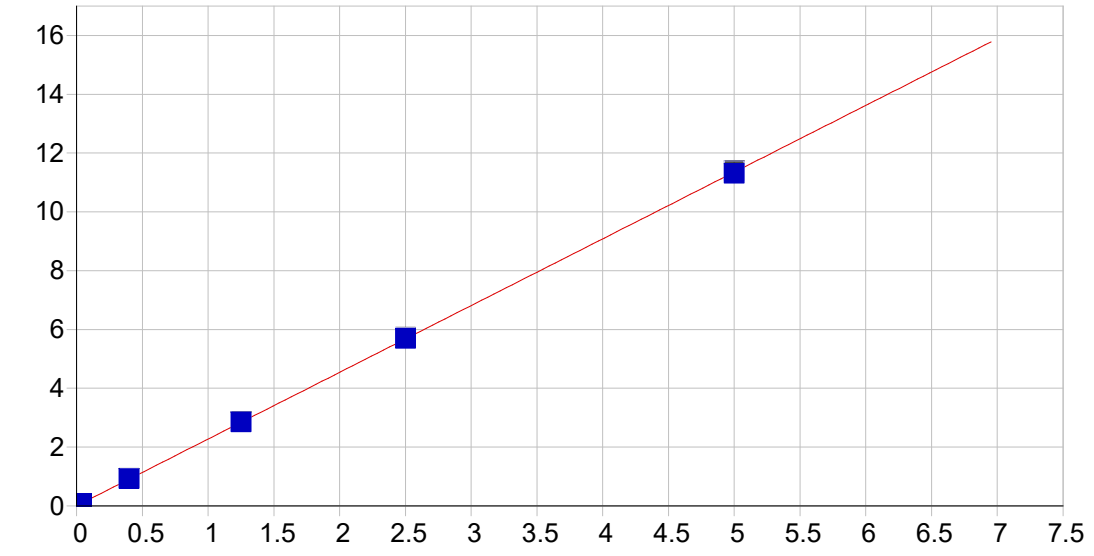
V 292.402 {115}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000338	Re-Slope:	1.000000
A1 (Gain):	0.112805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.003896		
Predicted MQL:	0.012987		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.04000	.04415	.004	10.4	.00447	.000	1
S3	1.2500	1.2310	-.019	-1.52	.13647	.001	1
S4	2.5000	2.4857	-.014	-.572	.27595	.000	1
S5	5.0000	5.0345	.035	.690	.55936	.002	1
S2	.40000	.39474	-.005	-1.32	.04353	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



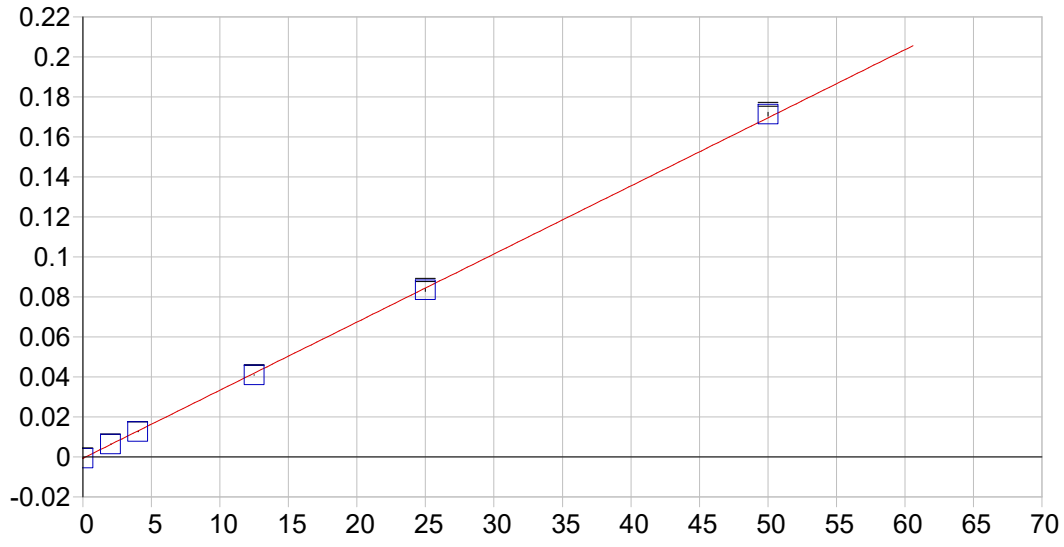
Zn 213.856 {158}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004073	Re-Slope:	1.000000
A1 (Gain):	2.269730	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000345		
Predicted MDL:	0.000266		
Predicted MQL:	0.000885		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00407	.000	1
S1	.04000	.04249	.002	6.21	.10114	.001	1
S3	1.2500	1.2522	.002	.176	2.8660	.008	1
S4	2.5000	2.5052	.005	.207	5.7296	.001	1
S5	5.0000	4.9823	-.018	-.354	11.391	.012	1
S2	.40000	.40786	.008	1.96	.93611	.004	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



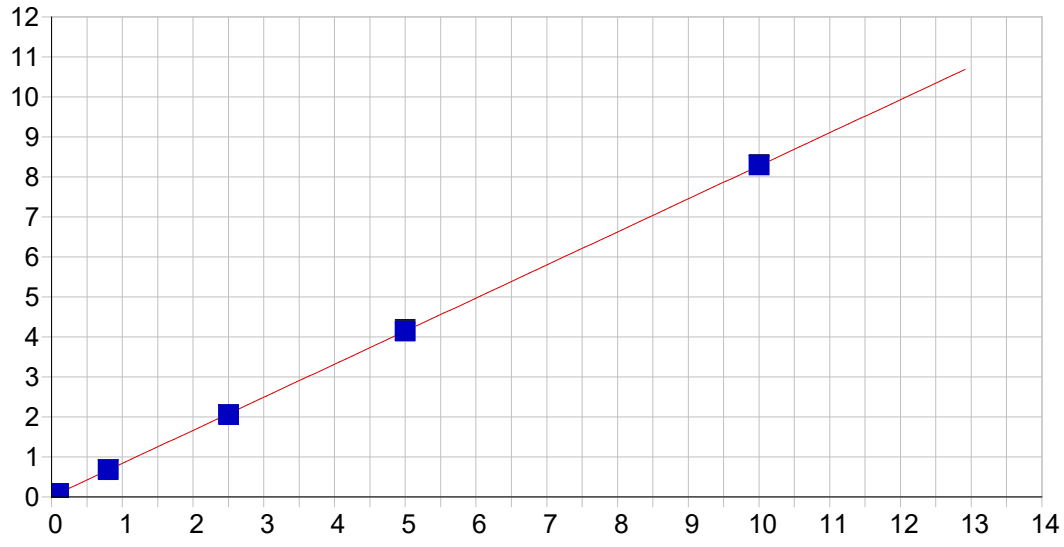
K 766.490 { 44}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000695	Re-Slope:	1.000000
A1 (Gain):	0.003405	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.055693		
Predicted MQL:	0.185642		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00070	.000	1
S2	4.0000	3.8997	-.100	-2.51	.01258	.000	1
S3	12.500	12.248	-.252	-2.02	.04101	.000	1
S4	25.000	24.730	-.270	-1.08	.08351	.001	1
S5	50.000	50.546	.546	1.09	.17141	.001	1
S1	2.0000	2.0768	.077	3.84	.00638	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



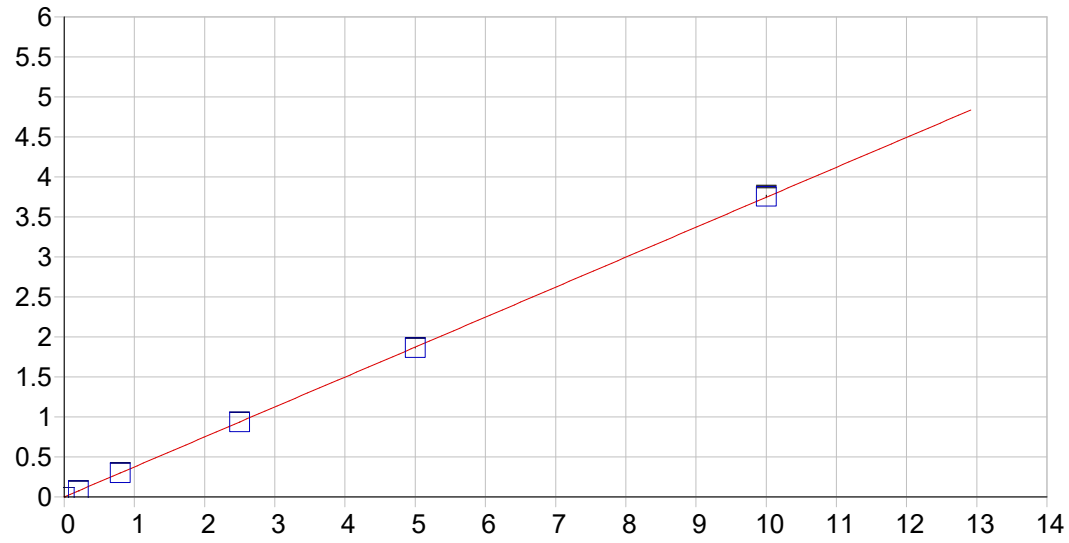
B 249.678 {135}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010836	Re-Slope:	1.000000
A1 (Gain):	0.826701	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000201		
Predicted MDL:	0.000857		
Predicted MQL:	0.002858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01084	.000	1
S1	.10000	.10073	.001	.734	.09362	.001	1
S3	2.5000	2.4730	-.027	-1.08	2.0478	.003	1
S4	5.0000	5.0017	.002	.035	4.1309	.036	1
S5	10.000	10.017	.017	.172	8.2622	.016	1
S2	.80000	.80733	.007	.917	.67587	.006	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



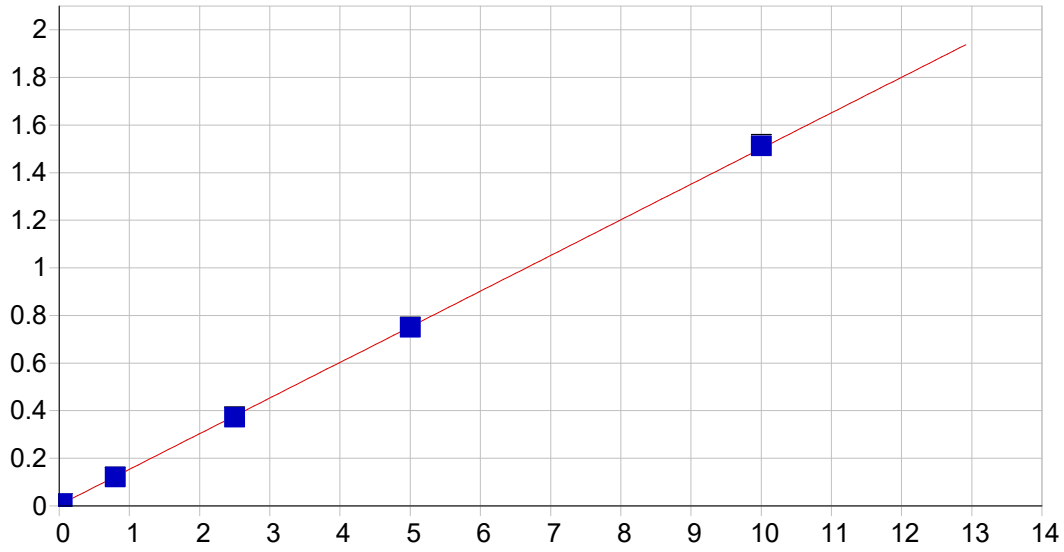
Mo 202.030 {467}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000494	Re-Slope:	1.000000
A1 (Gain):	0.374448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	0.000425		
Predicted MQL:	0.001416		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00049	.000	1
S1	.20000	.20198	.002	.989	.07612	.000	1
S3	2.5000	2.4931	-.007	-.278	.93401	.002	1
S4	5.0000	4.9764	-.024	-.472	1.8639	.003	1
S5	10.000	10.027	.027	.266	3.7549	.017	1
S2	.80000	.80193	.002	.241	.30077	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



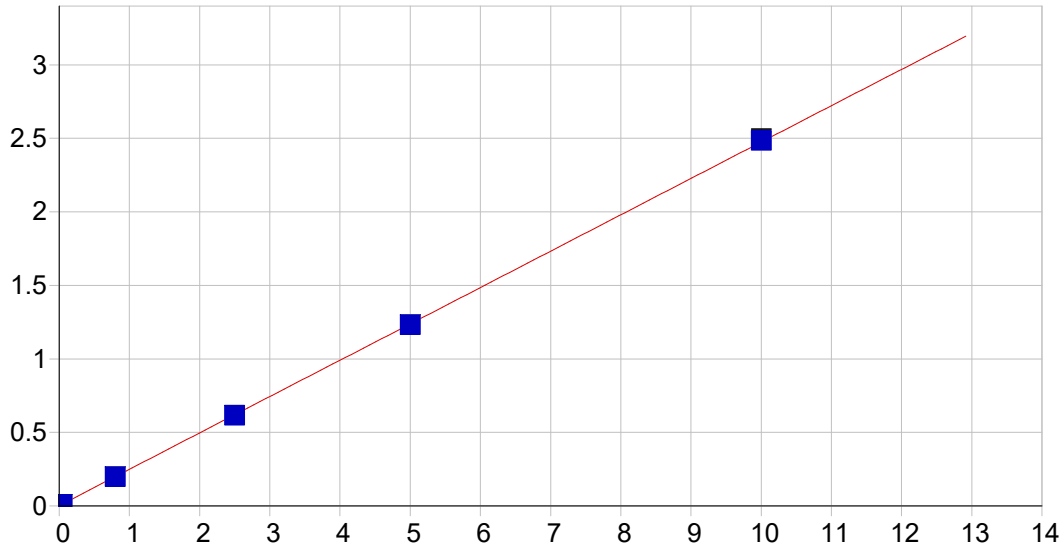
Sn 189.989 {478}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003744	Re-Slope:	1.000000
A1 (Gain):	0.149757	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	0.000672		
Predicted MQL:	0.002241		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00374	.000	1
S1	.04000	.03539	-.005	-11.5	.00904	.000	1
S3	2.5000	2.4652	-.035	-1.39	.37254	.001	1
S4	5.0000	4.9820	-.018	-.361	.74906	.001	1
S5	10.000	10.076	.076	.763	1.5112	.006	1
S2	.80000	.78121	-.019	-2.35	.12061	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



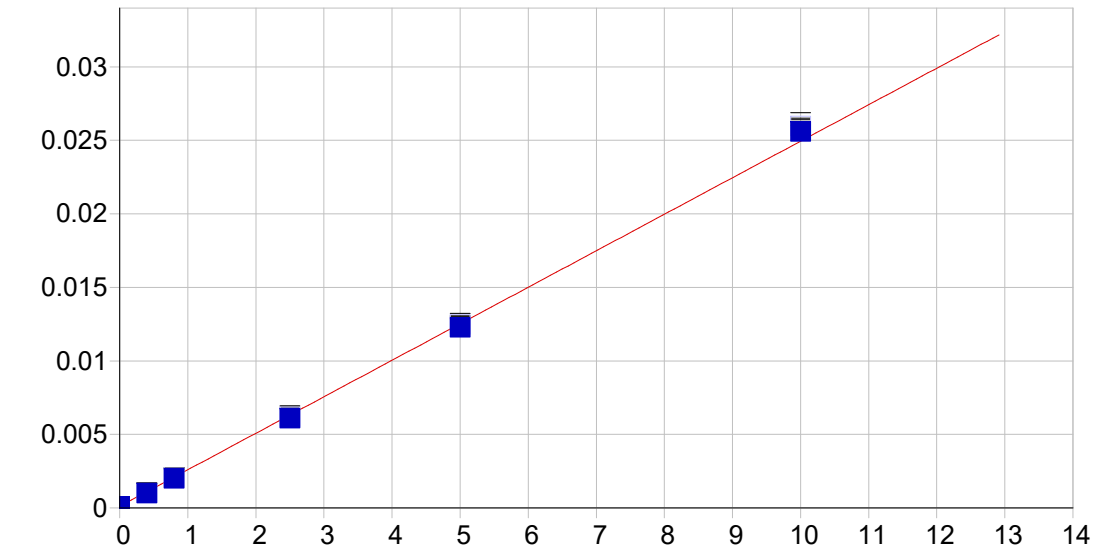
Ti 336.121 {100}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001728	Re-Slope:	1.000000
A1 (Gain):	0.247296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002292		
Predicted MQL:	0.007639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00173	.000	1
S1	.04000	.03956	-.000	-1.10	.01150	.000	1
S3	2.5000	2.4818	-.018	-.729	.61524	.002	1
S4	5.0000	4.9793	-.021	-.414	1.2326	.001	1
S5	10.000	10.046	.046	.455	2.4850	.010	1
S2	.80000	.79385	-.006	-.769	.19797	.001	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



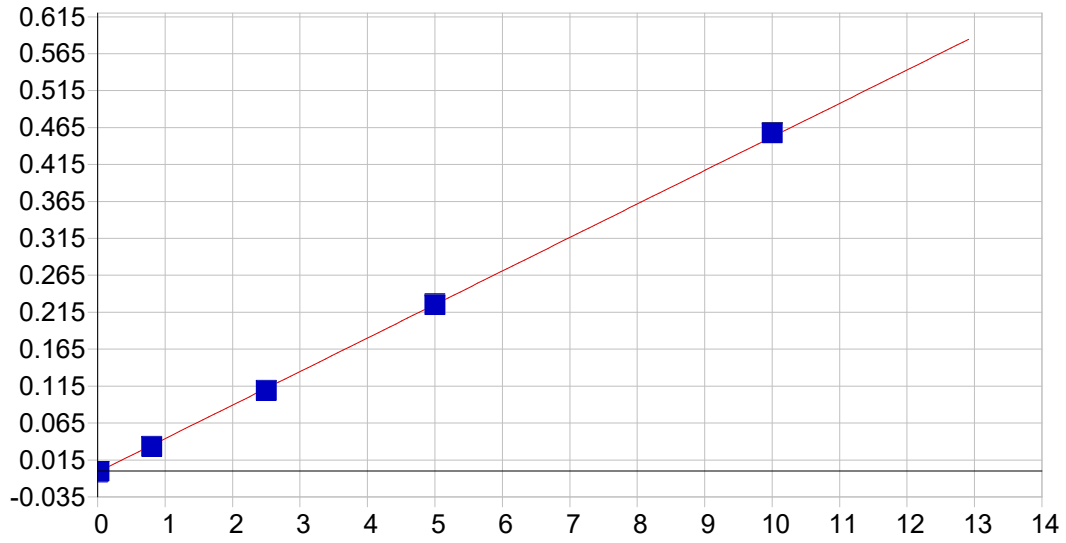
Si 288.158 {117}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000109	Re-Slope:	1.000000
A1 (Gain):	0.002483	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.016906		
Predicted MQL:	0.056354		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00011	.000	1
S1	.40000	.35951	-.040	-10.1	.00100	.000	1
S3	2.5000	2.4101	-.090	-3.60	.00619	.000	1
S4	5.0000	4.9033	-.097	-1.93	.01247	.000	1
S5	10.000	10.262	.262	2.62	.02597	.000	1
S2	.80000	.76433	-.036	-4.46	.00204	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



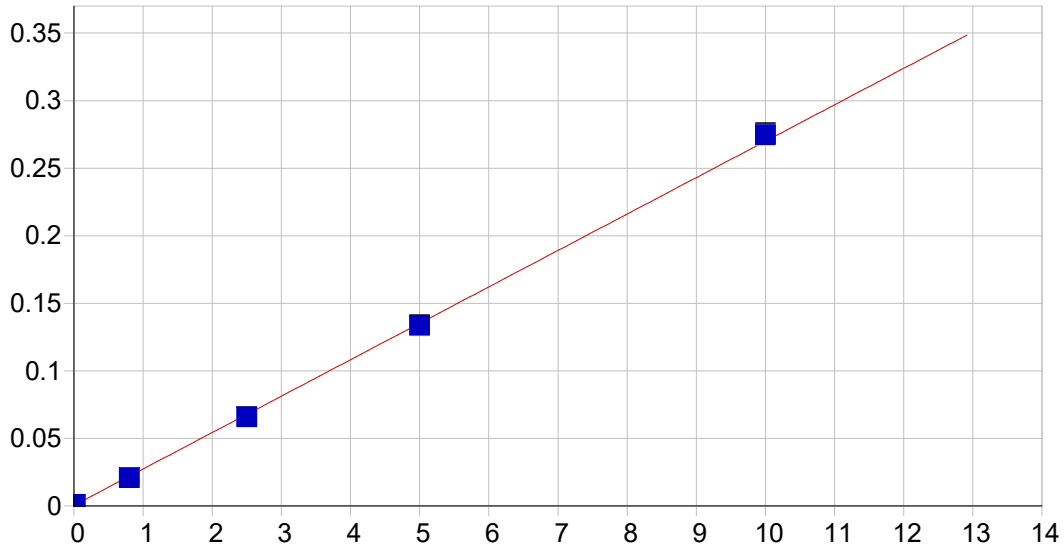
P 177.495 {490}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001444	Re-Slope:	1.000000
A1 (Gain):	0.045375	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999858	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.001799		
Predicted MQL:	0.005995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00144	.000	1
S1	.02000	.02115	.001	5.76	-.00048	.000	1
S3	2.5000	2.4330	-.067	-2.68	.10893	.000	1
S4	5.0000	4.9893	-.011	-.215	.22491	.001	1
S5	10.000	10.116	.116	1.16	.45750	.001	1
S2	.80000	.76046	-.040	-4.94	.03306	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



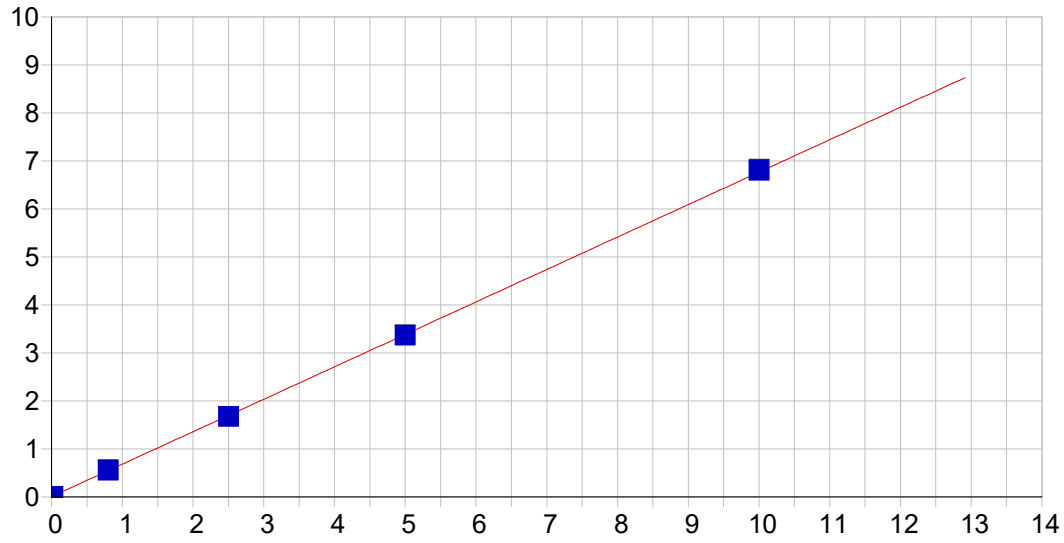
S 182.034 {485}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000396	Re-Slope:	1.000000
A1 (Gain):	0.026956	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999767	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003272		
Predicted MQL:	0.010908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00040	.000	1
S1	.02000	.01919	-.001	-4.06	.00089	.000	1
S3	2.5000	2.4245	-.075	-3.02	.06558	.000	1
S4	5.0000	4.9371	-.063	-1.26	.13313	.001	1
S5	10.000	10.181	.181	1.81	.27413	.001	1
S2	.80000	.75858	-.041	-5.18	.02079	.000	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



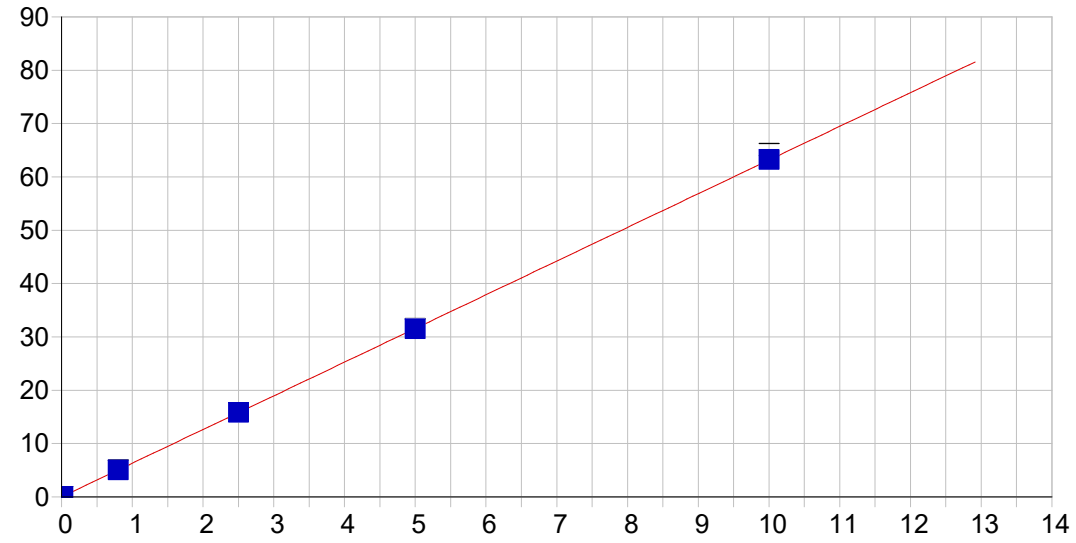
Li 670.784 { 50}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006366	Re-Slope:	1.000000
A1 (Gain):	0.675904	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	0.002641		
Predicted MQL:	0.008805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00637	.001	1
S5	10.000	10.051	.051	.507	6.8051	.023	1
S4	5.0000	4.9696	-.030	-.607	3.3681	.004	1
S3	2.5000	2.4657	-.034	-1.37	1.6743	.002	1
S1	.02000	.02047	.000	2.36	.02044	.002	1
S2	.80000	.81351	.014	1.69	.55666	.002	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



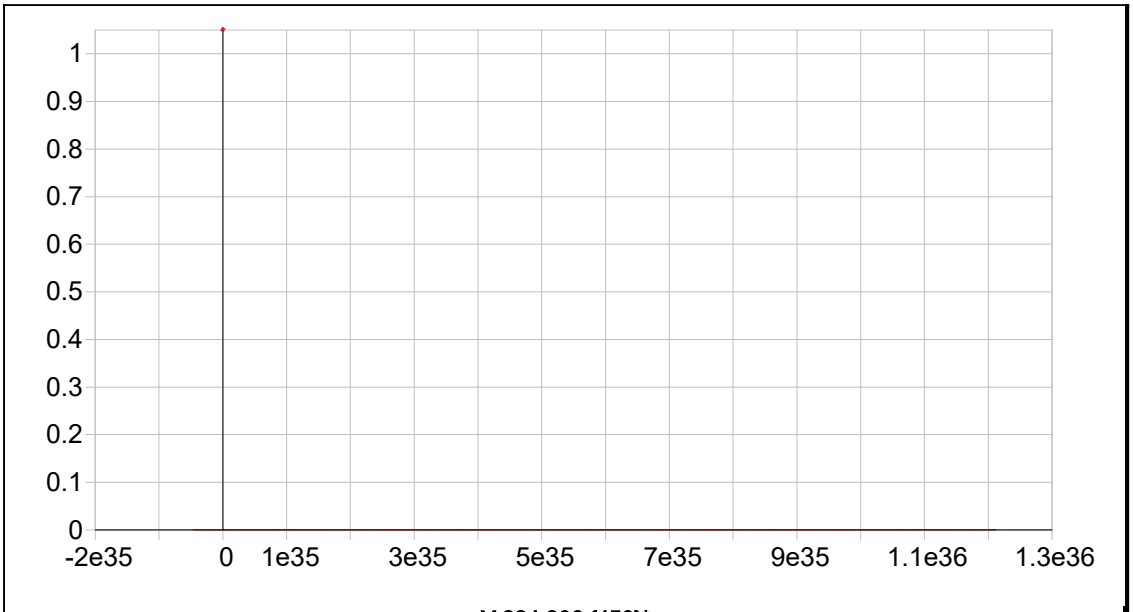
Sr 407.771 { 83}

Date of Fit:	10/3/2025 12:15:40	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002127	Re-Slope:	1.000000
A1 (Gain):	6.316125	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000459		
Predicted MDL:	0.000151		
Predicted MQL:	0.000502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00212	.000	1
S1	.02000	.02145	.001	7.27	.13824	.001	1
S3	2.5000	2.5052	.005	.209	15.841	.019	1
S4	5.0000	4.9879	-.012	-.242	31.537	.059	1
S5	10.000	10.010	.010	.095	63.284	1.13	1
S2	.80000	.79587	-.004	-.517	5.0338	.003	1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

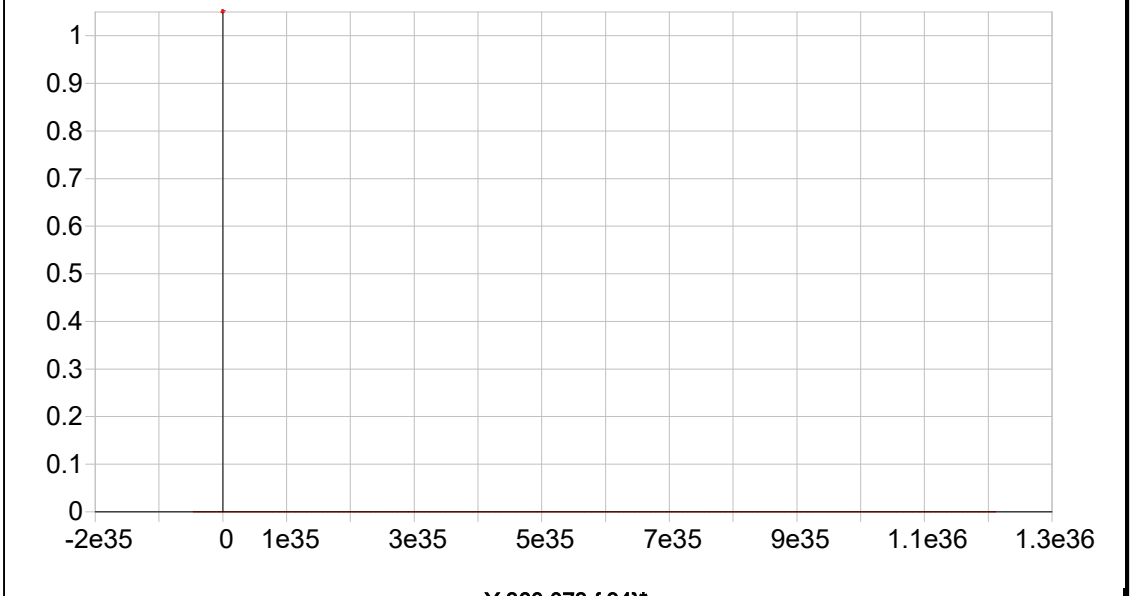


Y 224.306 {450}*

Date of Fit:	10/3/2025 12:15:40	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



Y 360.073 { 94}*

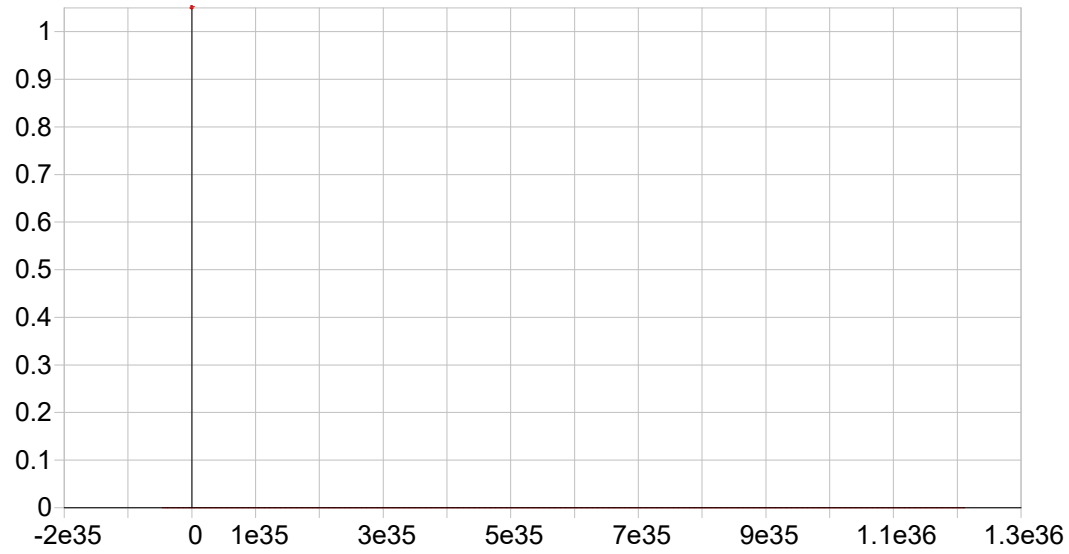
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

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

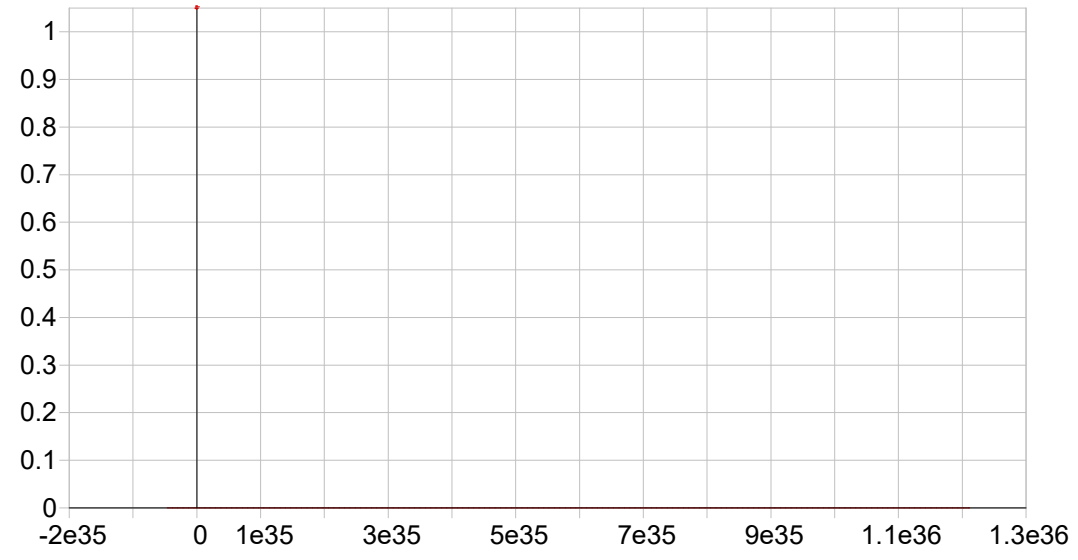


Y 371.030 { 91}*

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				
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

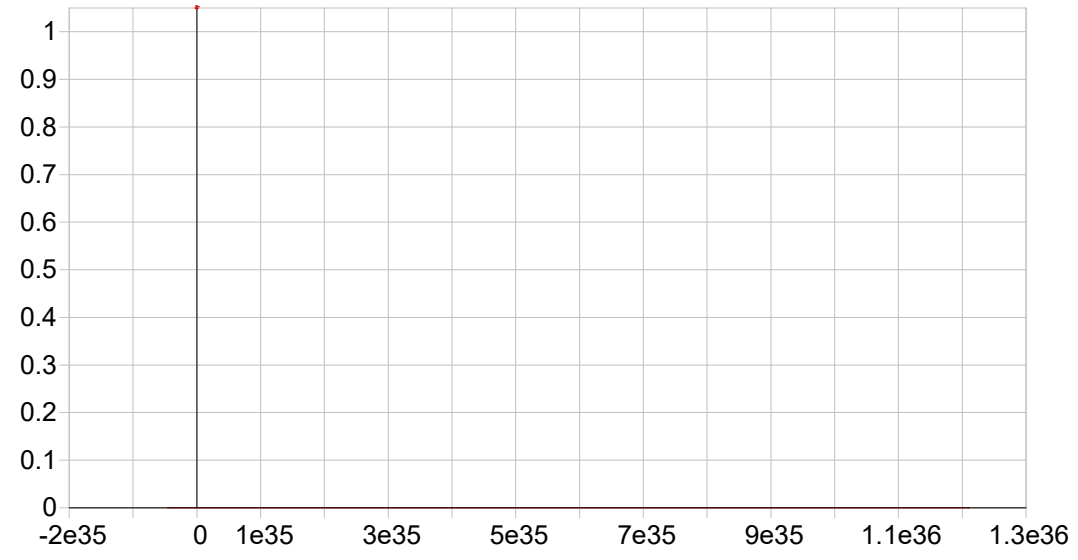
Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426



Y 224.306 {150}*

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				
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



In 230.606 {446}*

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	

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

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

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S0 Acquired: 10/3/2025 11:53:42 Type: Cal
Method: 6010-200.7 NEW(v243) 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	.00007	.00030	.00033	.00040	.00066	-.00053	.07529	-.00267
Stddev	.00008	.00016	.00033	.00006	.00012	.00033	.00126	.00019
%RSD	117.58	53.465	99.774	14.677	17.714	61.420	1.6706	7.2484
#1	.00010	.00048	.00069	.00033	.00076	-.00086	.07671	-.00286
#2	-.00002	.00026	.00003	.00043	.00053	-.00054	.07430	-.00247
#3	.00013	.00016	.00028	.00043	.00070	-.00020	.07488	-.00267

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	-.00052	.00179	.00032	.00007	.00115	.00004	.00039	-.00017
Stddev	.00023	.00067	.00012	.00012	.00017	.00001	.00023	.00038
%RSD	45.027	37.258	36.357	191.01	14.989	17.081	57.697	228.19
#1	-.00044	.00109	.00044	.00004	.00134	.00004	.00036	-.00052
#2	-.00078	.00242	.00031	.00020	.00100	.00004	.00018	.00023
#3	-.00033	.00184	.00021	-.00004	.00111	.00005	.00063	-.00021

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	-.00062	-.00061	.00161	-.00034	.00407	-.00070	.01084	.00049
Stddev	.00016	.00009	.00011	.00034	.00037	.00015	.00035	.00010
%RSD	26.139	15.022	7.1101	100.26	9.2155	21.150	3.2096	20.433
#1	-.00080	-.00065	.00163	-.00004	.00448	-.00053	.01065	.00050
#2	-.00051	-.00051	.00171	-.00027	.00396	-.00073	.01062	.00039
#3	-.00054	-.00068	.00148	-.00071	.00375	-.00082	.01124	.00059

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	.00374	.00173	.00011	-.00144	.00040	.00637	.00212
Stddev	.00004	.00030	.00001	.00008	.00001	.00134	.00043
%RSD	1.1204	17.463	9.1073	5.2730	2.7204	21.085	20.440
#1	.00375	.00150	.00010	-.00141	.00038	.00599	.00170
#2	.00378	.00207	.00011	-.00139	.00040	.00525	.00209
#3	.00370	.00162	.00012	-.00153	.00040	.00786	.00257

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S0 Acquired: 10/3/2025 11:53:42 Type: Cal
Method: 6010-200.7 NEW(v243) 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	6594.4	93175.	8137.6	5010.4	7869.7
Stddev	31.7	510.	48.2	30.2	30.7
%RSD	.48005	.54750	.59204	.60261	.38956
#1	6629.5	92595.	8091.9	4975.9	7903.3
#2	6568.0	93551.	8187.9	5023.0	7843.3
#3	6585.7	93381.	8132.8	5032.2	7862.6

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S1 Acquired: 10/3/2025 11:58:04 Type: Cal
Method: 6010-200.7 NEW(v268) 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	**.00120**	**.00256**	**.00230**	**.00129**	**.00483**	**.00755**	**.22589**	**.05439**
Stddev	.00010	.00009	.00027	.00006	.00011	.00047	.00268	.00095
%RSD	8.4229	3.4694	11.522	4.4272	2.3345	6.2276	1.1846	1.7407
#1	.00120	.00246	.00260	.00128	.00473	.00701	.22865	.05506
#2	.00130	.00262	.00208	.00124	.00495	.00787	.22570	.05330
#3	.00110	.00261	.00223	.00135	.00481	.00777	.22331	.05480

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	**.01023**	**.10249**	**.00223**	**.02250**	**.01124**	**.00030**	**.00811**	**.02287**
Stddev	.00021	.00057	.00001	.00017	.00006	.00002	.00004	.00043
%RSD	2.0946	.55985	.65071	.76323	.54242	7.8470	.53913	1.9017
#1	.01015	.10242	.00223	.02258	.01131	.00032	.00809	.02249
#2	.01007	.10196	.00221	.02262	.01122	.00028	.00816	.02335
#3	.01047	.10310	.00224	.02230	.01119	.00030	.00808	.02277

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	**.02142**	**.00137**	**.01435**	**.00447**	**.10114**	**.00638**	**.09362**	**.07612**
Stddev	.00020	.00001	.00017	.00013	.00070	.00004	.00102	.00050
%RSD	.93689	.80305	1.1804	2.9995	.68889	.62242	1.0909	.65097
#1	.02141	.00136	.01416	.00441	.10048	.00641	.09334	.07578
#2	.02123	.00138	.01448	.00439	.10107	.00639	.09277	.07590
#3	.02163	.00136	.01441	.00463	.10187	.00633	.09476	.07669

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	**.00904**	**.01150**	**.00100**	**-.00048**	**.00089**	**.02044**	**.13824**
Stddev	.00008	.00024	.00001	.00004	.00000	.00195	.00063
%RSD	.86488	2.1138	1.3794	8.8290	.27226	9.5387	.45632
#1	.00913	.01122	.00099	-.00053	.00089	.01950	.13887
#2	.00900	.01165	.00102	-.00047	.00089	.01914	.13761
#3	.00899	.01164	.00100	-.00045	.00089	.02268	.13822

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S1 Acquired: 10/3/2025 11:58:04 Type: Cal
Method: 6010-200.7 NEW(v268) 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	6715.9	92248.	8275.7	4984.3	8123.0
Stddev	24.8	320.	15.7	6.1	25.3
%RSD	.36869	.34682	.19012	.12224	.31200
#1	6713.7	92414.	8275.3	4988.3	8113.1
#2	6741.7	91879.	8291.6	4977.3	8151.8
#3	6692.3	92451.	8260.1	4987.3	8104.1

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S2 Acquired: 10/3/2025 12:02:17 Type: Cal
Method: 6010-200.7 NEW(v268) 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	**.04160**	**.04523**	**.13974**	**.02731**	**.06493**	**.11331**	**2.4281**	**.36419**
Stddev	.00039	.00152	.00042	.00008	.00031	.00215	.0049	.00210
%RSD	.93027	3.3629	.30218	.30669	.47126	1.8974	.20002	.57754
#1	.04148	.04588	.13934	.02721	.06486	.11578	2.4251	.36177
#2	.04129	.04349	.13970	.02734	.06467	.11190	2.4337	.36526
#3	.04203	.04632	.14018	.02737	.06527	.11224	2.4256	.36555

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	**.67703**	**.19817**	**.03188**	**.28963**	**.09862**	**.00194**	**.14745**	**.04314**
Stddev	.00216	.00071	.00011	.00091	.00032	.00002	.00026	.00071
%RSD	.31878	.35618	.34093	.31303	.32264	1.1956	.17800	1.6395
#1	.67535	.19807	.03185	.28917	.09827	.00197	.14743	.04246
#2	.67629	.19751	.03178	.28903	.09869	.00193	.14720	.04387
#3	.67946	.19892	.03199	.29067	.09889	.00193	.14772	.04308

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	**.21170**	**.03712**	**.02586**	**.04353**	**.93611**	**.01258**	**.67587**	**.30077**
Stddev	.00050	.00009	.00015	.00041	.00393	.00001	.00561	.00133
%RSD	.23621	.24714	.57292	.93993	.41982	.10384	.83017	.44120
#1	.21136	.03702	.02571	.04323	.93326	.01260	.66967	.30064
#2	.21146	.03715	.02588	.04337	.93449	.01257	.68060	.29952
#3	.21227	.03719	.02600	.04400	.94059	.01258	.67735	.30216

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	**.12061**	**.19797**	**.00204**	**.03306**	**.02079**	**.55666**	**5.0338**
Stddev	.00051	.00059	.00004	.00030	.00013	.00194	.0032
%RSD	.42394	.29915	2.0440	.89516	.61557	.34831	.06419
#1	.12042	.19729	.00202	.03295	.02078	.55446	5.0312
#2	.12022	.19831	.00201	.03283	.02066	.55812	5.0327
#3	.12119	.19832	.00208	.03339	.02092	.55739	5.0374

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S2 Acquired: 10/3/2025 12:02:17 Type: Cal
Method: 6010-200.7 NEW(v268) 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	6656.1	90877.	7984.8	4963.0	7954.3
Stddev	14.9	117.	40.1	8.6	15.7
%RSD	.22399	.12906	.50263	.17262	.19703
#1	6670.1	90912.	8019.8	4961.5	7968.9
#2	6657.8	90973.	7941.0	4972.3	7956.3
#3	6640.4	90746.	7993.5	4955.3	7937.8

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S3 Acquired: 10/3/2025 12:06:19 Type: Cal
Method: 6010-200.7 NEW(v268) 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	.12913	.14523	.43412	.08376	.20032	.35078	7.5506	1.1140
Stddev	.00029	.00255	.00024	.00015	.00039	.00117	.0160	.0014
%RSD	.22423	1.7580	.05432	.18130	.19350	.33352	.21224	.12291
#1	.12929	.14792	.43394	.08376	.19993	.34982	7.5322	1.1124
#2	.12880	.14493	.43402	.08362	.20033	.35208	7.5574	1.1147
#3	.12931	.14284	.43438	.08392	.20070	.35045	7.5620	1.1149

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	2.1253	.61439	.09794	.90176	.30058	.00609	.45492	.13086
Stddev	.0026	.00066	.00055	.00113	.00061	.00004	.00033	.00054
%RSD	.12060	.10779	.56383	.12518	.20138	.60208	.07352	.41045
#1	2.1263	.61376	.09749	.90138	.30077	.00608	.45478	.13044
#2	2.1224	.61434	.09779	.90088	.29990	.00607	.45468	.13068
#3	2.1272	.61508	.09856	.90304	.30106	.00614	.45530	.13147

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	.65675	.11568	.07760	.13647	2.8660	.04101	2.0478	.93401
Stddev	.00095	.00009	.00022	.00065	.0077	.00016	.0035	.00161
%RSD	.14456	.07669	.28755	.47411	.27041	.39766	.17011	.17271
#1	.65669	.11565	.07745	.13572	2.8721	.04092	2.0447	.93446
#2	.65583	.11561	.07749	.13687	2.8572	.04091	2.0516	.93222
#3	.65772	.11578	.07786	.13681	2.8686	.04120	2.0472	.93535

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	.37254	.61524	.00619	.10893	.06558	1.6743	15.841
Stddev	.00078	.00157	.00009	.00020	.00018	.0016	.019
%RSD	.20827	.25461	1.4404	.18251	.27410	.09291	.12017
#1	.37314	.61518	.00609	.10915	.06551	1.6726	15.820
#2	.37166	.61370	.00623	.10890	.06544	1.6746	15.845
#3	.37281	.61683	.00625	.10876	.06578	1.6756	15.857

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S3 Acquired: 10/3/2025 12:06:19 Type: Cal
Method: 6010-200.7 NEW(v268) 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	6630.8	91211.	8121.5	4908.0	7811.5
Stddev	.7	477.	27.3	23.8	4.4
%RSD	.01062	.52312	.33671	.48399	.05604
#1	6631.0	91591.	8144.5	4914.1	7806.5
#2	6631.5	91366.	8128.7	4928.1	7813.3
#3	6630.1	90676.	8091.2	4881.8	7814.6

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S4 Acquired: 10/3/2025 12:10:14 Type: Cal
Method: 6010-200.7 NEW(v268) 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	**.26086**	**.26231**	**.88068**	**.16746**	**.40309**	**.70909**	**15.059**	**2.2259**
Stddev	.00051	.00510	.00126	.00035	.00072	.00177	.017	.0183
%RSD	.19379	1.9462	.14270	.20822	.17812	.24918	.11057	.82380
#1	.26089	.25885	.87989	.16753	.40243	.70988	15.068	2.2162
#2	.26033	.25991	.88002	.16708	.40298	.70707	15.070	2.2143
#3	.26134	.26817	.88213	.16777	.40385	.71033	15.040	2.2470

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	**4.3349**	**1.2319**	**.19550**	**1.8349**	**.59840**	**.01216**	**.90794**	**.26456**
Stddev	.0080	.0007	.00052	.0023	.00095	.00013	.00210	.00165
%RSD	.18328	.05881	.26626	.12478	.15906	1.0297	.23076	.62510
#1	4.3304	1.2313	.19526	1.8347	.59784	.01222	.90877	.26399
#2	4.3301	1.2327	.19610	1.8327	.59787	.01225	.90556	.26326
#3	4.3440	1.2318	.19514	1.8373	.59950	.01202	.90949	.26642

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	**1.3320**	**.23152**	**.15678**	**.27595**	**5.7296**	**.08351**	**4.1309**	**1.8639**
Stddev	.0014	.00030	.00094	.00028	.0011	.00079	.0363	.0025
%RSD	.10229	.13067	.60125	.10063	.01937	.94115	.87950	.13465
#1	1.3310	.23175	.15730	.27590	5.7302	.08377	4.1103	1.8633
#2	1.3314	.23163	.15736	.27570	5.7303	.08413	4.1095	1.8618
#3	1.3335	.23118	.15570	.27625	5.7283	.08263	4.1728	1.8667

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	**.74906**	**1.2326**	**.01247**	**.22491**	**.13313**	**3.3681**	**31.537**
Stddev	.00133	.0013	.00009	.00143	.00055	.0043	.059
%RSD	.17773	.10438	.70699	.63697	.41246	.12662	.18831
#1	.74940	1.2312	.01247	.22495	.13323	3.3703	31.539
#2	.74759	1.2329	.01256	.22345	.13254	3.3632	31.476
#3	.75019	1.2337	.01238	.22632	.13362	3.3707	31.595

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S4 Acquired: 10/3/2025 12:10:14 Type: Cal
Method: 6010-200.7 NEW(v268) 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	6495.6	89547.	7978.6	4797.1	7510.8
Stddev	10.9	182.	53.4	22.7	7.6
%RSD	.16796	.20366	.66912	.47220	.10104
#1	6501.1	89428.	7987.4	4777.9	7513.4
#2	6483.1	89455.	8027.0	4791.4	7502.2
#3	6502.7	89757.	7921.3	4822.1	7516.7

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S5 Acquired: 10/3/2025 12:14:16 Type: Cal
Method: 6010-200.7 NEW(v268) 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	**.52420**	**.49903**	**1.7970**	**.33346**	**.80919**	**1.4235**	**30.193**	**4.4232**
Stddev	.00292	.00509	.0051	.00170	.00334	.0073	.050	.0126
%RSD	.55796	1.0205	.28392	.51062	.41335	.51074	.16592	.28406
#1	.52271	.49981	1.7917	.33272	.80766	1.4152	30.160	4.4087
#2	.52233	.49359	1.7974	.33225	.80687	1.4263	30.169	4.4300
#3	.52757	.50368	1.8019	.33540	.81302	1.4289	30.251	4.4308

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	**8.7871**	**2.4609**	**.39059**	**3.7526**	**1.1884**	**.02471**	**1.8152**	**.53080**
Stddev	.0285	.0094	.00234	.0136	.0040	.00018	.0094	.00300
%RSD	.32471	.38291	.59794	.36195	.33368	.71044	.51658	.56590
#1	8.7614	2.4503	.38893	3.7417	1.1866	.02458	1.8049	.52750
#2	8.7821	2.4640	.39326	3.7483	1.1856	.02491	1.8233	.53337
#3	8.8178	2.4684	.38957	3.7678	1.1929	.02465	1.8174	.53154

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	**2.7110**	**.46852**	**.32147**	**.55936**	**11.391**	**.17141**	**8.2622**	**3.7549**
Stddev	.0095	.00147	.00212	.00154	.012	.00098	.0157	.0168
%RSD	.35161	.31460	.65827	.27442	.10739	.57435	.18998	.44614
#1	2.7025	.46725	.31968	.55785	11.391	.17050	8.2457	3.7481
#2	2.7092	.47013	.32381	.55930	11.404	.17246	8.2641	3.7427
#3	2.7213	.46817	.32093	.56092	11.379	.17127	8.2769	3.7740

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	**1.5112**	**2.4850**	**.02597**	**.45750**	**.27413**	**6.8051**	**63.284**
Stddev	.0062	.0099	.00023	.00078	.00146	.0234	1.132
%RSD	.40781	.39813	.90379	.17062	.53239	.34427	1.7890
#1	1.5077	2.4736	.02570	.45743	.27388	6.7782	61.992
#2	1.5076	2.4903	.02607	.45676	.27280	6.8208	63.756
#3	1.5183	2.4912	.02613	.45832	.27569	6.8163	64.104

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: S5 Acquired: 10/3/2025 12:14:16 Type: Cal
Method: 6010-200.7 NEW(v268) 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	6402.6	88871.	7986.7	4719.4	7264.5
Stddev	5.9	712.	38.1	41.3	8.6
%RSD	.09177	.80146	.47669	.87463	.11841
#1	6397.2	89351.	8017.5	4745.0	7265.1
#2	6401.8	88052.	7944.1	4671.8	7255.7
#3	6408.8	89209.	7998.4	4741.4	7272.8

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICV01 Acquired: 10/3/2025 12:18:28 Type: Unk
Method: 6010-200.7 NEW(v268) 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	**3.942105**	**3.752499**	**3.835827**	**3.957510**	**4.032647**	**7.853491**
Stddev	.007778	.042858	.006506	.010102	.005756	.028135
%RSD	.1973009	1.142123	.1696053	.2552630	.1427234	.3582510
#1	3.947841	3.801143	3.842962	3.969133	4.038336	7.852635
#2	3.933252	3.736058	3.830224	3.950839	4.026827	7.825794
#3	3.945222	3.720295	3.834295	3.952559	4.032777	7.882045

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.904980**	**.1991921**	**1.954288**	**19.61760**	**.7992967**	**1.953304**
Stddev	.014916	.0011829	.004548	.04282	.0016961	.004386
%RSD	.1886899	.5938236	.2326940	.2182848	.2121975	.2245677
#1	7.915236	.2001903	1.959537	19.57945	.7976240	1.958360
#2	7.887869	.1978856	1.951533	19.66392	.7992508	1.950509
#3	7.911835	.1995003	1.951794	19.60943	.8010152	1.951044

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.006044**	**3.953503**	**1.982159**	**19.59122**	**1.958695**	**.9601288**
Stddev	.001571	.037101	.000959	.05604	.003890	.0030053
%RSD	.1561372	.9384391	.0483978	.2860599	.1985852	.3130111
#1	1.007212	3.910920	1.982291	19.53119	1.963185	.9573204
#2	1.004258	3.970730	1.981141	19.60031	1.956536	.9597676
#3	1.006662	3.978860	1.983046	19.64216	1.956364	.9632984

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.34078**	**1.958509**	**1.980491**	**19.43479**	**3.952723**	**4.008753**
Stddev	.12358	.002219	.000122	.15538	.029312	.007755
%RSD	.6389780	.1132969	.0061711	.7994897	.7415620	.1934594
#1	19.19817	1.958385	1.980445	19.27146	3.979878	4.016296
#2	19.41656	1.956355	1.980398	19.58075	3.921648	4.000802
#3	19.40761	1.960787	1.980629	19.45218	3.956641	4.009162

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICV01 Acquired: 10/3/2025 12:18:28 Type: Unk
Method: 6010-200.7 NEW(v268) 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	3.961390	4.007454	3.611010	F .0056960	F .0252408	F .0043725
Stddev	.013240	.008061	.038067	.0006660	.0023768	.0024944
%RSD	.3342165	.2011475	1.054196	11.69300	9.416446	57.04761
#1	3.975074	3.999231	3.574142	.0059904	.0225883	.0070209
#2	3.948645	4.015343	3.650173	.0061641	.0271772	.0040291
#3	3.960450	4.007786	3.608716	.0049335	.0259570	.0020676

Elem	Sr4077
Units	ppm
Avg	F -.003086
Stddev	.000059
%RSD	1.912994
#1	-.003020
#2	-.003133
#3	-.003105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6638.825	91448.11	8181.235	4898.480	7777.874
Stddev	28.204	420.99	36.805	17.465	38.545
%RSD	.4248391	.4603637	.4498771	.3565312	.4955719
#1	6611.710	91900.12	8145.288	4917.712	7736.217
#2	6668.005	91067.18	8218.843	4883.610	7812.277
#3	6636.759	91377.03	8179.573	4894.118	7785.127

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LLICV01 Acquired: 10/3/2025 13:05:13 Type: Unk
Method: 6010-200.7 NEW(v268) 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	**.0219620**	**.0417994**	**.0128358**	**.0192565**	**.0537822**	**.1143579**
Stddev	.0010277	.0026262	.0011422	.0009698	.0016798	.0058608
%RSD	4.679401	6.282821	8.898723	5.036296	3.123386	5.125008
#1	.0210491	.0444769	.0124314	.0203445	.0539732	.1109147
#2	.0217618	.0392277	.0119507	.0189420	.0520150	.1110340
#3	.0230750	.0416937	.0141252	.0184830	.0553583	.1211251

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0991464**	**.0065056**	**.0060503**	**2.062113**	**.0103781**	**.0300579**
Stddev	.0006064	.0000448	.0000953	.011042	.0003110	.0000360
%RSD	.6116069	.6880759	1.574884	.5354535	2.996224	.1198861
#1	.0990166	.0065561	.0061475	2.066924	.0106461	.0300990
#2	.0986154	.0064897	.0059571	2.049482	.0100372	.0300321
#3	.0998072	.0064709	.0060463	2.069933	.0104510	.0300425

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0213234**	**.0929378**	**.0211692**	**2.157802**	**.0413326**	**.0102340**
Stddev	.0007095	.0069687	.0003784	.030386	.0002854	.0001440
%RSD	3.327159	7.498258	1.787672	1.408186	.6905922	1.406550
#1	.0213287	.0850870	.0210397	2.145179	.0410054	.0100915
#2	.0220302	.0953342	.0215954	2.135762	.0415305	.0103794
#3	.0206113	.0983920	.0208726	2.192465	.0414619	.0102313

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.994059**	**.0392204**	**.0424222**	**1.960129**	**.0965091**	**.1997598**
Stddev	.019384	.0025168	.0002121	.042379	.0009384	.0005777
%RSD	.9720973	6.417180	.4999556	2.162039	.9722873	.2891930
#1	1.973202	.0366549	.0423921	1.991214	.0971984	.2002017
#2	1.997453	.0416855	.0426477	1.911856	.0954405	.1991061
#3	2.011522	.0393208	.0422268	1.977316	.0968885	.1999716

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LLICV01 Acquired: 10/3/2025 13:05:13 Type: Unk
Method: 6010-200.7 NEW(v268) 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	.0348108	.0406400	.3548723	.0202102	.0226262	F .0275792
Stddev	.0002690	.0023400	.0162999	.0013260	.0005336	.0014067
%RSD	.7726005	5.757916	4.593167	6.561035	2.358180	5.100526
#1	.0345037	.0380107	.3593299	.0200120	.0231479	.0290243
#2	.0350043	.0414154	.3368073	.0216241	.0220815	.0262144
#3	.0349244	.0424939	.3684796	.0189944	.0226493	.0274990

Elem	Sr4077
Units	ppm
Avg	.0218149
Stddev	.0000443
%RSD	.2030138
#1	.0218085
#2	.0217741
#3	.0218620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6715.912	93385.08	8142.982	5075.280	8080.447
Stddev	22.158	464.64	30.526	38.144	24.435
%RSD	.3299342	.4975496	.3748719	.7515597	.3023922
#1	6739.317	93751.25	8141.815	5112.025	8106.617
#2	6713.162	93541.60	8174.075	5077.939	8076.496
#3	6695.258	92862.39	8113.057	5035.877	8058.229

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICB01 Acquired: 10/3/2025 13:12:23 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0012477	.0017327	-.001312	.0032150	.0018706	.0115623	.0011530
Stddev	.0008263	.0010411	.000547	.0005365	.0007462	.0161287	.0010562
%RSD	66.22296	60.08429	41.65125	16.68751	39.88840	139.4935	91.60328
#1	.0021185	.0020202	-.001896	.0031190	.0014278	.0294540	.0009972
#2	.0011498	.0025997	-.000813	.0027330	.0027321	-.001861	.0022784
#3	.0004747	.0005781	-.001227	.0037930	.0014520	.007094	.0001833

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001075	-.000048	-.022602	-.000141	.0001089	-.000188	-.014455
Stddev	.0000437	.000111	.007569	.000113	.0001601	.000287	.005613
%RSD	40.60731	229.0890	33.48960	79.87976	146.9740	152.7525	38.82990
#1	.0001085	-.000164	-.014189	-.000222	.0000741	-.000346	-.017515
#2	.0000634	.000056	-.028861	-.000012	.0002835	-.000361	-.007977
#3	.0001507	-.000037	-.024756	-.000189	-.000031	.000143	-.017872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000355	.0209007	.0003017	.0002559	-.027516	.0061441	.0000240
Stddev	.0003061	.0178250	.0001311	.0004260	.010968	.0050373	.0000676
%RSD	861.0828	85.28449	43.47267	166.5069	39.85916	81.98625	281.6011
#1	-.000183	.0325534	.0002384	.0001762	-.040164	.0049286	-.000027
#2	.000385	.0003810	.0002142	-.000125	-.021742	.0116779	-.000002
#3	-.000095	.0297676	.0004525	.000716	-.020641	.0018257	.000101

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.036987	-.007601	.0003037	-.004518	.0014862	-.009741	.0006305
Stddev	.004773	.000372	.0001507	.000475	.0016939	.004397	.0019171
%RSD	12.90371	4.891441	49.61475	10.50689	113.9770	45.13757	304.0556
#1	-.042035	-.007261	.0001538	-.004091	.0006565	-.004826	-.001208
#2	-.036379	-.007544	.0003021	-.004434	.0034350	-.013300	.000483
#3	-.032548	-.007998	.0004551	-.005029	.0003670	-.011097	.002617

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICB01 Acquired: 10/3/2025 13:12:23 Type: Unk
Method: 6010-200.7 NEW(v269) 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	-.000824	.0034130	.0000886
Stddev	.002503	.0014781	.0001589
%RSD	303.8365	43.30795	179.3432
#1	-.002986	.0017228	.0002449
#2	.001918	.0044635	-.000073
#3	-.001403	.0040528	.000094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6675.727	94421.86	8081.728	5025.570	8069.377
Stddev	21.266	189.70	45.643	4.487	17.527
%RSD	.3185540	.2009066	.5647739	.0892790	.2172044
#1	6662.064	94482.83	8127.544	5030.730	8063.282
#2	6664.889	94573.58	8081.382	5023.395	8055.711
#3	6700.228	94209.17	8036.259	5022.585	8089.138

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CRI01 Acquired: 10/3/2025 13:16:40 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0213902	.0394143	.0102307	.0211859	.0506307	.1179152	.1002790
Stddev	.0007567	.0010319	.0004395	.0013629	.0017346	.0100347	.0017373
%RSD	3.537629	2.617977	4.296014	6.433109	3.426020	8.510081	1.732471
#1	.0219184	.0403829	.0098668	.0226815	.0487820	.1100467	.0996548
#2	.0217289	.0383291	.0101064	.0208620	.0522226	.1292156	.1022422
#3	.0205233	.0395310	.0107190	.0200140	.0508875	.1144834	.0989401

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064871	.0060389	2.058792	.0099024	.0296834	.0211963	.0912277
Stddev	.0001217	.0001000	.010035	.0002660	.0001262	.0003266	.0061461
%RSD	1.876638	1.656611	.4874384	2.685967	.4250147	1.540946	6.737136
#1	.0063485	.0060751	2.049468	.0098963	.0297584	.0215302	.0876146
#2	.0065768	.0059258	2.069412	.0096396	.0295377	.0208775	.0983243
#3	.0065358	.0061158	2.057495	.0101714	.0297539	.0211813	.0877444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209566	2.143149	.0408797	.0105006	1.908141	.0397985	.0420068
Stddev	.0006497	.017452	.0003105	.0002907	.027405	.0053346	.0001872
%RSD	3.100269	.8143181	.7596686	2.768295	1.436194	13.40388	.4455888
#1	.0202068	2.135117	.0406115	.0101737	1.880203	.0346269	.0420881
#2	.0213098	2.131159	.0408077	.0105982	1.934979	.0452823	.0421396
#3	.0213531	2.163171	.0412199	.0107300	1.909242	.0394863	.0417928

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.890380	.0966190	.1995693	.0339321	.0381501	.3426531	.0205146
Stddev	.029689	.0007152	.0002190	.0003516	.0011578	.0123289	.0010539
%RSD	1.570512	.7402545	.1097465	1.036205	3.034880	3.598082	5.137303
#1	1.898292	.0958741	.1993211	.0342907	.0371478	.3499704	.0194110
#2	1.857536	.0966827	.1996513	.0335879	.0378851	.3284187	.0206222
#3	1.915311	.0973003	.1997354	.0339178	.0394175	.3495701	.0215105

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CRI01 Acquired: 10/3/2025 13:16:40 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0215084	.0223105	.0213053
Stddev	.0001451	.0020927	.0001127
%RSD	.6745064	9.379732	.5289752
#1	.0216422	.0221105	.0211969
#2	.0213542	.0203250	.0214218
#3	.0215288	.0244960	.0212972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6826.296	94966.60	8176.969	5115.687	8305.685
Stddev	17.138	190.15	27.833	14.836	26.903
%RSD	.2510609	.2002286	.3403796	.2900160	.3239114
#1	6844.779	94823.29	8206.768	5130.311	8333.775
#2	6823.178	94894.20	8172.495	5100.648	8303.130
#3	6810.931	95182.32	8151.645	5116.103	8280.151

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSA01 Acquired: 10/3/2025 13:20:52 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**.0084058**	**.0113057**	**.0009702**	**.0092732**	**.0035164**	**245.0059**
Stddev	.0018208	.0014838	.0019009	.0038958	.0026309	.7902
%RSD	21.66087	13.12447	195.9310	42.01137	74.81654	.3225282
#1	.0093874	.0097115	-.000824	.0056459	.0010241	244.1166
#2	.0063049	.0115591	.002962	.0087827	.0062668	245.6274
#3	.0095252	.0126464	.000773	.0133910	.0032583	245.2737

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016618**	**.0014245**	**.0009095**	**236.3756**	**.0465976**	**.0006771**
Stddev	.0018712	.0000973	.0002430	.6289	.0003763	.0001498
%RSD	112.6027	6.831056	26.71993	.2660694	.8075621	22.11856
#1	-.000436	.0013131	.0011901	235.6536	.0467472	.0008404
#2	.002264	.0014929	.0007646	236.8044	.0461695	.0006448
#3	.003158	.0014674	.0007739	236.6688	.0468761	.0005461

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030598**	**99.62991**	**-.001761**	**246.5722**	**.0039301**	**.0014097**
Stddev	.0014138	.69017	.000869	.5687	.0001061	.0007062
%RSD	46.20724	.6927335	49.37533	.2306547	2.698486	50.09846
#1	.0038459	99.53149	-.000758	245.9210	.0039436	.0010238
#2	.0039059	98.99423	-.002300	246.8241	.0040288	.0009805
#3	.0014276	100.3640	-.002223	246.9714	.0038180	.0022249

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1272052**	**.0048350**	**.0016588**	**.1869151**	**.0340688**	**.0002898**
Stddev	.0065777	.0017064	.0002390	.0425714	.0039496	.0004425
%RSD	5.170960	35.29221	14.40613	22.77578	11.59292	152.6814
#1	.1208341	.0046092	.0019333	.1895428	.0359481	-.000140
#2	.1268097	.0066430	.0015461	.2281118	.0295305	.000744
#3	.1339718	.0032528	.0014971	.1430908	.0367279	.000266

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSA01 Acquired: 10/3/2025 13:20:52 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0029167	-.004840	.0210824	.0055008	-.005546	F -.023538
Stddev	.0002723	.001269	.0002493	.0017316	.002733	.001933
%RSD	9.335951	26.22115	1.182453	31.47818	49.28042	8.213426
#1	.0026045	-.005280	.0209190	.0046372	-.008536	-.022005
#2	.0031053	-.003409	.0213693	.0074943	-.003177	-.025710
#3	.0030403	-.005830	.0209589	.0043709	-.004926	-.022900

Elem	Sr4077
Units	ppm
Avg	.0062628
Stddev	.0009227
%RSD	14.73375
#1	.0054984
#2	.0072878
#3	.0060022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6162.894	85309.60	7991.316	4621.101	7000.994
Stddev	3.352	531.95	50.787	34.379	10.831
%RSD	.0543899	.6235480	.6355260	.7439625	.1547135
#1	6159.309	85444.46	8049.592	4624.679	6995.312
#2	6163.425	85761.15	7956.503	4653.552	6994.185
#3	6165.950	84723.21	7967.853	4585.073	7013.484

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSAB01 Acquired: 10/3/2025 13:25:02 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.1096902	.1046148	.0490651	.0564404	.6093014	247.1323
Stddev	.0050988	.0064425	.0021758	.0014055	.0005689	.3127
%RSD	4.648396	6.158317	4.434419	2.490293	.0933709	.1265159
#1	.1054110	.1096645	.0510951	.0548202	.6098619	246.8229
#2	.1153318	.0973590	.0467683	.0573333	.6087244	247.4481
#3	.1083277	.1068209	.0493320	.0571676	.6093180	247.1259

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4960244	.5160295	.9803816	235.4838	.5527621	.4911790
Stddev	.0047421	.0024038	.0011228	.4558	.0017042	.0005778
%RSD	.9560175	.4658156	.1145262	.1935456	.3082974	.1176248
#1	.4920651	.5147618	.9816261	235.0122	.5509712	.4916526
#2	.4947283	.5188017	.9800743	235.5173	.5543637	.4905353
#3	.5012798	.5145250	.9794445	235.9218	.5529513	.4913491

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4843382	97.52496	.4917773	247.9833	.9806717	.2084624
Stddev	.0010447	.59858	.0021181	.6029	.0004816	.0002558
%RSD	.2156976	.6137690	.4306977	.2431376	.0491107	.1227178
#1	.4841680	97.29768	.4902728	247.3279	.9811605	.2083636
#2	.4854575	97.07332	.4908597	248.5144	.9801976	.2082708
#3	.4833890	98.20390	.4941995	248.1076	.9806569	.2087529

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0921814	.4845262	1.030716	.0151608	1.038336	1.019430
Stddev	.0210221	.0044639	.002734	.0109750	.005219	.000635
%RSD	22.80519	.9212808	.2652972	72.39025	.5026111	.0622846
#1	.0700085	.4793914	1.033300	.0205900	1.037765	1.020134
#2	.1118237	.4867041	1.030995	.0223630	1.043817	1.018899
#3	.0947119	.4874830	1.027853	.0025294	1.033426	1.019258

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSAB01 Acquired: 10/3/2025 13:25:02 Type: Unk
Method: 6010-200.7 NEW(v269) 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	1.011018	1.004461	.9777460	F .0056567	F .0029772	F -.026902
Stddev	.000773	.003947	.0056085	.0030486	.0027922	.001693
%RSD	.0764247	.3929853	.5736190	53.89403	93.78636	6.292398
#1	1.011280	1.005559	.9841180	.0069168	.0002525	-.028581
#2	1.011625	1.000081	.9755619	.0021801	.0028467	-.026931
#3	1.010148	1.007743	.9735580	.0078733	.0058324	-.025196

Elem	Sr4077
Units	ppm
Avg	F .0065928
Stddev	.0002221
%RSD	3.368950
#1	.0065731
#2	.0068242
#3	.0063813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6157.666	84233.39	7770.782	4597.267	6991.343
Stddev	5.522	180.03	48.595	18.579	3.228
%RSD	.0896744	.2137241	.6253611	.4041393	.0461657
#1	6163.941	84266.63	7792.546	4603.556	6988.410
#2	6155.511	84039.06	7715.109	4576.359	6994.801
#3	6153.547	84394.48	7804.691	4611.885	6990.818

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSADLX20 Acquired: 10/3/2025 13:29:04 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.000029**	**.0038309**	**-.003039**	**.0026796**	**.0005292**	**11.69961**	**-.002589**
Stddev	.002453	.0025905	.001260	.0020429	.0006845	.03065	.001209
%RSD	8474.774	67.61957	41.47013	76.23813	129.3463	.2619635	46.68206
#1	.002180	.0040973	-.002338	.0032980	.0006468	11.66562	-.003526
#2	.000402	.0062779	-.002285	.0043419	-.000206	11.70809	-.001225
#3	-.002668	.0011176	-.004494	.0003990	.001147	11.72513	-.003017

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001838**	**.0000771**	**11.51819**	**.0010831**	**-.000164**	**.0005602**	**4.610414**
Stddev	.0000406	.0000704	.00738	.0002120	.000098	.0003569	.025431
%RSD	22.11629	91.34116	.0640697	19.57789	59.48374	63.70465	.5516034
#1	.0002274	.0000341	11.51508	.0013147	-.000077	.0002798	4.581052
#2	.0001770	.0000388	11.51287	.0008986	-.000269	.0009619	4.625484
#3	.0001470	.0001584	11.52662	.0010359	-.000146	.0004389	4.624707

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003858**	**11.92218**	**.0002703**	**-.000192**	**-.059965**	**.0010390**	**.0004623**
Stddev	.0002588	.10973	.0003143	.000568	.019057	.0051696	.0002738
%RSD	67.07864	.9203966	116.2749	295.9372	31.78042	497.5578	59.21831
#1	.0006818	11.85113	.0003851	-.000807	-.048715	-.001689	.0001920
#2	.0002735	11.86685	.0005111	.000313	-.049212	.007001	.0007393
#3	.0002022	12.04856	-.000085	-.000082	-.081969	-.002196	.0004556

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.088452**	**-.005917**	**.0000893**	**.0049992**	**.0020323**	**-.008148**	**.0008902**
Stddev	.033718	.001377	.0002407	.0001701	.0021634	.005415	.0003125
%RSD	38.11997	23.27996	269.4848	3.401682	106.4500	66.46047	35.10988
#1	-.051919	-.004602	-.000153	.0050321	.0042608	-.014239	.0012408
#2	-.095061	-.005800	.000328	.0048151	.0018958	-.006325	.0007890
#3	-.118376	-.007349	.000093	.0051504	-.000060	-.003880	.0006408

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSADLX20 Acquired: 10/3/2025 13:29:04 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.002291**	**-.002655**	**.0003399**
Stddev	.002554	.001004	.0000985
%RSD	111.4680	37.82896	28.96952
#1	-.002387	-.002364	.0004152
#2	.000309	-.001828	.0002285
#3	-.004796	-.003772	.0003761

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6578.491**	**93529.89**	**8296.207**	**4987.898**	**7875.243**
Stddev	19.256	551.88	32.829	32.127	21.928
%RSD	.2927103	.5900524	.3957162	.6441013	.2784458
#1	6597.401	93765.78	8259.349	5006.697	7893.780
#2	6579.164	92899.28	8306.966	4950.801	7880.913
#3	6558.907	93924.63	8322.308	5006.194	7851.037

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSABDLX20 Acquired: 10/3/2025 13:33:20 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0060679	.0074892	.0003508	.0065567	.0305261	12.47237	.0207692
Stddev	.0017309	.0021525	.0013541	.0018401	.0005736	.05583	.0023350
%RSD	28.52597	28.74205	386.0501	28.06381	1.879145	.4476625	11.24265
#1	.0041850	.0059717	.0018900	.0064022	.0305382	12.41725	.0205389
#2	.0075900	.0065431	-.000181	.0084692	.0299465	12.47098	.0185578
#3	.0064288	.0099527	-.000657	.0047988	.0310936	12.52889	.0232108

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0256153	.0504199	12.23789	.0275674	.0249464	.0259230	5.013572
Stddev	.0002138	.0000733	.01909	.0002429	.0000975	.0006086	.011902
%RSD	.8347353	.1453768	.1559814	.8812036	.3908670	2.347800	.2373920
#1	.0253736	.0504838	12.23580	.0273812	.0250015	.0260830	5.020286
#2	.0256929	.0504360	12.21994	.0274787	.0250039	.0264356	4.999830
#3	.0257795	.0503399	12.25794	.0278422	.0248338	.0252504	5.020599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253712	12.73809	.0509261	.0096130	-.059427	.0291911	.0520563
Stddev	.0004626	.02527	.0001671	.0001688	.009908	.0016083	.0000228
%RSD	1.823217	.1983839	.3280839	1.756081	16.67238	5.509430	.0437733
#1	.0259017	12.72536	.0509482	.0094986	-.051426	.0284167	.0520610
#2	.0251605	12.76719	.0507491	.0098069	-.070509	.0281165	.0520316
#3	.0250516	12.72171	.0510811	.0095336	-.056346	.0310400	.0520764

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.142138	.0431537	.0521389	.0551338	.0503607	.0450863	.0009357
Stddev	.024076	.0007548	.0006230	.0002713	.0013093	.0049960	.0007154
%RSD	16.93835	1.749038	1.194802	.4920222	2.599941	11.08092	76.45652
#1	-.155268	.0423264	.0527829	.0552825	.0499012	.0419461	.0017416
#2	-.114351	.0438048	.0520945	.0552981	.0493429	.0508474	.0003755
#3	-.156794	.0433299	.0515393	.0548207	.0518378	.0424655	.0006901

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: ICSABDLX20 Acquired: 10/3/2025 13:33:20 Type: Unk
Method: 6010-200.7 NEW(v269) 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	-.001672	-.003173	.0003607
Stddev	.003074	.000272	.0001143
%RSD	183.8409	8.561382	31.70347
#1	-.004986	-.002896	.0004372
#2	-.001117	-.003440	.0002292
#3	.001087	-.003184	.0004156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6622.945	92974.65	8443.937	4982.461	7946.943
Stddev	3.530	254.67	60.601	34.360	7.524
%RSD	.0532927	.2739142	.7176832	.6896099	.0946801
#1	6622.357	93012.60	8504.826	4975.226	7942.130
#2	6619.747	93208.22	8443.358	5019.862	7943.086
#3	6626.732	92703.14	8383.629	4952.295	7955.614

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV01 Acquired: 10/3/2025 13:37:30 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**5.027087**	**4.654689**	**4.940859**	**5.051568**	**5.041431**	**9.960223**	**10.00416**
Stddev	.012510	.114372	.003068	.021207	.014973	.037061	.01996
%RSD	.2488429	2.457145	.0620973	.4198173	.2970072	.3720889	.1994699
#1	5.038414	4.568902	4.940521	5.072061	5.057932	9.928531	9.98608
#2	5.013661	4.610625	4.937975	5.029712	5.028711	9.951165	10.02557
#3	5.029187	4.784539	4.944083	5.052932	5.037649	10.00097	10.00083

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2474300**	**2.489435**	**24.84107**	**.9890580**	**2.477440**	**1.258418**	**4.899870**
Stddev	.0015646	.004319	.01959	.0037028	.004157	.002754	.026947
%RSD	.6323248	.1734977	.0788442	.3743802	.1677807	.2188418	.5499515
#1	.2477189	2.490179	24.82068	.9847965	2.479233	1.261365	4.875778
#2	.2488300	2.484792	24.85974	.9914901	2.472688	1.255910	4.894861
#3	.2457411	2.493334	24.84278	.9908873	2.480399	1.257979	4.928969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.496228**	**24.68358**	**2.487693**	**1.227064**	**24.35428**	**2.478928**	**2.483204**
Stddev	.005056	.08413	.003862	.002024	.20093	.008812	.007306
%RSD	.2025637	.3408323	.1552263	.1649374	.8250298	.3554700	.2942289
#1	2.492411	24.70265	2.488422	1.224737	24.17607	2.489053	2.482515
#2	2.501963	24.75654	2.483520	1.228046	24.31472	2.474735	2.490831
#3	2.494311	24.59156	2.491139	1.228410	24.57204	2.472996	2.476267

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.18474**	**4.965332**	**4.980293**	**4.968658**	**4.982211**	**4.782607**	**5.006996**
Stddev	.16113	.037911	.010515	.015546	.002631	.053845	.030025
%RSD	.6662400	.7635184	.2111239	.3128786	.0528103	1.125844	.5996582
#1	24.04143	4.978555	4.989411	4.975833	4.981407	4.739254	4.995850
#2	24.15364	4.994862	4.968791	4.950820	4.985151	4.765687	4.984139
#3	24.35915	4.922581	4.982678	4.979321	4.980076	4.842879	5.041001

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV01 Acquired: 10/3/2025 13:37:30 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**4.936682**	**4.968086**	**5.028514**
Stddev	.030300	.003039	.065439
%RSD	.6137805	.0611729	1.301353
#1	4.927423	4.966810	5.104041
#2	4.912091	4.971555	4.992731
#3	4.970532	4.965893	4.988768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6503.713**	**92672.92**	**8162.151**	**4917.878**	**7523.614**
Stddev	4.685	375.39	26.785	15.298	7.477
%RSD	.0720370	.4050658	.3281661	.3110621	.0993800
#1	6499.656	93018.60	8156.107	4932.308	7524.771
#2	6508.841	92726.58	8138.904	4919.487	7530.446
#3	6502.641	92273.60	8191.442	4901.840	7515.627

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB01 Acquired: 10/3/2025 13:41:34 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0001312	.0022777	-.001773	.0023642	.0006716	.0096943	-.001508
Stddev	.0007875	.0020174	.000971	.0012621	.0007955	.0139922	.001320
%RSD	600.0102	88.57194	54.72840	53.38343	118.4392	144.3346	87.55179
#1	-.000182	.0035320	-.000730	.0025887	.0003484	.0193991	-.002904
#2	.001027	-.000049	-.002649	.0010049	.0000887	-.006345	-.000281
#3	-.000452	.003350	-.001942	.0034989	.0015779	.016029	-.001338

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000223	-.000005	-.010500	.0002597	-.000011	-.000214	.0005431
Stddev	.0000311	.000044	.011235	.0004188	.000134	.000174	.0053627
%RSD	139.5165	838.2666	106.9939	161.2235	1258.257	81.29849	987.3952
#1	-.000011	-.000055	-.014248	.0005828	-.000058	-.000091	.0065871
#2	.000051	.000010	.002129	-.000213	.000141	-.000138	-.003645
#3	.000027	.000029	-.019382	.000410	-.000115	-.000412	-.001313

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000490	.0247212	.0002239	-.000258	-.058224	-.000602	.0000749
Stddev	.000305	.0183503	.0001122	.000266	.008708	.003316	.0000919
%RSD	62.22321	74.22911	50.12272	103.0748	14.95667	550.5652	122.7304
#1	-.000436	.0191484	.0002137	-.000526	-.062427	-.003713	-.000027
#2	-.000818	.0452119	.0003409	.000006	-.064034	-.000981	.000099
#3	-.000216	.0098033	.0001172	-.000255	-.048211	.002887	.000152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.104072	-.003865	.0004178	-.004544	.0003354	.0049294	.0020892
Stddev	.053812	.000328	.0003630	.000382	.0011985	.0087109	.0006770
%RSD	51.70669	8.489469	86.87672	8.411390	357.2929	176.7127	32.40465
#1	-.045788	-.003698	.0003190	-.004932	.0017187	-.004935	.0022285
#2	-.151868	-.004243	.0008200	-.004531	-.000318	.011564	.0026858
#3	-.114561	-.003654	.0001145	-.004168	-.000394	.008159	.0013534

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB01 Acquired: 10/3/2025 13:41:34 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0013162	-.000167	.0001834
Stddev	.0013097	.001535	.0001078
%RSD	99.50466	922.2159	58.79215
#1	.0018378	.000196	.0002988
#2	-.000174	-.001851	.0001664
#3	.002285	.001155	.0000851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6770.690	93924.53	8284.997	5058.027	8233.403
Stddev	11.527	332.76	12.887	23.818	3.114
%RSD	.1702531	.3542843	.1555439	.4708928	.0378197
#1	6779.458	93738.49	8299.846	5041.565	8234.201
#2	6757.633	93726.40	8278.406	5047.178	8236.040
#3	6774.980	94308.71	8276.739	5085.338	8229.968

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-1 Acquired: 10/3/2025 13:45:54 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0048502	.0190015	.0196362	-.012893	.0152151	.3218159	.0179253
Stddev	.0040031	.0077207	.0025692	.004073	.0017453	.0077006	.0011837
%RSD	82.53343	40.63199	13.08395	31.58829	11.47079	2.392845	6.603782
#1	.0041941	.0120980	.0208639	-.015888	.0150230	.3210344	.0181004
#2	.0091408	.0175679	.0166834	-.008255	.0135739	.3145359	.0190118
#3	.0012157	.0273384	.0213611	-.014535	.0170486	.3298774	.0166638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009794	.0007092	2479.298	.0318207	.0062063	.0079100	.5839141
Stddev	.0000667	.0003158	.318	.0004214	.0001648	.0010454	.0088388
%RSD	6.813083	44.52687	.0128118	1.324154	2.655252	13.21570	1.513722
#1	.0010561	.0008452	2478.981	.0313902	.0060618	.0067100	.5917942
#2	.0009477	.0009343	2479.296	.0322323	.0063857	.0083969	.5743569
#3	.0009345	.0003482	2479.616	.0318397	.0061713	.0086230	.5855912

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265242	2237.920	.0281638	-.002540	2484.963	.0173561	.0690389
Stddev	.0009016	4.358	.0006728	.000242	7.881	.0063745	.0006833
%RSD	3.399180	.1947208	2.388873	9.516237	.3171562	36.72743	.9897959
#1	.0270358	2235.927	.0284011	-.002623	2493.329	.0242051	.0694752
#2	.0270538	2242.918	.0274045	-.002268	2477.678	.0115966	.0693901
#3	.0254832	2234.915	.0286857	-.002730	2483.883	.0162667	.0682513

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.710094	.0050465	.0034561	-.016179	-.115995	-.032334	.0196779
Stddev	.601418	.0010203	.0002613	.001049	.001040	.010442	.0003828
%RSD	12.76870	20.21843	7.561295	6.484175	.8966233	32.29306	1.945434
#1	4.107786	.0060808	.0035876	-.017388	-.114828	-.038745	.0192497
#2	4.711878	.0040408	.0031551	-.015639	-.116337	-.020285	.0197967
#3	5.310617	.0050179	.0036256	-.015511	-.116822	-.037971	.0199872

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-1 Acquired: 10/3/2025 13:45:54 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.2310578	-.364245	.0619655
Stddev	.0076571	.001891	.0003055
%RSD	3.313924	.5191746	.4930399
#1	.2398585	-.366428	.0619445
#2	.2259213	-.363094	.0622810
#3	.2273936	-.363215	.0616710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4696.125	69578.94	7132.793	3542.649	4981.866
Stddev	16.505	278.35	30.867	9.846	18.535
%RSD	.3514683	.4000504	.4327424	.2779334	.3720564
#1	4677.527	69849.63	7134.822	3537.604	4965.196
#2	4701.813	69293.51	7100.962	3536.348	4978.577
#3	4709.033	69593.69	7162.595	3553.995	5001.826

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-2 Acquired: 10/3/2025 13:50:20 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.1000036	-.138975	.1282224	.0126276	-.121585	1833.351	.0171515
Stddev	.0042198	.004369	.0032227	.0137978	.008410	11.093	.0018173
%RSD	4.219651	3.143430	2.513344	109.2672	6.917150	.6050520	10.59575
#1	.1029560	-.143766	.1276933	.0285033	-.121227	1840.706	.0155963
#2	.1018844	-.135213	.1316768	.0035280	-.113359	1838.755	.0191492
#3	.0951704	-.137945	.1252970	.0058513	-.130168	1820.592	.0167091

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0384663	-.003441	13.40967	-.256274	.0374214	-.030092	2622.225
Stddev	.0004737	.004960	.13297	.004408	.0003519	.075723	44.738
%RSD	1.231579	144.1474	.9916054	1.719955	.9403200	251.6410	1.706106
#1	.0387889	-.007237	13.40329	-.260512	.0371142	-.092492	2661.753
#2	.0386876	-.005256	13.54572	-.256595	.0373448	-.051934	2631.264
#3	.0379224	.002171	13.28001	-.251714	.0378053	.054152	2573.658

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.467612	1.043934	.0484548	^ *****	4.842729	.0448002	.0393710
Stddev	.002967	.034278	.0017831	-----	.236278	.0034466	.0031568
%RSD	.6344909	3.283562	3.679961	-----	4.879031	7.693184	8.018020
#1	-.466798	1.073767	.0484707	^ -----	5.098899	.0482102	.0423126
#2	-.470902	1.051544	.0502299	^ -----	4.795948	.0448722	.0360360
#3	-.465138	1.006490	.0466638	^ -----	4.633341	.0413182	.0397643

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1803.623	^ *****	-.021068	.0113520	.0030831	.4880018	.0785176
Stddev	61.328	-----	.000662	.0015337	.0019231	.0132223	.0050781
%RSD	3.400283	-----	3.144055	13.51017	62.37653	2.709477	6.467467
#1	1866.932	^ -----	-.021156	.0122674	.0029638	.4864618	.0828892
#2	1799.448	^ -----	-.021681	.0122073	.0012224	.5019266	.0729475
#3	1744.488	^ -----	-.020366	.0095814	.0050631	.4756169	.0797162

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-2 Acquired: 10/3/2025 13:50:20 Type: Unk
Method: 6010-200.7 NEW(v269) 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	-.464591	.2697361	-2.51362
Stddev	.022065	.0036762	.04283
%RSD	4.749404	1.362898	1.703980
#1	-.482972	.2726688	-2.55151
#2	-.470681	.2709277	-2.52219
#3	-.440120	.2656119	-2.46715

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5832.064	78667.14	8252.183	4261.171	6294.259
Stddev	7.229	1777.14	56.569	92.428	9.557
%RSD	.1239603	2.259057	.6855091	2.169070	.1518294
#1	5833.834	76633.79	8270.655	4157.336	6301.655
#2	5838.245	79444.34	8188.686	4291.724	6297.653
#3	5824.114	79923.28	8297.207	4334.454	6283.468

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169935BS Acquired: 10/3/2025 14:03:57 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.7656510	1.898936	.9347359	1.945138	.7981870	1.972608
Stddev	.0010456	.065453	.0026739	.005658	.0011425	.011344
%RSD	.1365646	3.446835	.2860592	.2908707	.1431371	.5751003
#1	.7644669	1.883525	.9376379	1.942483	.7978835	1.976326
#2	.7660385	1.842563	.9341980	1.941297	.7972269	1.981628
#3	.7664474	1.970720	.9323719	1.951635	.7994506	1.959872

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1907776	.1984963	.1895164	.9692747	.4163299	.1913175
Stddev	.0002219	.0005603	.0002429	.0045138	.0010908	.0004936
%RSD	.1163124	.2822835	.1281630	.4656903	.2620084	.2579835
#1	.1909512	.1990952	.1897078	.9696027	.4173520	.1915317
#2	.1905276	.1979848	.1895983	.9646058	.4164563	.1916678
#3	.1908540	.1984089	.1892431	.9736155	.4151814	.1907531

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2982146	3.018201	.1998262	1.990444	.4955533	.0734762
Stddev	.0007013	.000922	.0012038	.019138	.0011048	.0007426
%RSD	.2351632	.0305318	.6024166	.9614828	.2229331	1.010694
#1	.2986990	3.017488	.2007530	2.011469	.4963687	.0726804
#2	.2974104	3.017874	.1984656	1.985823	.4959951	.0735975
#3	.2985345	3.019242	.2002599	1.974039	.4942960	.0741507

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.015148	.2890138	.2001947	9.812995	.2862994	.4019731
Stddev	.036121	.0005003	.0004109	.051161	.0013594	.0006469
%RSD	1.197981	.1730914	.2052312	.5213551	.4748051	.1609318
#1	2.993841	.2889300	.1997873	9.769678	.2871221	.4021749
#2	2.994750	.2895507	.2006089	9.799867	.2847303	.4012493
#3	3.056854	.2885608	.2001879	9.869441	.2870457	.4024950

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169935BS Acquired: 10/3/2025 14:03:57 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**.6749739**	**.1967675**	**.8556493**	**5.553910**	F **-.004171**	**.2040102**
Stddev	.0002642	.0020105	.0155935	.019307	.001510	.0015099
%RSD	.0391457	1.021776	1.822419	.3476257	36.20150	.7401064
#1	.6747886	.1975295	.8572249	5.551986	-.005867	.2057416
#2	.6752764	.1944873	.8393278	5.535637	-.003671	.2029674
#3	.6748566	.1982856	.8703952	5.574106	-.002974	.2033214

Elem	Sr4077
Units	ppm
Avg	**.1930544**
Stddev	.0007162
%RSD	.3709852
#1	.1936254
#2	.1922508
#3	.1932870

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6827.546**	**93616.61**	**8256.952**	**4997.356**	**8245.809**
Stddev	15.566	457.77	52.783	33.272	20.229
%RSD	.2279884	.4889891	.6392600	.6657893	.2453205
#1	6809.589	93109.12	8196.193	4969.570	8223.041
#2	6837.204	93742.31	8291.495	4988.272	8252.677
#3	6835.845	93998.41	8283.168	5034.227	8261.710

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169937BL Acquired: 10/3/2025 14:07:57 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.001459**	**.0032993**	**-.002056**	**.0015006**	**-.000098**	**.0171793**	**-.002151**
Stddev	.001197	.0021449	.002283	.0009781	.002118	.0103310	.000163
%RSD	82.03991	65.01081	111.0544	65.18052	2161.050	60.13636	7.568615
#1	-.000699	.0048700	-.001166	.0003880	-.002369	.0258918	-.002191
#2	-.000839	.0008556	-.000351	.0018891	.001823	.0057662	-.002290
#3	-.002838	.0041723	-.004650	.0022248	.000252	.0198800	-.001971

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000515**	**.0000638**	**-.016475**	**.0000465**	**-.000142**	**-.000124**	**-.004083**
Stddev	.0000246	.0000299	.009550	.0002932	.000220	.000512	.005728
%RSD	47.80422	46.88515	57.96709	630.4165	154.4294	412.9129	140.2929
#1	.0000761	.0000979	-.027474	-.000290	-.000345	-.000214	-.010536
#2	.0000269	.0000420	-.011674	.000181	.000092	.000427	.000399
#3	.0000516	.0000516	-.010279	.000248	-.000174	-.000585	-.002112

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000310**	**.0284690**	**.0000862**	**-.000599**	**.1251658**	**.0014205**	**.0001653**
Stddev	.000433	.0202964	.0001615	.000131	.0140202	.0026737	.0001386
%RSD	139.4252	71.29304	187.2517	21.84953	11.20129	188.2221	83.81886
#1	-.000498	.0196283	.0001835	-.000750	.1096430	.0000791	.0001021
#2	-.000618	.0516863	-.000100	-.000528	.1289464	.0044994	.0000696
#3	.000185	.0140924	.000175	-.000519	.1369080	-.000317	.0003242

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1710341**	**-.008991**	**.0002755**	**-.004807**	**-.000433**	**-.008104**	**.0019284**
Stddev	.0349014	.000403	.0002904	.000121	.000563	.012986	.0008578
%RSD	20.40608	4.484636	105.4415	2.520973	130.0847	160.2468	44.47945
#1	.1847968	-.009354	.0006080	-.004947	-.000341	-.014488	.0017249
#2	.1969559	-.009060	.0001469	-.004729	-.001036	-.016662	.0028697
#3	.1313496	-.008557	.0000715	-.004746	.000078	.006839	.0011908

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169937BL Acquired: 10/3/2025 14:07:57 Type: Unk
Method: 6010-200.7 NEW(v269) 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	-.001336	.0010665	-.000069
Stddev	.001441	.0012840	.000141
%RSD	107.8756	120.3931	204.8216
#1	-.002976	.0003894	.000052
#2	-.000758	.0025474	-.000224
#3	-.000274	.0002628	-.000035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6825.726	92874.49	8494.488	5090.301	8260.169
Stddev	4.737	11.97	31.252	17.155	12.752
%RSD	.0693991	.0128859	.3679103	.3370226	.1543769
#1	6827.584	92871.46	8471.487	5081.934	8266.870
#2	6829.253	92864.32	8481.908	5078.935	8268.173
#3	6820.342	92887.68	8530.070	5110.035	8245.464

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169937BS Acquired: 10/3/2025 14:12:17 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.7573485	1.851059	.9223608	1.921076	.7859770	1.920305
Stddev	.0024984	.116765	.0016151	.015866	.0022709	.003763
%RSD	.3298893	6.308028	.1751058	.8258990	.2889315	.1959653
#1	.7601914	1.958153	.9228381	1.939302	.7885645	1.915967
#2	.7563522	1.868450	.9236834	1.910354	.7843150	1.922266
#3	.7555020	1.726574	.9205608	1.913571	.7850513	1.922683

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865280	.1928282	.1869864	.9478442	.4147283	.1889910
Stddev	.0001725	.0010715	.0001188	.0034580	.0023593	.0002635
%RSD	.0924697	.5556966	.0635324	.3648289	.5688817	.1394443
#1	.1863539	.1937291	.1870788	.9500463	.4157697	.1887738
#2	.1866989	.1916432	.1868524	.9496278	.4163877	.1889149
#3	.1865312	.1931123	.1870280	.9438586	.4120275	.1892842

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2951046	2.985575	.1959965	1.955600	.4949650	.0709055
Stddev	.0007724	.022574	.0003192	.026265	.0006120	.0005747
%RSD	.2617508	.7560903	.1628860	1.343083	.1236417	.8105151
#1	.2942134	3.003961	.1962388	1.926458	.4944599	.0704555
#2	.2955809	2.992383	.1956347	1.977447	.4947894	.0707080
#3	.2955196	2.960381	.1961160	1.962894	.4956455	.0715529

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.860932	.2888021	.1954229	9.331624	.2778990	.3951680
Stddev	.017950	.0030407	.0006197	.031566	.0018640	.0005402
%RSD	.6274298	1.052856	.3170879	.3382692	.6707372	.1367097
#1	2.879881	.2899301	.1961384	9.351554	.2790970	.3957542
#2	2.858732	.2853586	.1950717	9.348088	.2757515	.3946901
#3	2.844184	.2911176	.1950587	9.295230	.2788486	.3950599

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169937BS Acquired: 10/3/2025 14:12:17 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.6645456	.1906541	.8310113	5.559291	F -.005822	.1954452
Stddev	.0024041	.0018539	.0075996	.042711	.002998	.0025278
%RSD	.3617732	.9723704	.9145008	.7682743	51.49738	1.293330
#1	.6669511	.1886688	.8386204	5.605116	-.004085	.1983512
#2	.6621428	.1909535	.8309922	5.552164	-.009284	.1942282
#3	.6645428	.1923401	.8234213	5.520592	-.004097	.1937561

Elem	Sr4077
Units	ppm
Avg	.1884881
Stddev	.0008731
%RSD	.4631836
#1	.1893022
#2	.1875661
#3	.1885960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6807.071	94624.17	8365.955	5068.240	8190.146
Stddev	6.661	253.54	44.244	38.729	8.674
%RSD	.0978564	.2679418	.5288534	.7641425	.1059114
#1	6799.526	94558.36	8329.925	5034.951	8180.550
#2	6809.550	94410.02	8415.337	5059.024	8192.458
#3	6812.138	94904.12	8352.602	5110.745	8197.430

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169958BL Acquired: 10/3/2025 14:16:18 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.000656**	**.0024262**	**-.002219**	**.0002165**	**-.000340**	**.0059445**	**-.000737**
Stddev	.001832	.0041440	.000688	.0002713	.001404	.0072632	.001058
%RSD	279.1557	170.8031	31.00085	125.3369	412.6526	122.1843	143.4704
#1	.000804	-.002357	-.001603	.0001843	-.000605	-.002364	-.001882
#2	-.002713	.004927	-.002962	-.000037	-.001593	.011090	-.000532
#3	-.000061	.004709	-.002094	.000502	.001178	.009107	.000203

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000664**	**.0000414**	**-.022754**	**-.000211**	**-.000153**	**-.000081**	**.0005408**
Stddev	.0000922	.0000606	.015606	.000171	.000081	.000239	.0020158
%RSD	138.9552	146.4839	68.58266	80.96983	52.76622	294.9597	372.7419
#1	-.000035	.0001113	-.012844	-.000206	-.000171	-.000011	.0023201
#2	.000088	.0000091	-.040743	-.000043	-.000065	.000115	-.001648
#3	.000146	.0000038	-.014676	-.000384	-.000223	-.000348	.000951

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000547**	**.0129355**	**.0002714**	**-.000593**	**.0401190**	**-.000167**	**.0000183**
Stddev	.000765	.0272091	.0000151	.000510	.0050601	.003373	.0001872
%RSD	139.9793	210.3446	5.543321	86.00462	12.61263	2016.595	1025.595
#1	-.001388	.0217318	.0002834	-.000413	.0395482	-.001988	.0002341
#2	.000108	.0346582	.0002546	-.000197	.0353685	-.002239	-.000079
#3	-.000360	-.017584	.0002763	-.001168	.0454403	.003725	-.000100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0579605**	**-.008941**	**.0001302**	**-.005555**	**.0007665**	**-.002612**	**.0021693**
Stddev	.0342346	.000438	.0002363	.000461	.0005731	.005469	.0015854
%RSD	59.06533	4.901924	181.5037	8.306248	74.77179	209.3438	73.08554
#1	.0267695	-.008682	.0001584	-.005832	.0008410	-.000791	.0008658
#2	.0525240	-.009447	.0003511	-.005810	.0012987	-.008759	.0017078
#3	.0945880	-.008694	-.000119	-.005022	.0001598	.001713	.0039343

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169958BL Acquired: 10/3/2025 14:16:18 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.000428**	**-.000080**	**.0001103**
Stddev	.001204	.002326	.0002152
%RSD	280.9793	2892.456	195.2323
#1	.000863	.002167	.0001265
#2	-.000628	-.002477	.0003169
#3	-.001520	.000069	-.000113

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6758.805**	**95486.59**	**8287.222**	**5073.229**	**8131.757**
Stddev	9.808	339.12	31.494	46.539	17.473
%RSD	.1451132	.3551489	.3800265	.9173411	.2148766
#1	6760.927	95158.08	8251.268	5030.336	8140.512
#2	6767.379	95835.40	8309.925	5122.712	8143.123
#3	6748.110	95466.30	8300.473	5066.640	8111.637

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169958BS Acquired: 10/3/2025 14:20:37 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**.7681684**	**1.855960**	**.9311728**	**1.941044**	**.7770217**	**1.967929**
Stddev	.0016309	.069137	.0005932	.006986	.0021644	.015311
%RSD	.2123154	3.725112	.0637077	.3599332	.2785454	.7780454
#1	.7697643	1.912942	.9315942	1.947649	.7788368	1.952457
#2	.7682363	1.779048	.9304944	1.933730	.7746264	1.968254
#3	.7665045	1.875891	.9314299	1.941752	.7776020	1.983074

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1876461**	**.1972390**	**.1895834**	**.9615630**	**.4153109**	**.1917797**
Stddev	.0006400	.0005634	.0003590	.0062937	.0000397	.0003921
%RSD	.3410718	.2856196	.1893496	.6545241	.0095504	.2044326
#1	.1883523	.1973779	.1896265	.9544521	.4152665	.1913672
#2	.1874817	.1966192	.1892049	.9638201	.4153234	.1918243
#3	.1871044	.1977200	.1899190	.9664170	.4153428	.1921475

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2993525**	**2.996875**	**.1982647**	**1.977622**	**.4948939**	**.0730314**
Stddev	.0007641	.013752	.0016142	.021072	.0010888	.0006059
%RSD	.2552385	.4588619	.8141547	1.065500	.2200075	.8296563
#1	.2994304	2.987266	.1964822	1.953965	.4947178	.0735389
#2	.2985525	3.012627	.1996279	1.994378	.4939039	.0723606
#3	.3000747	2.990730	.1986839	1.984523	.4960600	.0731947

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.832655**	**.2907774**	**.1990734**	**9.433829**	**.2850469**	**.3924158**
Stddev	.030221	.0016368	.0003044	.014704	.0011584	.0009179
%RSD	1.066897	.5629169	.1529267	.1558672	.4063896	.2339193
#1	2.806686	.2896864	.1987508	9.417115	.2840931	.3923480
#2	2.865828	.2926595	.1991139	9.444776	.2847117	.3915337
#3	2.825453	.2899862	.1993556	9.439594	.2863360	.3933658

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169958BS Acquired: 10/3/2025 14:20:37 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.6565663	.1881081	.8301659	5.550238	F -.008183	.1999248
Stddev	.0015812	.0011791	.0124678	.048424	.002216	.0020036
%RSD	.2408317	.6268187	1.501846	.8724694	27.07599	1.002187
#1	.6567005	.1875710	.8247757	5.560686	-.010078	.1981936
#2	.6549222	.1894601	.8213001	5.497443	-.008725	.2021195
#3	.6580761	.1872932	.8444220	5.592586	-.005747	.1994612

Elem	Sr4077
Units	ppm
Avg	.1912324
Stddev	.0007815
%RSD	.4086772
#1	.1908268
#2	.1921333
#3	.1907370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6854.029	94725.38	8392.344	5103.956	8287.423
Stddev	3.262	120.17	33.058	27.565	5.766
%RSD	.0475929	.1268649	.3939085	.5400679	.0695806
#1	6853.999	94603.81	8363.994	5101.431	8289.389
#2	6850.782	94728.23	8428.656	5132.697	8291.948
#3	6857.306	94844.10	8384.383	5077.741	8280.930

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169963BL Acquired: 10/3/2025 14:24:38 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.000670**	**.0006195**	**-.003870**	**.0043746**	**.0015602**	**.0129839**	**-.001588**
Stddev	.000941	.0012901	.001013	.0022226	.0021336	.0189586	.000766
%RSD	140.3047	208.2446	26.16320	50.80798	136.7483	146.0167	48.23266
#1	-.001389	-.000512	-.004176	.0064728	.0037788	.0177977	-.000779
#2	.000394	.000346	-.002740	.0046054	-.000477	.0290715	-.001682
#3	-.001017	.002024	-.004694	.0020455	.001379	-.007918	-.002302

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001273**	**.0000265**	**-.023104**	**-.000108**	**-.000216**	**-.000018**	**-.005992**
Stddev	.0000071	.0000489	.002107	.000289	.000274	.000420	.004202
%RSD	5.586315	184.4380	9.121016	268.2435	127.0332	2328.855	70.12754
#1	.0001353	.0000567	-.020672	-.000379	.000071	-.000285	-.003557
#2	.0001218	-.000030	-.024372	-.000142	-.000476	.000466	-.010844
#3	.0001247	.000053	-.024269	.000197	-.000243	-.000235	-.003574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000609**	**.0650108**	**.0003770**	**-.000517**	**-.002675**	**.0000784**	**-.000097**
Stddev	.000780	.0295682	.0002667	.000610	.005389	.0050240	.000334
%RSD	128.0697	45.48198	70.73151	118.0238	201.4210	6409.539	344.0822
#1	.000161	.0309943	.0001649	.000040	-.008805	-.005481	-.000131
#2	-.000589	.0794820	.0002897	-.000422	-.000538	.001421	.000253
#3	-.001398	.0845561	.0006763	-.001168	.001317	.004295	-.000413

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.016606**	**-.008720**	**.0000548**	**-.004491**	**.0012129**	**.0076659**	**.0028725**
Stddev	.013485	.001076	.0000434	.000417	.0004814	.0072088	.0002708
%RSD	81.20504	12.34401	79.19319	9.292134	39.69086	94.03674	9.427006
#1	-.032129	-.007847	.0000985	-.004933	.0007025	-.000480	.0031846
#2	-.009888	-.009922	.0000117	-.004103	.0016588	.013220	.0027324
#3	-.007799	-.008389	.0000542	-.004438	.0012774	.010258	.0027005

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169963BL Acquired: 10/3/2025 14:24:38 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.004763**	**-.001443**	**.0001133**
Stddev	.003585	.001858	.0000540
%RSD	75.27471	128.7272	47.65765
#1	-.007771	-.002595	.0000768
#2	-.000796	.000700	.0001753
#3	-.005721	-.002435	.0000878

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6759.063**	**95273.93**	**8375.569**	**5012.006**	**8173.572**
Stddev	13.884	412.00	33.535	42.269	16.974
%RSD	.2054109	.4324360	.4003909	.8433602	.2076714
#1	6743.035	94860.66	8337.426	4967.539	8154.258
#2	6767.353	95684.64	8388.856	5051.667	8180.336
#3	6766.802	95276.50	8400.425	5016.811	8186.120

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169935BL Acquired: 10/3/2025 14:33:49 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0008468	.0015407	.0052763	.0019745	.0022746	.0062917	-.001469
Stddev	.0012154	.0045198	.0046500	.0029148	.0022557	.0088890	.001741
%RSD	143.5247	293.3648	88.13036	147.6196	99.17007	141.2830	118.4799
#1	.0017543	.0065502	.0097886	.0050630	.0031560	.0062610	-.002308
#2	.0013202	-.002232	.0055405	-.000728	.0039565	-.002582	.000532
#3	-.000534	.000304	.0004998	.001589	-.000289	.015196	-.002631

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001015	.0000522	-.024929	.0015662	.0000421	.0016664	-.000923
Stddev	.0000365	.0000152	.013873	.0003656	.0002751	.0015763	.007941
%RSD	35.99410	29.09233	55.64992	23.34249	652.9716	94.59543	860.8075
#1	.0001363	.0000356	-.014133	.0017098	.0000265	.0031050	-.008001
#2	.0000634	.0000556	-.040577	.0018383	-.000225	.0019127	.007665
#3	.0001049	.0000653	-.020078	.0011507	.000325	-.000019	-.002432

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050158	.0141901	.0012135	-.000445	-.039244	-.001711	.0027702
Stddev	.0030378	.0130513	.0008448	.000691	.005148	.001599	.0001960
%RSD	60.56398	91.97495	69.61695	155.3892	13.11732	93.44109	7.074060
#1	.0018935	.0274321	.0021595	.000329	-.044805	-.001297	.0029959
#2	.0079613	.0013382	.0009467	-.001001	-.034645	-.003477	.0026710
#3	.0051927	.0138001	.0005343	-.000661	-.038284	-.000361	.0026437

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.047269	-.009212	-.000040	-.004567	-.000891	-.017124	.0027218
Stddev	.025262	.000889	.000357	.000431	.002605	.006260	.0004298
%RSD	53.44372	9.651126	883.1231	9.443215	292.4086	36.55430	15.78996
#1	-.067441	-.010201	-.000193	-.004312	-.001997	-.010121	.0023144
#2	-.018935	-.008955	-.000296	-.004323	-.002760	-.022175	.0026800
#3	-.055430	-.008479	.000367	-.005065	.002084	-.019077	.0031708

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169935BL Acquired: 10/3/2025 14:33:49 Type: Unk
Method: 6010-200.7 NEW(v269) 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	**-.001285**	**-.002659**	**.0000473**
Stddev	.003344	.002673	.0000202
%RSD	260.1982	100.5244	42.72068
#1	.002294	-.002654	.0000551
#2	-.004331	-.005335	.0000625
#3	-.001819	.000011	.0000243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6747.482**	**95537.38**	**8455.368**	**5113.177**	**8131.812**
Stddev	11.486	176.15	21.070	6.083	12.290
%RSD	.1702226	.1843781	.2491958	.1189715	.1511366
#1	6734.765	95597.79	8442.526	5108.619	8117.757
#2	6750.579	95338.97	8479.685	5120.084	8140.539
#3	6757.101	95675.37	8443.892	5110.828	8137.141

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-3 Acquired: 10/3/2025 14:49:36 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0973122	.0366956	209.1922	.0056699	.1838184	.0765521	-.002128
Stddev	.0013914	.0007026	.3330	.0006030	.0060169	.0091323	.001916
%RSD	1.429869	1.914715	.1591789	10.63526	3.273300	11.92959	90.03022
#1	.0961918	.0370090	208.8151	.0053561	.1830269	.0776569	-.001668
#2	.0988697	.0371870	209.4456	.0052885	.1782364	.0850818	-.004231
#3	.0968750	.0358909	209.3160	.0063651	.1901920	.0669176	-.000484

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004661	-.004047	.1863374	23.47182	.0072139	51.34032	.0920015
Stddev	.000030	.000045	.0171224	.24366	.0002535	.03467	.0037097
%RSD	.6334924	1.108414	9.188907	1.038078	3.513275	.0675362	4.032202
#1	-.004659	-.004031	.1935789	23.44923	.0074422	51.36917	.0915158
#2	-.004692	-.004012	.1986492	23.72599	.0069412	51.30185	.0959302
#3	-.004633	-.004098	.1667841	23.24025	.0072585	51.34995	.0885586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.19982	-.190605	23.91369	.0026008	-.009305	-.037830	30.96804
Stddev	.13971	.023811	.00864	.0002407	.018741	.004810	.09426
%RSD	.2626146	12.49225	.0361432	9.253828	201.4094	12.71379	.3043689
#1	53.33370	-.163303	23.90371	.0027833	.008682	-.039066	31.07317
#2	53.05493	-.201445	23.91880	.0023280	-.007879	-.041901	30.89108
#3	53.21082	-.207066	23.91856	.0026909	-.028718	-.032523	30.93987

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.026342	-.005543	-.020835	-.015046	-.043770	-.101788	.1476148
Stddev	.021436	.000701	.000391	.000438	.000768	.010512	.0030311
%RSD	81.37290	12.64308	1.878258	2.913209	1.755727	10.32691	2.053349
#1	-.002090	-.004734	-.020508	-.014590	-.044655	-.113502	.1485528
#2	-.042753	-.005964	-.021268	-.015464	-.043265	-.098685	.1442257
#3	-.034185	-.005931	-.020728	-.015085	-.043392	-.093178	.1500661

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: LR-3 Acquired: 10/3/2025 14:49:36 Type: Unk
Method: 6010-200.7 NEW(v269) 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	.0834736	-.003454	.0006066
Stddev	.0019947	.000581	.0000824
%RSD	2.389606	16.82974	13.59316
#1	.0851908	-.003891	.0005958
#2	.0839443	-.003678	.0005300
#3	.0812856	-.002794	.0006938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6436.831	96159.92	8557.234	4943.538	8078.701
Stddev	6.792	786.40	30.300	40.865	14.809
%RSD	.1055137	.8178017	.3540862	.8266257	.1833134
#1	6444.629	96280.23	8577.856	4906.771	8095.801
#2	6433.657	95320.30	8522.446	4936.308	8070.225
#3	6432.207	96879.23	8571.400	4987.535	8070.077

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV02 Acquired: 10/3/2025 15:00:13 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**4.986993**	**4.576007**	**4.894219**	**5.036225**	**4.986057**	**9.917474**	**9.880472**
Stddev	.011250	.146792	.013853	.013358	.007419	.009211	.018221
%RSD	.2255958	3.207866	.2830396	.2652285	.1487851	.0928777	.1844173
#1	4.996123	4.724719	4.885229	5.045951	4.988592	9.927676	9.875885
#2	4.990431	4.572087	4.887257	5.041729	4.991876	9.909769	9.900549
#3	4.974424	4.431214	4.910172	5.020995	4.977703	9.914975	9.864983

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2440222**	**2.458732**	**24.69249**	**.9841955**	**2.445613**	**1.239316**	**4.860297**
Stddev	.0004689	.006399	.05242	.0056621	.004592	.001280	.033882
%RSD	.1921701	.2602731	.2122865	.5753057	.1877481	.1033186	.6971248
#1	.2435047	2.455495	24.74626	.9888198	2.442553	1.238199	4.894472
#2	.2441428	2.454598	24.68967	.9858860	2.443394	1.239035	4.859702
#3	.2444190	2.466103	24.64153	.9778807	2.450893	1.240713	4.826715

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.440389**	**24.42386**	**2.449633**	**1.229752**	**24.29238**	**2.469073**	**2.445240**
Stddev	.008148	.01950	.004643	.002790	.14382	.013951	.007727
%RSD	.3338965	.0798453	.1895264	.2268765	.5920536	.5650181	.3159996
#1	2.432225	24.41363	2.446871	1.231633	24.33833	2.474953	2.452102
#2	2.448522	24.41161	2.447035	1.231077	24.40762	2.479121	2.446747
#3	2.440421	24.44635	2.454993	1.226546	24.13120	2.453145	2.436870

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.39906**	**4.892769**	**5.005225**	**4.943587**	**4.918708**	**4.869325**	**4.869176**
Stddev	.15001	.020803	.004654	.005924	.005129	.011623	.008214
%RSD	.6148384	.4251824	.0929783	.1198293	.1042847	.2386999	.1686906
#1	24.37719	4.875598	5.008990	4.943259	4.924551	4.874321	4.871445
#2	24.55880	4.886806	5.006664	4.937834	4.914947	4.877614	4.876017
#3	24.26117	4.915902	5.000022	4.949668	4.916625	4.856039	4.860066

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV02 Acquired: 10/3/2025 15:00:13 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**4.991542**	**4.902881**	**4.911770**
Stddev	.030749	.005364	.007385
%RSD	.6160314	.1093985	.1503605
#1	5.014590	4.901077	4.904843
#2	5.003408	4.908914	4.919541
#3	4.956627	4.898652	4.910925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6715.901**	**94687.17**	**8470.431**	**4959.723**	**7812.848**
Stddev	39.159	183.27	33.874	28.430	49.146
%RSD	.5830746	.1935490	.3999053	.5732145	.6290382
#1	6759.240	94588.10	8494.678	4934.507	7864.198
#2	6705.397	94574.76	8484.888	4954.128	7808.093
#3	6683.065	94898.64	8431.728	4990.534	7766.252

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB02 Acquired: 10/3/2025 15:04:16 Type: Unk
Method: 6010-200.7 NEW(v270) 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	.0002042	.0100985	.0008555	-.000359	.0000101	.0082021	-.000605
Stddev	.0004018	.0003891	.0005346	.001804	.0013977	.0032954	.001356
%RSD	196.7842	3.853262	62.48578	502.3711	13844.36	40.17745	224.0252
#1	.0006676	.0099343	.0007228	.001576	-.000351	.0110285	.000281
#2	-.000047	.0105428	.0014439	-.001995	-.001172	.0045825	.000069
#3	-.000008	.0098183	.0003998	-.000658	.001553	.0089954	-.002166

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001355	.0000403	-.023442	.0000684	-.000012	.0002941	.0020021
Stddev	.0000290	.0000534	.011926	.0002802	.000135	.0004902	.0082086
%RSD	21.39201	132.5378	50.87530	409.5904	1122.109	166.6628	409.9939
#1	.0001492	.0000995	-.025741	-.000146	-.000086	-.000160	-.006673
#2	.0001551	-.000004	-.034051	.000385	.000144	.000813	.009647
#3	.0001022	.000026	-.010534	-.000034	-.000094	.000229	.003032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004628	.0173040	.0004293	-.000581	-.063992	.0013862	.0005296
Stddev	.0003415	.0263407	.0002592	.000711	.001716	.0022277	.0000904
%RSD	73.79465	152.2238	60.38369	122.2841	2.681799	160.7036	17.07316
#1	.0004011	.0343263	.0007206	-.001239	-.064109	.0016566	.0004713
#2	.0008310	-.013036	.0003435	-.000676	-.065647	-.000964	.0006337
#3	.0001564	.030622	.0002239	.000172	-.062220	.003466	.0004836

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017591	-.003037	.0002686	-.004700	.0016878	-.000990	.0035700
Stddev	.0149752	.000626	.0001553	.000161	.0021472	.002237	.0006476
%RSD	851.3056	20.60167	57.81708	3.432206	127.2156	225.9754	18.14066
#1	.0150513	-.002351	.0000912	-.004809	-.000475	-.000878	.0036993
#2	-.014465	-.003185	.0003348	-.004776	.001720	.001189	.0041432
#3	.004691	-.003576	.0003798	-.004515	.003819	-.003281	.0028674

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB02 Acquired: 10/3/2025 15:04:16 Type: Unk
Method: 6010-200.7 NEW(v270) 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	-.000901	-.001276	.0001280
Stddev	.001576	.001625	.0000757
%RSD	174.9013	127.3050	59.13690
#1	-.001582	-.002268	.0002044
#2	.000901	-.002159	.0000530
#3	-.002022	.000599	.0001267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6859.127	96065.36	8347.888	5100.163	8370.964
Stddev	25.196	229.05	24.425	6.692	32.499
%RSD	.3673356	.2384342	.2925853	.1312051	.3882407
#1	6854.533	96286.18	8345.150	5093.105	8357.459
#2	6886.304	96081.03	8324.948	5106.415	8408.039
#3	6836.544	95828.88	8373.567	5100.969	8347.395

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169963BS Acquired: 10/3/2025 15:08:36 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**.7736824**	**1.671300**	**.9384434**	**1.983531**	**.7936051**	**1.924225**
Stddev	.0010878	.077715	.0028726	.009467	.0007921	.009705
%RSD	.1405986	4.649947	.3061036	.4773015	.0998094	.5043608
#1	.7743436	1.757066	.9370884	1.994112	.7933423	1.933248
#2	.7724269	1.605554	.9364989	1.975861	.7929778	1.925469
#3	.7742767	1.651281	.9417429	1.980619	.7944952	1.913958

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1858895**	**.1916437**	**.1905092**	**.9625553**	**.4257983**	**.1907898**
Stddev	.0016071	.0002422	.0002578	.0089854	.0010842	.0002917
%RSD	.8645493	.1263911	.1353359	.9334966	.2546379	.1528635
#1	.1873767	.1915351	.1907977	.9526542	.4267354	.1904983
#2	.1861072	.1914747	.1903012	.9648197	.4246107	.1910816
#3	.1841847	.1919212	.1904288	.9701919	.4260488	.1907894

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2989966**	**3.080590**	**.1947557**	**1.940618**	**.5036123**	**.0725648**
Stddev	.0002305	.028990	.0008654	.017621	.0003274	.0002821
%RSD	.0770799	.9410492	.4443421	.9080008	.0650130	.3886876
#1	.2991935	3.095695	.1957488	1.925833	.5033059	.0722877
#2	.2987431	3.047167	.1943543	1.960116	.5035737	.0725554
#3	.2990532	3.098908	.1941638	1.935905	.5039573	.0728515

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.818744**	**.2850766**	**.1956873**	**9.506348**	**.2778762**	**.3965452**
Stddev	.017790	.0039001	.0003086	.081276	.0005857	.0012008
%RSD	.6311275	1.368092	.1577278	.8549706	.2107733	.3028159
#1	2.799057	.2805735	.1955902	9.596092	.2778295	.3974777
#2	2.823505	.2873764	.1960329	9.485255	.2773152	.3951902
#3	2.833668	.2872799	.1954389	9.437698	.2784838	.3969675

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169963BS Acquired: 10/3/2025 15:08:36 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**.6731057**	**.1886878**	**.8556436**	**5.622370**	F **-.005727**	**.1902382**
Stddev	.0015233	.0016612	.0066763	.036759	.002188	.0024649
%RSD	.2263109	.8804053	.7802689	.6537952	38.21000	1.295671
#1	.6747722	.1900077	.8592286	5.658276	-.008225	.1916981
#2	.6717851	.1892334	.8597617	5.584814	-.004145	.1873924
#3	.6727599	.1868224	.8479406	5.624019	-.004813	.1916242

Elem	Sr4077
Units	ppm
Avg	**.1862495**
Stddev	.0004197
%RSD	.2253441
#1	.1866724
#2	.1862430
#3	.1858330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6760.505**	**93327.52**	**8564.899**	**5052.328**	**8091.809**
Stddev	10.412	628.62	32.925	30.929	13.261
%RSD	.1540078	.6735581	.3844180	.6121691	.1638853
#1	6769.890	92690.62	8540.821	5020.638	8101.826
#2	6762.320	93947.51	8602.418	5082.435	8096.831
#3	6749.305	93344.44	8551.457	5053.910	8076.770

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169960BL Acquired: 10/3/2025 15:12:37 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**-.000098**	**.0113744**	**-.000063**	**.0016861**	**.0004984**	**.0165076**	**-.002615**
Stddev	.001641	.0021218	.001141	.0029921	.0022536	.0093220	.002768
%RSD	1670.221	18.65393	1823.614	177.4587	452.1303	56.47083	105.8657
#1	.001637	.0089406	-.000901	.0047125	.0005924	.0057665	.000579
#2	-.000306	.0128352	-.000523	.0016164	.0027036	.0224871	-.004318
#3	-.001626	.0123475	.001237	-.001271	-.001801	.0212693	-.004105

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001506**	**.0000735**	**-.019346**	**.0000309**	**.0001138**	**-.000474**	**-.002060**
Stddev	.0000440	.0000786	.007575	.0001572	.0001830	.000087	.019381
%RSD	29.24875	106.9042	39.15546	508.6149	160.8360	18.29172	940.9739
#1	.0001771	-.000014	-.014052	.0002116	.0002670	-.000553	-.024438
#2	.0000997	.000096	-.015963	-.000075	-.000089	-.000381	.009237
#3	.0001749	.000139	-.028023	-.000044	.000163	-.000487	.009022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000270**	**.0429337**	**.0001886**	**-.000814**	**-.061517**	**.0023498**	**-.000089**
Stddev	.000614	.0420102	.0000623	.000295	.011601	.0003435	.000228
%RSD	227.0561	97.84911	33.03640	36.29721	18.85847	14.61612	256.7579
#1	-.000961	.0598352	.0002095	-.001114	-.069837	.0023104	.000153
#2	.000215	-.004895	.0001185	-.000803	-.048265	.0027112	-.000121
#3	-.000065	.073861	.0002377	-.000524	-.066449	.0020277	-.000298

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.090707**	**-.006523**	**.0003671**	**-.003968**	**-.000144**	**-.004094**	**.0035058**
Stddev	.067856	.000358	.0001040	.000365	.000643	.004291	.0013335
%RSD	74.80802	5.494333	28.33589	9.200935	446.0939	104.8205	38.03848
#1	-.056122	-.006404	.0003513	-.003874	.000341	-.003849	.0036173
#2	-.047112	-.006239	.0002719	-.004371	-.000874	-.008501	.0021200
#3	-.168887	-.006926	.0004781	-.003659	.000100	.000070	.0047800

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169960BL Acquired: 10/3/2025 15:12:37 Type: Unk
Method: 6010-200.7 NEW(v270) 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	**-.002895**	**-.002276**	**.0000540**
Stddev	.001561	.001929	.0000955
%RSD	53.92777	84.75823	176.9847
#1	-.003053	-.000160	.0001601
#2	-.001261	-.002729	.0000268
#3	-.004371	-.003937	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6793.042**	**95647.66**	**8424.451**	**5062.332**	**8200.089**
Stddev	4.078	130.55	8.208	21.718	2.363
%RSD	.0600345	.1364922	.0974348	.4290195	.0288193
#1	6792.172	95533.26	8417.336	5045.430	8199.121
#2	6789.468	95789.88	8422.585	5086.828	8198.363
#3	6797.484	95619.83	8433.432	5054.739	8202.782

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169960BS Acquired: 10/3/2025 15:17:19 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.7734990**	**2.277162**	**.9383602**	**1.978264**	**.7789964**	**1.935235**
Stddev	.0022271	.091806	.0021084	.009636	.0021319	.022068
%RSD	.2879242	4.031598	.2246903	.4870894	.2736752	1.140315
#1	.7753437	2.350183	.9385165	1.986147	.7785317	1.917335
#2	.7741283	2.307204	.9403862	1.981123	.7771351	1.959891
#3	.7710250	2.174098	.9361781	1.967522	.7813223	1.928479

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1882650**	**.2065344**	**.1905221**	**.9576555**	**.4033889**	**.1907375**
Stddev	.0029931	.0012010	.0004086	.0098193	.0022418	.0004483
%RSD	1.589850	.5814957	.2144640	1.025344	.5557359	.2350335
#1	.1909029	.2058256	.1903903	.9661323	.4048881	.1903771
#2	.1888799	.2058567	.1909803	.9599384	.4008117	.1912395
#3	.1850121	.2079211	.1901956	.9468959	.4044668	.1905958

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2996468**	**2.922828**	**.1941097**	**1.976695**	**.4889723**	**.0732191**
Stddev	.0012768	.022452	.0016848	.029714	.0010856	.0006836
%RSD	.4260916	.7681525	.8679770	1.503192	.2220077	.9336906
#1	.2986954	2.943088	.1957991	2.003639	.4885967	.0734196
#2	.2991472	2.926705	.1924295	1.981619	.4901957	.0737800
#3	.3010978	2.898690	.1941005	1.944827	.4881244	.0724576

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.734576**	**.2909768**	**.1967143**	**8.732988**	**.2845474**	**.3930222**
Stddev	.036824	.0053807	.0005988	.065859	.0035243	.0017174
%RSD	1.346597	1.849176	.3044211	.7541425	1.238549	.4369795
#1	2.774051	.2962837	.1969776	8.792118	.2831740	.3925590
#2	2.728523	.2911215	.1960289	8.662009	.2819166	.3915838
#3	2.701154	.2855253	.1971363	8.744839	.2885516	.3949237

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169960BS Acquired: 10/3/2025 15:17:19 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.6675900**	**.1867108**	**.8380663**	**5.676140**	F **-.005619**	**.1947083**
Stddev	.0024535	.0013036	.0071259	.016644	.001692	.0025527
%RSD	.3675150	.6981943	.8502731	.2932206	30.11543	1.311029
#1	.6695107	.1852999	.8455145	5.694750	-.006446	.1965905
#2	.6684333	.1878706	.8313138	5.670988	-.006739	.1918027
#3	.6648261	.1869620	.8373708	5.662682	-.003673	.1957316

Elem	Sr4077
Units	ppm
Avg	**.1886097**
Stddev	.0014000
%RSD	.7422715
#1	.1899771
#2	.1871792
#3	.1886729

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6806.870**	**94671.00**	**8376.788**	**5116.720**	**8175.208**
Stddev	12.965	458.69	52.268	26.138	22.944
%RSD	.1904666	.4845074	.6239575	.5108400	.2806480
#1	6797.430	94236.08	8371.465	5089.098	8158.660
#2	6801.529	95150.24	8431.514	5141.065	8165.564
#3	6821.652	94626.68	8327.386	5119.997	8201.399

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169959BL Acquired: 10/3/2025 15:21:21 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.000323**	**.0033297**	**.0003043**	**.0004481**	**.0004457**	**.0169396**	**-.000789**
Stddev	.001496	.0011408	.0008111	.0021734	.0004565	.0120840	.000574
%RSD	462.6797	34.26210	266.5849	484.9935	102.4059	71.33548	72.72303
#1	.001206	.0027631	-.000484	.0016937	.0001368	.0229640	-.000601
#2	-.001784	.0025831	.001137	.0017122	.0002303	.0030278	-.000333
#3	-.000392	.0046429	.000260	-.002061	.0009700	.0248271	-.001433

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002218**	**.0001150**	**-.020229**	**-.000183**	**-.000045**	**-.000085**	**-.001779**
Stddev	.0000169	.0001346	.018538	.000361	.000139	.000110	.003474
%RSD	7.637131	117.0893	91.64171	197.4119	312.4292	129.0033	195.2751
#1	.0002212	-.000027	.000867	.000206	-.000110	-.000198	.002114
#2	.0002390	.000240	-.033920	-.000246	.000116	-.000078	-.002888
#3	.0002051	.000132	-.027633	-.000509	-.000140	.000021	-.004563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000790**	**.0322020**	**.0004188**	**-.001010**	**-.070129**	**.0021743**	**-.000211**
Stddev	.000396	.0087039	.0001573	.000316	.006336	.0033512	.000064
%RSD	50.16214	27.02916	37.54977	31.24037	9.034751	154.1254	30.31336
#1	-.001224	.0270476	.0002980	-.001205	-.077444	.0059688	-.000219
#2	-.000699	.0273072	.0005966	-.000646	-.066381	.0009344	-.000144
#3	-.000448	.0422514	.0003618	-.001179	-.066561	-.000380	-.000271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0168147**	**-.006657**	**-.000415**	**-.004945**	**-.000352**	**-.007347**	**.0023406**
Stddev	.0248696	.000666	.000268	.000270	.002214	.011190	.0017819
%RSD	147.9037	10.00968	64.62056	5.457090	629.0573	152.2960	76.13299
#1	.0121818	-.006981	-.000660	-.004768	.002073	-.008353	.0027480
#2	-.005413	-.005890	-.000129	-.005255	-.002265	-.018000	.0038835
#3	.043675	-.007099	-.000455	-.004810	-.000864	.004311	.0003902

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169959BL Acquired: 10/3/2025 15:21:21 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.002925**	**-.002660**	**.0000643**
Stddev	.000405	.002956	.0000583
%RSD	13.85309	111.1035	90.55745
#1	-.002635	-.000609	-.000002
#2	-.003388	-.001324	.000105
#3	-.002752	-.006048	.000090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6952.660**	**95560.87**	**8516.023**	**5089.985**	**8546.399**
Stddev	15.527	284.69	5.301	22.105	12.365
%RSD	.2233254	.2979170	.0622447	.4342766	.1446789
#1	6949.454	95775.67	8520.041	5070.077	8546.533
#2	6969.539	95668.98	8518.013	5086.105	8558.695
#3	6938.985	95237.96	8510.015	5113.772	8533.967

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169959BS Acquired: 10/3/2025 15:25:40 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.7654959	2.142543	.9347145	1.957361	.7838651	1.978545
Stddev	.0021730	.067819	.0033284	.008033	.0022702	.014017
%RSD	.2838641	3.165367	.3560866	.4104091	.2896184	.7084527
#1	.7630750	2.213996	.9384039	1.960684	.7851226	1.981788
#2	.7661352	2.079062	.9319372	1.948199	.7812444	1.990656
#3	.7672775	2.134572	.9338025	1.963199	.7852282	1.963191

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1894499	.2103155	.1889477	.9712305	.3881990	.1899167
Stddev	.0006864	.0017699	.0002886	.0130035	.0012889	.0001904
%RSD	.3622931	.8415630	.1527371	1.338864	.3320274	.1002617
#1	.1887186	.2090006	.1892734	.9712272	.3895832	.1901015
#2	.1895507	.2123279	.1888459	.9842355	.3879807	.1897212
#3	.1900802	.2096181	.1887239	.9582286	.3870332	.1899274

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2986309	2.800321	.1967844	1.978809	.4797317	.0715823
Stddev	.0005430	.004535	.0010501	.007689	.0008837	.0001392
%RSD	.1818333	.1619594	.5336461	.3885590	.1842172	.1944032
#1	.2989709	2.800744	.1955925	1.974661	.4801106	.0714353
#2	.2980047	2.804631	.1971872	1.987681	.4787217	.0715997
#3	.2989172	2.795589	.1975735	1.974085	.4803629	.0717120

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.729416	.2918995	.1985876	8.539020	.2897970	.3949666
Stddev	.023192	.0051976	.0007522	.044086	.0024943	.0012273
%RSD	.8496928	1.780595	.3787520	.5162904	.8606908	.3107464
#1	2.702974	.2970996	.1986273	8.564712	.2869581	.3961065
#2	2.746307	.2918944	.1993192	8.564233	.2916367	.3936673
#3	2.738965	.2867045	.1978164	8.488114	.2907963	.3951261

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: PB169959BS Acquired: 10/3/2025 15:25:40 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.6684858**	**.1914883**	**.8253256**	**5.560954**	F **-.008773**	**.1985204**
Stddev	.0018255	.0032305	.0050558	.028813	.001859	.0019394
%RSD	.2730767	1.687027	.6125825	.5181283	21.18934	.9769104
#1	.6704879	.1878137	.8309937	5.586364	-.010759	.1964988
#2	.6669138	.1927699	.8212809	5.529650	-.008483	.2003655
#3	.6680556	.1938813	.8237022	5.566846	-.007075	.1986970

Elem	Sr4077
Units	ppm
Avg	**.1899336**
Stddev	.0006601
%RSD	.3475227
#1	.1895475
#2	.1906957
#3	.1895576

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6870.426**	**95761.78**	**8232.795**	**5032.758**	**8297.197**
Stddev	13.327	74.50	60.681	8.811	16.072
%RSD	.1939818	.0777963	.7370617	.1750697	.1937013
#1	6861.458	95742.68	8301.064	5029.813	8282.443
#2	6885.740	95698.68	8184.997	5025.797	8314.323
#3	6864.078	95843.96	8212.324	5042.664	8294.826

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3258-06 Acquired: 10/3/2025 15:29:41 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.1143940**	**.0171137**	**.0023393**	**1.496430**	**.0052670**	**.2163212**
Stddev	.0013060	.0020964	.0012967	.013280	.0007579	.0029981
%RSD	1.141692	12.24997	55.43016	.8874255	14.38896	1.385946
#1	.1157037	.0159001	.0027298	1.503625	.0054203	.2186242
#2	.1143866	.0159065	.0033958	1.481105	.0059366	.2174081
#3	.1130917	.0195344	.0008922	1.504559	.0044443	.2129312

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.021192**	**.0002849**	**.0000598**	**1.384899**	**.0215404**	**.0017649**
Stddev	.001344	.0000243	.0001613	.013916	.0004129	.0001172
%RSD	6.343825	8.531137	269.7365	1.004828	1.916902	6.639336
#1	-.020879	.0002844	.0001738	1.400272	.0220155	.0016408
#2	-.020032	.0003094	-.000125	1.373163	.0212678	.0017805
#3	-.022665	.0002608	.000130	1.381263	.0213379	.0018736

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0430997**	**.3200727**	**.0187146**	**1.077202**	**.0262755**	**.0008617**
Stddev	.0005710	.0037112	.0004928	.009247	.0001529	.0004073
%RSD	1.324741	1.159475	2.632959	.8583908	.5818105	47.26742
#1	.0426751	.3210088	.0191904	1.082820	.0264386	.0007393
#2	.0437488	.3232261	.0187468	1.066530	.0261355	.0005296
#3	.0428751	.3159830	.0182065	1.082257	.0262525	.0013161

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5956.795**	**.0069973**	**.7839932**	**26.35847**	**9.097774**	**.0660367**
Stddev	48.680	.0009699	.0009031	2.89179	.107354	.0007376
%RSD	.8172196	13.86141	.1151959	10.97100	1.180004	1.116946
#1	6005.113	.0076522	.7835861	23.37688	9.219482	.0660598
#2	5957.512	.0058830	.7850282	26.54734	9.016541	.0652879
#3	5907.761	.0074565	.7833653	29.15120	9.057298	.0667625

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3258-06 Acquired: 10/3/2025 15:29:41 Type: Unk
Method: 6010-200.7 NEW(v271) 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	-.017588	.0069661	F 24.20968	.3415760	F 1877.555	.0230949
Stddev	.000527	.0002722	.71587	.0028699	53.769	.0028891
%RSD	2.997593	3.906905	2.956952	.8401866	2.863779	12.50974
#1	-.016982	.0070351	23.44763	.3446687	1863.701	.0201903
#2	-.017845	.0071972	24.31337	.3389989	1936.895	.0231262
#3	-.017938	.0066661	24.86806	.3410603	1832.069	.0259683

Elem	Sr4077
Units	ppm
Avg	.0140197
Stddev	.0001229
%RSD	.8768955
#1	.0140578
#2	.0141191
#3	.0138822

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4421.636	68925.49	9309.448	3371.050	4692.566
Stddev	23.642	73.79	124.294	8.888	20.238
%RSD	.5346838	.1070641	1.335138	.2636434	.4312686
#1	4423.863	68861.52	9167.907	3366.638	4693.897
#2	4444.085	68908.72	9400.801	3365.232	4712.105
#3	4396.959	69006.22	9359.636	3381.280	4671.695

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-01 Acquired: 10/3/2025 15:34:12 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.003087**	**-.003237**	**.0017074**	**.0007102**	**.0006846**	**.3095382**
Stddev	.000893	.002036	.0008400	.0029461	.0010713	.0140645
%RSD	28.92054	62.90578	49.19813	414.8569	156.4865	4.543691
#1	-.002056	-.002578	.0007680	.0039064	-.000426	.3238119
#2	-.003600	-.001612	.0023864	-.001897	.001712	.3091099
#3	-.003604	-.005521	.0019677	.000121	.000767	.2956928

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2140027**	**.0002943**	**.0001478**	**38.39719**	**.0055019**	**.0000674**
Stddev	.0015084	.0000502	.0000581	.19331	.0001981	.0000771
%RSD	.7048489	17.05434	39.33646	.5034373	3.600199	114.3217
#1	.2123544	.0003219	.0002145	38.20381	.0052986	.0000741
#2	.2153142	.0003247	.0001214	38.59042	.0055128	-.000013
#3	.2143397	.0002364	.0001076	38.39735	.0056943	.000141

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028807**	**.5421073**	**.0256838**	**9.110449**	**.0076377**	**-.000483**
Stddev	.0002656	.0063789	.0007033	.072539	.0001354	.000223
%RSD	9.221219	1.176679	2.738131	.7962125	1.772436	46.12114
#1	.0026075	.5358203	.0248811	9.032814	.0075547	-.000624
#2	.0028966	.5419274	.0261917	9.176497	.0077939	-.000226
#3	.0031381	.5485742	.0259785	9.122037	.0075645	-.000600

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.20451**	**.0037467**	**.0701022**	**9.164985**	**.0852085**	**.0020850**
Stddev	.33811	.0025438	.0003637	.044286	.0012421	.0001813
%RSD	.7479524	67.89534	.5188457	.4832109	1.457711	8.697482
#1	44.92044	.0036678	.0698140	9.152727	.0852200	.0019690
#2	45.11461	.0012432	.0699817	9.128119	.0864448	.0022940
#3	45.57848	.0063290	.0705108	9.214109	.0839607	.0019921

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-01 Acquired: 10/3/2025 15:34:12 Type: Unk
Method: 6010-200.7 NEW(v271) 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	-.021939	.0055458	F 18.02433	.3038833	F 11.61404	.0240148
Stddev	.000610	.0005136	.44297	.0013569	.05824	.0010311
%RSD	2.780532	9.261406	2.457620	.4465229	.5014508	4.293646
#1	-.021316	.0052744	18.52025	.3038909	11.55456	.0236773
#2	-.021964	.0061382	17.88488	.3025226	11.67096	.0251723
#3	-.022535	.0052247	17.66787	.3052364	11.61659	.0231947

Elem	Sr4077
Units	ppm
Avg	.5220381
Stddev	.0042220
%RSD	.8087465
#1	.5175367
#2	.5259099
#3	.5226677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7342.293	107066.0	10226.21	5481.037	8884.514
Stddev	11.359	484.1	101.28	30.325	2.813
%RSD	.1547076	.4521874	.9904033	.5532635	.0316615
#1	7332.273	107170.5	10311.14	5484.342	8885.265
#2	7339.973	107489.4	10114.12	5509.573	8881.402
#3	7354.633	106538.2	10253.38	5449.194	8886.875

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02 Acquired: 10/3/2025 15:38:27 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.003774**	**-.002025**	**-.000620**	**.0020140**	**.0001216**	**.0344705**
Stddev	.000294	.000885	.000417	.0039705	.0005490	.0018408
%RSD	7.777476	43.69618	67.16739	197.1479	451.6798	5.340338
#1	-.003867	-.001725	-.000552	.0065882	-.000381	.0328946
#2	-.003446	-.003021	-.000242	-.000543	.000038	.0364938
#3	-.004011	-.001329	-.001067	-.000003	.000708	.0340231

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1096983**	**.0006543**	**.0003654**	**24.08575**	**-.000379**	**-.000194**
Stddev	.0004416	.0000821	.0000395	.00377	.000096	.000164
%RSD	.4025807	12.55200	10.81414	.0156670	25.21035	84.71585
#1	.1096246	.0005684	.0003200	24.08341	-.000402	-.000310
#2	.1092981	.0007320	.0003917	24.08374	-.000275	-.000266
#3	.1101721	.0006626	.0003846	24.09010	-.000462	-.000006

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018877**	**.0933152**	**.0141958**	**8.762535**	**.0134149**	**-.000703**
Stddev	.0002749	.0053713	.0005988	.020789	.0001183	.000555
%RSD	14.56327	5.756048	4.218115	.2372482	.8819612	78.94167
#1	.0021751	.0881310	.0148270	8.756518	.0134506	-.001341
#2	.0018609	.0988558	.0141247	8.785669	.0135113	-.000439
#3	.0016273	.0929588	.0136357	8.745419	.0132829	-.000329

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.79735**	**.0023067**	**.1512063**	**6.516955**	**.0580341**	**.0008225**
Stddev	.19614	.0024454	.0003751	.029320	.0008904	.0003620
%RSD	.4807724	106.0151	.2480550	.4499028	1.534305	44.00853
#1	40.58174	-.000517	.1510647	6.485518	.0588662	.0009799
#2	40.84510	.003740	.1516315	6.543557	.0581409	.0010791
#3	40.96521	.003697	.1509226	6.521789	.0570950	.0004085

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02 Acquired: 10/3/2025 15:38:27 Type: Unk
Method: 6010-200.7 NEW(v271) 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	-.021871	-.001126	F 10.61180	.2984186	9.902895	.0247844
Stddev	.000370	.001827	.06602	.0041115	.072548	.0011335
%RSD	1.690270	162.2834	.6221729	1.377764	.7325964	4.573515
#1	-.022071	-.003204	10.56107	.3025085	9.972907	.0258066
#2	-.022098	-.000401	10.68645	.2984614	9.907725	.0235653
#3	-.021445	.000228	10.58788	.2942859	9.828052	.0249812

Elem	Sr4077
Units	ppm
Avg	.4519023
Stddev	.0010522
%RSD	.2328298
#1	.4521996
#2	.4507335
#3	.4527738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7475.213	109201.1	10144.70	5544.024	9093.344
Stddev	14.874	240.5	41.87	10.702	24.972
%RSD	.1989765	.2202625	.4127622	.1930434	.2746190
#1	7459.874	109460.2	10096.50	5556.358	9066.753
#2	7476.192	108985.0	10172.15	5538.521	9096.980
#3	7489.573	109158.2	10165.45	5537.193	9116.298

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02DUP Acquired: 10/3/2025 15:42:42 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.003691**	**-.002991**	**-.001035**	**.0021499**	**-.000037**	**.0609436**
Stddev	.001301	.001808	.000252	.0015150	.000574	.0185124
%RSD	35.24735	60.46068	24.33685	70.47042	1542.238	30.37632
#1	-.004272	-.001193	-.001231	.0018474	.000602	.0439206
#2	-.004599	-.004809	-.000751	.0037933	-.000511	.0806521
#3	-.002201	-.002971	-.001121	.0008089	-.000202	.0582581

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1157529**	**.0005933**	**.0004034**	**25.37204**	**-.000347**	**-.000002**
Stddev	.0016983	.0000325	.0000559	.04223	.000237	.000172
%RSD	1.467202	5.486065	13.86888	.1664601	68.21498	8575.206
#1	.1175266	.0006287	.0004200	25.36575	-.000239	-.000041
#2	.1141417	.0005865	.0003411	25.33331	-.000184	-.000151
#3	.1155903	.0005647	.0004492	25.41707	-.000619	.000186

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021623**	**.1257897**	**.0143250**	**9.219447**	**.0141869**	**-.000257**
Stddev	.0001707	.0210173	.0002437	.087535	.0000820	.000383
%RSD	7.895170	16.70827	1.701340	.9494655	.5781989	148.8812
#1	.0019683	.1132715	.0142245	9.130336	.0142814	-.000465
#2	.0022287	.1140433	.0141476	9.222689	.0141449	.000185
#3	.0022898	.1500543	.0146029	9.305317	.0141344	-.000493

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.42179**	**.0036882**	**.1608374**	**7.032022**	**.0513445**	**.0007224**
Stddev	.10302	.0011313	.0004626	.054802	.0001523	.0003953
%RSD	.2372550	30.67337	.2876303	.7793233	.2967181	54.72282
#1	43.31579	.0040876	.1607535	6.969841	.0515131	.0003675
#2	43.52155	.0024114	.1604225	7.052947	.0512168	.0006511
#3	43.42802	.0045656	.1613362	7.073280	.0513035	.0011484

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02DUP Acquired: 10/3/2025 15:42:42 Type: Unk
Method: 6010-200.7 NEW(v271) 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	-.022538	-.000236	F 11.04384	.3185313	F 10.52275	.0279462
Stddev	.000226	.001502	.05218	.0010172	.02938	.0011562
%RSD	1.003738	636.3684	.4725204	.3193381	.2792504	4.137416
#1	-.022529	-.001215	10.98376	.3196760	10.54326	.0277425
#2	-.022768	.001494	11.06987	.3177309	10.53590	.0269054
#3	-.022316	-.000987	11.07789	.3181871	10.48908	.0291908

Elem	Sr4077
Units	ppm
Avg	.4768458
Stddev	.0005448
%RSD	.1142448
#1	.4774393
#2	.4763686
#3	.4767294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7324.680	106369.5	10223.78	5441.126	8858.312
Stddev	10.769	306.0	56.06	33.950	16.998
%RSD	.1470300	.2876998	.5483241	.6239478	.1918839
#1	7312.497	106711.7	10229.59	5477.186	8838.987
#2	7328.615	106275.0	10276.71	5436.413	8865.005
#3	7332.929	106121.9	10165.04	5409.780	8870.945

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02LX5 Acquired: 10/3/2025 15:46:56 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.000583**	**-.001780**	**-.000126**	**.0005390**	**-.000954**	**.0252251**	**.0186879**
Stddev	.000407	.000997	.000871	.0020997	.000523	.0106886	.0007258
%RSD	69.80069	56.00707	691.9450	389.5701	54.86331	42.37273	3.883846
#1	-.000573	-.000933	-.000021	.0009172	-.000395	.0338226	.0193801
#2	-.000181	-.002879	.000688	-.001724	-.001033	.0132577	.0179326
#3	-.000994	-.001529	-.001045	.002424	-.001433	.0285949	.0187511

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003334**	**.0001737**	**5.603371**	**-.000400**	**.0000002**	**-.000065**	**.0387998**
Stddev	.0000377	.0000605	.003799	.000456	.0001789	.000527	.0351335
%RSD	11.29387	34.82570	.0677988	113.8872	74262.14	815.1780	90.55063
#1	.0003697	.0001545	5.607646	.000066	-.000198	-.000146	.0792354
#2	.0003360	.0001252	5.602085	-.000422	.000149	-.000546	.0214254
#3	.0002945	.0002415	5.600382	-.000844	.000050	.000498	.0157387

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027157**	**2.049799**	**.0035207**	**-.000716**	**13.34549**	**.0013610**	**.0345183**
Stddev	.0005490	.021371	.0002935	.000139	.09560	.0015848	.0002742
%RSD	20.21422	1.042611	8.336593	19.48033	.7163557	116.4431	.7944408
#1	.0031956	2.062979	.0032733	-.000555	13.36105	.0000899	.0348328
#2	.0028344	2.061276	.0038450	-.000809	13.43236	.0008565	.0343288
#3	.0021171	2.025141	.0034437	-.000783	13.24307	.0031366	.0343933

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.027470**	**.0115150**	**.0001231**	**-.008880**	**-.000657**	**2.385472**	**.0715767**
Stddev	.041751	.0008273	.0001952	.000757	.000815	.016580	.0009916
%RSD	1.036654	7.184191	158.6176	8.520966	124.1193	.6950422	1.385323
#1	3.994549	.0122598	.0000270	-.009008	-.000390	2.396163	.0721823
#2	4.013430	.0106246	.0003477	-.009565	-.000008	2.393880	.0721154
#3	4.074431	.0116606	-.000005	-.008068	-.001571	2.366372	.0704324

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02LX5 Acquired: 10/3/2025 15:46:56 Type: Unk
Method: 6010-200.7 NEW(v271) 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	2.368851	.0194766	.1055758
Stddev	.028996	.0021029	.0001837
%RSD	1.224035	10.79729	.1739839
#1	2.382298	.0190115	.1056575
#2	2.388682	.0176451	.1053654
#3	2.335574	.0217732	.1057044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7502.727	105676.3	10078.06	5523.581	9234.522
Stddev	10.982	595.7	59.89	42.884	20.088
%RSD	.1463705	.5636912	.5942350	.7763785	.2175333
#1	7497.708	106240.2	10081.51	5564.456	9230.249
#2	7495.150	105053.3	10136.15	5478.937	9216.914
#3	7515.321	105735.5	10016.53	5527.350	9256.403

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV03 Acquired: 10/3/2025 15:51:13 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**5.081387**	**5.247102**	**4.855276**	**5.170957**	**5.144282**	**9.676817**	**10.04953**
Stddev	.014524	.174274	.013564	.025802	.002434	.021987	.04960
%RSD	.2858321	3.321347	.2793697	.4989823	.0473144	.2272106	.4935368
#1	5.085731	5.302568	4.869252	5.196356	5.144470	9.661550	10.06614
#2	5.065187	5.051845	4.842166	5.144770	5.141759	9.702018	10.08869
#3	5.093244	5.386893	4.854411	5.171745	5.146616	9.666884	9.99376

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2393390**	**2.442581**	**24.23300**	**.9722512**	**2.445173**	**1.247900**	**5.230441**
Stddev	.0013755	.004675	.06252	.0046243	.003175	.000770	.022309
%RSD	.5747013	.1914089	.2580034	.4756282	.1298535	.0617410	.4265259
#1	.2380556	2.446430	24.19102	.9696445	2.447465	1.248789	5.249138
#2	.2391703	2.437378	24.30486	.9695187	2.441548	1.247432	5.236439
#3	.2407910	2.443934	24.20312	.9775903	2.446504	1.247480	5.205746

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.419642**	**23.53158**	**2.452877**	**1.242162**	**27.25490**	**2.450239**	**2.492261**
Stddev	.006028	.00965	.005631	.001005	.14164	.010674	.005641
%RSD	.2491327	.0409923	.2295813	.0809112	.5196847	.4356173	.2263565
#1	2.425056	23.52159	2.458738	1.241373	27.29985	2.444893	2.486256
#2	2.420723	23.54084	2.447507	1.241819	27.36861	2.462529	2.493078
#3	2.413146	23.53230	2.452387	1.243293	27.09624	2.443294	2.497449

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.68416**	**4.554459**	**5.025027**	**4.880178**	**4.901147**	**5.300990**	**4.783770**
Stddev	.05942	.008915	.007515	.017509	.012554	.037653	.022498
%RSD	.2313294	.1957444	.1495454	.3587693	.2561345	.7103018	.4703025
#1	25.73774	4.545119	5.030416	4.892209	4.907959	5.267508	4.781557
#2	25.69448	4.555381	5.016443	4.860092	4.908822	5.293712	4.762460
#3	25.62026	4.562878	5.028222	4.888235	4.886660	5.341751	4.807293

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV03 Acquired: 10/3/2025 15:51:13 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**5.274023**	**4.837885**	**4.976396**
Stddev	.040470	.012604	.038254
%RSD	.7673501	.2605361	.7687172
#1	5.304253	4.830487	4.939107
#2	5.228046	4.852438	4.974534
#3	5.289769	4.830729	5.015547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7094.715**	**101807.7**	**9890.494**	**5304.262**	**8293.906**
Stddev	16.021	105.6	17.691	14.224	12.874
%RSD	.2258119	.1037437	.1788668	.2681692	.1552175
#1	7086.554	101882.4	9908.289	5319.657	8284.915
#2	7084.418	101853.9	9872.909	5301.520	8288.150
#3	7113.173	101686.9	9890.285	5291.608	8308.653

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB03 Acquired: 10/3/2025 16:00:25 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**-.003336**	**-.001137**	**.0002298**	**-.000355**	**-.002418**	**-.004146**
Stddev	.000600	.001132	.0003544	.001397	.001272	.002686
%RSD	17.97471	99.60460	154.2198	393.8259	52.61217	64.79597
#1	-.003088	-.000532	-.000177	-.001908	-.003603	-.004562
#2	-.004020	-.000435	.000396	.000042	-.001074	-.006600
#3	-.002900	-.002442	.000470	.000801	-.002577	-.001276

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008878**	**.0001599**	**.0000385**	**-.032940**	**-.000916**	**-.000008**
Stddev	.000419	.0000262	.0000450	.005987	.000177	.000119
%RSD	4.715422	16.38271	116.8235	18.17457	19.37481	1495.349
#1	-.009348	.0001299	.0000094	-.037065	-.000745	.000125
#2	-.008545	.0001782	.0000903	-.026073	-.000902	-.000045
#3	-.008741	.0001716	.0000158	-.035682	-.001099	-.000104

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000326**	**-.007937**	**-.000910**	**.0191392**	**.0003053**	**-.000572**
Stddev	.000210	.004305	.000095	.0125020	.0003829	.000160
%RSD	64.48234	54.24028	10.48966	65.32144	125.4089	28.02106
#1	-.000568	-.003678	-.000927	.0047631	-.000033	-.000508
#2	-.000179	-.007845	-.000807	.0251891	.000228	-.000755
#3	-.000232	-.012287	-.000995	.0274655	.000721	-.000454

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.085400**	**.0007668**	**-.000073**	**.0175859**	**-.003721**	**.0004816**
Stddev	.015768	.0016752	.000124	.0218891	.000611	.0000819
%RSD	18.46412	218.4603	169.5024	124.4695	16.41208	17.01084
#1	-.067442	.0022113	.000033	.0335118	-.003016	.0004652
#2	-.091776	-.001070	-.000043	-.007374	-.004055	.0005704
#3	-.096982	.001159	-.000210	.026620	-.004092	.0004091

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB03 Acquired: 10/3/2025 16:00:25 Type: Unk
Method: 6010-200.7 NEW(v271) 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	F -.023444	.0004206	.0020213	.0065486	F .0112327	-.008164
Stddev	.000153	.0004466	.0088967	.0011385	.0014115	.000261
%RSD	.6528128	106.1908	440.1514	17.38500	12.56617	3.194802
#1	-.023501	.0002637	-.005113	.0077752	.0096050	-.007863
#2	-.023560	.0009245	-.000813	.0063447	.0121184	-.008308
#3	-.023271	.0000736	.011990	.0055258	.0119749	-.008322

Elem	Sr4077
Units	ppm
Avg	.0000293
Stddev	.0000627
%RSD	214.0569
#1	-.000032
#2	.000026
#3	.000094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7646.224	110163.8	10143.10	5672.968	9495.062
Stddev	4.038	141.5	28.30	23.008	21.829
%RSD	.0528062	.1284171	.2789899	.4055770	.2298974
#1	7647.711	110210.2	10111.13	5692.761	9493.289
#2	7641.653	110004.9	10153.24	5678.420	9474.173
#3	7649.307	110276.2	10164.93	5647.724	9517.722

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02MS Acquired: 10/3/2025 16:04:44 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.7632494**	**2.092143**	**.8598688**	**1.922507**	**.7845129**	**1.881796**
Stddev	.0027319	.033034	.0019435	.000841	.0024779	.010099
%RSD	.3579261	1.578956	.2260270	.0437493	.3158453	.5366822
#1	.7602332	2.054385	.8598053	1.922142	.7832998	1.870618
#2	.7639577	2.115715	.8618434	1.921910	.7828753	1.884507
#3	.7655574	2.106327	.8579579	1.923469	.7873636	1.890263

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3023966**	**.1773878**	**.1765854**	**25.32980**	**.3758497**	**.1821507**
Stddev	.0009382	.0014910	.0004299	.06645	.0012147	.0001011
%RSD	.3102725	.8405124	.2434321	.2623259	.3231851	.0555167
#1	.3014839	.1781579	.1762134	25.26741	.3755748	.1821497
#2	.3033585	.1783363	.1764868	25.32232	.3771784	.1820500
#3	.3023474	.1756693	.1770560	25.39967	.3747961	.1822523

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2814994**	**3.098447**	**.2046561**	**10.59026**	**.4650024**	**.0663776**
Stddev	.0005685	.017937	.0015021	.04354	.0004021	.0001933
%RSD	.2019583	.5789186	.7339835	.4111183	.0864746	.2912276
#1	.2809982	3.079869	.2053039	10.55457	.4651248	.0661741
#2	.2821172	3.099803	.2057256	10.57743	.4653292	.0664000
#3	.2813828	3.115667	.2029387	10.63877	.4645533	.0665587

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.52817**	**.2869158**	**.3455578**	**15.60856**	**.2828896**	**.4180381**
Stddev	.13146	.0044897	.0006745	.10153	.0015101	.0010305
%RSD	.2887482	1.564833	.1951877	.6505069	.5338134	.2464986
#1	45.41306	.2817524	.3450062	15.53391	.2824926	.4168951
#2	45.50001	.2898999	.3453574	15.56759	.2845586	.4183234
#3	45.67142	.2890952	.3463098	15.72418	.2816177	.4188959

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02MS Acquired: 10/3/2025 16:04:44 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.6342723**	**.1870208**	F **11.33799**	**5.356984**	**9.993358**	**.2111196**
Stddev	.0019775	.0013380	.07863	.019122	.028562	.0017085
%RSD	.3117812	.7154312	.6935364	.3569627	.2858125	.8092716
#1	.6320480	.1854848	11.27954	5.336107	9.960637	.2091991
#2	.6349372	.1879323	11.30706	5.373650	10.01329	.2124708
#3	.6358317	.1876455	11.42739	5.361196	10.00614	.2116891

Elem	Sr4077
Units	ppm
Avg	**.6478864**
Stddev	.0021144
%RSD	.3263538
#1	.6460083
#2	.6501765
#3	.6474745

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7418.818**	**105998.3**	**10142.35**	**5535.129**	**8998.626**
Stddev	12.807	144.6	45.76	20.875	10.182
%RSD	.1726332	.1364239	.4511302	.3771446	.1131482
#1	7427.862	105908.0	10117.75	5514.819	9005.717
#2	7404.163	106165.0	10114.16	5556.527	8986.959
#3	7424.429	105921.7	10195.15	5534.040	9003.202

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02MSD Acquired: 10/3/2025 16:08:41 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.7617137	2.061470	.8592936	1.911334	.7739854	1.863370
Stddev	.0014924	.054186	.0005388	.006891	.0002403	.008171
%RSD	.1959227	2.628529	.0627007	.3605361	.0310482	.4385214
#1	.7622101	2.008549	.8593773	1.903390	.7737869	1.868312
#2	.7628946	2.116839	.8587179	1.915707	.7742526	1.867859
#3	.7600364	2.059022	.8597856	1.914904	.7739168	1.853938

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2988211	.1737808	.1759345	25.48303	.3701737	.1811369
Stddev	.0011605	.0011421	.0001889	.03774	.0006889	.0004145
%RSD	.3883662	.6571822	.1073601	.1480926	.1861059	.2288395
#1	.2988087	.1750376	.1757534	25.44986	.3706491	.1809690
#2	.2976669	.1728065	.1761303	25.47513	.3693837	.1808326
#3	.2999878	.1734983	.1759199	25.52409	.3704884	.1816090

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2793193	3.039727	.1967284	10.70039	.4633550	.0642879
Stddev	.0002961	.022377	.0014225	.02362	.0011815	.0002793
%RSD	.1059887	.7361467	.7231007	.2207102	.2549864	.4345216
#1	.2791332	3.021150	.1969018	10.71387	.4646521	.0639731
#2	.2791640	3.033461	.1952271	10.71418	.4623404	.0643843
#3	.2796607	3.064568	.1980563	10.67312	.4630724	.0645063

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.98263	.2810949	.3450985	15.44354	.2792827	.4119752
Stddev	.55899	.0031876	.0012499	.16200	.0016825	.0004317
%RSD	1.242682	1.133987	.3621946	1.048986	.6024283	.1047796
#1	44.60129	.2776018	.3448236	15.32342	.2811964	.4115328
#2	44.72230	.2838461	.3440089	15.37942	.2786156	.4119973
#3	45.62431	.2818367	.3464630	15.62779	.2780361	.4123953

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02MSD Acquired: 10/3/2025 16:08:41 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.6300838	.1833617	F 11.35753	5.295605	F 10.14881	.2068859
Stddev	.0005114	.0022218	.05893	.011269	.03717	.0026130
%RSD	.0811630	1.211693	.5188229	.2128040	.3662054	1.263022
#1	.6298176	.1823182	11.29126	5.306418	10.13405	.2064144
#2	.6297605	.1818538	11.40405	5.296467	10.19109	.2045408
#3	.6306734	.1859131	11.37727	5.283929	10.12129	.2097026

Elem	Sr4077
Units	ppm
Avg	.6474209
Stddev	.0051181
%RSD	.7905421
#1	.6446179
#2	.6443165
#3	.6533282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7393.237	106556.5	10167.28	5476.806	8935.959
Stddev	17.313	225.3	74.87	30.958	24.417
%RSD	.2341748	.2114671	.7364220	.5652577	.2732391
#1	7374.670	106307.0	10080.89	5475.012	8910.388
#2	7408.940	106745.1	10213.54	5508.622	8959.029
#3	7396.100	106617.5	10207.40	5446.783	8938.460

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02A Acquired: 10/3/2025 16:12:39 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.7747725**	**1.873544**	**.8791134**	**1.947708**	**.7917320**	**1.859035**
Stddev	.0030838	.152989	.0017185	.010060	.0022997	.019797
%RSD	.3980295	8.165761	.1954790	.5165175	.2904668	1.064924
#1	.7773633	2.047117	.8807417	1.958722	.7906732	1.880433
#2	.7755927	1.815216	.8773171	1.945397	.7943704	1.855301
#3	.7713615	1.758299	.8792814	1.939004	.7901524	1.841371

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2943601**	**.1711416**	**.1794407**	**24.94233**	**.3661696**	**.1831811**
Stddev	.0007990	.0003200	.0004887	.11595	.0006915	.0005917
%RSD	.2714210	.1870016	.2723664	.4648552	.1888526	.3230356
#1	.2952690	.1712283	.1799920	24.96527	.3664929	.1829407
#2	.2940429	.1714094	.1790605	25.04509	.3666402	.1827475
#3	.2937685	.1707872	.1792696	24.81663	.3653756	.1838552

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2843713**	**2.983681**	**.1966477**	**10.49444**	**.4706588**	**.0638673**
Stddev	.0004511	.011148	.0009007	.05059	.0010221	.0011699
%RSD	.1586418	.3736332	.4580254	.4820236	.2171545	1.831768
#1	.2843116	2.971130	.1966752	10.52762	.4714995	.0638390
#2	.2839529	2.992435	.1975344	10.51947	.4695212	.0650511
#3	.2848492	2.987477	.1957336	10.43621	.4709558	.0627118

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.03652**	**.2814580**	**.3401014**	**15.04669**	**.2768188**	**.4093813**
Stddev	.15112	.0020453	.0004278	.02942	.0024282	.0012340
%RSD	.3511508	.7266833	.1257891	.1955001	.8771830	.3014227
#1	42.91170	.2791111	.3405821	15.02323	.2785794	.4104344
#2	43.20454	.2824026	.3397624	15.03714	.2778285	.4096860
#3	42.99334	.2828603	.3399596	15.07969	.2740487	.4080236

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3263-02A Acquired: 10/3/2025 16:12:39 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.6370599	.1824687	F 11.04394	5.349441	9.972890	.2061181
Stddev	.0019660	.0012365	.09356	.065305	.149600	.0015366
%RSD	.3086100	.6776543	.8471981	1.220775	1.500068	.7454713
#1	.6393290	.1825030	10.94876	5.424560	10.14289	.2073416
#2	.6358661	.1836877	11.13580	5.317582	9.91446	.2066191
#3	.6359846	.1812154	11.04726	5.306180	9.86132	.2043935

Elem	Sr4077
Units	ppm
Avg	.6351386
Stddev	.0018962
%RSD	.2985576
#1	.6357182
#2	.6366774
#3	.6330202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7242.582	108356.1	10235.07	5426.043	8710.611
Stddev	8.879	336.1	52.02	7.150	17.442
%RSD	.1225931	.3101881	.5082991	.1317627	.2002403
#1	7234.167	108310.1	10196.85	5419.734	8690.684
#2	7241.719	108045.3	10214.04	5424.587	8723.107
#3	7251.861	108712.8	10294.32	5433.809	8718.041

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3269-01 Acquired: 10/3/2025 16:16:37 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.0616222	-.026729	2.871152	.0062256	-.013815	178.4955	1.187273
Stddev	.0019398	.006120	.003397	.0012049	.002445	.2754	.011235
%RSD	3.147905	22.89801	.1183073	19.35346	17.69802	.1543018	.9463053
#1	.0608188	-.027952	2.869004	.0072931	-.013710	178.1836	1.176062
#2	.0602131	-.020090	2.875068	.0064645	-.016311	178.7054	1.187226
#3	.0638346	-.032146	2.869384	.0049191	-.011425	178.5974	1.198532

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041883	.0103408	108.8283	.1519641	.1724066	6.491009	286.1913
Stddev	.0000681	.0001669	.4540	.0005168	.0002574	.005954	.7932
%RSD	1.626447	1.613758	.4171567	.3400959	.1492939	.0917279	.2771623
#1	.0042649	.0104560	108.3864	.1518727	.1725306	6.485406	287.1064
#2	.0041654	.0101494	108.8050	.1525205	.1721107	6.497261	285.7684
#3	.0041346	.0104170	109.2935	.1514991	.1725786	6.490360	285.6992

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.194861	67.89447	1.124494	.1495337	9.435990	.4255336	2.208369
Stddev	.041613	.21089	.001369	.0003426	.020151	.0037923	.007287
%RSD	.8010466	.3106087	.1217544	.2291051	.2135524	.8911762	.3299584
#1	5.158921	67.66108	1.126004	.1497313	9.454268	.4217242	2.215343
#2	5.185209	67.95101	1.123333	.1497316	9.439319	.4255680	2.208959
#3	5.240452	68.07133	1.124145	.1491381	9.414381	.4293085	2.200806

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.57736	.3120422	.0016446	.0311161	2.575290	4.211161	8.118538
Stddev	.05532	.0035106	.0002743	.0005081	.015919	.070953	.049114
%RSD	.4074746	1.125030	16.67979	1.632911	.6181357	1.684886	.6049624
#1	13.62872	.3160930	.0015530	.0305883	2.559353	4.289243	8.135035
#2	13.51878	.3098872	.0014278	.0311581	2.575327	4.193607	8.063299
#3	13.58459	.3101462	.0019530	.0316019	2.591191	4.150632	8.157279

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3269-01 Acquired: 10/3/2025 16:16:37 Type: Unk
Method: 6010-200.7 NEW(v271) 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	3.341702	.2021547	.1359923
Stddev	.018927	.0007654	.0034502
%RSD	.5663743	.3786253	2.537087
#1	3.358768	.2013082	.1325297
#2	3.321346	.2023576	.1360172
#3	3.344991	.2027982	.1394300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8073.089	118427.2	11731.91	6025.485	8156.283
Stddev	3.150	769.3	58.43	25.567	9.875
%RSD	.0390239	.6495647	.4980419	.4243214	.1210738
#1	8071.953	117881.5	11799.24	5996.100	8144.890
#2	8070.664	118093.1	11694.58	6037.714	8162.383
#3	8076.650	119307.1	11701.90	6042.641	8161.576

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3269-04 Acquired: 10/3/2025 16:20:40 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.0414899**	**-.015151**	**.1966668**	**.0078052**	**-.011929**	**209.7829**	**.9585390**
Stddev	.0028594	.001830	.0006488	.0019402	.000691	2.7391	.0166212
%RSD	6.891724	12.08016	.3298748	24.85849	5.789410	1.305666	1.734012
#1	.0410952	-.014799	.1968246	.0098870	-.012098	210.2141	.9679155
#2	.0445261	-.013522	.1972221	.0060472	-.011170	206.8539	.9393482
#3	.0388484	-.017131	.1959537	.0074814	-.012520	212.2808	.9683534

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055909**	**.0015078**	**14.30748**	**.1511149**	**.1026361**	**.4065106**	**233.1599**
Stddev	.0000108	.0001735	.21368	.0009362	.0001960	.0013773	1.3742
%RSD	.1922464	11.50747	1.493503	.6195266	.1909325	.3388172	.5893702
#1	.0056018	.0015097	14.35133	.1500499	.1027613	.4080372	232.1876
#2	.0055906	.0016803	14.07527	.1514867	.1027368	.4061334	232.5602
#3	.0055803	.0013333	14.49584	.1518080	.1024103	.4053612	234.7320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.678593**	**38.80770**	**.2182674**	**.0134731**	**2.381067**	**.2410415**	**.5544919**
Stddev	.073410	.46939	.0001520	.0004490	.014773	.0064426	.0004468
%RSD	1.569067	1.209526	.0696414	3.332505	.6204429	2.672827	.0805702
#1	4.717885	38.81709	.2181670	.0134320	2.364373	.2446972	.5540116
#2	4.593900	38.33368	.2184423	.0130461	2.386373	.2336026	.5548951
#3	4.723994	39.27232	.2181930	.0139413	2.392454	.2448247	.5545689

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.48869**	**.2394274**	**.0005973**	**-.013580**	**1.786230**	**3.509896**	**4.115936**
Stddev	.12205	.0079720	.0001963	.000491	.025624	.050831	.016042
%RSD	.9048116	3.329618	32.85948	3.614395	1.434555	1.448214	.3897445
#1	13.34778	.2308733	.0006211	-.014058	1.792249	3.461443	4.112371
#2	13.56092	.2466496	.0003902	-.013607	1.758131	3.505435	4.101977
#3	13.55737	.2407593	.0007805	-.013077	1.808309	3.562810	4.133461

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3269-04 Acquired: 10/3/2025 16:20:40 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.2691331	.2059258	-.143045
Stddev	.0050265	.0032554	.001120
%RSD	1.867659	1.580867	.7826716
#1	.2739742	.2069970	-.141762
#2	.2694854	.2022698	-.143826
#3	.2639398	.2085107	-.143546

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7761.940	110334.9	11010.43	5744.611	8611.175
Stddev	18.091	523.1	161.23	11.707	21.029
%RSD	.2330683	.4741348	1.464295	.2037874	.2442093
#1	7744.863	110804.9	10929.51	5753.647	8589.666
#2	7760.059	110428.6	11196.09	5748.800	8612.168
#3	7780.898	109771.3	10905.70	5731.386	8631.690

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3262-01 Acquired: 10/3/2025 16:24:43 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.0586371	-.019904	.0909584	-.011724	.0097891	141.0223
Stddev	.0019680	.004928	.0020909	.003708	.0015760	.3074
%RSD	3.356245	24.76077	2.298728	31.62478	16.09932	.2179888
#1	.0574805	-.020910	.0886240	-.014507	.0080374	140.9180
#2	.0575215	-.024251	.0915919	-.007515	.0102379	141.3683
#3	.0609095	-.014550	.0926592	-.013148	.0110919	140.7806

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.207156	.0054961	.0048432	1753.150	.2516194	.0871106
Stddev	.002301	.0000423	.0000774	5.897	.0004722	.0003262
%RSD	.1906038	.7696509	1.598578	.3363595	.1876459	.3744898
#1	1.205129	.0054473	.0048463	1758.723	.2511491	.0874816
#2	1.206681	.0055177	.0049191	1753.753	.2520934	.0869815
#3	1.209656	.0055232	.0047643	1746.975	.2516156	.0868687

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3693287	170.8007	2.025459	84.20452	.1997136	.0051653
Stddev	.0012417	.5405	.005139	.29765	.0003354	.0006642
%RSD	.3362096	.3164644	.2537225	.3534819	.1679291	12.85912
#1	.3707529	170.1797	2.021367	83.86164	.1999132	.0049135
#2	.3684726	171.0574	2.031227	84.35551	.1993264	.0046637
#3	.3687607	171.1650	2.023784	84.39641	.1999012	.0059186

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.37629	.3188260	.5860252	41.86234	.4055004	.0105831
Stddev	.09173	.0015066	.0008271	.17442	.0027463	.0004311
%RSD	.5279017	.4725554	.1411351	.4166628	.6772560	4.073207
#1	17.27803	.3191309	.5869502	41.70910	.4025008	.0101856
#2	17.39117	.3171902	.5857687	41.82576	.4061093	.0110413
#3	17.45968	.3201568	.5853568	42.05215	.4078911	.0105223

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3262-01 Acquired: 10/3/2025 16:24:43 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.0117538	5.427969	3.798833	7.093195	F 94.44582	-.115723
Stddev	.0006193	.004030	.018275	.051661	.93872	.000531
%RSD	5.269054	.0742411	.4810672	.7283112	.9939286	.4592618
#1	.0112035	5.427346	3.778521	7.142533	95.10197	-.116205
#2	.0124244	5.432274	3.813941	7.097563	94.86494	-.115153
#3	.0116334	5.424287	3.804038	7.039490	93.37055	-.115810

Elem	Sr4077
Units	ppm
Avg	8.084368
Stddev	.045850
%RSD	.5671428
#1	8.136861
#2	8.052160
#3	8.064082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6827.339	100437.3	10735.50	5107.139	6832.464
Stddev	6.115	161.9	17.75	24.406	5.267
%RSD	.0895641	.1611579	.1653585	.4778896	.0770842
#1	6828.665	100594.8	10738.16	5096.502	6838.544
#2	6832.683	100271.4	10716.56	5089.855	6829.525
#3	6820.670	100445.6	10751.76	5135.058	6829.322

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-01 Acquired: 10/3/2025 16:29:02 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.1854951	-.063705	.7776624	.0152256	-.028829	288.1304	3.170015
Stddev	.0042965	.003896	.0031063	.0034580	.001416	1.1839	.015278
%RSD	2.316236	6.116234	.3994467	22.71204	4.912400	.4108737	.4819685
#1	.1876998	-.068091	.7758529	.0146816	-.029453	286.7635	3.186935
#2	.1882417	-.062383	.7758851	.0120718	-.027208	288.8273	3.165880
#3	.1805438	-.060642	.7812492	.0189234	-.029826	288.8005	3.157229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151415	.0129305	47.46234	.4785622	.3936110	1.172440	729.9121
Stddev	.0001135	.0011253	.15814	.0013821	.0011539	.009252	8.9320
%RSD	.7497508	8.702637	.3331960	.2888042	.2931554	.7891204	1.223708
#1	.0152643	.0116367	47.60158	.4801542	.3923971	1.162307	740.0349
#2	.0150403	.0134729	47.49505	.4776683	.3937421	1.174575	726.5613
#3	.0151201	.0136818	47.29041	.4778643	.3946937	1.180437	723.1399

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.43893	116.5654	.6787527	.0239286	3.866450	.8011849	1.660553
Stddev	.17586	.2531	.0008588	.0031498	.031104	.0038468	.006107
%RSD	.6408976	.2171423	.1265333	13.16337	.8044707	.4801408	.3677570
#1	27.60443	116.7733	.6778071	.0272012	3.891406	.8001072	1.655800
#2	27.45808	116.6393	.6789664	.0236666	3.876341	.8054556	1.667441
#3	27.25428	116.2836	.6794845	.0209179	3.831603	.7979919	1.658419

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.47922	^ *****	.0056424	.0327213	5.704349	4.460363	9.832825
Stddev	.13647	-----	.0003855	.0001807	.019389	.053932	.033494
%RSD	.4477566	-----	6.832914	.5521734	.3398943	1.209148	.3406396
#1	30.63679	^ -----	.0059689	.0327915	5.716094	4.491448	9.866295
#2	30.40237	^ -----	.0057414	.0325161	5.714983	4.491554	9.799306
#3	30.39850	^ -----	.0052171	.0328564	5.681970	4.398087	9.832874

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-01 Acquired: 10/3/2025 16:29:02 Type: Unk
Method: 6010-200.7 NEW(v271) 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	2.739584	1.166956	-.402104
Stddev	.015295	.006607	.007313
%RSD	.5582911	.5661407	1.818558
#1	2.752912	1.172005	-.410511
#2	2.722885	1.169384	-.398581
#3	2.742955	1.159479	-.397220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8049.620	117356.1	11657.51	6033.583	7986.890
Stddev	12.941	337.4	51.27	13.861	5.784
%RSD	.1607671	.2874927	.4397776	.2297304	.0724183
#1	8063.976	117029.1	11655.64	6037.921	7993.471
#2	8046.035	117336.1	11607.20	6018.072	7984.584
#3	8038.850	117703.0	11709.68	6044.757	7982.614

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02 Acquired: 10/3/2025 16:33:18 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.1570517	-.048148	.8212467	.0091517	-.020170	249.1504	2.611876
Stddev	.0014773	.003651	.0013135	.0030739	.000960	.8653	.006802
%RSD	.9406165	7.582647	.1599395	33.58854	4.761622	.3472983	.2604189
#1	.1557417	-.050684	.8223069	.0056901	-.019878	249.8350	2.616386
#2	.1567606	-.049795	.8197773	.0102025	-.019389	249.4383	2.615189
#3	.1586529	-.043963	.8216559	.0115624	-.021242	248.1778	2.604052

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135585	.0113473	55.71654	.4214698	.3084142	1.487592	572.8396
Stddev	.0001137	.0004609	.23432	.0013663	.0003043	.004904	6.1929
%RSD	.8388745	4.061407	.4205532	.3241643	.0986565	.3296319	1.081094
#1	.0136874	.0114094	55.90506	.4206504	.3081457	1.487821	574.1041
#2	.0135154	.0108586	55.79036	.4207120	.3083522	1.482577	578.3027
#3	.0134726	.0117740	55.45420	.4230470	.3087447	1.492377	566.1120

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.15927	107.9886	.5653550	.0254309	2.454725	.6418996	1.619489
Stddev	.11458	.3293	.0005416	.0026852	.030027	.0049682	.001870
%RSD	.5170766	.3049817	.0957960	10.55892	1.223239	.7739864	.1154685
#1	22.24643	108.2848	.5652926	.0255334	2.423636	.6443291	1.621575
#2	22.20190	108.0470	.5648474	.0280634	2.456975	.6451855	1.617964
#3	22.02949	107.6339	.5659251	.0226959	2.483563	.6361841	1.618926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.10414	^ *****	.0049765	.0387748	4.656037	4.935064	9.656260
Stddev	.28644	-----	.0001490	.0005292	.011340	.001637	.055077
%RSD	.8398929	-----	2.995176	1.364904	.2435544	.0331692	.5703772
#1	33.82100	^ -----	.0051425	.0389371	4.662668	4.936753	9.649365
#2	34.09765	^ -----	.0048542	.0381835	4.662500	4.934953	9.714460
#3	34.39377	^ -----	.0049327	.0392040	4.642943	4.933485	9.604954

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02 Acquired: 10/3/2025 16:33:18 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**2.967312**	**.9355691**	**-.240240**
Stddev	.017099	.0025566	.005406
%RSD	.5762456	.2732632	2.250318
#1	2.972840	.9385204	-.240945
#2	2.980963	.9341495	-.245259
#3	2.948133	.9340373	-.234516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8093.035**	**118944.0**	**12044.41**	**6110.576**	**8038.471**
Stddev	15.238	212.6	109.74	9.497	16.797
%RSD	.1882815	.1787387	.9111368	.1554223	.2089533
#1	8102.538	119011.9	11933.76	6115.711	8045.514
#2	8075.460	119114.4	12046.26	6116.401	8019.300
#3	8101.108	118705.8	12153.22	6099.617	8050.601

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02DUP Acquired: 10/3/2025 16:37:20 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.1463714	-.041159	.7836078	.0089884	-.020115	252.9556	2.966183
Stddev	.0022528	.001900	.0032164	.0063207	.002628	1.4344	.013322
%RSD	1.539069	4.616418	.4104539	70.32112	13.06391	.5670497	.4491351
#1	.1466700	-.043238	.7826439	.0042278	-.018018	254.6055	2.970305
#2	.1439843	-.040726	.7809836	.0161598	-.023062	252.2565	2.951287
#3	.1484600	-.039513	.7871959	.0065776	-.019264	252.0048	2.976956

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131648	.0131068	59.40651	.3896301	.3176847	1.647882	555.2090
Stddev	.0001569	.0003786	.07405	.0005978	.0004448	.007417	5.6390
%RSD	1.192038	2.888729	.1246530	.1534368	.1400103	.4501139	1.015647
#1	.0132932	.0130460	59.45816	.3898504	.3174532	1.646692	556.6731
#2	.0129899	.0127623	59.32167	.3889534	.3174033	1.641131	559.9715
#3	.0132114	.0135122	59.43970	.3900866	.3181975	1.655822	548.9824

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.38203	114.8884	.6062978	.0238631	2.509858	.6149176	1.691700
Stddev	.06982	.0866	.0011288	.0024345	.032230	.0034609	.004674
%RSD	.3119382	.0753920	.1861801	10.20179	1.284131	.5628152	.2763059
#1	22.40482	114.8854	.6060706	.0238879	2.478366	.6147160	1.694282
#2	22.30366	114.8033	.6052999	.0262851	2.508431	.6115620	1.694513
#3	22.43760	114.9765	.6075229	.0214164	2.542778	.6184749	1.686304

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.28833	^ *****	.0049454	.0402817	4.591376	4.170157	8.980153
Stddev	.14308	-----	.0005522	.0008048	.012891	.092960	.008611
%RSD	.4054674	-----	11.16647	1.998015	.2807709	2.229183	.0958902
#1	35.12958	^ -----	.0055755	.0402987	4.593359	4.072694	8.986071
#2	35.32810	^ -----	.0045458	.0410779	4.577609	4.257843	8.970274
#3	35.40733	^ -----	.0047149	.0394685	4.603161	4.179933	8.984114

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02DUP Acquired: 10/3/2025 16:37:20 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**3.418969**	**.9819598**	**-.215728**
Stddev	.011368	.0037795	.006726
%RSD	.3324854	.3848887	3.117886
#1	3.428600	.9821433	-.216617
#2	3.406430	.9780919	-.221966
#3	3.421878	.9856441	-.208602

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8262.915**	**120571.5**	**12070.90**	**6263.849**	**8010.492**
Stddev	6.777	199.5	76.65	22.972	7.566
%RSD	.0820182	.1654551	.6349662	.3667355	.0944532
#1	8266.427	120352.0	11988.73	6241.467	8019.229
#2	8267.215	120620.7	12140.46	6262.711	8006.182
#3	8255.102	120741.7	12083.53	6287.368	8006.066

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02LX5 Acquired: 10/3/2025 16:41:28 Type: Unk
Method: 6010-200.7 NEW(v271) 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	**.0346398**	**-.009450**	**.1748214**	**-.000317**	**-.008402**	**58.66648**	**.5968533**
Stddev	.0015919	.000708	.0022105	.001342	.001052	.18019	.0036131
%RSD	4.595534	7.489448	1.264445	423.8705	12.51719	.3071349	.6053626
#1	.0363146	-.008890	.1736772	.000477	-.009559	58.45960	.5948829
#2	.0344583	-.009215	.1773695	-.001866	-.007503	58.75077	.6010233
#3	.0331464	-.010246	.1734177	.000439	-.008146	58.78908	.5946538

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034641**	**.0014443**	**13.57978**	**.1010639**	**.0641367**	**.3676513**	**133.7656**
Stddev	.0000883	.0000136	.09525	.0001984	.0001117	.0004124	.4536
%RSD	2.548217	.9425477	.7014104	.1963382	.1741101	.1121759	.3390753
#1	.0034175	.0014567	13.47164	.1011403	.0641263	.3681162	133.7271
#2	.0034089	.0014298	13.65126	.1012128	.0642532	.3673295	134.2371
#3	.0035659	.0014464	13.61643	.1008387	.0640306	.3675083	133.3324

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.399247**	**26.23301**	**.1202341**	**.0051876**	**1.173093**	**.1510084**	**.3810955**
Stddev	.041851	.14139	.0004346	.0004319	.015106	.0022043	.0017472
%RSD	.7751240	.5389794	.3614341	8.325026	1.287675	1.459684	.4584767
#1	5.359662	26.07067	.1201471	.0054012	1.156470	.1488332	.3819439
#2	5.443045	26.29912	.1207056	.0046905	1.185981	.1509515	.3822565
#3	5.395032	26.32923	.1198496	.0054710	1.176828	.1532406	.3790860

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.014671**	**.1200563**	**.0007212**	**.0030105**	**1.118330**	**1.094788**	**1.967289**
Stddev	.038260	.0031602	.0002304	.0002380	.005243	.020018	.015549
%RSD	.4773761	2.632289	31.95219	7.906597	.4688340	1.828457	.7903586
#1	8.058703	.1236720	.0009804	.0032768	1.115152	1.107869	1.985181
#2	7.995773	.1178218	.0006440	.0029364	1.124382	1.071744	1.959638
#3	7.989537	.1186752	.0005393	.0028184	1.115457	1.104751	1.957048

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: Q3266-02LX5 Acquired: 10/3/2025 16:41:28 Type: Unk
Method: 6010-200.7 NEW(v271) 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	.5985679	.2224568	-.054079
Stddev	.0019302	.0015535	.000193
%RSD	.3224697	.6983302	.3577712
#1	.6002119	.2217664	-.054181
#2	.5964426	.2242358	-.054199
#3	.5990491	.2213682	-.053856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7577.332	109996.8	10339.13	5675.271	8758.159
Stddev	19.719	340.8	82.29	20.348	13.288
%RSD	.2602382	.3098467	.7959525	.3585425	.1517239
#1	7599.761	110379.4	10429.67	5670.517	8773.503
#2	7569.519	109725.5	10268.88	5657.720	8750.489
#3	7562.717	109885.6	10318.84	5697.575	8750.486

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV04 Acquired: 10/3/2025 16:45:32 Type: Unk
Method: 6010-200.7 NEW(v271) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.933448**	**5.246645**	**4.696208**	**5.059970**	**5.018065**	**9.417425**
Stddev	.008142	.037183	.010291	.013651	.006821	.041399
%RSD	.1650364	.7086980	.2191299	.2697799	.1359194	.4396016
#1	4.924452	5.211995	4.695968	5.044800	5.010219	9.370301
#2	4.935583	5.242012	4.706617	5.071263	5.022578	9.447946
#3	4.940310	5.285927	4.686039	5.063847	5.021397	9.434027

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.781563**	**.2335683**	**2.362950**	**23.56993**	**.9381022**	**2.366274**
Stddev	.182587	.0018242	.005033	.12919	.0038482	.004981
%RSD	1.866641	.7810311	.2129829	.5480956	.4102125	.2105144
#1	9.572816	.2322365	2.362797	23.43019	.9398151	2.364000
#2	9.860312	.2328210	2.368058	23.59460	.9407965	2.371987
#3	9.911559	.2356476	2.357996	23.68501	.9336949	2.362835

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.210032**	**5.124981**	**2.371863**	**22.71524**	**2.373609**	**1.213483**
Stddev	.000833	.043002	.013221	.22829	.004487	.004870
%RSD	.0688629	.8390607	.5574035	1.004997	.1890236	.4013243
#1	1.209097	5.157858	2.359161	22.45172	2.372315	1.217369
#2	1.210696	5.140768	2.370879	22.85256	2.378600	1.215060
#3	1.210303	5.076318	2.385548	22.84145	2.369911	1.208020

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.41222**	**2.391289**	**2.418260**	**24.10455**	F **4.458670**	**4.872827**
Stddev	.18396	.009250	.014140	.06551	.043576	.010217
%RSD	.7239222	.3868282	.5847149	.2717834	.9773393	.2096686
#1	25.47765	2.380608	2.427608	24.09588	4.423681	4.862703
#2	25.55454	2.396707	2.425178	24.17396	4.444847	4.883134
#3	25.20449	2.396552	2.401993	24.04380	4.507481	4.872644

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCV04 Acquired: 10/3/2025 16:45:32 Type: Unk
Method: 6010-200.7 NEW(v271) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.719723**	**4.777069**	**5.051511**	**4.595194**	**4.985802**	**4.709911**
Stddev	.016234	.026666	.030799	.029411	.026010	.021847
%RSD	.3439644	.5582186	.6097077	.6400381	.5216792	.4638611
#1	4.718736	4.746790	5.030263	4.596824	4.970074	4.685771
#2	4.736428	4.787362	5.086833	4.623756	5.015824	4.715638
#3	4.704004	4.797055	5.037437	4.565002	4.971507	4.728325

Elem	Sr4077
Units	ppm
Avg	**4.878822**
Stddev	.008443
%RSD	.1730500
#1	4.870131
#2	4.879342
#3	4.886992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7309.695**	**104011.2**	**10079.19**	**5466.502**	**8554.740**
Stddev	5.873	529.7	77.58	46.947	18.468
%RSD	.0803483	.5092385	.7697084	.8588182	.2158848
#1	7304.548	103984.4	10160.10	5462.153	8544.380
#2	7308.445	103495.4	10072.04	5421.881	8543.777
#3	7316.093	104553.7	10005.43	5515.473	8576.062

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

Sample Name: CCB04 Acquired: 10/3/2025 16:49:57 Type: Unk
Method: 6010-200.7 NEW(v271) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002337**	**-.001141**	**-.000236**	**.0016643**	**-.000544**	**-.000148**
Stddev	.001994	.000876	.001402	.0012379	.000576	.012527
%RSD	85.29430	76.79486	595.2958	74.38067	105.9294	8460.128
#1	-.003544	-.000133	.001051	.0002661	-.000026	.013840
#2	-.000036	-.001571	-.001730	.0026207	-.000441	-.003952
#3	-.003432	-.001719	-.000027	.0021062	-.001164	-.010333

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010298**	**.0001723**	**.0000390**	**-.021500**	**-.000737**	**-.000063**
Stddev	.000242	.0000540	.0000449	.005693	.000086	.000215
%RSD	2.350485	31.35780	115.0906	26.47783	11.72657	339.1794
#1	-.010019	.0001103	.0000765	-.015230	-.000796	.000093
#2	-.010415	.0002089	.0000513	-.022926	-.000638	-.000308
#3	-.010459	.0001978	-.000011	-.026345	-.000777	.000026

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000361**	**-.004288**	**.0002076**	**.0168827**	**.0002755**	**-.000779**
Stddev	.000201	.003687	.0006358	.0227277	.0005202	.000147
%RSD	55.48384	85.98785	306.2486	134.6210	188.8191	18.81839
#1	-.000297	-.000072	-.000519	.0107681	.0007658	-.000786
#2	-.000586	-.005881	.000660	-.002162	-.000270	-.000630
#3	-.000201	-.006910	.000482	.042042	.000331	-.000923

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.125696**	**-.001272**	**-.000046**	**.0379385**	**-.005137**	**.0006877**
Stddev	.020782	.001437	.000128	.0276111	.000734	.0003540
%RSD	16.53367	112.9652	279.7049	72.77855	14.28735	51.47863
#1	-.133877	-.000697	-.000181	.0599321	-.004632	.0010822
#2	-.102068	-.000212	.000075	.0469312	-.004799	.0003975
#3	-.141142	-.002907	-.000032	.0069521	-.005979	.0005835

Reviewed By:jaswal
On:10/7/2025 4:45:27 PM
Inst Id :P4
LB :LB137426

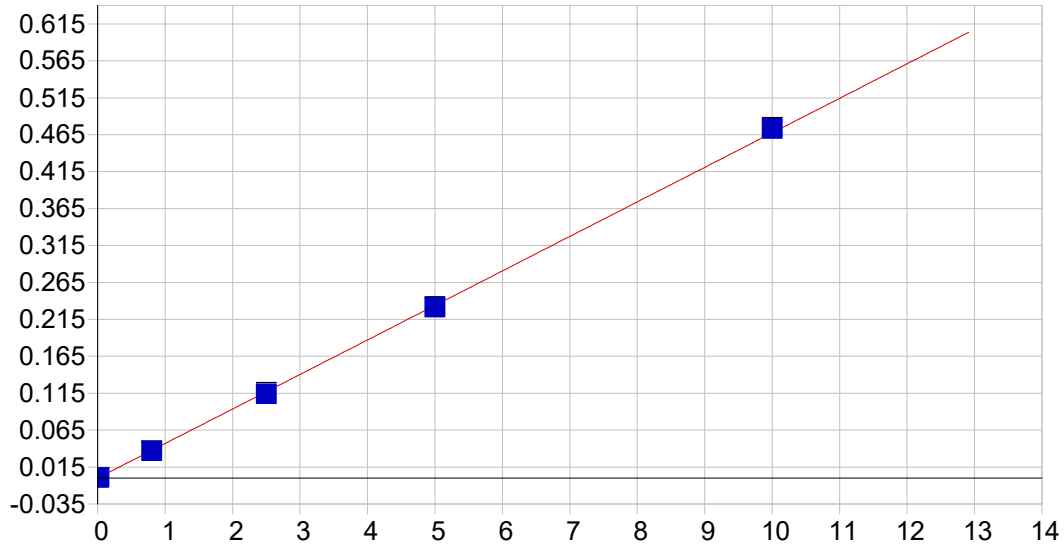
Sample Name: CCB04 Acquired: 10/3/2025 16:49:57 Type: Unk
Method: 6010-200.7 NEW(v271) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.023343	-.000871	.0049208	.0073944	-.001678	-.006741
Stddev	.000188	.001334	.0123598	.0005795	.003083	.001252
%RSD	.8035729	153.1352	251.1743	7.837244	183.7130	18.57225
#1	-.023233	-.001112	.0049301	.0071923	-.004825	-.006489
#2	-.023237	.000567	-.007444	.0069431	-.001547	-.005635
#3	-.023559	-.002068	.017276	.0080479	.001337	-.008100

Elem	Sr4077
Units	ppm
Avg	-.000004
Stddev	.000119
%RSD	2876.302
#1	.000067
#2	-.000141
#3	.000062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7601.350	109140.7	9985.879	5696.663	9417.114
Stddev	10.431	83.6	21.935	13.579	5.342
%RSD	.1372239	.0765870	.2196584	.2383655	.0567313
#1	7601.520	109175.4	10011.16	5705.078	9416.590
#2	7611.695	109201.3	9974.60	5703.912	9422.699
#3	7590.835	109045.3	9971.88	5680.998	9412.052

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



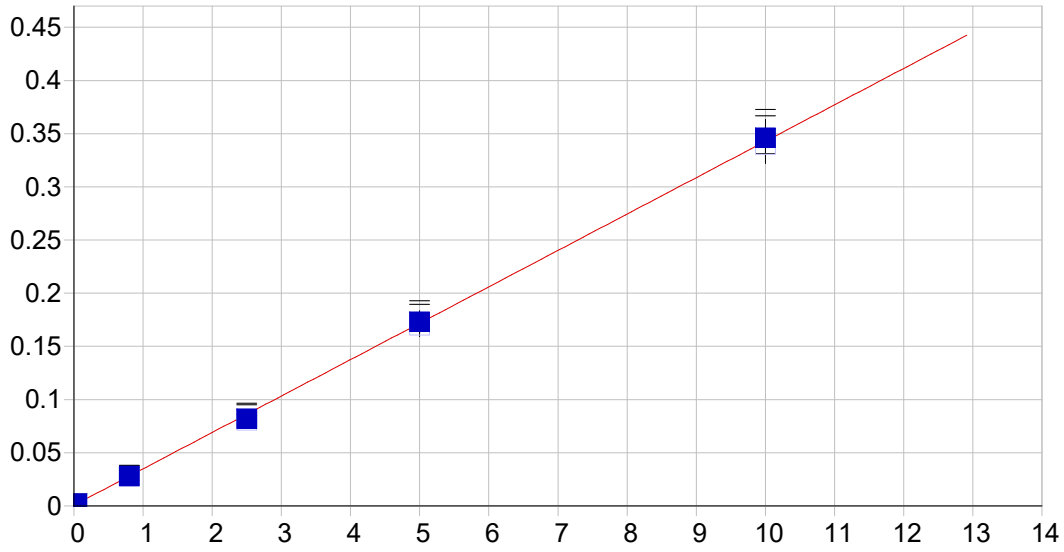
As 189.042 {479}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.046741	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.002181		
Predicted MQL:	0.007270		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.02000	.01843	-.002	-7.84	.00094	.000	1
S3	2.5000	2.4414	-.059	-2.35	.11407	.002	1
S4	5.0000	4.9469	-.053	-1.06	.23106	.001	1
S5	10.000	10.124	.124	1.24	.47281	.002	1
S2	.80000	.78929	-.011	-1.34	.03694	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



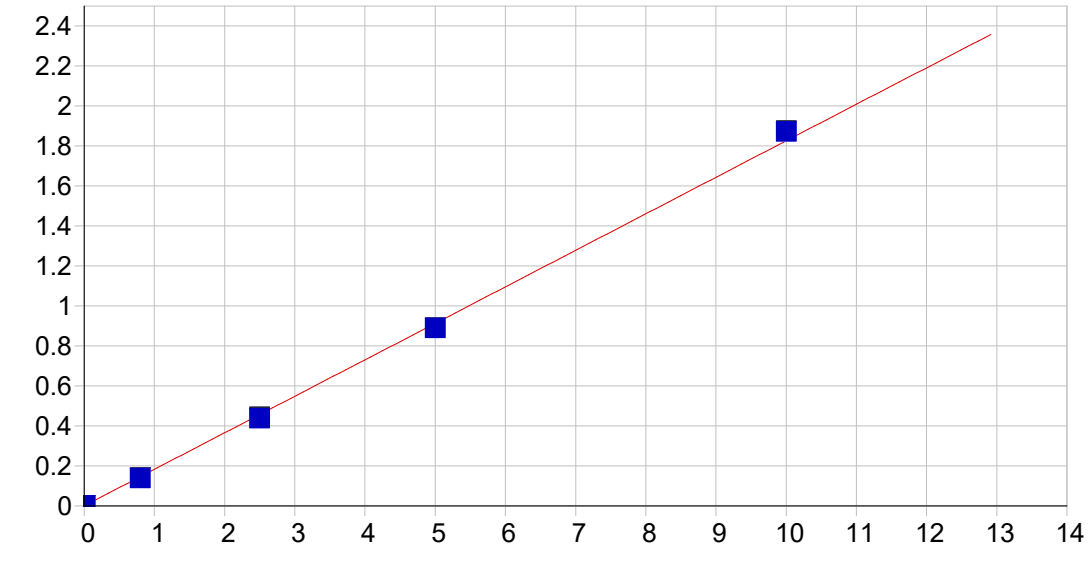
Tl 190.856 {477}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000653	Re-Slope:	1.000000
A1 (Gain):	0.034221	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.003828		
Predicted MQL:	0.012761		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00065	.000	1
S1	.04000	.04075	.001	1.88	.00196	.000	1
S3	2.5000	2.3758	-.124	-4.97	.08039	.005	1
S4	5.0000	5.0334	.033	.668	.16978	.011	1
S5	10.000	10.088	.088	.881	.33964	.018	1
S2	.80000	.80198	.002	.248	.02760	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



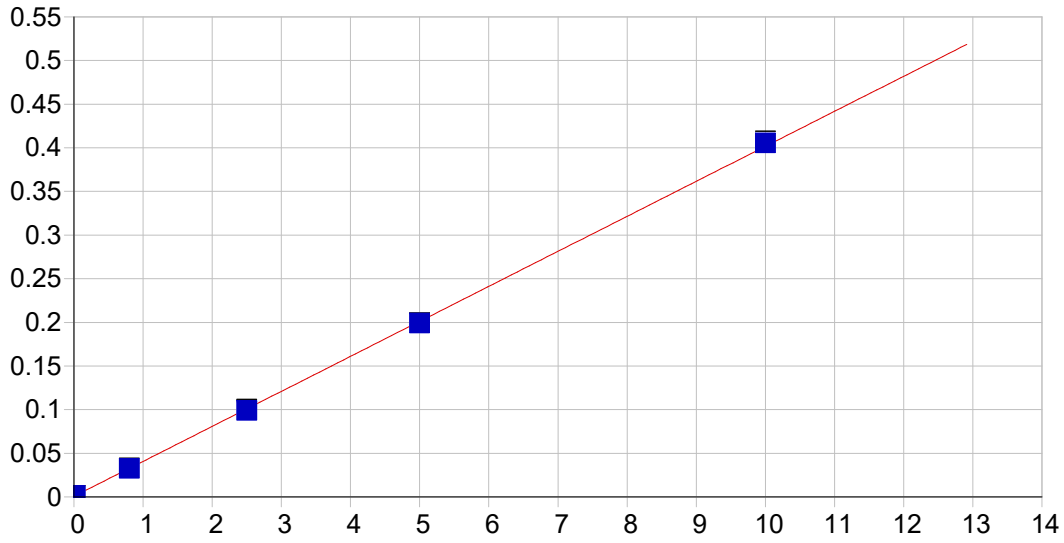
Pb 220.353 {453}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000338	Re-Slope:	1.000000
A1 (Gain):	0.182569	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999582	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.001338		
Predicted MQL:	0.004459		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00034	.000	1
S1	.01200	.01193	-.000	-.560	.00247	.000	1
S3	2.5000	2.4014	-.099	-3.94	.43826	.006	1
S4	5.0000	4.8747	-.125	-2.51	.88929	.002	1
S5	10.000	10.259	.259	2.59	1.8713	.002	1
S2	.80000	.76476	-.035	-4.41	.13980	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



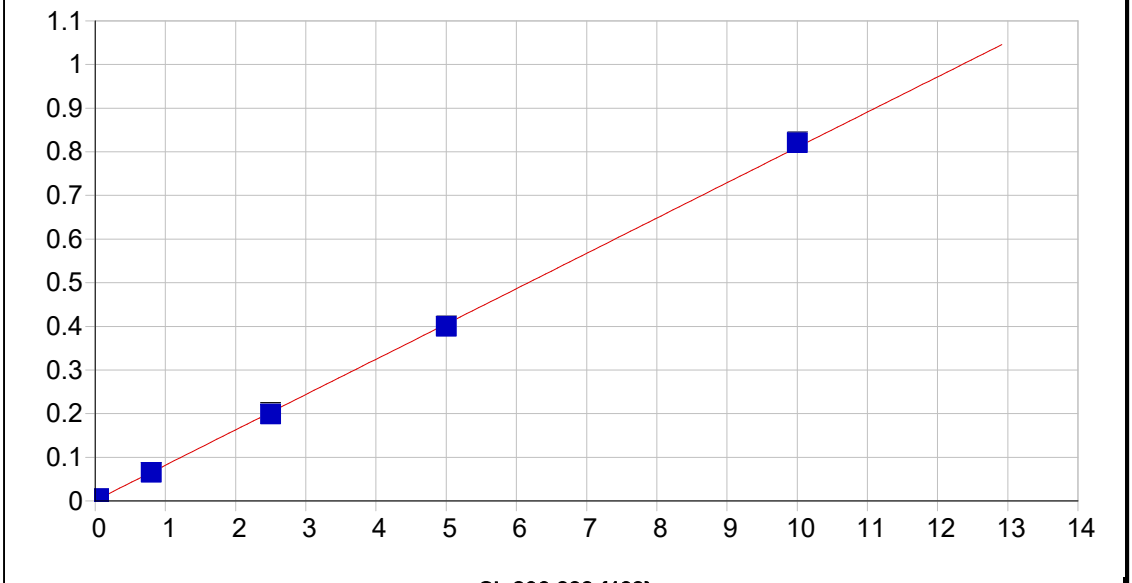
Se 196.090 {472}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000620	Re-Slope:	1.000000
A1 (Gain):	0.040107	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.003211		
Predicted MQL:	0.010702		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00062	.000	1
S1	.02000	.02140	.001	7.01	.00148	.000	1
S3	2.5000	2.4541	-.046	-1.83	.09902	.002	1
S4	5.0000	4.9487	-.051	-1.03	.19904	.001	1
S5	10.000	10.096	.096	.964	.40545	.002	1
S2	.80000	.79932	-.001	-.085	.03267	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



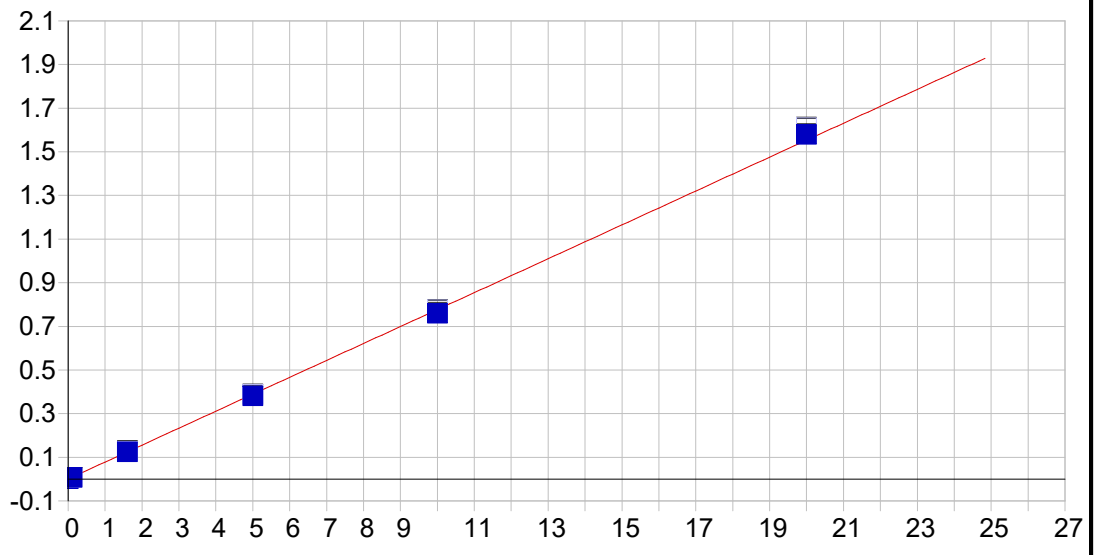
Sb 206.833 {463}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000972	Re-Slope:	1.000000
A1 (Gain):	0.080899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.002037		
Predicted MQL:	0.006789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00097	.000	1
S1	.05000	.04861	-.001	-2.79	.00491	.000	1
S3	2.5000	2.4487	-.051	-2.05	.19962	.003	1
S4	5.0000	4.9284	-.072	-1.43	.40078	.000	1
S5	10.000	10.133	.133	1.33	.82291	.001	1
S2	.80000	.79144	-.009	-1.07	.06517	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



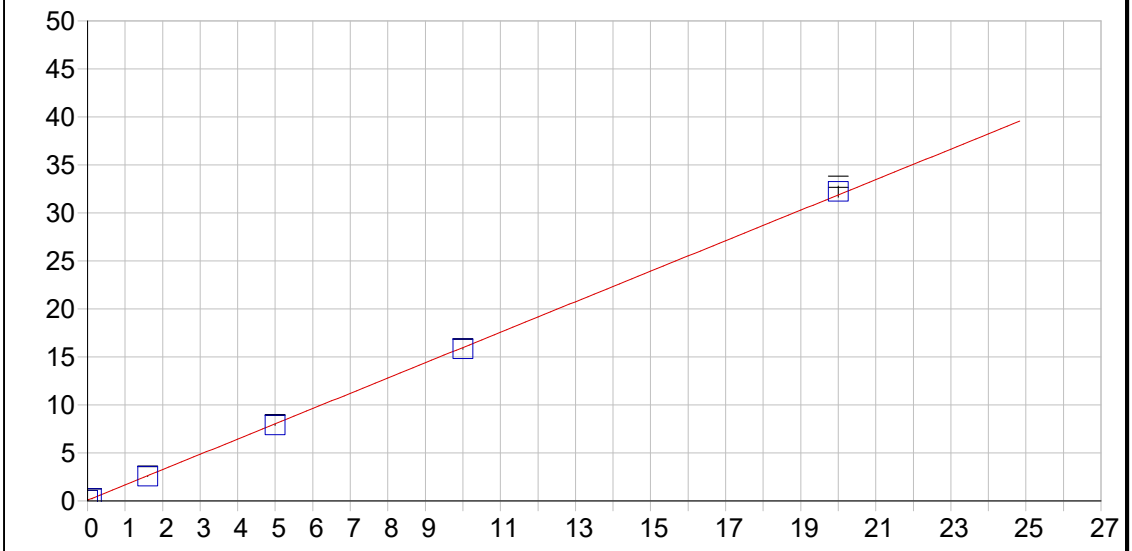
Al 396.152 { 85}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000549	Re-Slope:	1.000000
A1 (Gain):	0.077636	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.013994		
Predicted MQL:	0.046646		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00055	.001	1
S1	.10000	.08559	-.014	-14.4	.00780	.001	1
S3	5.0000	4.8957	-.104	-2.09	.38817	.001	1
S4	10.000	9.7824	-.218	-2.18	.77508	.002	1
S5	20.000	20.344	.344	1.72	1.6101	.003	1
S2	1.6000	1.5932	-.007	-.424	.12665	.004	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



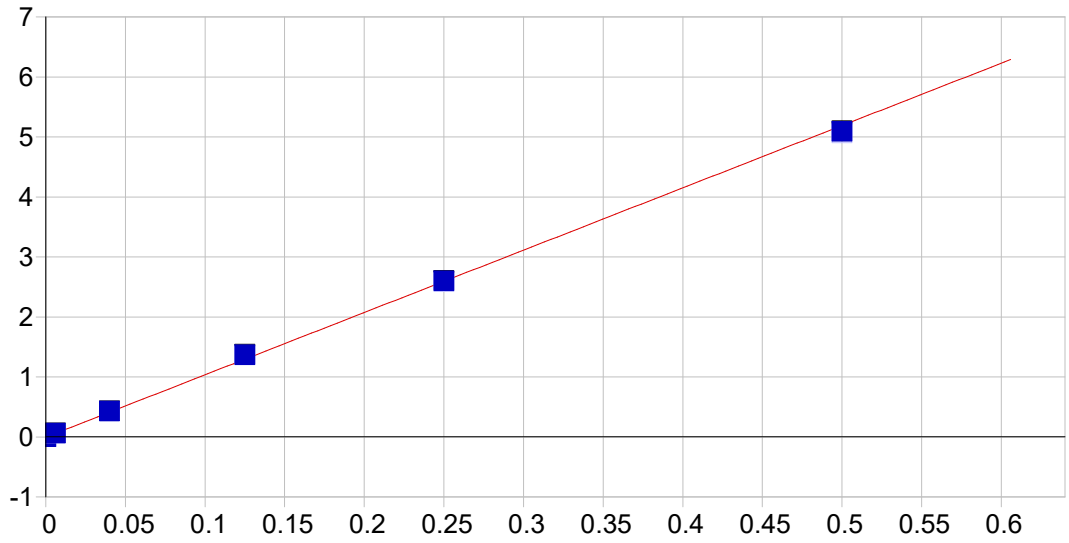
Ba 493.409 { 68}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.084471	Re-Slope:	1.000000
A1 (Gain):	1.589570	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.001451		
Predicted MDL:	0.001813		
Predicted MQL:	0.006042		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.08448	.001	1
S1	.10000	.09533	-.005	-4.67	.23601	.004	1
S3	5.0000	4.9251	-.075	-1.50	7.9132	.041	1
S4	10.000	9.9026	-.097	-.974	15.825	.025	1
S5	20.000	20.216	.216	1.08	32.219	.571	1
S2	1.6000	1.5612	-.039	-2.43	2.5661	.023	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



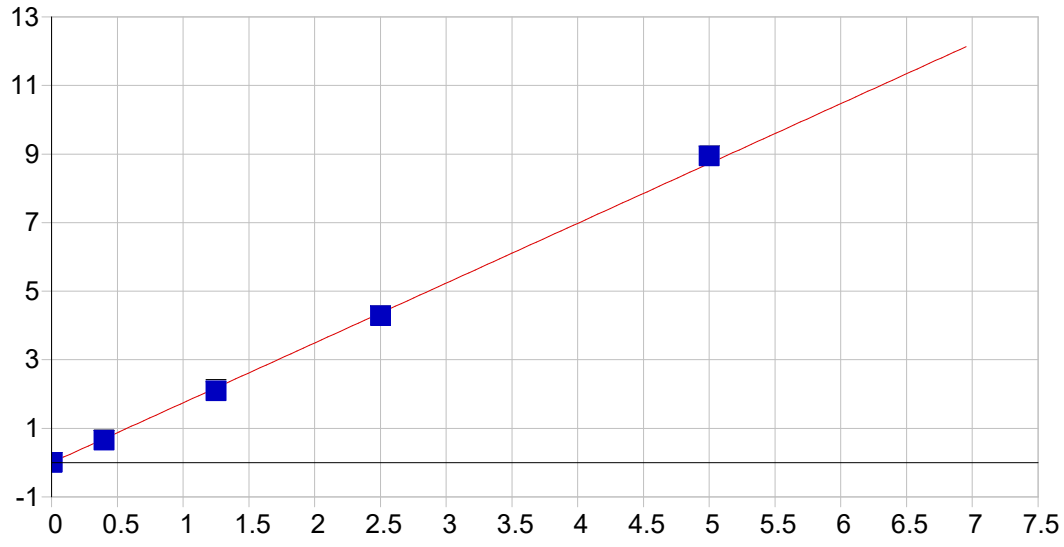
Be 234.861 {144}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003801	Re-Slope:	1.000000
A1 (Gain):	10.386900	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999623	Status:	OK.
Std Error of Est:	0.000817		
Predicted MDL:	0.000071		
Predicted MQL:	0.000236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00381	.000	1
S1	.00600	.00623	.000	3.75	.06039	.000	1
S3	.12500	.13219	.007	5.75	1.3634	.009	1
S4	.25000	.25049	.000	.196	2.5864	.007	1
S5	.50000	.49033	-.010	-1.93	5.0660	.012	1
S2	.04000	.04177	.002	4.41	.42815	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



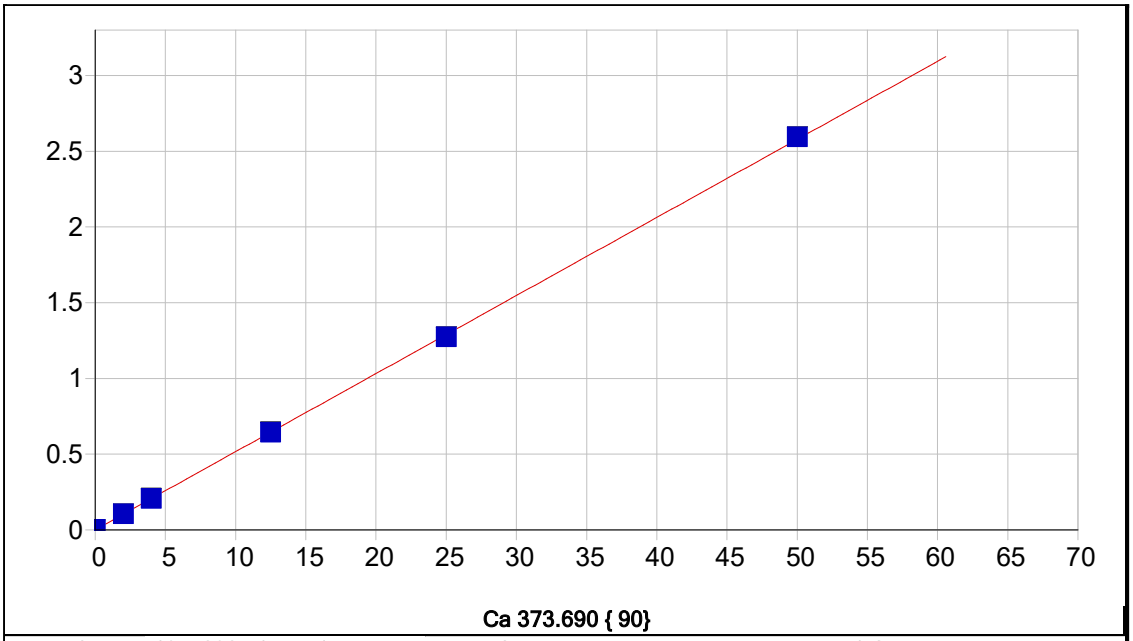
Cd 226.502 {449}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000630	Re-Slope:	1.000000
A1 (Gain):	1.745133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999590	Status:	OK.
Std Error of Est:	0.000454		
Predicted MDL:	0.000108		
Predicted MQL:	0.000361		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00063	.000	1
S1	.00600	.00583	-.000	-2.83	.00958	.000	1
S3	1.2500	1.2003	-.050	-3.98	2.0954	.028	1
S4	2.5000	2.4521	-.048	-1.92	4.2815	.015	1
S5	5.0000	5.1230	.123	2.46	8.9455	.017	1
S2	.40000	.37477	-.025	-6.31	.65386	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



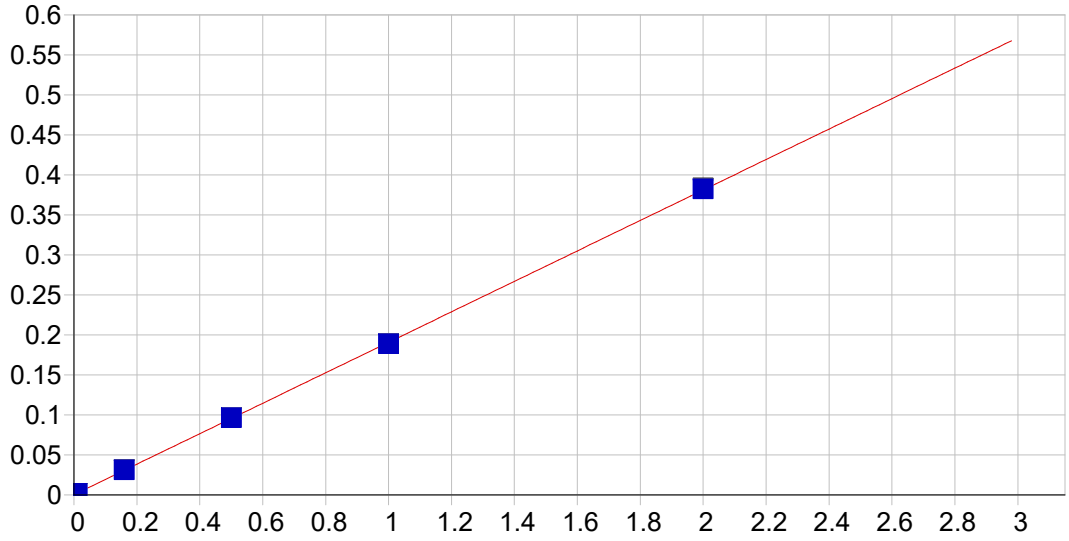
Ca 373.690 { 90}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001234	Re-Slope:	1.000000
A1 (Gain):	0.051535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000221		
Predicted MDL:	0.016575		
Predicted MQL:	0.055252		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00123	.000	1
S2	4.0000	3.9924	-.008	-.190	.20698	.002	1
S3	12.500	12.474	-.026	-.210	.64407	.002	1
S4	25.000	24.692	-.308	-1.23	1.2737	.003	1
S5	50.000	50.324	.324	.649	2.5947	.002	1
S1	2.0000	2.0177	.018	.883	.10521	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



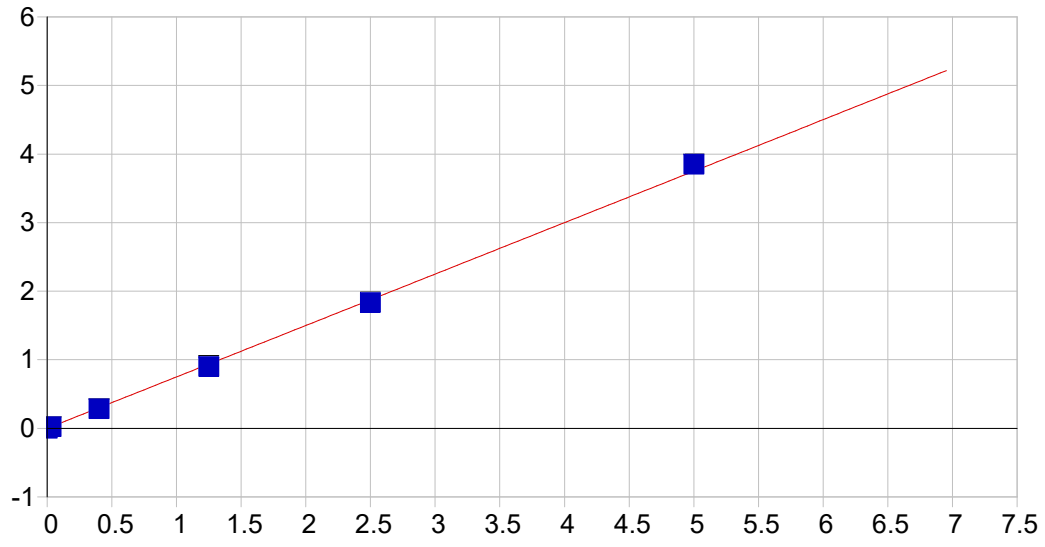
Cr 267.716 {126}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000340	Re-Slope:	1.000000
A1 (Gain):	0.190403	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.000409		
Predicted MQL:	0.001364		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00034	.000	1
S1	.01000	.00966	-.000	-3.41	.00218	.000	1
S3	.50000	.50395	.004	.790	.09637	.000	1
S4	1.0000	.98879	-.011	-1.12	.18876	.001	1
S5	2.0000	2.0058	.006	.291	.38256	.001	1
S2	.16000	.16177	.002	1.11	.03117	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



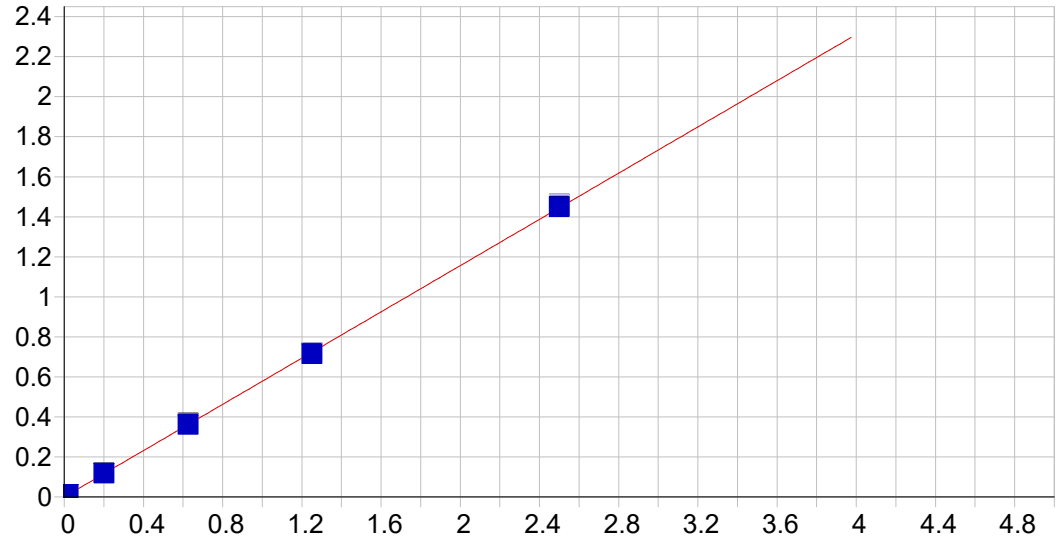
Co 228.616 {448}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000184	Re-Slope:	1.000000
A1 (Gain):	0.750200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999564	Status:	OK.
Std Error of Est:	0.000451		
Predicted MDL:	0.000233		
Predicted MQL:	0.000777		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.03000	.02879	-.001	-4.05	.02132	.000	1
S3	1.2500	1.1983	-.052	-4.14	.90037	.013	1
S4	2.5000	2.4421	-.058	-2.32	1.8350	.005	1
S5	5.0000	5.1314	.131	2.63	3.8558	.005	1
S2	.40000	.37942	-.021	-5.14	.28497	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



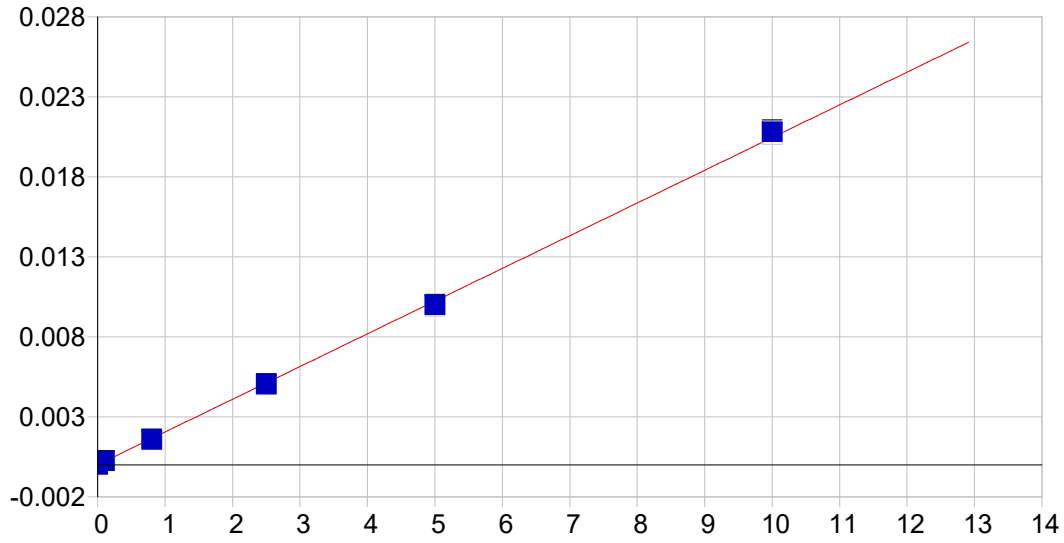
Cu 224.700 {450}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000519	Re-Slope:	1.000000
A1 (Gain):	0.577712	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.000432		
Predicted MQL:	0.001439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00052	.000	1
S1	.02000	.02165	.002	8.23	.01315	.000	1
S3	.62500	.62519	.000	.030	.36471	.005	1
S4	1.2500	1.2364	-.014	-1.09	.72080	.001	1
S5	2.5000	2.5088	.009	.352	1.4619	.002	1
S2	.20000	.20300	.003	1.50	.11876	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



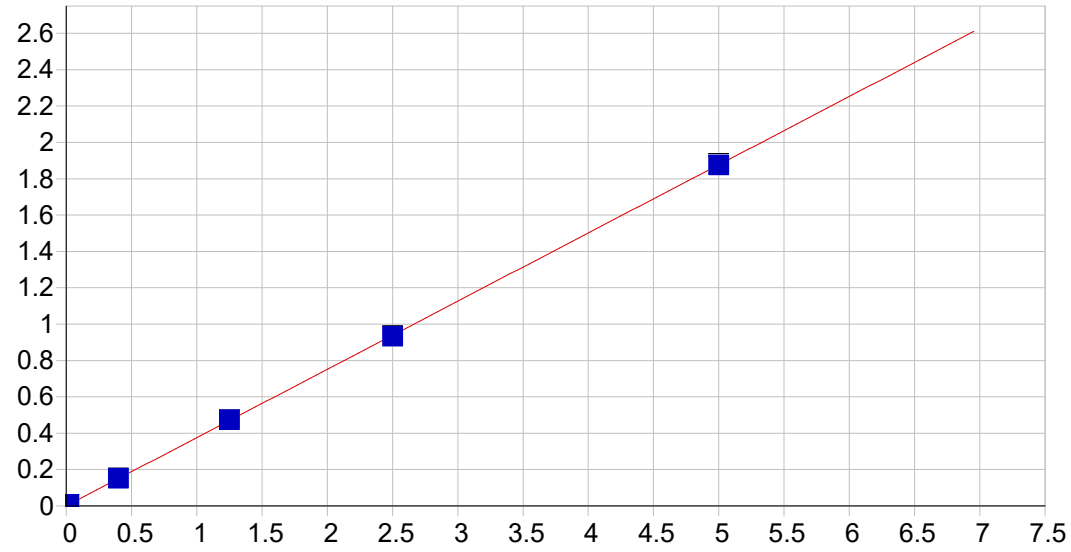
Fe 240.488 {140}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.002044	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999732	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.010924		
Predicted MQL:	0.036415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00001	.000	1
S1	.10000	.11407	.014	14.1	.00025	.000	1
S3	2.5000	2.4605	-.039	-1.58	.00500	.000	1
S4	5.0000	4.8807	-.119	-2.39	.00991	.000	1
S5	10.000	10.175	.175	1.75	.02064	.000	1
S2	.80000	.76952	-.030	-3.81	.00157	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



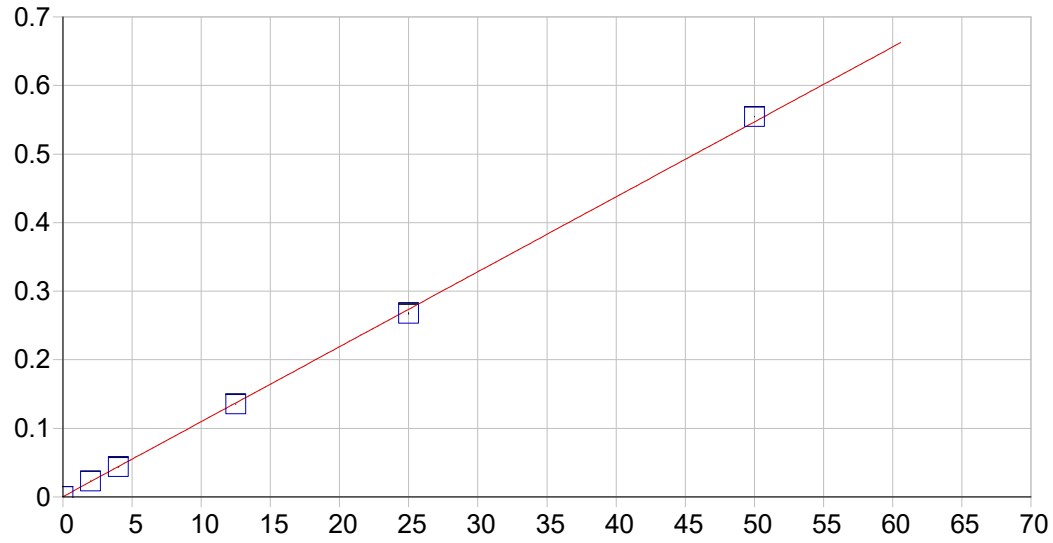
Mn 257.610 {131}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.375362	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000825		
Predicted MQL:	0.002752		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.02000	.02062	.001	3.12	.00809	.000	1
S3	1.2500	1.2627	.013	1.02	.47441	.002	1
S4	2.5000	2.4858	-.014	-.568	.93361	.002	1
S5	5.0000	4.9961	-.004	-.078	1.8761	.008	1
S2	.40000	.40478	.005	1.20	.15231	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



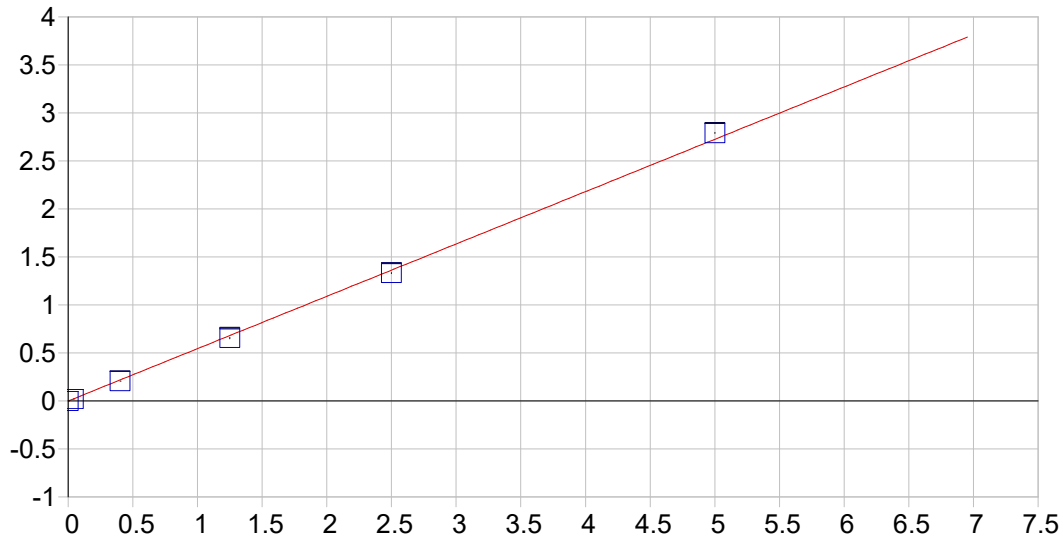
Mg 279.079 {121}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000443	Re-Slope:	1.000000
A1 (Gain):	0.010929	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.036570		
Predicted MQL:	0.121901		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00044	.000	1
S2	4.0000	3.9570	-.043	-1.07	.04369	.001	1
S3	12.500	12.341	-.159	-1.27	.13532	.001	1
S4	25.000	24.437	-.563	-2.25	.26752	.001	1
S5	50.000	50.697	.697	1.39	.55453	.000	1
S1	2.0000	2.0684	.068	3.42	.02305	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



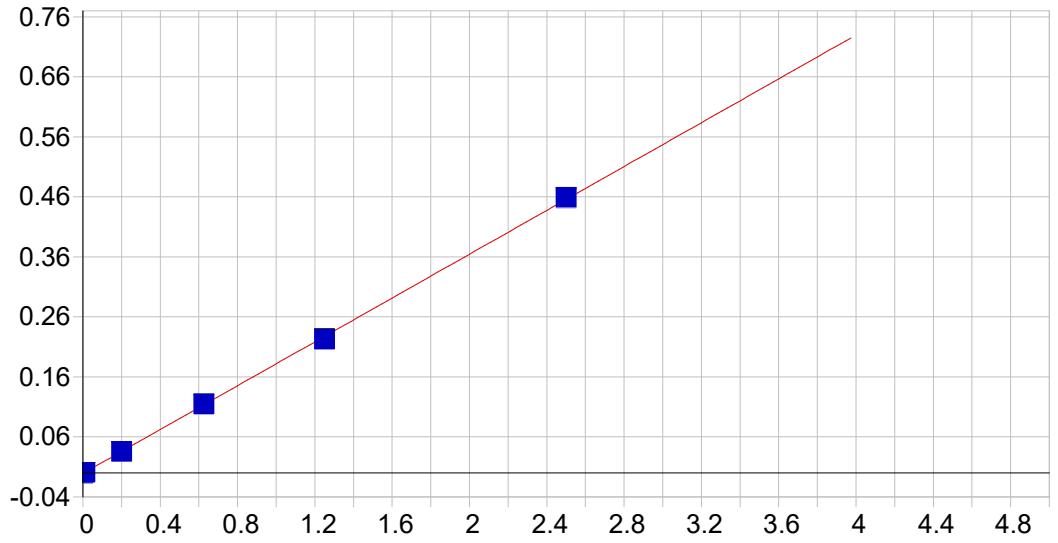
Ni 231.604 {446}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000628	Re-Slope:	1.000000
A1 (Gain):	0.545157	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999630	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.000360		
Predicted MQL:	0.001200		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00063	.000	1
S1	.04000	.03857	-.001	-3.58	.02040	.000	1
S3	1.2500	1.2035	-.046	-3.72	.65548	.009	1
S4	2.5000	2.4443	-.056	-2.23	1.3319	.004	1
S5	5.0000	5.1218	.122	2.44	2.7915	.004	1
S2	.40000	.38180	-.018	-4.55	.20751	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



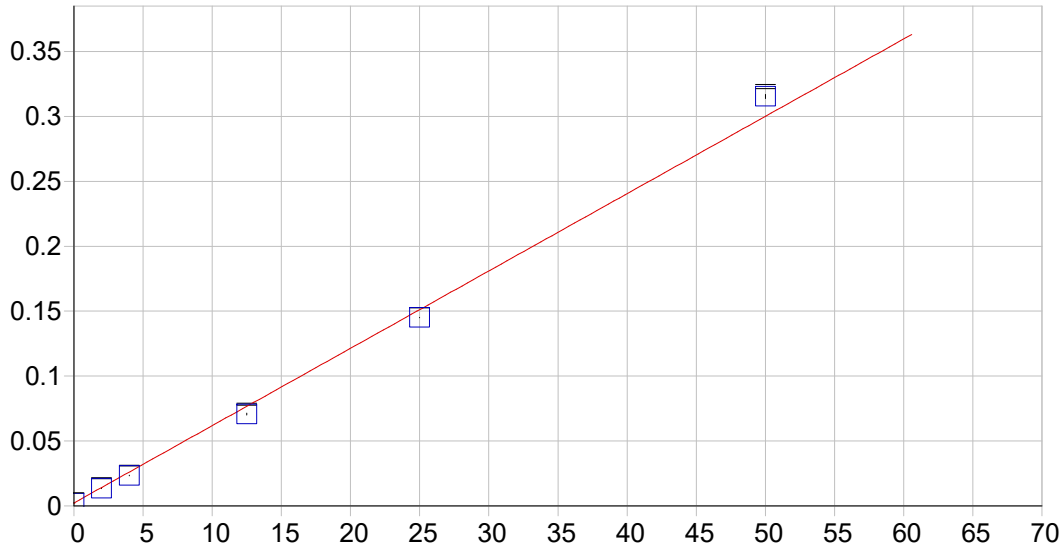
Ag 328.068 {103}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000792	Re-Slope:	1.000000
A1 (Gain):	0.182614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.000664		
Predicted MQL:	0.002212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00079	.000	1
S1	.01000	.01018	.000	1.80	.00105	.000	1
S3	.62500	.63170	.007	1.07	.11401	.000	1
S4	1.2500	1.2260	-.024	-1.92	.22199	.000	1
S5	2.5000	2.5177	.018	.708	.45676	.000	1
S2	.20000	.19939	-.001	-.304	.03544	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



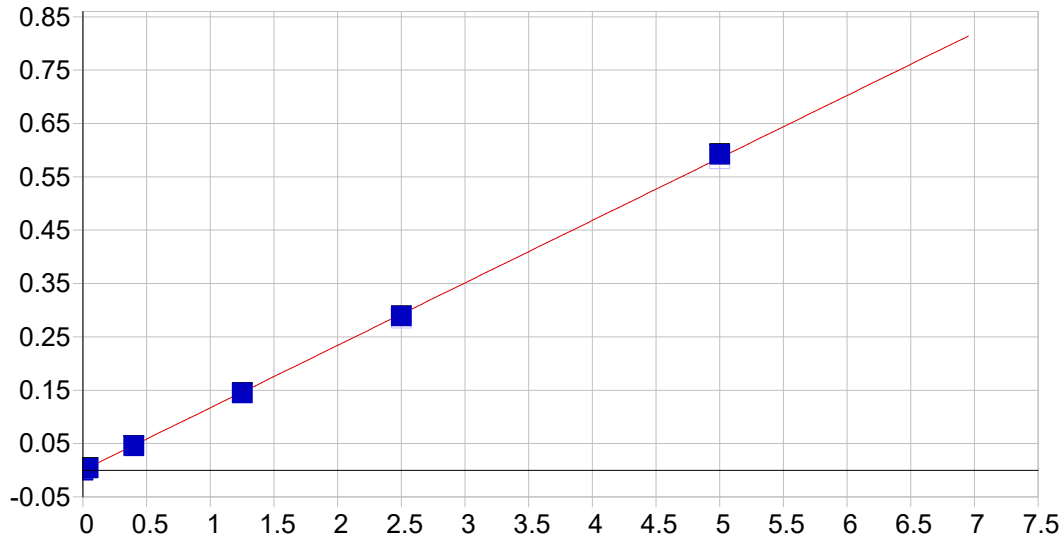
Na 589.592 { 57}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002266	Re-Slope:	1.000000
A1 (Gain):	0.005956	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998336	Status:	OK.
Std Error of Est:	0.000182		
Predicted MDL:	0.026546		
Predicted MQL:	0.088487		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00046	.000	.000	.00227	.000	1
S2	4.0000	3.5479	-.452	-11.3	.02340	.000	1
S3	12.500	11.495	-1.01	-8.04	.07073	.001	1
S4	25.000	23.976	-1.02	-4.10	.14506	.000	1
S5	50.000	52.579	2.58	5.16	.31542	.002	1
S1	2.0000	1.9029	-.097	-4.86	.01360	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



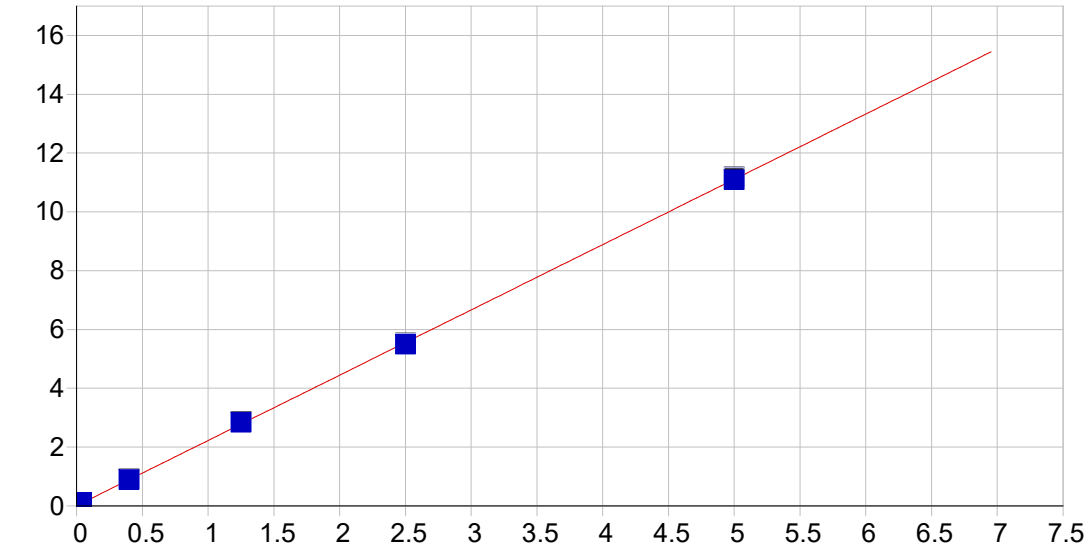
V 292.402 {115}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000094	Re-Slope:	1.000000
A1 (Gain):	0.117095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.004034		
Predicted MQL:	0.013445		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.04000	.03662	-.003	-8.46	.00402	.000	1
S3	1.2500	1.2395	-.011	-.840	.14291	.000	1
S4	2.5000	2.4669	-.033	-1.32	.28450	.001	1
S5	5.0000	5.0556	.056	1.11	.58335	.002	1
S2	.40000	.39134	-.009	-2.16	.04505	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



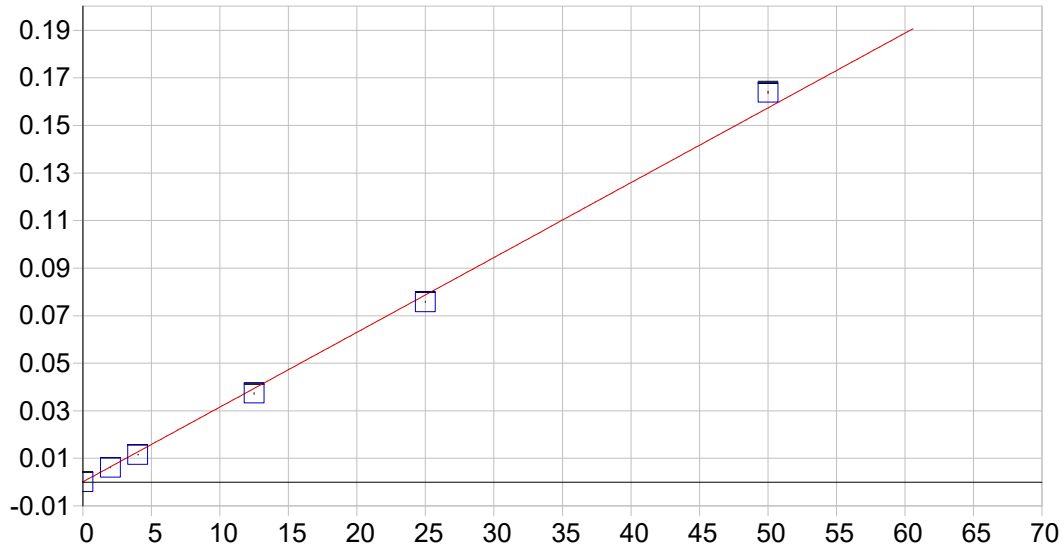
Zn 213.856 {158}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005665	Re-Slope:	1.000000
A1 (Gain):	2.220344	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000919		
Predicted MDL:	0.000271		
Predicted MQL:	0.000902		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00564	.001	1
S1	.04000	.04898	.009	22.4	.11503	.001	1
S3	1.2500	1.2746	.025	1.97	2.8550	.007	1
S4	2.5000	2.4705	-.029	-1.18	5.5297	.013	1
S5	5.0000	4.9945	-.006	-.111	11.172	.013	1
S2	.40000	.40145	.001	.362	.90320	.006	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



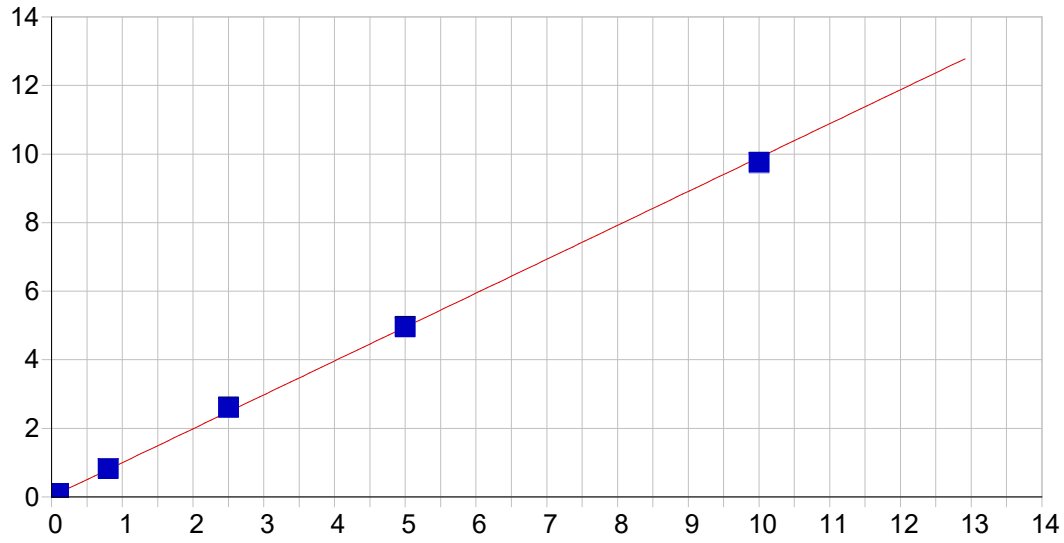
K 766.490 { 44}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.003145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998942	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.060369		
Predicted MQL:	0.201231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00038	.000	.000	.00014	.000	1
S2	4.0000	3.6308	-.369	-9.23	.01155	.000	1
S3	12.500	11.826	-.674	-5.39	.03732	.000	1
S4	25.000	24.057	-.943	-3.77	.07578	.000	1
S5	50.000	52.086	2.09	4.17	.16392	.000	1
S1	2.0000	1.9003	-.100	-4.99	.00611	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



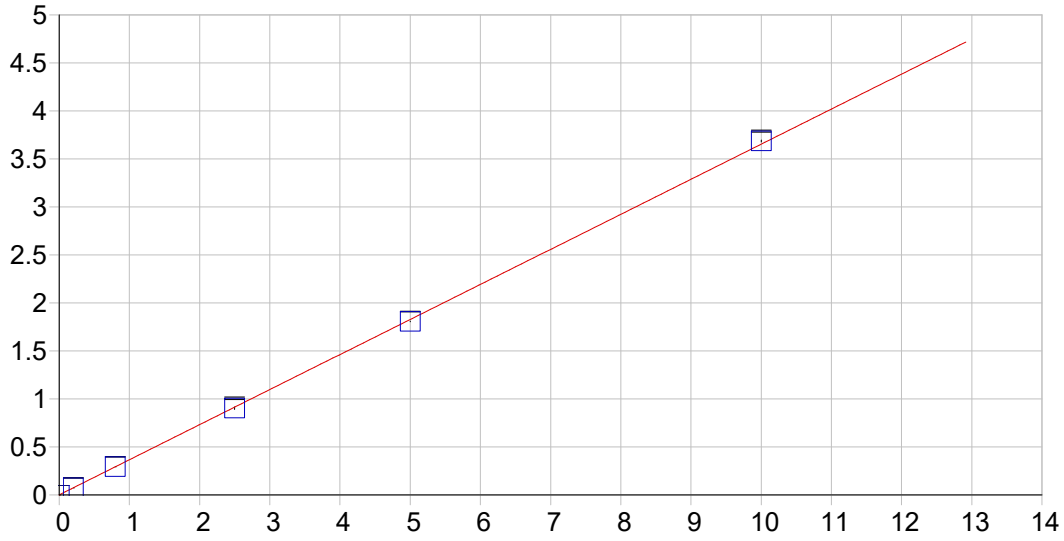
B 249.678 {135}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009276	Re-Slope:	1.000000
A1 (Gain):	0.988848	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999760	Status:	OK.
Std Error of Est:	0.001134		
Predicted MDL:	0.000780		
Predicted MQL:	0.002599		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00927	.000	1
S1	.10000	.09914	-.001	-.858	.10673	.001	1
S3	2.5000	2.6209	.121	4.83	2.5920	.018	1
S4	5.0000	5.0015	.001	.030	4.9372	.021	1
S5	10.000	9.8536	-.146	-1.46	9.7173	.013	1
S2	.80000	.82492	.025	3.12	.82215	.004	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



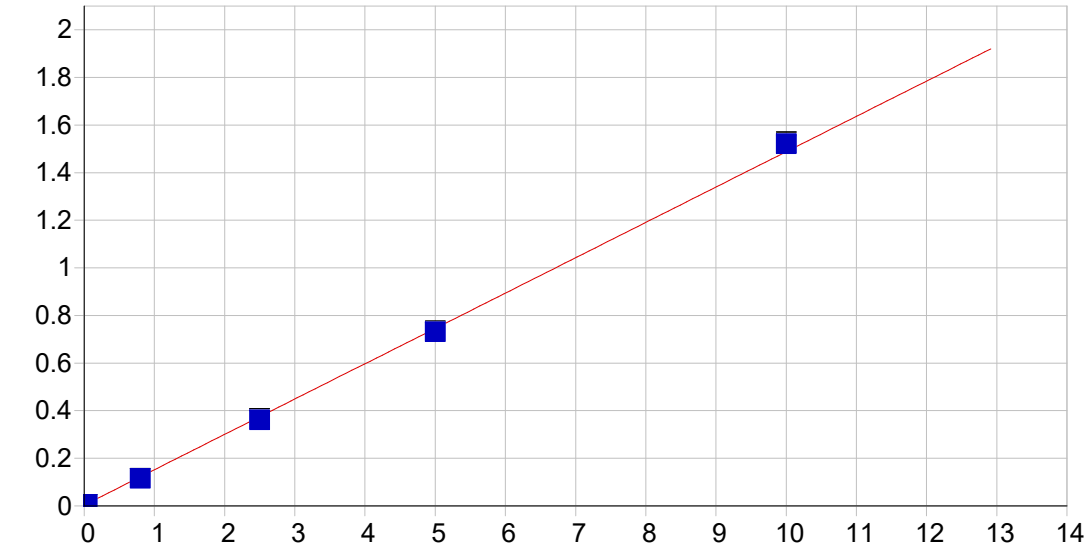
Mo 202.030 {467}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000783	Re-Slope:	1.000000
A1 (Gain):	0.365273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000267		
Predicted MDL:	0.000397		
Predicted MQL:	0.001323		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00078	.000	1
S1	.20000	.19759	-.002	-1.21	.07296	.000	1
S3	2.5000	2.4725	-.027	-1.10	.90393	.013	1
S4	5.0000	4.9418	-.058	-1.16	1.8059	.003	1
S5	10.000	10.088	.088	.882	3.6857	.010	1
S2	.80000	.79989	-.000	-.014	.29296	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



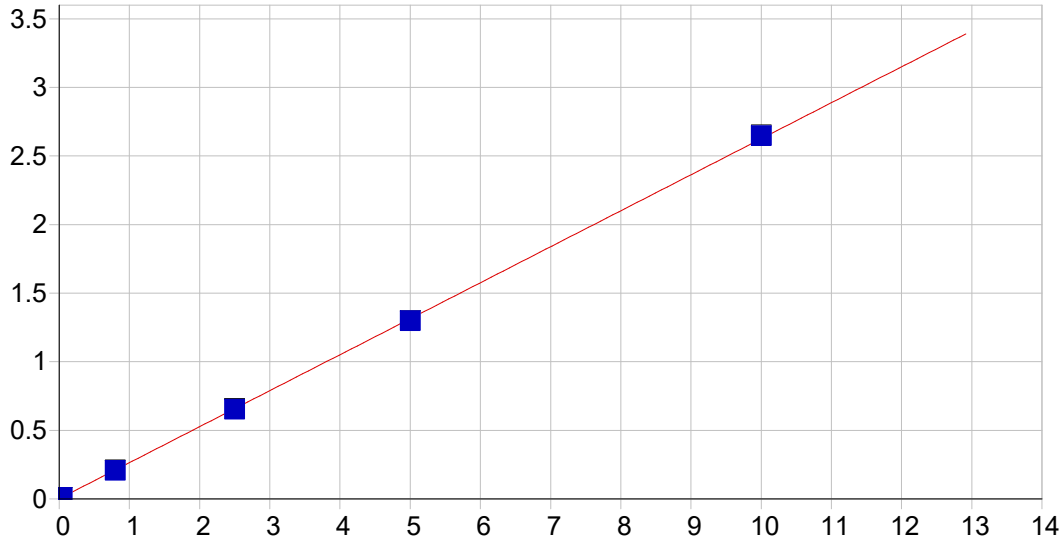
Sn 189.989 {478}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003509	Re-Slope:	1.000000
A1 (Gain):	0.148443	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999631	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.000595		
Predicted MQL:	0.001984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00351	.000	1
S1	.04000	.03424	-.006	-14.4	.00859	.000	1
S3	2.5000	2.4100	-.090	-3.60	.36088	.006	1
S4	5.0000	4.9050	-.095	-1.90	.73086	.003	1
S5	10.000	10.233	.233	2.33	1.5210	.007	1
S2	.80000	.75790	-.042	-5.26	.11589	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



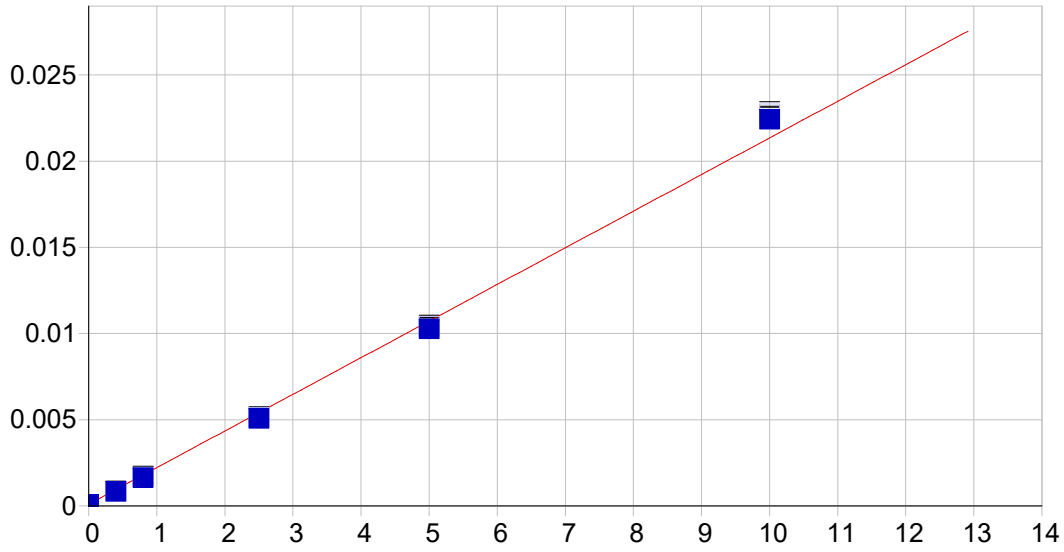
Ti 336.121 {100}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001684	Re-Slope:	1.000000
A1 (Gain):	0.262406	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.002334		
Predicted MQL:	0.007781		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00168	.001	1
S1	.04000	.03862	-.001	-3.46	.01181	.000	1
S3	2.5000	2.4854	-.015	-.585	.65363	.003	1
S4	5.0000	4.9419	-.058	-1.16	1.2980	.001	1
S5	10.000	10.085	.085	.853	2.6472	.006	1
S2	.80000	.78880	-.011	-1.40	.20859	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



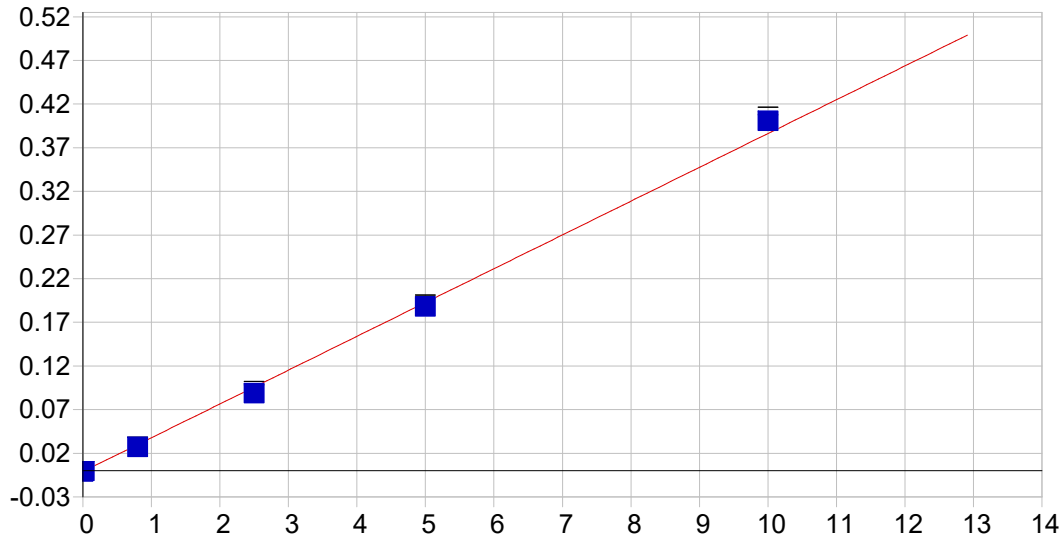
Si 288.158 {117}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000097	Re-Slope:	1.000000
A1 (Gain):	0.002125	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998469	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.018888		
Predicted MQL:	0.062962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00010	.000	1
S1	.40000	.34833	-.052	-12.9	.00084	.000	1
S3	2.5000	2.3383	-.162	-6.47	.00515	.000	1
S4	5.0000	4.7818	-.218	-4.36	.01042	.000	1
S5	10.000	10.505	.505	5.05	.02274	.000	1
S2	.80000	.72586	-.074	-9.27	.00167	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



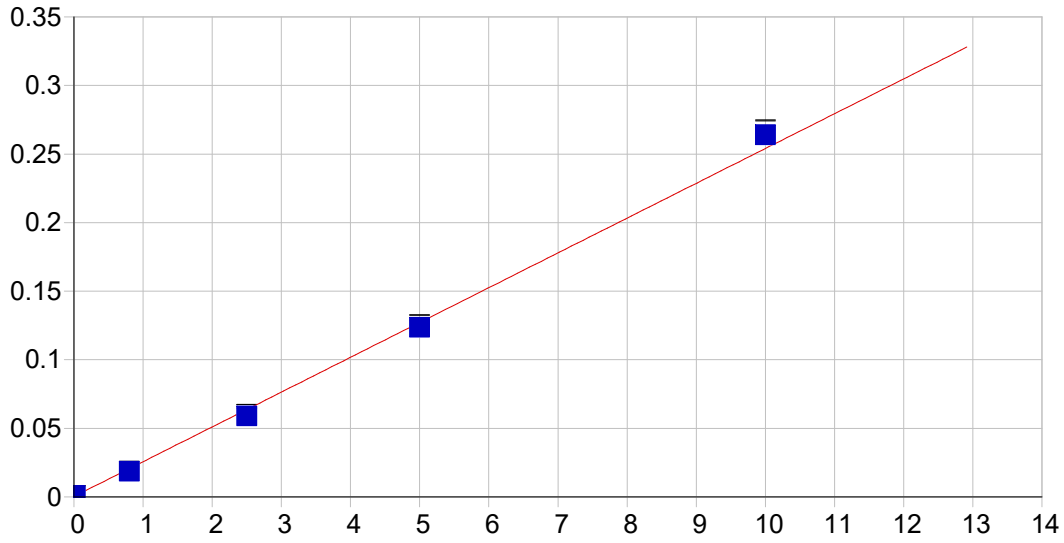
P 177.495 {490}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000953	Re-Slope:	1.000000
A1 (Gain):	0.038722	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998985	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.001764		
Predicted MQL:	0.005880		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00095	.000	1
S1	.02000	.01733	-.003	-13.4	-.00028	.000	1
S3	2.5000	2.3209	-.179	-7.17	.08890	.002	1
S4	5.0000	4.8842	-.116	-2.32	.18814	.002	1
S5	10.000	10.374	.374	3.74	.40070	.004	1
S2	.80000	.72330	-.077	-9.59	.02705	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



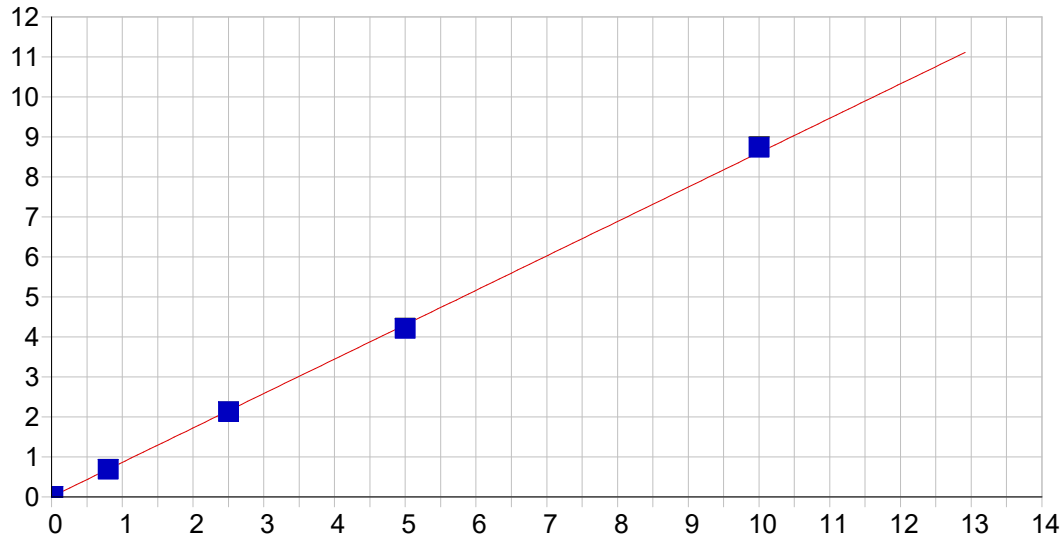
S 182.034 {485}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000308	Re-Slope:	1.000000
A1 (Gain):	0.025372	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998860	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.003001		
Predicted MQL:	0.010004		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00031	.000	1
S1	.02000	.02036	.000	1.80	.00080	.000	1
S3	2.5000	2.3100	-.190	-7.60	.05875	.001	1
S4	5.0000	4.8632	-.137	-2.74	.12337	.002	1
S5	10.000	10.403	.403	4.03	.26359	.003	1
S2	.80000	.72391	-.076	-9.51	.01862	.000	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



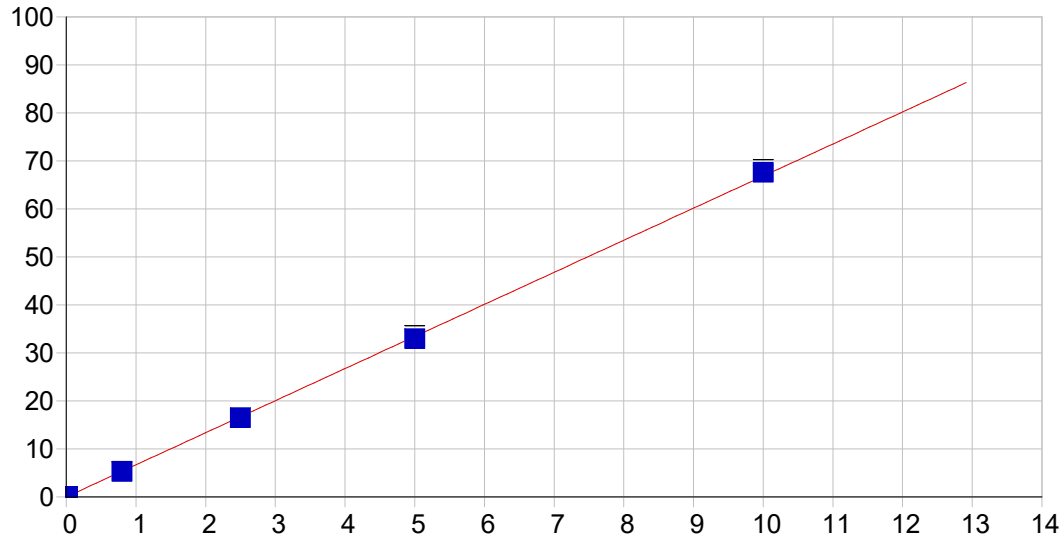
Li 670.784 { 50}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003236	Re-Slope:	1.000000
A1 (Gain):	0.860266	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000350		
Predicted MDL:	0.002348		
Predicted MQL:	0.007826		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00324	.001	1
S5	10.000	10.153	.153	1.53	8.7441	.011	1
S4	5.0000	4.8871	-.113	-2.26	4.2109	.009	1
S3	2.5000	2.4660	-.034	-1.36	2.1263	.005	1
S1	.02000	.02145	.001	7.24	.02199	.001	1
S2	.80000	.79281	-.007	-.898	.68582	.001	1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



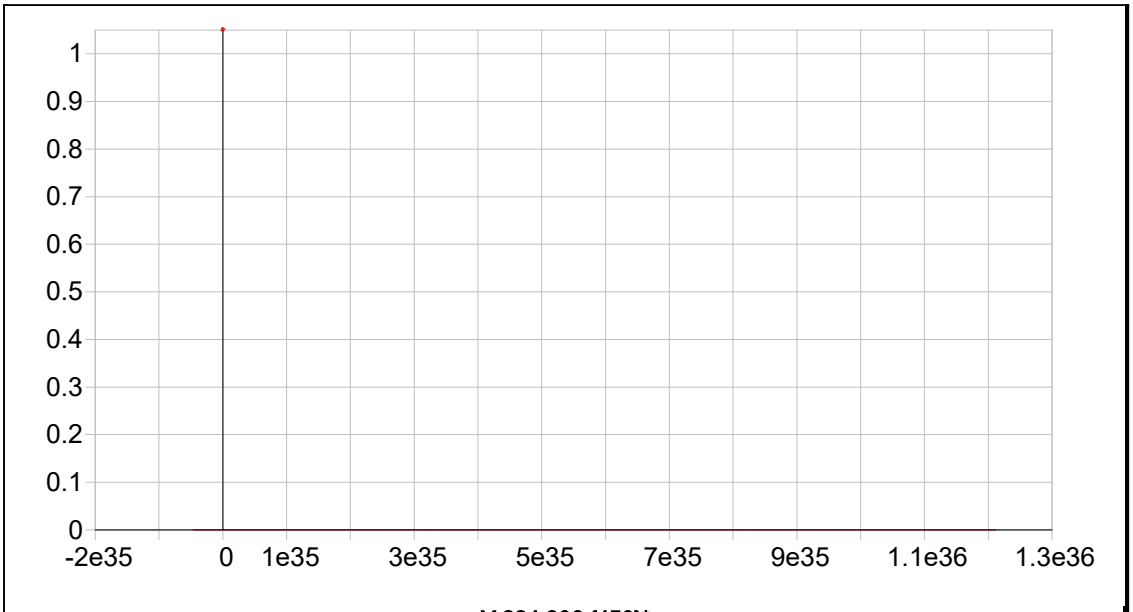
Sr 407.771 { 83}

Date of Fit:	10/7/2025 17:55:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002029	Re-Slope:	1.000000
A1 (Gain):	6.683247	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.001976		
Predicted MDL:	0.000156		
Predicted MQL:	0.000521		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00203	.000	1
S1	.02000	.02080	.001	4.01	.14169	.000	1
S3	2.5000	2.4664	-.034	-1.35	16.501	.056	1
S4	5.0000	4.9322	-.068	-1.36	32.997	.613	1
S5	10.000	10.114	.114	1.14	67.659	.574	1
S2	.80000	.78680	-.013	-1.65	5.2655	.040	1

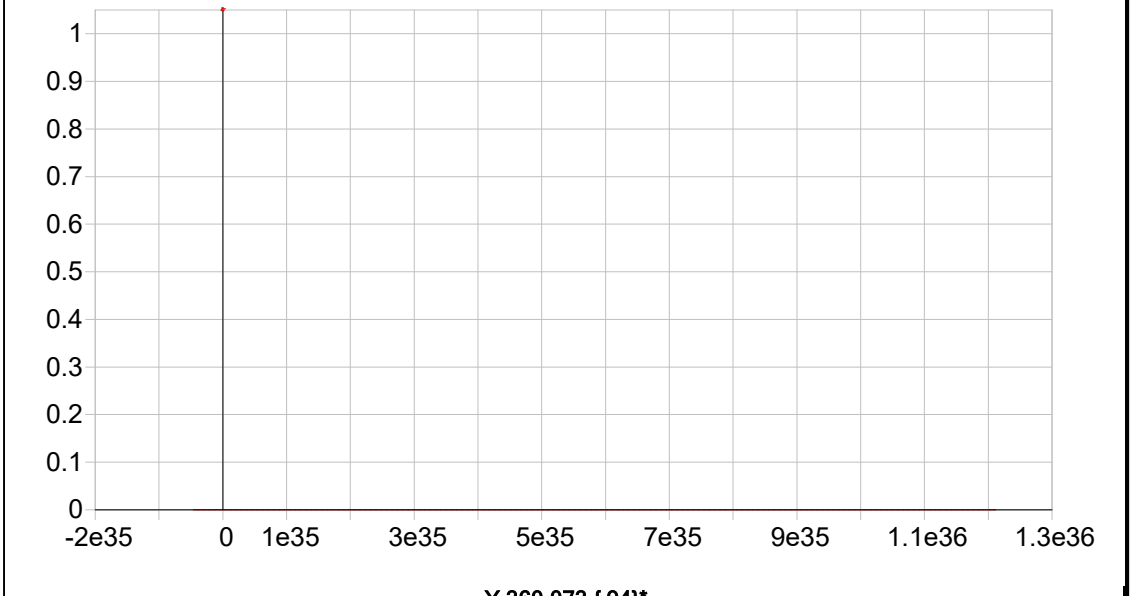
Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



Y 224.306 {450}*

Date of Fit:	10/7/2025 17:55:17	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



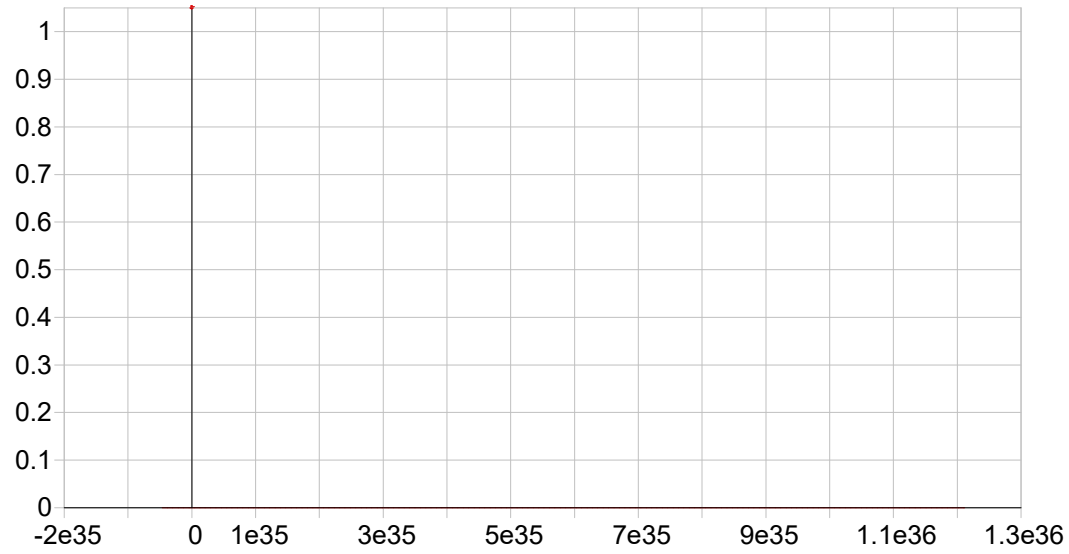
Y 360.073 { 94}*

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	

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

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



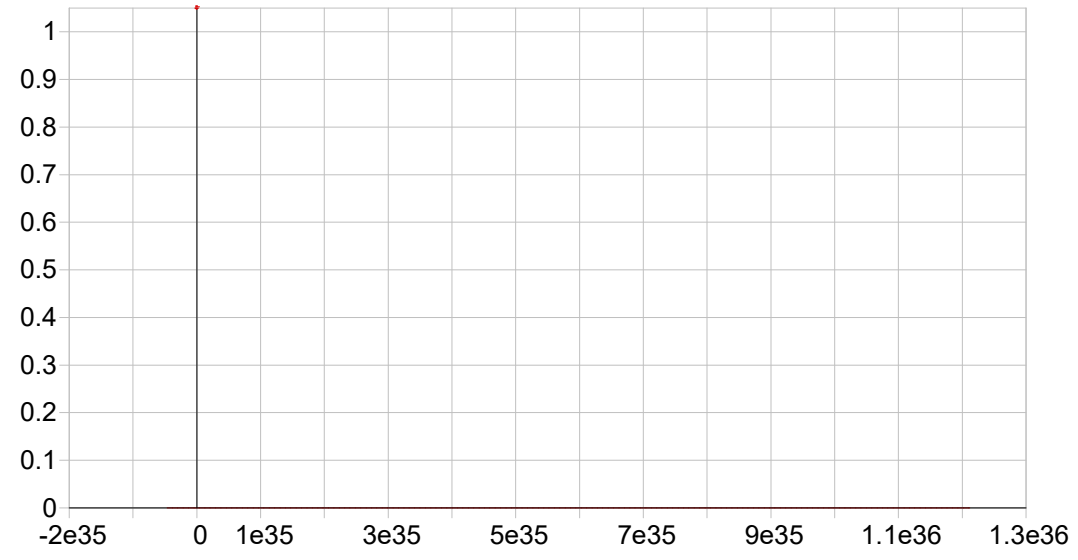
Y 371.030 { 91}*

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		
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

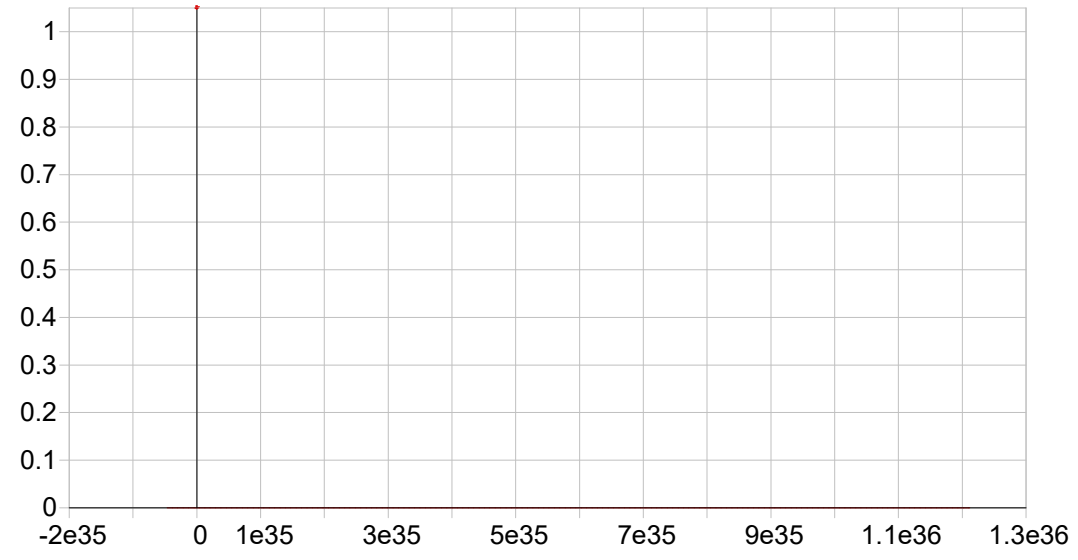
Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447



Y 224.306 {150}*

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				
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



In 230.606 {446}*

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	

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

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**

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S0 Acquired: 10/7/2025 10:29:37 Type: Cal
Method: 6010-200.7 NEW(v255) 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	**.00008**	**.00065**	**.00034**	**.00062**	**.00097**	**.00055**	**.08448**	**-.00381**
Stddev	.00011	.00009	.00021	.00012	.00007	.00148	.00094	.00030
%RSD	133.28	13.499	62.770	20.011	7.5410	269.63	1.1154	7.9060
#1	.00016	.00069	.00027	.00048	.00095	-.00061	.08493	-.00416
#2	-.00004	.00072	.00058	.00073	.00091	.00222	.08512	-.00362
#3	.00013	.00055	.00017	.00065	.00105	.00004	.08340	-.00365

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	**-.00063**	**.00123**	**.00034**	**-.00018**	**.00052**	**.00001**	**.00034**	**.00044**
Stddev	.00005	.00044	.00001	.00009	.00018	.00002	.00025	.00004
%RSD	8.7187	35.881	4.2842	48.004	34.282	120.38	73.600	9.1487
#1	-.00069	.00163	.00035	-.00028	.00067	-.00000	.00033	.00046
#2	-.00061	.00076	.00035	-.00012	.00032	.00001	.00060	.00040
#3	-.00059	.00131	.00032	-.00015	.00056	.00003	.00010	.00048

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	**-.00063**	**-.00079**	**.00227**	**-.00009**	**.00564**	**.00014**	**.00927**	**.00078**
Stddev	.00012	.00010	.00009	.00001	.00065	.00017	.00037	.00007
%RSD	19.010	12.929	4.0102	15.385	11.546	121.58	4.0199	8.3278
#1	-.00072	-.00091	.00217	-.00011	.00497	.00018	.00970	.00080
#2	-.00049	-.00071	.00235	-.00008	.00626	.00028	.00901	.00084
#3	-.00066	-.00076	.00229	-.00010	.00570	-.00005	.00910	.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	**.00351**	**.00168**	**.00010**	**-.00095**	**.00031**	**.00324**	**.00203**
Stddev	.00008	.00082	.00002	.00009	.00003	.00080	.00020
%RSD	2.3993	48.976	20.219	9.2377	8.7044	24.597	9.7328
#1	.00361	.00082	.00008	-.00087	.00028	.00352	.00205
#2	.00348	.00246	.00010	-.00104	.00033	.00234	.00221
#3	.00344	.00178	.00011	-.00095	.00032	.00385	.00182

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S0 Acquired: 10/7/2025 10:29:37 Type: Cal
Method: 6010-200.7 NEW(v255) 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	**7045.8**	**94265.**	**7281.4**	**4894.1**	**8741.8**
Stddev	25.1	1073.	6.2	53.7	33.5
%RSD	.35657	1.1386	.08550	1.0972	.38359
#1	7019.5	93638.	7279.3	4852.4	8714.4
#2	7048.5	93653.	7276.5	4875.2	8731.7
#3	7069.5	95504.	7288.4	4954.7	8779.2

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S1 Acquired: 10/7/2025 10:34:01 Type: Cal
Method: 6010-200.7 NEW(v255) 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	**.00094**	**.00196**	**.00247**	**.00148**	**.00491**	**.00780**	**.23601**	**.06039**
Stddev	.00006	.00009	.00035	.00006	.00018	.00145	.00367	.00047
%RSD	5.9165	4.4086	13.959	4.0904	3.6255	18.602	1.5566	.78628
#1	.00093	.00192	.00285	.00152	.00471	.00657	.23209	.05984
#2	.00100	.00206	.00218	.00141	.00501	.00742	.23655	.06067
#3	.00089	.00190	.00239	.00150	.00502	.00940	.23938	.06067

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	**.00958**	**.10521**	**.00218**	**.02132**	**.01315**	**.00025**	**.00809**	**.02305**
Stddev	.00001	.00107	.00004	.00023	.00016	.00002	.00036	.00034
%RSD	.09419	1.0175	1.8398	1.0941	1.2217	6.2084	4.3922	1.4725
#1	.00958	.10422	.00221	.02119	.01298	.00023	.00849	.02277
#2	.00959	.10635	.00214	.02159	.01321	.00026	.00797	.02295
#3	.00957	.10508	.00219	.02118	.01328	.00024	.00780	.02343

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	**.02040**	**.00105**	**.01360**	**.00402**	**.11503**	**.00611**	**.10673**	**.07296**
Stddev	.00014	.00009	.00038	.00032	.00093	.00011	.00127	.00027
%RSD	.67243	8.4360	2.7753	7.8497	.81216	1.7306	1.1916	.37441
#1	.02045	.00101	.01395	.00397	.11543	.00623	.10527	.07315
#2	.02050	.00115	.01364	.00373	.11570	.00607	.10731	.07307
#3	.02024	.00099	.01320	.00436	.11396	.00603	.10760	.07264

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	**.00859**	**.01181**	**.00084**	**-.00028**	**.00080**	**.02199**	**.14169**
Stddev	.00009	.00047	.00002	.00005	.00009	.00061	.00039
%RSD	1.0366	3.9768	2.5433	18.070	10.897	2.7877	.27242
#1	.00861	.01184	.00085	-.00031	.00089	.02269	.14202
#2	.00866	.01226	.00085	-.00022	.00080	.02170	.14179
#3	.00849	.01133	.00081	-.00031	.00071	.02158	.14127

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S1 Acquired: 10/7/2025 10:34:01 Type: Cal
Method: 6010-200.7 NEW(v255) 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	**7154.6**	**104620.**	**7499.7**	**5412.5**	**8786.7**
Stddev	12.8	881.	79.0	51.2	3.7
%RSD	.17927	.84179	1.0531	.94597	.04196
#1	7143.1	103890.	7589.7	5387.2	8784.1
#2	7168.4	104360.	7467.0	5378.9	8790.9
#3	7152.3	105600.	7442.2	5471.5	8785.1

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S2 Acquired: 10/7/2025 10:38:15 Type: Cal
Method: 6010-200.7 NEW(v255) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03694	.02760	.13980	.03267	.06517	.12665	2.5661	.42815	.65386
Stddev	.00006	.00082	.00035	.00015	.00010	.00370	.0225	.00137	.00106
%RSD	.17076	2.9535	.24929	.47125	.15752	2.9228	.87808	.32032	.16238
#1	.03700	.02683	.14019	.03260	.06526	.13084	2.5896	.42791	.65508
#2	.03687	.02751	.13969	.03256	.06506	.12530	2.5639	.42692	.65332
#3	.03693	.02846	.13952	.03285	.06520	.12382	2.5447	.42963	.65318

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.20698	.03117	.28497	.11876	.00157	.15231	.04369	.20751	.03544
Stddev	.00159	.00013	.00067	.00017	.00004	.00127	.00073	.00036	.00001
%RSD	.76770	.41046	.23343	.13952	2.2448	.83159	1.6792	.17166	.02012
#1	.20875	.03131	.28573	.11872	.00161	.15358	.04405	.20788	.03544
#2	.20566	.03107	.28462	.11861	.00155	.15105	.04285	.20749	.03544
#3	.20654	.03111	.28455	.11894	.00155	.15231	.04417	.20717	.03545

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02340	.04505	.90320	.01155	.82215	.29296	.11589	.20859	.00167
Stddev	.00031	.00022	.00561	.00004	.00383	.00028	.00027	.00131	.00006
%RSD	1.3192	.49376	.62159	.38728	.46608	.09450	.23718	.62913	3.5918
#1	.02375	.04529	.90874	.01158	.82005	.29265	.11619	.20976	.00173
#2	.02323	.04485	.89752	.01158	.81983	.29305	.11586	.20885	.00163
#3	.02321	.04500	.90333	.01150	.82657	.29318	.11564	.20717	.00163

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02705	.01862	.68582	5.2655
Stddev	.00011	.00010	.00133	.0396
%RSD	.39108	.55536	.19449	.75181
#1	.02704	.01852	.68683	5.3066
#2	.02716	.01862	.68631	5.2625
#3	.02695	.01873	.68431	5.2276

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S2 Acquired: 10/7/2025 10:38:15 Type: Cal
Method: 6010-200.7 NEW(v255) 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	7069.6	103410.	7027.7	5370.3	8536.5
Stddev	6.7	510.	24.7	28.5	18.2
%RSD	.09504	.49359	.35121	.53069	.21352
#1	7061.8	102820.	7025.9	5343.5	8518.1
#2	7072.9	103770.	7053.2	5400.2	8537.0
#3	7073.9	103630.	7003.9	5367.1	8554.5

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S3 Acquired: 10/7/2025 10:42:17 Type: Cal
Method: 6010-200.7 NEW(v255) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11407**	**.08039**	**.43826**	**.09902**	**.19962**	**.38817**	**7.9132**	**1.3634**	**2.0954**
Stddev	.00191	.00531	.00568	.00152	.00276	.00111	.0407	.0093	.0284
%RSD	1.6704	6.6051	1.2961	1.5360	1.3831	.28545	.51445	.67972	1.3556
#1	.11551	.08625	.44212	.10041	.20161	.38932	7.9408	1.3536	2.1155
#2	.11191	.07905	.43174	.09739	.19647	.38711	7.9324	1.3721	2.0629
#3	.11480	.07588	.44093	.09926	.20078	.38807	7.8665	1.3645	2.1078

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.64407**	**.09637**	**.90037**	**.36471**	**.00500**	**.47441**	**.13532**	**.65548**	**.11401**
Stddev	.00159	.00016	.01309	.00505	.00004	.00182	.00053	.00926	.00001
%RSD	.24692	.16749	1.4540	1.3856	.80561	.38305	.39248	1.4129	.01177
#1	.64453	.09627	.90950	.36812	.00505	.47563	.13566	.66156	.11402
#2	.64230	.09629	.88537	.35890	.00497	.47528	.13471	.64482	.11402
#3	.64538	.09656	.90625	.36710	.00498	.47232	.13559	.66005	.11400

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07073**	**.14291**	**2.8550**	**.03732**	**2.5920**	**.90393**	**.36088**	**.65363**	**.00515**
Stddev	.00075	.00035	.0075	.00035	.0177	.01296	.00555	.00336	.00002
%RSD	1.0571	.24651	.26117	.94349	.68465	1.4333	1.5372	.51425	.47823
#1	.07158	.14272	2.8464	.03770	2.5745	.91458	.36503	.65344	.00517
#2	.07044	.14332	2.8599	.03726	2.6100	.88950	.35458	.65708	.00513
#3	.07017	.14269	2.8586	.03701	2.5915	.90770	.36303	.65036	.00513

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08890**	**.05875**	**2.1263**	**16.501**
Stddev	.00193	.00136	.0052	.056
%RSD	2.1728	2.3171	.24601	.34100
#1	.09068	.06023	2.1283	16.528
#2	.08685	.05754	2.1303	16.540
#3	.08917	.05849	2.1204	16.437

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S3 Acquired: 10/7/2025 10:42:17 Type: Cal
Method: 6010-200.7 NEW(v255) 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	7034.2	99029.	6892.6	5147.3	8213.6
Stddev	80.0	540.	35.0	7.9	97.0
%RSD	1.1368	.54493	.50708	.15337	1.1816
#1	6987.1	98974.	6932.2	5149.2	8155.1
#2	7126.5	99594.	6879.4	5154.1	8325.7
#3	6989.0	98519.	6866.1	5138.6	8160.2

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S4 Acquired: 10/7/2025 10:46:14 Type: Cal
Method: 6010-200.7 NEW(v255) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.23106	.16978	.88929	.19904	.40078	.77508	15.825	2.5864	4.2815
Stddev	.00065	.01052	.00157	.00087	.00020	.00206	.025	.0069	.0150
%RSD	.28063	6.1934	.17599	.43688	.04965	.26630	.15724	.26675	.35075
#1	.23031	.15859	.88749	.19805	.40076	.77338	15.799	2.5792	4.2681
#2	.23144	.17132	.89028	.19966	.40098	.77738	15.848	2.5870	4.2787
#3	.23144	.17945	.89011	.19942	.40059	.77449	15.830	2.5929	4.2978

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2737	.18876	1.8350	.72080	.00991	.93361	.26752	1.3319	.22199
Stddev	.0029	.00060	.0053	.00090	.00006	.00214	.00111	.0038	.00032
%RSD	.23057	.31809	.28915	.12439	.57892	.22926	.41560	.28380	.14269
#1	1.2734	.18888	1.8300	.72073	.00997	.93133	.26874	1.3282	.22224
#2	1.2768	.18811	1.8346	.71994	.00988	.93557	.26727	1.3318	.22163
#3	1.2710	.18929	1.8405	.72173	.00986	.93392	.26655	1.3358	.22210

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14506	.28450	5.5297	.07578	4.9372	1.8059	.73086	1.2980	.01042
Stddev	.00018	.00073	.0126	.00018	.0214	.0028	.00312	.0011	.00007
%RSD	.12085	.25506	.22794	.24294	.43413	.15330	.42690	.08347	.70277
#1	.14505	.28509	5.5332	.07599	4.9196	1.8027	.72726	1.2967	.01050
#2	.14525	.28471	5.5158	.07571	4.9611	1.8069	.73262	1.2985	.01035
#3	.14490	.28369	5.5402	.07564	4.9308	1.8080	.73271	1.2987	.01041

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.18814	.12337	4.2109	32.997
Stddev	.00194	.00186	.0088	.613
%RSD	1.0307	1.5090	.20947	1.8588
#1	.18590	.12126	4.2044	33.436
#2	.18925	.12478	4.2209	33.259
#3	.18928	.12407	4.2073	32.296

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S4 Acquired: 10/7/2025 10:46:14 Type: Cal
Method: 6010-200.7 NEW(v255) 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	6884.3	101110.	7112.5	5206.3	7840.1
Stddev	10.7	333.	17.4	31.5	9.5
%RSD	.15486	.32927	.24474	.60436	.12179
#1	6872.2	100720.	7106.4	5204.5	7849.4
#2	6892.2	101280.	7099.0	5238.6	7840.7
#3	6888.5	101310.	7132.2	5175.7	7830.3

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S5 Acquired: 10/7/2025 10:50:17 Type: Cal
Method: 6010-200.7 NEW(v255) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.47281	.33964	1.8713	.40545	.82291	1.6101	32.219	5.0660	8.9455
Stddev	.00186	.01770	.0022	.00230	.00087	.0029	.571	.0124	.0166
%RSD	.39286	5.2128	.11922	.56845	.10574	.18162	1.7707	.24476	.18607
#1	.47322	.34186	1.8709	.40590	.82313	1.6132	31.659	5.0530	8.9476
#2	.47078	.32094	1.8693	.40295	.82195	1.6096	32.198	5.0777	8.9279
#3	.47442	.35614	1.8737	.40749	.82365	1.6074	32.800	5.0672	8.9609

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.5947	.38256	3.8558	1.4619	.02064	1.8761	.55453	2.7915	.45676
Stddev	.0025	.00102	.0052	.0021	.00011	.0082	.00032	.0038	.00030
%RSD	.09574	.26791	.13399	.14194	.55397	.43500	.05691	.13473	.06609
#1	2.5920	.38373	3.8574	1.4618	.02056	1.8669	.55470	2.7935	.45693
#2	2.5952	.38185	3.8500	1.4599	.02059	1.8789	.55471	2.7872	.45641
#3	2.5969	.38210	3.8599	1.4640	.02077	1.8825	.55416	2.7940	.45694

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31542	.58335	11.172	.16392	9.7173	3.6857	1.5210	2.6472	.02274
Stddev	.00158	.00184	.013	.00045	.0132	.0100	.0071	.0055	.00013
%RSD	.50213	.31553	.11271	.27273	.13543	.27015	.46584	.20872	.56782
#1	.31544	.58127	11.183	.16392	9.7081	3.6861	1.5245	2.6410	.02276
#2	.31383	.58402	11.158	.16347	9.7324	3.6756	1.5128	2.6489	.02260
#3	.31700	.58476	11.176	.16436	9.7115	3.6955	1.5256	2.6517	.02286

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.40070	.26359	8.7441	67.659
Stddev	.00447	.00344	.0114	.574
%RSD	1.1168	1.3047	.13014	.84803
#1	.40236	.26463	8.7326	67.101
#2	.39563	.25975	8.7442	67.629
#3	.40410	.26638	8.7554	68.248

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: S5 Acquired: 10/7/2025 10:50:17 Type: Cal
Method: 6010-200.7 NEW(v255) 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	6613.7	97179.	7122.8	5005.4	7292.9
Stddev	3.5	215.	9.4	5.3	6.1
%RSD	.05339	.22126	.13166	.10614	.08299
#1	6609.7	97107.	7133.5	5004.2	7286.5
#2	6615.5	97421.	7115.9	5000.7	7298.5
#3	6616.0	97009.	7119.0	5011.2	7293.8

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICV01 Acquired: 10/7/2025 10:54:28 Type: Unk
Method: 6010-200.7 NEW(v255) 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	**3.996329**	**3.718697**	**3.886826**	**4.004673**	**4.107591**	**7.921579**
Stddev	.007323	.041959	.001090	.013394	.004702	.044530
%RSD	.1832546	1.128324	.0280368	.3344528	.1144722	.5621410
#1	3.991795	3.698514	3.885856	3.990945	4.102309	7.870292
#2	3.992413	3.690644	3.886617	4.005369	4.109139	7.950420
#3	4.004778	3.766933	3.888005	4.017705	4.111323	7.944024

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.939532**	**.2007062**	**1.979024**	**19.87228**	**.8172823**	**1.978829**
Stddev	.024215	.0009092	.002626	.02308	.0014508	.001185
%RSD	.3049931	.4530076	.1326943	.1161287	.1775197	.0598980
#1	7.958548	.1997546	1.980384	19.85286	.8160074	1.980026
#2	7.947776	.2007978	1.980692	19.86620	.8188610	1.978806
#3	7.912271	.2015661	1.975997	19.89779	.8169786	1.977656

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.017883**	**4.127145**	**1.991399**	**19.91460**	**1.980016**	**1.030977**
Stddev	.001570	.023371	.006398	.16521	.003030	.002188
%RSD	.1542799	.5662666	.3212653	.8295714	.1530326	.2122604
#1	1.016074	4.140079	1.997577	19.72465	1.979557	1.033412
#2	1.018892	4.141190	1.991819	20.02480	1.983249	1.030345
#3	1.018683	4.100167	1.984802	19.99435	1.977242	1.029175

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.08167**	**1.983381**	**2.021294**	**20.19075**	**3.983533**	**4.124801**
Stddev	.19728	.003120	.001755	.11161	.016516	.002371
%RSD	.9823813	.1573185	.0868118	.5527553	.4146193	.0574875
#1	20.28537	1.979965	2.023320	20.24114	3.966994	4.122270
#2	20.06811	1.984096	2.020301	20.26827	3.983578	4.126971
#3	19.89151	1.986081	2.020260	20.06283	4.000026	4.125162

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICV01 Acquired: 10/7/2025 10:54:28 Type: Unk
Method: 6010-200.7 NEW(v255) 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	4.055541	4.084250	3.874558	F .0020422	F .0259124	F -.003842
Stddev	.002938	.012379	.029097	.0018727	.0007465	.001957
%RSD	.0724506	.3030844	.7509789	91.69588	2.880936	50.94445
#1	4.058904	4.075615	3.884877	.0039742	.0266763	-.006099
#2	4.053469	4.098432	3.897089	.0019174	.0251846	-.002618
#3	4.054251	4.078703	3.841708	.0002351	.0258763	-.002809

Elem	Sr4077
Units	ppm
Avg	F -.003402
Stddev	.000042
%RSD	1.227084
#1	-.003380
#2	-.003450
#3	-.003377

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6898.625	98052.91	7296.780	5100.881	7962.160
Stddev	15.271	320.80	55.096	9.177	19.914
%RSD	.2213628	.3271751	.7550700	.1799032	.2501031
#1	6901.588	98351.91	7359.713	5111.473	7962.056
#2	6882.090	97714.03	7273.389	5095.840	7942.298
#3	6912.198	98092.78	7257.240	5095.329	7982.125

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LLICV01 Acquired: 10/7/2025 12:01:49 Type: Unk
Method: 6010-200.7 NEW(v260) 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	**.0183588**	**.0429691**	**.0111373**	**.0235648**	**.0493660**	**.0921808**	**.0956903**
Stddev	.0011013	.0014870	.0015608	.0038311	.0004409	.0039500	.0005121
%RSD	5.998686	3.460714	14.01422	16.25787	.8930889	4.285042	.5351274
#1	.0185790	.0423637	.0124148	.0195137	.0496601	.0963491	.0959480
#2	.0171641	.0418803	.0093976	.0271296	.0488591	.0917000	.0951006
#3	.0193334	.0446634	.0115995	.0240510	.0495788	.0884932	.0960225

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062000**	**.0058473**	**2.024792**	**.0096547**	**.0289806**	**.0219416**	**.1190610**
Stddev	.0000763	.0000688	.009814	.0001429	.0002444	.0002163	.0024042
%RSD	1.230382	1.176043	.4846674	1.480396	.8432340	.9855899	2.019311
#1	.0062810	.0059245	2.032097	.0094934	.0292413	.0221696	.1200665
#2	.0061894	.0058246	2.028642	.0097657	.0289437	.0217394	.1207991
#3	.0061295	.0057927	2.013637	.0097050	.0287568	.0219157	.1163172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207666**	**2.070567**	**.0395552**	**.0098777**	**1.890124**	**.0373499**	**.0368537**
Stddev	.0006926	.028158	.0002229	.0001875	.030415	.0025127	.0001884
%RSD	3.335142	1.359932	.5636114	1.897944	1.609163	6.727459	.5111115
#1	.0208059	2.084677	.0393283	.0096615	1.892632	.0400268	.0370391
#2	.0214387	2.088881	.0397739	.0099770	1.919208	.0369809	.0368596
#3	.0200552	2.038143	.0395634	.0099947	1.858533	.0350422	.0366625

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.905904**	**.0955171**	**.2029246**	**.0360915**	**.0389602**	**.3522299**	**.0177937**
Stddev	.010306	.0010522	.0005823	.0005799	.0007479	.0189222	.0003485
%RSD	.5407607	1.101582	.2869539	1.606793	1.919570	5.372117	1.958560
#1	1.916704	.0957864	.2030838	.0354323	.0394713	.3701778	.0176029
#2	1.904834	.0964085	.2022792	.0365230	.0381018	.3324645	.0181959
#3	1.896175	.0943565	.2034107	.0363193	.0393074	.3540474	.0175823

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LLICV01 Acquired: 10/7/2025 12:01:49 Type: Unk
Method: 6010-200.7 NEW(v260) 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	.0206437	.0205401	.0207067
Stddev	.0020788	.0004909	.0001567
%RSD	10.06992	2.390199	.7566005
#1	.0182798	.0210893	.0208876
#2	.0221866	.0201439	.0206129
#3	.0214649	.0203871	.0206197

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7019.862	102237.3	7476.022	5265.975	8645.901
Stddev	7.406	500.6	11.996	16.450	9.840
%RSD	.1054990	.4896235	.1604642	.3123793	.1138082
#1	7028.168	102663.0	7480.733	5256.501	8652.093
#2	7013.949	101685.8	7462.386	5256.455	8634.555
#3	7017.469	102363.2	7484.948	5284.970	8651.056

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICB01 Acquired: 10/7/2025 12:06:03 Type: Unk
Method: 6010-200.7 NEW(v260) 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	-.001603	.0052354	-.000867	.0030406	-.002189	.0046004	-.003047
Stddev	.002007	.0039305	.000177	.0024554	.002996	.0100304	.001704
%RSD	125.2017	75.07462	20.41929	80.75253	136.8638	218.0329	55.91950
#1	-.002220	.0040651	-.001066	.0058232	.001178	-.005090	-.002376
#2	.000640	.0096181	-.000810	.0021201	-.004560	.014940	-.001781
#3	-.003230	.0020230	-.000726	.0011785	-.003185	.003951	-.004985

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000610	.0000757	-.009762	-.000261	-.000065	.0000449	.0071180
Stddev	.0000357	.0000688	.002573	.000203	.000242	.0002805	.0067972
%RSD	58.51210	90.93437	26.35770	77.70778	370.3411	624.9107	95.49316
#1	.0000254	.0001476	-.008215	-.000290	.000211	.0003439	.0000329
#2	.0000968	.0000689	-.012732	-.000448	-.000171	-.000213	.0077359
#3	.0000609	.0000105	-.008339	-.000045	-.000236	.000003	.0135851

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000347	-.032215	-.000061	.0001285	-.130424	-.001740	-.000772
Stddev	.000379	.034078	.000359	.0007470	.017856	.000238	.000180
%RSD	109.0452	105.7826	588.9145	581.4408	13.69075	13.65851	23.34560
#1	.000032	-.066879	-.000200	.0009711	-.109806	-.001723	-.000929
#2	-.000349	-.031010	-.000329	-.000453	-.140801	-.001986	-.000575
#3	-.000725	.001244	.000346	-.000133	-.140666	-.001512	-.000812

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.145363	-.004161	-.000253	-.002506	.0004256	-.020166	-.001376
Stddev	.006485	.000461	.000238	.000112	.0014068	.006857	.000992
%RSD	4.461261	11.09093	94.29271	4.462667	330.5135	34.00169	72.06718
#1	-.138070	-.003864	-.000239	-.002473	-.000896	-.012658	-.000933
#2	-.147536	-.003925	-.000498	-.002415	.000269	-.021743	-.002513
#3	-.150481	-.004692	-.000022	-.002631	.001904	-.026097	-.000683

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICB01 Acquired: 10/7/2025 12:06:03 Type: Unk
Method: 6010-200.7 NEW(v260) 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	-.000309	.0012009	.0000408
Stddev	.001831	.0014090	.0000698
%RSD	591.6979	117.3292	170.9870
#1	.000671	.0024017	.0000643
#2	-.002422	.0015513	-.000038
#3	.000822	-.000350	.000096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6889.822	98438.69	7386.987	5071.210	8673.413
Stddev	21.792	319.74	25.780	23.283	21.879
%RSD	.3162971	.3248107	.3489946	.4591147	.2522511
#1	6913.631	98256.59	7369.666	5045.246	8698.113
#2	6884.973	98251.60	7416.614	5090.232	8665.660
#3	6870.863	98807.88	7374.680	5078.152	8656.466

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CRI01 Acquired: 10/7/2025 12:10:22 Type: Unk
Method: 6010-200.7 NEW(v260) 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	**.0176845**	**.0450447**	**.0120733**	**.0225732**	**.0499051**	**.0900160**	**.0974418**
Stddev	.0010509	.0036774	.0004390	.0007257	.0018593	.0030554	.0029877
%RSD	5.942518	8.163826	3.635929	3.214864	3.725637	3.394342	3.066141
#1	.0187653	.0460797	.0116644	.0229473	.0484602	.0889662	.0983589
#2	.0166663	.0409608	.0120183	.0217367	.0520027	.0876238	.0998635
#3	.0176217	.0480937	.0125372	.0230354	.0492524	.0934579	.0941030

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062701**	**.0059620**	**2.040760**	**.0098995**	**.0295689**	**.0221625**	**.1226762**
Stddev	.0000265	.0000728	.013145	.0003299	.0002711	.0001490	.0019870
%RSD	.4229737	1.220742	.6441009	3.332653	.9167399	.6722839	1.619736
#1	.0062834	.0059723	2.048479	.0095573	.0298811	.0220395	.1226724
#2	.0062872	.0060291	2.048219	.0099255	.0293929	.0223282	.1206911
#3	.0062395	.0058847	2.025583	.0102156	.0294328	.0221199	.1246652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0209314**	**2.090133**	**.0400640**	**.0098549**	**1.908119**	**.0376497**	**.0379410**
Stddev	.0001592	.054303	.0002469	.0003589	.009770	.0053665	.0001817
%RSD	.7606019	2.598068	.6162973	3.641674	.5120026	14.25383	.4789217
#1	.0211089	2.027781	.0401690	.0101272	1.919131	.0380106	.0381126
#2	.0208012	2.127053	.0397819	.0099894	1.904735	.0428267	.0379599
#3	.0208842	2.115565	.0402410	.0094483	1.900491	.0321119	.0377507

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.875646**	**.0959093**	**.2046311**	**.0364408**	**.0377178**	**.3716083**	**.0180616**
Stddev	.010345	.0002253	.0006525	.0009479	.0023294	.0117046	.0018409
%RSD	.5515211	.2348943	.3188779	2.601248	6.175738	3.149716	10.19238
#1	1.870377	.0959200	.2046210	.0357637	.0403084	.3809887	.0186676
#2	1.887564	.0961289	.2039837	.0360346	.0357961	.3584917	.0159941
#3	1.868996	.0956788	.2052886	.0375242	.0370487	.3753446	.0195231

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CRI01 Acquired: 10/7/2025 12:10:22 Type: Unk
Method: 6010-200.7 NEW(v260) 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	.0205396	.0207950	.0205675
Stddev	.0033115	.0004015	.0001186
%RSD	16.12237	1.930966	.5764620
#1	.0240980	.0211720	.0206691
#2	.0199722	.0203727	.0204372
#3	.0175484	.0208403	.0205961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6990.556	98764.53	7388.662	5063.064	8562.734
Stddev	3.661	452.93	25.019	28.379	10.827
%RSD	.0523691	.4585929	.3386191	.5605068	.1264448
#1	6994.475	98241.55	7414.385	5031.656	8568.821
#2	6987.223	99028.75	7364.411	5070.675	8550.233
#3	6989.971	99023.30	7387.190	5086.861	8569.147

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSA01 Acquired: 10/7/2025 12:14:35 Type: Unk
Method: 6010-200.7 NEW(v260) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035308	.0336042	-.001110	.0080584	-.005049	242.7856	-.008300
Stddev	.0027570	.0035793	.000878	.0038698	.001228	.4113	.001884
%RSD	78.08279	10.65147	79.04583	48.02132	24.32195	.1694254	22.69949
#1	.0004482	.0362320	-.001632	.0064958	-.004217	243.1793	-.006607
#2	.0043839	.0295275	-.001603	.0124652	-.006460	242.3586	-.007963
#3	.0057605	.0350530	-.000097	.0052143	-.004472	242.8190	-.010330

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017419	.0023979	233.9664	.0472226	.0010649	.0138011	94.37944
Stddev	.0000588	.0000323	.2207	.0002171	.0002516	.0002029	.50798
%RSD	3.375406	1.348562	.0943207	.4597507	23.62673	1.469896	.5382277
#1	.0016890	.0023606	234.2212	.0474017	.0010454	.0137955	94.83306
#2	.0017317	.0024147	233.8362	.0472848	.0008236	.0136011	94.47469
#3	.0018052	.0024184	233.8418	.0469811	.0013256	.0140067	93.83059

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067147	246.4209	.0025993	-.000342	-.109003	-.000967	-.000919
Stddev	.0003726	.2921	.0002102	.000318	.002162	.004101	.000094
%RSD	5.549288	.1185314	8.088607	93.01228	1.983463	424.0997	10.24782
#1	.0071447	246.5839	.0024387	-.000625	-.110712	-.003141	-.001014
#2	.0064894	246.5950	.0028373	.000002	-.109725	-.003522	-.000920
#3	.0065098	246.0836	.0025220	-.000403	-.106573	.003763	-.000825

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.102475	.0339780	-.000677	-.003765	-.005341	-.003799	.0031530
Stddev	.019794	.0021630	.000329	.000084	.001404	.009401	.0005152
%RSD	19.31638	6.365911	48.57336	2.239150	26.28926	247.4800	16.34165
#1	-.093044	.0356584	-.000531	-.003683	-.005218	-.012954	.0025593
#2	-.089159	.0347381	-.001054	-.003760	-.004003	.005831	.0034160
#3	-.125221	.0315375	-.000447	-.003851	-.006803	-.004273	.0034837

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSA01 Acquired: 10/7/2025 12:14:35 Type: Unk
Method: 6010-200.7 NEW(v260) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005701	F -.030187	.0066149
Stddev	.002036	.002019	.0003652
%RSD	35.71342	6.687520	5.520421
#1	-.007275	-.031456	.0065804
#2	-.006427	-.031246	.0062683
#3	-.003402	-.027859	.0069961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6533.141	93839.43	6720.919	4870.126	7104.918
Stddev	3.818	278.90	6.866	9.254	7.764
%RSD	.0584456	.2972053	.1021655	.1900082	.1092821
#1	6537.142	93561.09	6724.325	4860.122	7111.827
#2	6532.745	93838.30	6725.416	4878.379	7106.412
#3	6529.537	94118.88	6713.015	4871.876	7096.515

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSAB01 Acquired: 10/7/2025 12:37:25 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**.1067287**	**.1402397**	**.0504293**	**.0601478**	**.6036506**	**247.2054**
Stddev	.0048596	.0056609	.0014256	.0051744	.0026673	.5001
%RSD	4.553198	4.036568	2.826992	8.602799	.4418585	.2022845
#1	.1119246	.1340602	.0520728	.0548900	.6007038	247.4599
#2	.1059658	.1414841	.0495276	.0652346	.6058998	247.5271
#3	.1022957	.1451749	.0496873	.0603188	.6043481	246.6293

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4770638**	**.4956219**	**.9898848**	**231.4949**	**.5400244**	**.4925631**
Stddev	.0043751	.0031757	.0015154	.7179	.0008949	.0010038
%RSD	.9170820	.6407511	.1530841	.3100989	.1657088	.2038008
#1	.4814339	.4992373	.9882115	232.2480	.5406399	.4914220
#2	.4770736	.4943446	.9911646	231.4182	.5404355	.4933099
#3	.4726838	.4932836	.9902784	230.8184	.5389979	.4929575

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4891634**	**97.06716**	**.4774837**	**246.4082**	**.9824182**	**.2045982**
Stddev	.0008868	.26097	.0029382	.6477	.0016157	.0013568
%RSD	.1812864	.2688534	.6153489	.2628748	.1644623	.6631313
#1	.4897095	97.13278	.4808525	247.0627	.9806772	.2060058
#2	.4896406	97.28906	.4761479	246.3943	.9838694	.2032988
#3	.4881402	96.77965	.4754507	245.7675	.9827080	.2044900

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.118958**	**.4752248**	**1.018254**	**-.317096**	**.9965802**	**1.004333**
Stddev	.001596	.0030051	.003160	.015688	.0060080	.002500
%RSD	1.342048	.6323492	.3103580	4.947517	.6028633	.2488773
#1	-.119197	.4763145	1.020461	-.313280	1.003327	1.007219
#2	-.117255	.4775329	1.019667	-.303668	.994603	1.002863
#3	-.120421	.4718269	1.014634	-.334340	.991810	1.002916

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSAB01 Acquired: 10/7/2025 12:37:25 Type: Unk
Method: 6010-200.7 NEW(v261) 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	1.020715	.9745780	1.007185	F .0059426	F .0041851	F -.028702
Stddev	.003473	.0047850	.004372	.0012296	.0026466	.001871
%RSD	.3402762	.4909852	.4341236	20.69107	63.23849	6.518001
#1	1.024131	.9792835	1.002196	.0073325	.0066296	-.030792
#2	1.020825	.9747332	1.010348	.0054989	.0045511	-.027185
#3	1.017187	.9697172	1.009012	.0049965	.0013746	-.028128

Elem	Sr4077
Units	ppm
Avg	F .0046403
Stddev	.0005865
%RSD	12.64013
#1	.0053157
#2	.0042585
#3	.0043468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6428.574	94125.56	7271.587	4862.268	6984.660
Stddev	7.678	282.96	35.971	15.609	6.988
%RSD	.1194346	.3006236	.4946780	.3210290	.1000504
#1	6421.816	94353.62	7233.989	4853.728	6983.445
#2	6426.983	93808.90	7275.099	4852.793	6978.359
#3	6436.922	94214.16	7305.673	4880.284	6992.176

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSA01DLX20 Acquired: 10/7/2025 12:41:27 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**-.002396**	**.0091994**	**-.000075**	**-.000420**	**-.001452**	**12.17224**	**-.003861**
Stddev	.001360	.0003173	.001410	.001863	.001884	.06334	.001853
%RSD	56.74898	3.448864	1868.319	443.2654	129.7564	.5203443	47.98221
#1	-.003958	.0088337	-.001422	.001542	-.002152	12.10516	-.005867
#2	-.001475	.0093636	-.000196	-.000637	-.002885	12.18053	-.002215
#3	-.001756	.0094009	.001391	-.002166	.000682	12.23102	-.003501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002099**	**.0001765**	**11.93469**	**.0019202**	**.0001876**	**.0009438**	**4.989918**
Stddev	.0000276	.0000792	.02430	.0001945	.0001647	.0002140	.044979
%RSD	13.15789	44.86971	.2035852	10.13156	87.80779	22.67293	.9014036
#1	.0002085	.0002286	11.91735	.0019217	.0002221	.0010984	4.944928
#2	.0002381	.0002156	11.96246	.0021139	.0003322	.0010335	4.989939
#3	.0001830	.0000854	11.92427	.0017248	.0000083	.0006996	5.034886

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000233**	**12.43632**	**.0004596**	**-.000110**	**-.194599**	**-.000396**	**-.000129**
Stddev	.001009	.04525	.0001408	.000128	.003881	.002684	.000250
%RSD	432.4293	.3638837	30.62300	116.5166	1.994206	676.9299	193.5542
#1	-.001261	12.40916	.0004630	-.000095	-.197679	-.001262	-.000077
#2	.000756	12.48856	.0003172	.000010	-.190240	-.002541	.000090
#3	-.000195	12.41123	.0005987	-.000244	-.195876	.002613	-.000402

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.306582**	**-.001512**	**-.000225**	**-.002758**	**-.001286**	**-.006430**	**-.001667**
Stddev	.015810	.000787	.000120	.000249	.000299	.010769	.000723
%RSD	5.156905	52.01195	53.42860	9.036936	23.25834	167.4860	43.35897
#1	-.294359	-.000660	-.000360	-.002855	-.001568	.003614	-.001965
#2	-.300950	-.002210	-.000183	-.002475	-.000973	-.017802	-.000843
#3	-.324437	-.001666	-.000131	-.002944	-.001317	-.005102	-.002193

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSA01DLX20 Acquired: 10/7/2025 12:41:27 Type: Unk
Method: 6010-200.7 NEW(v261) 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	-.001615	-.001269	.0001803
Stddev	.000140	.000437	.0000969
%RSD	8.642417	34.44171	53.77194
#1	-.001728	-.001656	.0001307
#2	-.001459	-.001357	.0002920
#3	-.001659	-.000795	.0001181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6916.884	98779.98	7472.535	5085.869	8341.220
Stddev	11.384	505.89	5.007	22.125	14.769
%RSD	.1645887	.5121333	.0670064	.4350349	.1770577
#1	6911.166	99205.83	7478.314	5110.339	8345.586
#2	6929.994	98913.33	7469.483	5079.990	8353.313
#3	6909.492	98220.78	7469.809	5067.276	8324.760

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSAB01DLX20 Acquired: 10/7/2025 12:45:44 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**.0017597**	**.0105788**	**.0008724**	**.0081401**	**.0291544**	**11.93375**	**.0228189**
Stddev	.0013017	.0010409	.0007057	.0009294	.0011778	.01402	.0003833
%RSD	73.97062	9.839676	80.88383	11.41696	4.040000	.1175118	1.679574
#1	.0003358	.0099314	.0011880	.0075745	.0291776	11.94744	.0223829
#2	.0020550	.0100254	.0013652	.0092127	.0279651	11.93440	.0231026
#3	.0028884	.0117795	.0000641	.0076331	.0303204	11.91941	.0229711

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0249408**	**.0476618**	**11.59804**	**.0281876**	**.0236904**	**.0260631**	**4.672308**
Stddev	.0001787	.0000886	.03348	.0003242	.0000856	.0000434	.038174
%RSD	.7163984	.1859733	.2886272	1.150046	.3612634	.1666723	.8170234
#1	.0247385	.0477491	11.59323	.0278504	.0236013	.0261050	4.677879
#2	.0250770	.0475718	11.63365	.0282155	.0236980	.0260183	4.707390
#3	.0250069	.0476645	11.56722	.0284969	.0237719	.0260660	4.631655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255913**	**12.11788**	**.0477570**	**.0094480**	**-.372983**	**.0227564**	**.0523135**
Stddev	.0005451	.02690	.0004465	.0005762	.014131	.0027199	.0002451
%RSD	2.129944	.2219497	.9350502	6.098687	3.788550	11.95222	.4685576
#1	.0262204	12.08740	.0473538	.0087827	-.361419	.0246606	.0525673
#2	.0252956	12.12797	.0476803	.0097754	-.388734	.0239672	.0520781
#3	.0252580	12.13827	.0482369	.0097860	-.368798	.0196414	.0522951

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.434809**	**.0609886**	**.0762702**	**.0476366**	**.0675916**	**.0712406**	**-.004167**
Stddev	.075798	.0003581	.0001683	.0004312	.0007797	.0110506	.000305
%RSD	17.43252	.5870764	.2206171	.9052995	1.153562	15.51165	7.323381
#1	-.497740	.0606106	.0761836	.0480961	.0676058	.0839683	-.004458
#2	-.456024	.0613226	.0761628	.0472407	.0668049	.0656636	-.004192
#3	-.350664	.0610327	.0764641	.0475730	.0683641	.0640899	-.003850

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: ICSAB01DLX20 Acquired: 10/7/2025 12:45:44 Type: Unk
Method: 6010-200.7 NEW(v261) 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	-.003490	-.004223	.0000750
Stddev	.004454	.002081	.0000839
%RSD	127.6282	49.27825	111.9357
#1	-.007132	-.002284	-.000020
#2	-.004812	-.006421	.000107
#3	.001476	-.003963	.000138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7046.024	102243.5	7461.141	5233.618	8609.458
Stddev	6.322	260.9	29.502	28.199	6.096
%RSD	.0897228	.2551639	.3954127	.5388127	.0708084
#1	7051.830	101942.4	7483.702	5201.927	8616.481
#2	7039.289	102389.0	7471.965	5242.983	8605.540
#3	7046.953	102399.2	7427.755	5255.943	8606.352

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV01 Acquired: 10/7/2025 12:50:41 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**5.075565**	**4.868585**	**4.982333**	**5.152763**	**5.053368**	**10.08837**	**9.983982**
Stddev	.006430	.337982	.004985	.024144	.011467	.04291	.044633
%RSD	.1266819	6.942105	.1000450	.4685575	.2269158	.4253240	.4470473
#1	5.082089	5.244011	4.979096	5.180079	5.062359	10.06188	9.938712
#2	5.069234	4.588550	4.979829	5.134278	5.040455	10.13788	10.02795
#3	5.075371	4.773192	4.988073	5.143932	5.057292	10.06535	9.98528

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2518147**	**2.510642**	**25.22402**	**1.027689**	**2.489062**	**1.267685**	**5.203452**
Stddev	.0021887	.001090	.04211	.001404	.001747	.001215	.016354
%RSD	.8691627	.0434304	.1669492	.1366423	.0701738	.0958408	.3142961
#1	.2525225	2.511752	25.17730	1.029292	2.489695	1.268352	5.201404
#2	.2535618	2.510602	25.23569	1.027105	2.487088	1.266283	5.188218
#3	.2493597	2.509572	25.25906	1.026672	2.490405	1.268421	5.220734

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.491613**	**25.16306**	**2.492383**	**1.283815**	**25.60429**	**2.521999**	**2.599158**
Stddev	.012364	.08846	.001041	.002649	.22764	.006689	.004521
%RSD	.4962055	.3515590	.0417584	.2063031	.8890893	.2652317	.1739252
#1	2.477552	25.19025	2.493256	1.286796	25.45129	2.514348	2.602843
#2	2.500780	25.23473	2.491231	1.282915	25.49568	2.526744	2.600516
#3	2.496508	25.06419	2.492663	1.281733	25.86589	2.524906	2.594114

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.54062**	**4.987485**	**5.142521**	**5.070046**	**5.031117**	**5.181750**	**4.972561**
Stddev	.16594	.044608	.010468	.006456	.012155	.034942	.008237
%RSD	.6496912	.8943988	.2035526	.1273316	.2416037	.6743261	.1656426
#1	25.49269	5.006200	5.151084	5.075921	5.021187	5.187115	4.978078
#2	25.40393	5.019687	5.130852	5.071082	5.044673	5.144437	4.963093
#3	25.72525	4.936568	5.145626	5.063135	5.027490	5.213700	4.976513

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV01 Acquired: 10/7/2025 12:50:41 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**5.119853**	**4.925777**	**5.005400**
Stddev	.034435	.018011	.065234
%RSD	.6725761	.3656552	1.303276
#1	5.158715	4.908019	4.983951
#2	5.093139	4.944031	5.078658
#3	5.107704	4.925280	4.953590

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6915.062**	**97853.46**	**7310.601**	**4974.715**	**7912.895**
Stddev	3.056	316.06	64.251	19.029	7.971
%RSD	.0441982	.3229961	.8788763	.3825164	.1007332
#1	6918.029	97492.44	7280.721	4952.867	7916.518
#2	6911.924	97987.70	7266.731	4983.610	7903.756
#3	6915.233	98080.25	7384.351	4987.667	7918.411

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB01 Acquired: 10/7/2025 12:58:46 Type: Unk
Method: 6010-200.7 NEW(v261) 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	**-.004872**	**.0025160**	**-.000954**	**.0029785**	**-.000219**	**-.002120**	**.0000260**
Stddev	.001849	.0016649	.001299	.0016228	.000584	.003169	.0003637
%RSD	37.95005	66.17285	136.1740	54.48262	266.0683	149.4713	1398.753
#1	-.004907	.0009980	-.002411	.0012648	.000343	-.005742	.0004250
#2	-.006703	.0042966	.000082	.0044917	-.000822	.000140	-.000060
#3	-.003006	.0022534	-.000533	.0031789	-.000179	-.000758	-.000287

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000066**	**.0000417**	**-.015203**	**-.000538**	**-.000041**	**.0000456**	**.0060410**
Stddev	.0000839	.0000346	.015056	.000187	.000201	.0002465	.0090444
%RSD	1263.325	82.96797	99.03423	34.83295	487.9029	540.7599	149.7169
#1	.0000917	.0000685	-.000605	-.000656	-.000167	-.000110	-.004319
#2	.0000042	.0000027	-.014325	-.000322	.000191	.000330	.010081
#3	-.000076	.0000539	-.030678	-.000636	-.000147	-.000083	.012361

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000333**	**-.053967**	**-.000140**	**-.000799**	**-.377883**	**-.000818**	**-.000428**
Stddev	.000417	.026389	.000087	.000284	.031323	.000289	.000118
%RSD	125.2326	48.89818	61.73259	35.48696	8.289200	35.37720	27.45776
#1	-.000557	-.084406	-.000063	-.000733	-.413920	-.000972	-.000530
#2	.000148	-.039951	-.000234	-.000554	-.357190	-.000997	-.000456
#3	-.000590	-.037543	-.000124	-.001110	-.362539	-.000484	-.000299

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.410524**	**.0026123**	**.0005414**	F **-.021582**	**.0005532**	**-.011999**	**-.001178**
Stddev	.047357	.0006177	.0002825	.000512	.0014061	.014673	.001361
%RSD	11.53570	23.64709	52.17862	2.371951	254.1720	122.2875	115.5551
#1	-.399338	.0032956	.0005617	-.021911	.0006024	-.004918	-.002495
#2	-.462472	.0020934	.0002493	-.020992	.0019340	-.002209	-.001260
#3	-.369762	.0024478	.0008132	-.021843	-.000877	-.028870	.000223

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB01 Acquired: 10/7/2025 12:58:46 Type: Unk
Method: 6010-200.7 NEW(v261) 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	-.005805	-.004568	-.000086
Stddev	.000569	.001831	.000026
%RSD	9.795176	40.07831	30.50061
#1	-.005450	-.003427	-.000083
#2	-.005503	-.003597	-.000062
#3	-.006460	-.006680	-.000114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7203.987	103308.7	7532.946	5243.298	9006.377
Stddev	17.783	268.5	65.166	17.032	29.627
%RSD	.2468526	.2598826	.8650856	.3248375	.3289560
#1	7184.917	103031.6	7457.702	5223.721	8973.642
#2	7220.118	103327.0	7571.226	5251.452	9031.351
#3	7206.925	103567.6	7569.910	5254.719	9014.138

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-01 Acquired: 10/7/2025 13:21:11 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**-.004387**	**.0033232**	**.0058428**	**.0036678**	**.0018935**	**.2566091**
Stddev	.001393	.0036225	.0012798	.0018379	.0012886	.0149276
%RSD	31.75597	109.0067	21.90365	50.11004	68.05416	5.817247
#1	-.004681	-.000761	.0043912	.0033399	.0012073	.2660344
#2	-.005609	.006146	.0063285	.0056476	.0010933	.2643947
#3	-.002870	.004585	.0068085	.0020159	.0033800	.2393982

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0257197**	**-.000092**	**-.000003**	**101.0561**	**.0011780**	**.0012302**
Stddev	.0028566	.000049	.000080	.4555	.0001792	.0001412
%RSD	11.10674	53.01586	3150.267	.4507274	15.21477	11.47596
#1	.0272696	-.000054	.000090	101.0045	.0012558	.0013927
#2	.0274664	-.000146	-.000056	101.5352	.0009730	.0011369
#3	.0224231	-.000075	-.000041	100.6286	.0013052	.0011611

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039450**	**1.515292**	**.2681492**	**5.752156**	**.0052579**	**-.000590**
Stddev	.0003624	.011004	.0013126	.028638	.0005896	.000412
%RSD	9.187097	.7261711	.4895001	.4978574	11.21414	69.79968
#1	.0039501	1.519111	.2679773	5.740376	.0054072	-.000147
#2	.0035800	1.523878	.2695393	5.784804	.0057585	-.000662
#3	.0043048	1.502888	.2669310	5.731287	.0046079	-.000961

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.27461**	**.0020209**	**.0365180**	**13.30803**	**.0628524**	**.0029076**
Stddev	.08677	.0025238	.0002535	.02190	.0008723	.0003396
%RSD	.2607625	124.8804	.6941098	.1645842	1.387839	11.68023
#1	33.21126	.0038999	.0364071	13.28374	.0637550	.0032024
#2	33.23905	-.000848	.0363390	13.31405	.0627883	.0029842
#3	33.37350	.003011	.0368081	13.32629	.0620139	.0025363

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On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-01 Acquired: 10/7/2025 13:21:11 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.021746	.0053463	F 14.37276	.2162567	8.252396	-.007822
Stddev	.000261	.0007667	.04104	.0012107	.032955	.002082
%RSD	1.199805	14.33985	.2855261	.5598557	.3993329	26.61514
#1	-.022030	.0045226	14.35566	.2162665	8.245138	-.005445
#2	-.021688	.0054776	14.41958	.2150410	8.223675	-.009322
#3	-.021518	.0060389	14.34303	.2174624	8.288374	-.008699

Elem	Sr4077
Units	ppm
Avg	.3269796
Stddev	.0004683
%RSD	.1432265
#1	.3269329
#2	.3274694
#3	.3265363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6754.724	98191.99	7397.066	4952.715	8009.034
Stddev	11.053	438.39	47.254	36.250	12.563
%RSD	.1636348	.4464590	.6388213	.7319157	.1568597
#1	6744.210	98689.14	7430.476	4986.506	8008.087
#2	6753.716	97860.85	7343.001	4914.427	7996.972
#3	6766.247	98025.97	7417.721	4957.211	8022.044

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02 Acquired: 10/7/2025 13:25:26 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.001809	.0054655	.0037597	-.000381	-.001122	.3597600
Stddev	.001156	.0016683	.0014868	.004235	.000970	.0094242
%RSD	63.90360	30.52325	39.54598	1111.956	86.49014	2.619592
#1	-.000511	.0038828	.0041760	.004205	-.000118	.3680219
#2	-.002729	.0053059	.0049940	-.001201	-.001192	.3617627
#3	-.002188	.0072079	.0021091	-.004146	-.002055	.3494954

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0272980	.0000157	.0001125	91.90093	.0028113	.0013303
Stddev	.0002352	.0000468	.0000837	.24428	.0001355	.0000436
%RSD	.8614124	297.9283	74.43579	.2658105	4.821757	3.280985
#1	.0270621	-.000038	.0002066	92.03428	.0029591	.0013087
#2	.0275323	.000035	.0000465	91.61900	.0026928	.0013805
#3	.0272997	.000050	.0000842	92.04953	.0027819	.0013016

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056681	1.717758	.2460863	5.440963	.0065877	-.000713
Stddev	.0004152	.017252	.0010904	.042203	.0002911	.000385
%RSD	7.324752	1.004342	.4430892	.7756450	4.418207	53.92165
#1	.0057792	1.725146	.2448279	5.424427	.0063262	-.000271
#2	.0060165	1.698043	.2467532	5.488930	.0065356	-.000899
#3	.0052087	1.730087	.2466777	5.409533	.0069013	-.000970

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.51094	.0013784	.0426178	11.77595	.0545307	.0023776
Stddev	.19939	.0038851	.0003210	.02529	.0010175	.0002564
%RSD	.6756504	281.8487	.7531587	.2147260	1.865984	10.78187
#1	29.47625	-.002627	.0429431	11.75969	.0556987	.0025970
#2	29.33118	.001632	.0423013	11.76309	.0538362	.0024400
#3	29.72541	.005130	.0426091	11.80508	.0540573	.0020958

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02 Acquired: 10/7/2025 13:25:26 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.021127	.0121919	F 13.09679	.2436760	7.450700	-.008546
Stddev	.000129	.0001213	.04247	.0014586	.035056	.001687
%RSD	.6092647	.9951650	.3243120	.5985916	.4705002	19.73902
#1	-.021271	.0123186	13.05602	.2451903	7.482751	-.010488
#2	-.021023	.0120768	13.09356	.2435573	7.413263	-.007697
#3	-.021086	.0121803	13.14078	.2422803	7.456086	-.007452

Elem	Sr4077
Units	ppm
Avg	.2968711
Stddev	.0009794
%RSD	.3299192
#1	.2971605
#2	.2957796
#3	.2976733

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6883.480	103182.2	7591.961	5203.740	8193.711
Stddev	10.500	355.8	15.880	17.221	13.937
%RSD	.1525375	.3448455	.2091627	.3309261	.1700970
#1	6892.669	103306.9	7594.521	5220.830	8193.185
#2	6872.036	103458.9	7606.405	5203.997	8180.045
#3	6885.733	102780.8	7574.957	5186.392	8207.904

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02DUP Acquired: 10/7/2025 13:29:41 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**-.005308**	**.0045264**	**.0035718**	**.0017912**	**.0012470**	**.3477462**
Stddev	.001887	.0028357	.0016545	.0004659	.0006601	.0103807
%RSD	35.55008	62.64802	46.32198	26.00986	52.93518	2.985123
#1	-.005565	.0027220	.0020224	.0022459	.0019081	.3357705
#2	-.007053	.0077949	.0033784	.0018127	.0005879	.3532913
#3	-.003306	.0030624	.0053145	.0013149	.0012451	.3541767

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0324582**	**-.000003**	**.0000399**	**95.72752**	**.0008303**	**.0011467**
Stddev	.0017161	.000072	.0000902	1.07583	.0001640	.0000703
%RSD	5.287247	2448.922	226.1491	1.123848	19.74915	6.131743
#1	.0313264	-.000038	.0001222	94.52967	.0009396	.0011425
#2	.0344328	-.000051	.0000538	96.04136	.0009096	.0010786
#3	.0316154	.000080	-.000056	96.61154	.0006418	.0012190

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052031**	**1.883805**	**.2569337**	**5.696954**	**.0048642**	**-.001042**
Stddev	.0001231	.004978	.0043849	.120581	.0004798	.000385
%RSD	2.366097	.2642624	1.706615	2.116588	9.864723	36.93067
#1	.0053287	1.881176	.2535197	5.558448	.0047910	-.000670
#2	.0050827	1.889546	.2554027	5.753883	.0053765	-.001018
#3	.0051979	1.880692	.2618789	5.778531	.0044252	-.001439

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.67037**	**-.003065**	**.0456388**	**13.01195**	**.0565430**	**.0023904**
Stddev	.26610	.003054	.0001513	.12484	.0010305	.0002175
%RSD	.8145148	99.63909	.3315499	.9594078	1.822571	9.100393
#1	32.87290	-.006107	.0458108	13.11237	.0557884	.0023985
#2	32.36898	.000001	.0455793	12.87218	.0561235	.0026038
#3	32.76923	-.003090	.0455263	13.05129	.0577172	.0021689

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02DUP Acquired: 10/7/2025 13:29:41 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.014744	.0109140	F 14.45920	.2754784	8.227852	-.006970
Stddev	.000648	.0010877	.09785	.0010201	.079251	.000264
%RSD	4.393794	9.966348	.6767176	.3703026	.9632098	3.781128
#1	-.014189	.0096849	14.56881	.2766099	8.292733	-.007167
#2	-.014587	.0117527	14.42815	.2746292	8.139522	-.007073
#3	-.015456	.0113043	14.38064	.2751959	8.251302	-.006671

Elem	Sr4077
Units	ppm
Avg	.3094599
Stddev	.0043671
%RSD	1.411196
#1	.3048678
#2	.3099514
#3	.3135604

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6651.609	98677.24	7662.925	4989.845	7866.087
Stddev	25.721	266.56	140.086	17.787	31.015
%RSD	.3866949	.2701287	1.828098	.3564565	.3942854
#1	6651.751	98734.67	7822.951	4986.618	7863.108
#2	6625.817	98910.41	7603.355	5009.024	7836.670
#3	6677.259	98386.66	7562.470	4973.892	7898.484

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02LX5 Acquired: 10/7/2025 13:33:56 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**-.003391**	**.0031922**	**-.000077**	**.0024116**	**-.000483**	**.0644962**	**-.004915**
Stddev	.001095	.0013001	.000938	.0025293	.000373	.0196981	.000721
%RSD	32.29348	40.72738	1223.566	104.8783	77.24244	30.54154	14.66064
#1	-.002982	.0025672	.000952	.0002783	-.000263	.0834212	-.004270
#2	-.002559	.0046868	-.000296	.0052057	-.000272	.0441067	-.005692
#3	-.004631	.0023227	-.000885	.0017508	-.000914	.0659606	-.004781

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000848**	**.0000515**	**18.90615**	**.0001800**	**.0003222**	**.0015662**	**.3289236**
Stddev	.0000579	.0000307	.09201	.0000978	.0000980	.0003057	.0036301
%RSD	68.30176	59.63657	.4866646	54.33883	30.42603	19.51629	1.103628
#1	.0001506	.0000447	18.89605	.0000763	.0004342	.0012532	.3311443
#2	.0000416	.0000247	19.00279	.0001932	.0002515	.0018639	.3308919
#3	.0000622	.0000850	18.81960	.0002705	.0002810	.0015815	.3247344

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0512164**	**1.069900**	**.0010506**	**-.000482**	**5.322548**	**-.001288**	**.0080401**
Stddev	.0006819	.003492	.0002234	.000047	.040915	.001454	.0000732
%RSD	1.331360	.3263727	21.25851	9.833619	.7687079	112.9026	.9108429
#1	.0518167	1.071269	.0013023	-.000449	5.341654	-.002856	.0080955
#2	.0504750	1.072500	.0009735	-.000536	5.350416	.000017	.0079571
#3	.0513575	1.065931	.0008761	-.000459	5.275576	-.001025	.0080677

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.313907**	**.0097117**	**.0002446**	**-.006452**	**.0010358**	**2.354127**	**.0496530**
Stddev	.040177	.0003961	.0002051	.001070	.0010967	.006047	.0013254
%RSD	1.736328	4.078324	83.86208	16.58104	105.8739	.2568610	2.669230
#1	2.359669	.0099302	.0004732	-.006222	.0015712	2.356614	.0510097
#2	2.284423	.0092545	.0000766	-.007618	-.000226	2.358534	.0483613
#3	2.297629	.0099504	.0001840	-.005515	.001762	2.347233	.0495881

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02LX5 Acquired: 10/7/2025 13:33:56 Type: Unk
Method: 6010-200.7 NEW(v262) 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	1.546898	.0016822	.0604164
Stddev	.019269	.0027003	.0003044
%RSD	1.245645	160.5206	.5038886
#1	1.557870	.0042966	.0602783
#2	1.524649	-.001096	.0607654
#3	1.558174	.001846	.0602055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6709.532	105305.3	7020.233	5327.755	8176.077
Stddev	6.506	205.6	15.721	36.386	7.953
%RSD	.0969703	.1952454	.2239437	.6829506	.0972730
#1	6715.125	105126.1	7037.628	5290.868	8177.899
#2	6702.391	105260.0	7007.038	5328.779	8167.372
#3	6711.081	105529.8	7016.034	5363.618	8182.962

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02MS Acquired: 10/7/2025 13:38:15 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**.8091601**	**1.521192**	**.9352732**	**2.010655**	**.8206377**	**2.270598**
Stddev	.0007800	.042848	.0021777	.007966	.0021617	.069304
%RSD	.0963970	2.816734	.2328371	.3961827	.2634136	3.052225
#1	.8099129	1.522819	.9338657	2.012037	.8214912	2.200718
#2	.8083555	1.477553	.9341723	2.002089	.8181796	2.271766
#3	.8092120	1.563203	.9377815	2.017839	.8222423	2.339310

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2117493**	**.1928179**	**.1901751**	**95.70504**	**.4111568**	**.1957910**
Stddev	.0091443	.0046977	.0000545	2.79466	.0006443	.0001305
%RSD	4.318443	2.436366	.0286618	2.920076	.1567105	.0666614
#1	.2024356	.1881295	.1901799	92.77482	.4108621	.1957347
#2	.2120980	.1927994	.1901184	95.99947	.4118957	.1959403
#3	.2207142	.1975249	.1902271	98.34082	.4107124	.1956981

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3044342**	**4.783517**	**.4463839**	**7.461872**	**.4883304**	**.0724487**
Stddev	.0003170	.027215	.0147236	.219672	.0016192	.0005106
%RSD	.1041145	.5689265	3.298419	2.943927	.3315694	.7048078
#1	.3046840	4.752102	.4317452	7.215144	.4870018	.0730361
#2	.3045410	4.798566	.4462155	7.534248	.4878555	.0721989
#3	.3040776	4.799883	.4611910	7.636223	.4901339	.0721111

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.60347**	**.2944327**	**.2484499**	**21.90439**	**.3245247**	**.4453265**
Stddev	.22251	.0074541	.0008062	.18545	.0073625	.0003253
%RSD	.6621705	2.531699	.3244967	.8466147	2.268692	.0730449
#1	33.34744	.2876569	.2491973	21.69144	.3169936	.4457010
#2	33.75009	.2932237	.2485568	21.99145	.3248745	.4451138
#3	33.71289	.3024174	.2475956	22.03029	.3317061	.4451647

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On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02MS Acquired: 10/7/2025 13:38:15 Type: Unk
Method: 6010-200.7 NEW(v262) 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	.6788661	.2027738	F 14.46282	5.936752	7.567093	.1813551
Stddev	.0016351	.0076639	.10620	.031923	.036755	.0043037
%RSD	.2408618	3.779555	.7342994	.5377146	.4857179	2.373076
#1	.6800106	.1943052	14.35503	5.943991	7.585439	.1774421
#2	.6769934	.2047836	14.56736	5.901831	7.524777	.1806586
#3	.6795942	.2092325	14.46606	5.964433	7.591064	.1859645

Elem	Sr4077
Units	ppm
Avg	.4882471
Stddev	.0144265
%RSD	2.954757
#1	.4732354
#2	.4894991
#3	.5020068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6866.272	100899.6	7513.653	5059.408	8086.439
Stddev	8.545	644.5	198.650	18.797	1.565
%RSD	.1244464	.6387042	2.643854	.3715184	.0193593
#1	6859.245	101383.6	7733.141	5075.685	8085.666
#2	6863.788	100168.1	7461.623	5038.835	8085.410
#3	6875.784	101147.2	7346.197	5063.704	8088.240

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02MSD Acquired: 10/7/2025 13:42:13 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**.8206315**	**1.427396**	**.9416295**	**2.045581**	**.8353410**	**2.422725**
Stddev	.0013442	.017030	.0024155	.001729	.0021517	.009088
%RSD	.1637965	1.193052	.2565217	.0845250	.2575795	.3751193
#1	.8201824	1.428411	.9435916	2.045189	.8352412	2.423343
#2	.8221427	1.409881	.9389317	2.044083	.8332409	2.431489
#3	.8195693	1.443894	.9423652	2.047473	.8375408	2.413344

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2250884**	**.2002011**	**.1915223**	**100.3108**	**.4099681**	**.1977742**
Stddev	.0025543	.0012560	.0000653	.1464	.0017755	.0002567
%RSD	1.134811	.6273839	.0340904	.1459536	.4330781	.1298186
#1	.2247928	.2009658	.1915934	100.4715	.4079771	.1980188
#2	.2226947	.1987515	.1914650	100.1850	.4105403	.1977970
#3	.2277776	.2008860	.1915084	100.2760	.4113870	.1975069

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3081001**	**4.909120**	**.4715045**	**7.820915**	**.4928154**	**.0721937**
Stddev	.0001814	.014727	.0025746	.028218	.0004337	.0004385
%RSD	.0588940	.3000026	.5460401	.3608052	.0879990	.6074247
#1	.3080570	4.902036	.4742936	7.836823	.4926323	.0721557
#2	.3079441	4.926051	.4710011	7.788335	.4933107	.0726500
#3	.3082992	4.899274	.4692188	7.837588	.4925034	.0717754

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.24095**	**.3037166**	**.2574540**	**22.11062**	**.3371224**	**.4466111**
Stddev	.00568	.0020284	.0007294	.06782	.0020249	.0012938
%RSD	.0165769	.6678499	.2832951	.3067479	.6006330	.2896871
#1	34.24097	.3028340	.2567655	22.06152	.3381033	.4451200
#2	34.23527	.3022790	.2573781	22.18801	.3347939	.4474365
#3	34.24662	.3060367	.2582183	22.08233	.3384700	.4472767

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02MSD Acquired: 10/7/2025 13:42:13 Type: Unk
Method: 6010-200.7 NEW(v262) 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	.6819454	.2154624	F 14.64428	6.026862	7.715033	.1881395
Stddev	.0012182	.0023287	.08630	.010730	.030347	.0010817
%RSD	.1786395	1.080811	.5893143	.1780328	.3933529	.5749227
#1	.6833259	.2174555	14.55480	6.039252	7.749155	.1891618
#2	.6810215	.2160292	14.72700	6.020620	7.704883	.1870069
#3	.6814886	.2129026	14.65105	6.020715	7.691062	.1882498

Elem	Sr4077
Units	ppm
Avg	.5142591
Stddev	.0024873
%RSD	.4836644
#1	.5168734
#2	.5119220
#3	.5139820

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6859.725	102617.6	7322.088	5194.921	8057.716
Stddev	3.243	212.4	24.337	6.645	13.095
%RSD	.0472716	.2069460	.3323712	.1279108	.1625196
#1	6856.183	102829.2	7299.465	5200.955	8042.733
#2	6860.446	102404.5	7347.836	5187.800	8063.449
#3	6862.547	102619.2	7318.964	5196.009	8066.968

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02A Acquired: 10/7/2025 13:46:11 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**.8117186**	**1.811535**	**.9287354**	**2.059710**	**.8501270**	**2.322614**
Stddev	.0011837	.098286	.0017952	.007980	.0012917	.019708
%RSD	.1458307	5.425542	.1932932	.3874502	.1519373	.8485336
#1	.8104770	1.714675	.9307854	2.055062	.8488638	2.344834
#2	.8118443	1.808742	.9274441	2.055143	.8514454	2.315759
#3	.8128344	1.911187	.9279769	2.068925	.8500716	2.307248

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2191756**	**.1914851**	**.1884271**	**95.04527**	**.4026785**	**.1931266**
Stddev	.0008152	.0010101	.0001140	.14285	.0007505	.0002012
%RSD	.3719228	.5275276	.0604973	.1503000	.1863690	.1041852
#1	.2191411	.1912390	.1884054	95.09718	.4018224	.1933094
#2	.2200075	.1906208	.1883255	95.15492	.4029904	.1929110
#3	.2183783	.1925956	.1885504	94.88372	.4032228	.1931593

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3030546**	**4.804718**	**.4484535**	**7.474473**	**.4859290**	**.0735131**
Stddev	.0007888	.058950	.0010381	.019585	.0011960	.0030995
%RSD	.2602854	1.226926	.2314894	.2620257	.2461235	4.216247
#1	.3037866	4.759780	.4496283	7.486836	.4867051	.0770857
#2	.3031581	4.871465	.4480723	7.484692	.4845517	.0715428
#3	.3022192	4.782907	.4476599	7.451892	.4865303	.0719106

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.86289**	**.2956505**	**.2473351**	**22.18419**	**.3234682**	**.4489431**
Stddev	.22437	.0019495	.0004419	.18892	.0013905	.0007396
%RSD	.6625910	.6593957	.1786649	.8515869	.4298811	.1647346
#1	33.73966	.2939315	.2468297	22.09418	.3245681	.4492312
#2	34.12187	.2977687	.2475273	22.40128	.3219052	.4494953
#3	33.72714	.2952512	.2476484	22.05712	.3239313	.4481028

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3283-02A Acquired: 10/7/2025 13:46:11 Type: Unk
Method: 6010-200.7 NEW(v262) 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	.7034969	.2096573	F 14.53835	6.043487	7.702963	.1846836
Stddev	.0005191	.0017410	.13953	.021123	.053765	.0015857
%RSD	.0737858	.8304134	.9597672	.3495156	.6979831	.8586313
#1	.7028981	.2095203	14.43231	6.021699	7.647146	.1864347
#2	.7038186	.2079888	14.69642	6.044888	7.707333	.1833445
#3	.7037740	.2114627	14.48631	6.063875	7.754410	.1842717

Elem	Sr4077
Units	ppm
Avg	.4954459
Stddev	.0011972
%RSD	.2416321
#1	.4964369
#2	.4957851
#3	.4941158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6761.252	100520.2	7483.563	5090.235	7941.566
Stddev	2.554	522.1	28.952	32.733	6.816
%RSD	.0377764	.5193601	.3868689	.6430627	.0858323
#1	6758.506	100919.3	7471.026	5127.757	7934.580
#2	6763.556	99929.4	7516.670	5075.421	7948.199
#3	6761.694	100711.9	7462.992	5067.528	7941.919

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-1 Acquired: 10/7/2025 13:50:09 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**-.004027**	**.0342758**	**.0177320**	**-.015928**	**.0220273**	**.3118727**	**.0104019**
Stddev	.005506	.0056544	.0015730	.007269	.0010561	.0172450	.0025759
%RSD	136.7508	16.49672	8.871012	45.63401	4.794617	5.529506	24.76386
#1	-.007300	.0407160	.0174366	-.012858	.0230737	.3265848	.0074476
#2	.002331	.0319861	.0194318	-.024228	.0209617	.2928953	.0121778
#3	-.007111	.0301254	.0163276	-.010698	.0220465	.3161381	.0115804

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009769**	**.0009231**	**2522.354**	**.0335137**	**.0063507**	**.0076179**	**.6678108**
Stddev	.0000368	.0002463	19.456	.0002361	.0004566	.0004562	.0107609
%RSD	3.768490	26.68430	.7713261	.7045772	7.190010	5.988956	1.611362
#1	.0009892	.0011540	2536.838	.0334880	.0060654	.0071037	.6780923
#2	.0010061	.0009514	2529.984	.0337616	.0061093	.0077755	.6566274
#3	.0009356	.0006639	2500.240	.0332915	.0068773	.0079743	.6687127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0259954**	**2232.608**	**.0273016**	**.0013739**	**2371.427**	**.0167417**	**.0711104**
Stddev	.0006167	3.319	.0001146	.0005741	7.508	.0022845	.0005048
%RSD	2.372394	.1486427	.4198929	41.78641	.3166050	13.64583	.7098258
#1	.0254259	2230.529	.0271783	.0017010	2378.720	.0148119	.0709543
#2	.0259099	2236.435	.0273216	.0007110	2363.721	.0192642	.0707021
#3	.0266504	2230.860	.0274050	.0017096	2371.840	.0161489	.0716747

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.254279**	**.0065862**	**.0059870**	**-.014769**	**-.118617**	**-.021466**	**.0142168**
Stddev	.635334	.0001962	.0011437	.000847	.002884	.011048	.0005361
%RSD	10.15840	2.978523	19.10281	5.733386	2.431213	51.46876	3.770525
#1	5.580066	.0063747	.0047078	-.014137	-.115908	-.032345	.0142080
#2	6.340931	.0067621	.0069106	-.015731	-.118294	-.021795	.0147572
#3	6.841840	.0066217	.0063426	-.014438	-.121649	-.010257	.0136852

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-1 Acquired: 10/7/2025 13:50:09 Type: Unk
Method: 6010-200.7 NEW(v262) 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	.2599767	-.392303	.0607236
Stddev	.0036800	.003401	.0001023
%RSD	1.415512	.8669763	.1685523
#1	.2634229	-.395172	.0606204
#2	.2604065	-.393192	.0607255
#3	.2561006	-.388546	.0608251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4699.884	72658.42	6629.437	3585.652	4911.063
Stddev	7.803	135.97	21.678	3.366	13.538
%RSD	.1660321	.1871427	.3269938	.0938799	.2756658
#1	4694.505	72689.90	6619.033	3581.984	4907.738
#2	4696.313	72509.46	6614.922	3586.373	4899.497
#3	4708.834	72775.89	6654.356	3588.600	4925.954

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-3 Acquired: 10/7/2025 13:59:02 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**.0930779**	**.1007275**	**221.2854**	**.0085619**	**.1646012**	**.1775246**	**-.011955**
Stddev	.0019916	.0010964	1.6789	.0004212	.0039420	.0231644	.001864
%RSD	2.139701	1.088492	.7586889	4.919550	2.394862	13.04855	15.59042
#1	.0921649	.0994774	223.1642	.0083779	.1683334	.2019627	-.014011
#2	.0917064	.1015263	219.9324	.0090438	.1649917	.1747222	-.011477
#3	.0953623	.1011786	220.7596	.0082640	.1604785	.1558889	-.010377

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005512**	**-.003254**	**.2181223**	**24.36260**	**.0066974**	**53.92050**	**.2818079**
Stddev	.000082	.000076	.0035779	.07329	.0000346	.45209	.0264062
%RSD	1.493527	2.330141	1.640308	.3008177	.5164547	.8384324	9.370297
#1	-.005595	-.003328	.2215725	24.27915	.0067042	54.42497	.3070919
#2	-.005431	-.003177	.2144292	24.39216	.0067281	53.78452	.2839248
#3	-.005511	-.003258	.2183652	24.41649	.0066600	53.55201	.2544069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.16363**	**-.249225**	**23.19842**	**.0033084**	**.4104673**	**-.027654**	**29.94797**
Stddev	.38087	.029560	.18218	.0002909	.0229689	.002303	.10970
%RSD	.7031813	11.86075	.7853144	8.792852	5.595795	8.327735	.3663120
#1	54.58298	-.222467	23.40017	.0031765	.4204364	-.030185	29.91020
#2	54.06872	-.280956	23.14914	.0036419	.4267673	-.027093	29.86214
#3	53.83920	-.244251	23.04595	.0031068	.3841981	-.025683	30.07157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.005951**	**-.001219**	**-.019774**	**-.013822**	**-.046518**	**-.093394**	**.1756694**
Stddev	.046421	.000888	.000777	.000718	.001904	.008143	.0023134
%RSD	4.614602	72.87399	3.927688	5.195459	4.092189	8.719094	1.316876
#1	1.057874	-.002101	-.018910	-.013083	-.045013	-.088381	.1730875
#2	.968461	-.000324	-.020414	-.014517	-.045883	-.102789	.1775537
#3	.991520	-.001232	-.020000	-.013866	-.048658	-.089010	.1763671

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-3 Acquired: 10/7/2025 13:59:02 Type: Unk
Method: 6010-200.7 NEW(v262) 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	.0946056	.0060814	.0003185
Stddev	.0029388	.0013035	.0000509
%RSD	3.106414	21.43430	15.98264
#1	.0953466	.0070540	.0002643
#2	.0971031	.0065899	.0003260
#3	.0913672	.0046003	.0003653

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6398.068	102918.6	7088.125	5036.518	8157.967
Stddev	38.696	415.7	19.234	36.029	49.635
%RSD	.6048141	.4039352	.2713570	.7153647	.6084226
#1	6360.937	103380.1	7105.685	5065.760	8111.313
#2	6395.105	102802.2	7091.121	5047.523	8152.464
#3	6438.160	102573.5	7067.569	4996.269	8210.124

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-2 Acquired: 10/7/2025 14:10:31 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**.0975689**	**-.071736**	**.0659132**	**.0661778**	**-.164978**	**1868.027**	**.0133759**
Stddev	.0093976	.005978	.0044138	.0110146	.004757	4.819	.0002291
%RSD	9.631739	8.333423	6.696399	16.64390	2.883653	.2579790	1.712440
#1	.1000135	-.077631	.0608212	.0725169	-.166086	1862.486	.0134784
#2	.0871906	-.071899	.0686467	.0725572	-.159764	1870.355	.0131135
#3	.1055026	-.065678	.0682718	.0534593	-.169083	1871.240	.0135358

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0417045**	**.0587190**	**9.564335**	**-.248238**	**.0517002**	**.3074157**	**2572.375**
Stddev	.0005359	.0030317	.051191	.004303	.0004913	.0185969	42.398
%RSD	1.284861	5.162995	.5352310	1.733464	.9502493	6.049427	1.648194
#1	.0416279	.0571651	9.508372	-.251057	.0515799	.2935354	2600.146
#2	.0422745	.0622125	9.608798	-.243285	.0522405	.3285456	2523.573
#3	.0412111	.0567793	9.575835	-.250372	.0512803	.3001662	2593.406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.215699**	**.9773353**	**.0489331**	**^ *****	**2.963978**	**.0526732**	**.0418269**
Stddev	.002172	.0312434	.0011408	-----	.101979	.0009802	.0047867
%RSD	1.007033	3.196799	2.331281	-----	3.440611	1.860835	11.44407
#1	-.213973	.9471098	.0499600	^ -----	2.878964	.0516001	.0387982
#2	-.218138	1.009506	.0477052	^ -----	2.935921	.0528983	.0473453
#3	-.214985	.975390	.0491341	^ -----	3.077048	.0535213	.0393371

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1806.799**	**^ *****	**-.021386**	**.0183168**	**.0029363**	**.4654805**	**.0770394**
Stddev	20.227	-----	.000383	.0006167	.0011855	.0282495	.0047998
%RSD	1.119515	-----	1.790831	3.367006	40.37317	6.068891	6.230362
#1	1826.467	^ -----	-.020964	.0190237	.0015697	.4494902	.0738159
#2	1786.055	^ -----	-.021710	.0180382	.0035515	.4488532	.0747466
#3	1807.874	^ -----	-.021485	.0178885	.0036877	.4980982	.0825556

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: LR-2 Acquired: 10/7/2025 14:10:31 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.339359	.2594107	-2.46595
Stddev	.025149	.0032383	.04078
%RSD	7.410819	1.248313	1.653738
#1	-.342704	.2610675	-2.49273
#2	-.312705	.2556793	-2.41902
#3	-.362669	.2614853	-2.48611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5736.902	85275.99	7086.370	4473.182	5084.588
Stddev	8.731	359.62	39.642	29.734	1.826
%RSD	.1521953	.4217134	.5594066	.6647093	.0359084
#1	5729.890	84930.34	7118.528	4441.169	5083.387
#2	5746.682	85648.12	7042.080	4499.933	5083.689
#3	5734.135	85249.51	7098.503	4478.445	5086.689

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV02 Acquired: 10/7/2025 14:19:32 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**5.080698**	**5.203520**	**4.963307**	**5.186875**	**5.048256**	**9.933525**	**9.767843**
Stddev	.005626	.055242	.010231	.007368	.014771	.046774	.063587
%RSD	.1107333	1.061630	.2061340	.1420526	.2926052	.4708700	.6509808
#1	5.074375	5.205979	4.959426	5.178491	5.032262	9.959703	9.840967
#2	5.082571	5.257491	4.955584	5.189813	5.051124	9.879524	9.737012
#3	5.085149	5.147089	4.974910	5.192321	5.061384	9.961349	9.725548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499523**	**2.505445**	**24.89372**	**1.025854**	**2.480462**	**1.264304**	**5.344200**
Stddev	.0007033	.003730	.08399	.002806	.006155	.001018	.030131
%RSD	.2813882	.1488702	.3373849	.2735731	.2481504	.0805182	.5638129
#1	.2507130	2.505625	24.96248	1.027989	2.479336	1.264726	5.377163
#2	.2493256	2.501628	24.80011	1.026897	2.474947	1.263143	5.318075
#3	.2498183	2.509081	24.91858	1.022675	2.487102	1.265044	5.337362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.482994**	**24.94800**	**2.486813**	**1.285344**	**25.02317**	**2.500062**	**2.595232**
Stddev	.020324	.15265	.005594	.001322	.18082	.008350	.005220
%RSD	.8185270	.6118574	.2249382	.1028422	.7225909	.3340115	.2011426
#1	2.506433	24.88423	2.486834	1.286431	25.20708	2.493347	2.589565
#2	2.472292	24.83759	2.481209	1.283873	25.01682	2.497427	2.599844
#3	2.470258	25.12219	2.492397	1.285728	24.84562	2.509412	2.596287

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.12357**	**4.935390**	**5.139596**	**5.070742**	**4.974879**	**5.268909**	**5.014543**
Stddev	.12150	.011474	.006198	.005199	.023398	.030108	.017352
%RSD	.4651032	.2324801	.1205937	.1025341	.4703166	.5714221	.3460291
#1	26.25799	4.940610	5.132663	5.069618	5.001677	5.247040	5.022662
#2	26.09117	4.922234	5.141527	5.066196	4.958509	5.256440	4.994620
#3	26.02155	4.943326	5.144600	5.076411	4.964450	5.303248	5.026346

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV02 Acquired: 10/7/2025 14:19:32 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**5.179488**	**4.647467**	**4.927924**
Stddev	.009548	.024362	.076514
%RSD	.1843497	.5242094	1.552666
#1	5.172537	4.673799	5.002542
#2	5.175552	4.625727	4.849645
#3	5.190375	4.642877	4.931585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6837.330**	**95346.29**	**7261.095**	**4866.473**	**7819.757**
Stddev	7.493	438.92	49.105	13.482	8.446
%RSD	.1095942	.4603445	.6762741	.2770295	.1080128
#1	6831.957	94845.46	7208.417	4850.954	7810.162
#2	6834.142	95529.46	7305.601	4873.163	7826.068
#3	6845.890	95663.97	7269.268	4875.301	7823.042

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB02 Acquired: 10/7/2025 14:24:08 Type: Unk
Method: 6010-200.7 NEW(v262) 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	**-.002094**	**.0051495**	**-.000555**	**.0010682**	**-.002387**	**.0143736**	**-.006599**
Stddev	.002230	.0004635	.000204	.0009479	.000408	.0041128	.000207
%RSD	106.4979	9.000250	36.81096	88.73629	17.08160	28.61351	3.136954
#1	-.000519	.0056411	-.000351	.0006837	-.002857	.0096440	-.006561
#2	-.004645	.0047205	-.000555	.0021480	-.002169	.0171100	-.006414
#3	-.001117	.0050870	-.000759	.0003731	-.002134	.0163668	-.006823

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000777**	**.0001101**	**.0044432**	**-.000389**	**.0001385**	**-.000048**	**.0283663**
Stddev	.0000573	.0000470	.0140838	.000032	.0001544	.000408	.0049206
%RSD	73.76790	42.69480	316.9760	8.338134	111.4719	854.7648	17.34653
#1	.0000901	.0001587	.0178574	-.000361	.0000018	.000372	.0334616
#2	.0001279	.0001069	.0056981	-.000425	.0003060	-.000073	.0279957
#3	.0000152	.0000648	-.010226	-.000381	.0001078	-.000442	.0236415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000678**	**-.022770**	**.0001908**	**-.000408**	**.0701045**	**-.004170**	**-.000434**
Stddev	.000902	.021611	.0001850	.000482	.0178465	.002684	.000098
%RSD	133.0494	94.90912	96.97433	118.2530	25.45707	64.35451	22.56105
#1	-.000977	-.031029	-.000016	-.000240	.0622465	-.004805	-.000417
#2	-.001393	-.039032	.000340	-.000032	.0575353	-.001226	-.000346
#3	.000336	.001752	.000248	-.000951	.0905316	-.006480	-.000540

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4898098**	**.0001652**	**-.000247**	**-.003027**	**.0002191**	**-.011746**	**.0005399**
Stddev	.0426193	.0004892	.000065	.000079	.0007023	.006555	.0022595
%RSD	8.701186	296.1356	26.32499	2.596349	320.5806	55.80532	418.5305
#1	.4502024	.0004379	-.000284	-.003095	.0003651	-.017542	-.000620
#2	.5349086	.0004571	-.000285	-.002941	.0008368	-.004632	.003144
#3	.4843183	-.000400	-.000172	-.003044	-.000545	-.013066	-.000904

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB02 Acquired: 10/7/2025 14:24:08 Type: Unk
Method: 6010-200.7 NEW(v262) 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	-.000090	.0029557	.0004107
Stddev	.003146	.0010049	.0001373
%RSD	3504.199	34.00039	33.42463
#1	.000904	.0037457	.0004889
#2	-.003613	.0032967	.0004910
#3	.002439	.0018246	.0002522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7039.398	100391.3	7460.261	5086.058	8871.337
Stddev	9.467	300.3	25.121	47.952	16.987
%RSD	.1344833	.2990805	.3367331	.9428200	.1914870
#1	7049.839	100102.5	7443.581	5031.356	8885.556
#2	7031.375	100701.8	7489.153	5105.982	8852.526
#3	7036.978	100369.5	7448.048	5120.837	8875.930

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3270-01 Acquired: 10/7/2025 14:28:14 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.0737446**	**-.009578**	**.2314772**	**.0154467**	**-.023686**	**172.6816**	**.5522151**
Stddev	.0011904	.008185	.0022012	.0044531	.002588	.5796	.0013740
%RSD	1.614261	85.45556	.9509286	28.82890	10.92590	.3356253	.2488111
#1	.0749751	-.012210	.2301836	.0110628	-.022908	172.9424	.5523180
#2	.0725988	-.016123	.2340188	.0153114	-.021576	173.0849	.5507926
#3	.0736601	-.000401	.2302293	.0199659	-.026574	172.0174	.5535347

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125795**	**.0080011**	**10.59827**	**.1949215**	**.1066807**	**.2341926**	**343.0051**
Stddev	.0000778	.0004675	.03289	.0008186	.0003625	.0025301	3.0926
%RSD	.6188409	5.842750	.3103757	.4199463	.3398134	1.080345	.9016306
#1	.0125428	.0081958	10.58545	.1942365	.1062743	.2362133	342.0738
#2	.0126689	.0083397	10.63565	.1958280	.1067973	.2350095	340.4851
#3	.0125267	.0074677	10.57372	.1946999	.1069706	.2313550	346.4563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.431622**	**32.50654**	**.2118740**	**.0095528**	**1.620029**	**.3963709**	**.5966024**
Stddev	.014509	.01395	.0005053	.0014303	.004089	.0045015	.0006848
%RSD	.4227942	.0429064	.2384832	14.97308	.2523829	1.135690	.1147812
#1	3.425361	32.50389	.2120085	.0088288	1.621232	.3911798	.5958296
#2	3.421295	32.49411	.2122984	.0086293	1.615474	.3987357	.5968438
#3	3.448210	32.52163	.2113151	.0112005	1.623381	.3991973	.5971337

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.450546**	**.2473182**	**.0034971**	**.0113612**	**2.422166**	**3.461325**	**7.468888**
Stddev	.066971	.0183810	.0002305	.0008062	.002909	.014440	.044348
%RSD	1.038227	7.432136	6.591151	7.095765	.1200943	.4171673	.5937756
#1	6.469677	.2408483	.0036081	.0118308	2.420297	3.458067	7.432453
#2	6.376091	.2330469	.0036510	.0104303	2.420684	3.448793	7.518269
#3	6.505870	.2680593	.0032321	.0118224	2.425518	3.477115	7.455943

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3270-01 Acquired: 10/7/2025 14:28:14 Type: Unk
Method: 6010-200.7 NEW(v263) 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	1.116956	.1868807	-.261275
Stddev	.005150	.0008986	.002716
%RSD	.4611182	.4808306	1.039493
#1	1.111580	.1877541	-.260638
#2	1.121847	.1869290	-.258934
#3	1.117441	.1859589	-.264253

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7687.917	112539.0	8462.797	5742.297	7731.253
Stddev	22.602	230.8	59.553	40.008	25.450
%RSD	.2939980	.2050438	.7037044	.6967231	.3291891
#1	7664.580	112688.9	8471.668	5785.200	7712.865
#2	7689.466	112273.3	8399.306	5735.682	7720.593
#3	7709.705	112654.8	8517.417	5706.009	7760.300

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01 Acquired: 10/7/2025 14:32:17 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.0834088**	**-.011742**	**.5560983**	**.0166383**	**-.042995**	**312.2534**
Stddev	.0033831	.005252	.0018315	.0017460	.003561	2.5034
%RSD	4.056033	44.73002	.3293407	10.49357	8.281416	.8017356
#1	.0832091	-.009281	.5567988	.0148956	-.040101	313.3726
#2	.0801299	-.008173	.5540200	.0166320	-.046971	309.3856
#3	.0868873	-.017773	.5574762	.0183875	-.041912	314.0019

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.514094**	**.0283820**	**.0224363**	**54.87722**	**.4867921**	**.4011089**
Stddev	.013709	.0000609	.0000976	.06518	.0002813	.0001772
%RSD	.5452897	.2145889	.4349584	.1187773	.0577898	.0441833
#1	2.499539	.0283863	.0225489	54.81013	.4866608	.4009225
#2	2.526761	.0284406	.0223839	54.88121	.4871150	.4011289
#3	2.515981	.0283190	.0223761	54.94031	.4866004	.4012752

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4190415**	**671.0000**	**13.38351**	**126.6089**	**.6909108**	**.0184027**
Stddev	.0013915	2.4819	.05486	.1867	.0010521	.0012247
%RSD	.3320659	.3698817	.4099211	.1474445	.1522832	6.655063
#1	.4205490	669.2319	13.32895	126.6384	.6897332	.0173609
#2	.4178062	673.8373	13.43867	126.7790	.6917582	.0197518
#3	.4187694	669.9309	13.38292	126.4092	.6912411	.0180954

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.562506**	**.8579487**	**1.657576**	**32.77770**	**^ *****	**.0077817**
Stddev	.021245	.0033049	.003350	.15230	-----	.0001292
%RSD	.5963394	.3852117	.2021099	.4646552	-----	1.660283
#1	3.541761	.8542287	1.659469	32.61328	^ -----	.0078051
#2	3.561541	.8590715	1.653708	32.80589	^ -----	.0078976
#3	3.584217	.8605460	1.659551	32.91395	^ -----	.0076424

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01 Acquired: 10/7/2025 14:32:17 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.0326075	3.374059	3.036101	F 10.88083	6.467812	.8411203
Stddev	.0003082	.013323	.011525	.06063	.043227	.0048554
%RSD	.9453131	.3948751	.3795955	.5572350	.6683364	.5772572
#1	.0325480	3.358726	3.045552	10.81879	6.422432	.8358323
#2	.0329411	3.382821	3.039489	10.93995	6.508503	.8453778
#3	.0323333	3.380628	3.023262	10.88375	6.472502	.8421507

Elem	Sr4077
Units	ppm
Avg	-.435032
Stddev	.001927
%RSD	.4430074
#1	-.434114
#2	-.437247
#3	-.433735

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8358.577	120462.0	9538.298	6070.704	7123.820
Stddev	15.788	223.0	2.496	14.577	12.118
%RSD	.1888812	.1851431	.0261644	.2401145	.1701050
#1	8355.772	120488.8	9540.509	6060.947	7130.442
#2	8344.380	120670.5	9538.792	6087.460	7109.834
#3	8375.580	120226.8	9535.592	6063.705	7131.184

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01LX5 Acquired: 10/7/2025 14:40:27 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.0139845**	**.0030631**	**.1146178**	**.0009152**	**-.014743**	**74.71794**	**.5836034**
Stddev	.0018487	.0002453	.0007994	.0065735	.000218	.07246	.0031822
%RSD	13.21998	8.007955	.6974405	718.2786	1.476854	.0969844	.5452618
#1	.0119469	.0033313	.1155165	.0019694	-.014830	74.64475	.5869128
#2	.0155546	.0028500	.1143507	-.006122	-.014905	74.71941	.5805660
#3	.0144520	.0030081	.1139861	.006898	-.014496	74.78966	.5833313

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075993**	**.0027388**	**13.72734**	**.1229172**	**.0801170**	**.1186637**	**156.5723**
Stddev	.0001514	.0000606	.00962	.0001939	.0000829	.0009052	2.1553
%RSD	1.992662	2.213993	.0701115	.1577692	.1034543	.7628404	1.376530
#1	.0074703	.0026708	13.71633	.1230232	.0800964	.1176689	159.0558
#2	.0075616	.0027871	13.73155	.1230351	.0802083	.1194390	155.4699
#3	.0077660	.0027585	13.73415	.1226934	.0800464	.1188831	155.1912

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.328284**	**31.20032**	**.1405966**	**.0015905**	**.7237173**	**.2105872**	**.4054073**
Stddev	.012431	.12145	.0004464	.0006270	.0121827	.0031364	.0008120
%RSD	.3734997	.3892658	.3174976	39.41959	1.683355	1.489334	.2002880
#1	3.337307	31.06024	.1408541	.0023098	.7372286	.2141710	.4045868
#2	3.314105	31.26440	.1408545	.0011594	.7135702	.2083436	.4054244
#3	3.333441	31.27630	.1400811	.0013024	.7203532	.2092471	.4062105

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.216200**	**.1206214**	**.0012544**	**.0039656**	**.8211024**	**.6779813**	**2.136959**
Stddev	.102797	.0125631	.0002596	.0003185	.0031882	.0244121	.009298
%RSD	1.424536	10.41530	20.69563	8.030933	.3882837	3.600710	.4350886
#1	7.334734	.1348495	.0010708	.0036093	.8237637	.6982715	2.143526
#2	7.162375	.1159570	.0011410	.0040648	.8219746	.6508897	2.141032
#3	7.151491	.1110576	.0015514	.0042226	.8175688	.6847825	2.126320

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01LX5 Acquired: 10/7/2025 14:40:27 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**1.226519**	**.1978844**	**-.100027**
Stddev	.006229	.0009718	.002023
%RSD	.5078811	.4911034	2.022348
#1	1.225298	.1987040	-.102353
#2	1.233268	.1968108	-.099046
#3	1.220991	.1981384	-.098681

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7300.287**	**105031.3**	**7505.245**	**5295.830**	**8019.583**
Stddev	7.573	410.7	76.156	35.702	5.909
%RSD	.1037372	.3909823	1.014703	.6741578	.0736830
#1	7293.711	104564.1	7589.352	5259.063	8013.011
#2	7308.567	105194.9	7485.423	5298.064	8024.459
#3	7298.583	105334.9	7440.960	5330.362	8021.279

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01MS Acquired: 10/7/2025 14:44:32 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.7294436**	**1.865115**	**1.424536**	**1.610100**	**.2479648**	**292.9101**
Stddev	.0049178	.156545	.003025	.010981	.0033960	.5279
%RSD	.6741786	8.393293	.2123424	.6820361	1.369529	.1802095
#1	.7264949	1.693339	1.427512	1.599337	.2481832	293.2306
#2	.7351207	1.902257	1.424632	1.609677	.2512462	292.3008
#3	.7267153	1.999748	1.421464	1.621287	.2444648	293.1988

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.318544**	**.1833177**	**.2184958**	**40.57061**	**.7555236**	**.5151026**
Stddev	.004652	.0009426	.0008319	.04521	.0011645	.0010049
%RSD	.2006390	.5142187	.3807431	.1114236	.1541280	.1950917
#1	2.323561	.1831695	.2176361	40.55654	.7542731	.5146720
#2	2.314373	.1824579	.2185547	40.53411	.7557207	.5162511
#3	2.317697	.1843256	.2192967	40.62118	.7565769	.5143847

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6000001**	**603.9109**	**11.43313**	**111.7769**	**1.079366**	**.0831529**
Stddev	.0029300	1.8295	.01977	.1963	.001425	.0018639
%RSD	.4883313	.3029389	.1729593	.1756131	.1319962	2.241551
#1	.5988583	604.9238	11.45580	111.5902	1.078897	.0842312
#2	.5978130	605.0100	11.42420	111.7590	1.080966	.0842268
#3	.6033291	601.7990	11.41940	111.9815	1.078235	.0810006

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.578562**	**1.044504**	**1.563722**	**39.49038**	^ *****	**.3252837**
Stddev	.067393	.002925	.002983	.11781	-----	.0002908
%RSD	1.208077	.2800371	.1907606	.2983236	-----	.0893938
#1	5.616156	1.042989	1.567013	39.52119	^ -----	.3255318
#2	5.618773	1.042648	1.561196	39.58971	^ -----	.3253555
#3	5.500758	1.047876	1.562958	39.36022	^ -----	.3249637

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01MS Acquired: 10/7/2025 14:44:32 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.6784508	3.670410	3.452840	F 14.89250	4.820878	.9053454
Stddev	.0023674	.006656	.016064	.08434	.050375	.0038361
%RSD	.3489370	.1813477	.4652326	.5663480	1.044941	.4237126
#1	.6757363	3.674701	3.456993	14.79512	4.765039	.9013465
#2	.6795290	3.662742	3.466420	14.94257	4.834685	.9056949
#3	.6800871	3.673786	3.435108	14.93980	4.862910	.9089947

Elem	Sr4077
Units	ppm
Avg	-.237473
Stddev	.001833
%RSD	.7716829
#1	-.237690
#2	-.239188
#3	-.235542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8023.258	115422.1	9137.367	5820.195	7142.776
Stddev	14.584	115.4	44.108	5.791	22.745
%RSD	.1817719	.0999510	.4827157	.0994900	.3184350
#1	8028.802	115349.5	9137.686	5822.381	7146.306
#2	8006.715	115555.1	9181.314	5813.630	7118.472
#3	8034.256	115361.6	9093.101	5824.574	7163.550

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01MSD Acquired: 10/7/2025 14:48:28 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.7305205	1.757495	1.420610	1.594544	.2440597	301.0524
Stddev	.0058274	.040851	.005309	.006662	.0015307	2.1578
%RSD	.7977110	2.324360	.3737242	.4178111	.6271976	.7167594
#1	.7371858	1.779170	1.425475	1.602206	.2425911	299.6138
#2	.7279877	1.782940	1.421407	1.591307	.2439421	303.5335
#3	.7263880	1.710375	1.414947	1.590119	.2456458	300.0100

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.257043	.1871536	.2203020	38.83691	.7602186	.5073175
Stddev	.012548	.0012719	.0004203	.12601	.0034787	.0009673
%RSD	.5559516	.6796244	.1907665	.3244513	.4575941	.1906780
#1	2.255365	.1859417	.2207791	38.74518	.7624587	.5084216
#2	2.270346	.1870410	.2199865	38.98059	.7619861	.5069118
#3	2.245418	.1884781	.2201405	38.78497	.7562110	.5066190

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6033523	606.8060	10.82712	112.7390	1.079249	.0818723
Stddev	.0042841	8.2760	.07079	.3074	.002604	.0025822
%RSD	.7100511	1.363868	.6538646	.2726931	.2413148	3.153873
#1	.6055567	611.1105	10.80182	112.3848	1.082205	.0829301
#2	.5984148	612.0427	10.90709	112.9371	1.078250	.0837576
#3	.6060853	597.2649	10.77245	112.8950	1.077291	.0789292

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.715791	1.011962	1.569151	38.74822	^ *****	.3268411
Stddev	.095254	.004892	.005594	.52662	-----	.0005382
%RSD	1.666506	.4834038	.3564990	1.359091	-----	.1646716
#1	5.718997	1.009670	1.574616	39.03904	^ -----	.3273883
#2	5.809401	1.017579	1.569401	39.06530	^ -----	.3263124
#3	5.618974	1.008637	1.563436	38.14031	^ -----	.3268224

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01MSD Acquired: 10/7/2025 14:48:28 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.6781758	2.720512	2.702600	F 14.89890	4.551938	.9058955
Stddev	.0039090	.014179	.023809	.09116	.023716	.0054135
%RSD	.5764045	.5212032	.8809484	.6118652	.5210107	.5975887
#1	.6826830	2.710380	2.718603	14.99757	4.579318	.9039198
#2	.6757112	2.736717	2.713958	14.88133	4.538688	.9120194
#3	.6761332	2.714440	2.675240	14.81781	4.537807	.9017474

Elem	Sr4077
Units	ppm
Avg	-.247088
Stddev	.006102
%RSD	2.469668
#1	-.251357
#2	-.249809
#3	-.240099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8104.547	117721.3	9154.138	5943.291	7200.462
Stddev	20.145	750.0	47.919	50.087	22.223
%RSD	.2485624	.6370978	.5234711	.8427464	.3086317
#1	8081.830	117252.0	9203.016	5912.333	7175.128
#2	8111.574	117325.6	9152.160	5916.464	7209.590
#3	8120.237	118586.3	9107.239	6001.078	7216.667

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01A Acquired: 10/7/2025 14:52:25 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.8193877**	**2.178719**	**1.642195**	**1.870781**	**.7004759**	**311.0729**
Stddev	.0031607	.017253	.006673	.009496	.0029719	4.1809
%RSD	.3857353	.7918779	.4063548	.5075943	.4242706	1.344034
#1	.8206886	2.186802	1.636947	1.879377	.6991487	306.3261
#2	.8216903	2.190445	1.639932	1.872378	.6983988	314.2084
#3	.8157842	2.158908	1.649705	1.860587	.7038802	312.6842

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.690130**	**.2102270**	**.2534015**	**55.76946**	**.8486094**	**.6222770**
Stddev	.012900	.0007443	.0008178	.11993	.0022366	.0019729
%RSD	.4795430	.3540458	.3227151	.2150520	.2635634	.3170444
#1	2.702801	.2094978	.2527797	55.77073	.8479364	.6205399
#2	2.690578	.2101976	.2530970	55.88875	.8467865	.6218691
#3	2.677012	.2109855	.2543279	55.64889	.8511052	.6244219

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6765016**	**654.8802**	**13.64404**	**127.8808**	**1.245193**	**.0874742**
Stddev	.0027422	2.5788	.05296	.2793	.002699	.0008613
%RSD	.4053529	.3937843	.3881381	.2184030	.2167790	.9846376
#1	.6739470	656.9241	13.65072	127.6029	1.242342	.0875074
#2	.6761585	655.7337	13.69333	128.1614	1.245527	.0883184
#3	.6793992	651.9828	13.58805	127.8781	1.247709	.0865967

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.098955**	**1.129941**	**1.798825**	**40.64437**	**^ *****	**.3808372**
Stddev	.056130	.006445	.002138	.26842	-----	.0003782
%RSD	.9203223	.5703522	.1188583	.6604017	-----	.0993080
#1	6.154643	1.128557	1.797789	40.81862	^ -----	.3811909
#2	6.099830	1.136965	1.801284	40.77922	^ -----	.3808822
#3	6.042393	1.124301	1.797402	40.33526	^ -----	.3804385

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01A Acquired: 10/7/2025 14:52:25 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.8495361	3.578951	4.555587	F 17.48153	6.402448	1.015771
Stddev	.0021098	.006667	.005943	.03503	.010830	.005014
%RSD	.2483456	.1862959	.1304565	.2003881	.1691602	.4936183
#1	.8471758	3.585263	4.562417	17.44486	6.401575	1.017983
#2	.8512386	3.579611	4.552744	17.51465	6.413688	1.019299
#3	.8501939	3.571978	4.551599	17.48509	6.392080	1.010031

Elem	Sr4077
Units	ppm
Avg	-.242838
Stddev	.000480
%RSD	.1976156
#1	-.243016
#2	-.243204
#3	-.242295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8262.307	119753.0	9096.417	6124.527	7056.962
Stddev	7.145	211.1	43.382	22.642	13.803
%RSD	.0864714	.1763052	.4769157	.3696936	.1955874
#1	8270.172	119996.8	9146.407	6147.976	7072.537
#2	8260.529	119632.2	9074.207	6102.789	7052.103
#3	8256.219	119630.0	9068.637	6122.815	7046.246

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-01 Acquired: 10/7/2025 14:56:28 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.1157784	-.001301	1.291441	.0024810	-.015844	175.7197
Stddev	.0028522	.012272	.002536	.0010650	.000743	.1277
%RSD	2.463492	943.1282	.1963525	42.92673	4.688534	.0726496
#1	.1134476	.001822	1.288514	.0024774	-.015059	175.6657
#2	.1149287	.009108	1.292958	.0035477	-.016535	175.8655
#3	.1189589	-.014834	1.292851	.0014178	-.015937	175.6280

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284888	.0146331	.0262547	480.0199	.6779465	.2026530
Stddev	.005364	.0001199	.0003607	3.1656	.0025539	.0003485
%RSD	.4174595	.8193939	1.373644	.6594656	.3767114	.1719710
#1	1.291064	.0144981	.0265544	480.5305	.6767374	.2022925
#2	1.282207	.0147270	.0258545	476.6301	.6808804	.2026782
#3	1.281393	.0146743	.0263552	482.8992	.6762217	.2029882

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9692310	392.4833	6.097816	116.9787	.5459834	.0153407
Stddev	.0011486	.3414	.016505	.1634	.0005931	.0005586
%RSD	.1185073	.0869746	.2706689	.1396432	.1086226	3.641586
#1	.9685588	392.4044	6.115771	116.8776	.5452988	.0159780
#2	.9685769	392.1883	6.094371	117.1672	.5463140	.0151081
#3	.9705572	392.8572	6.083305	116.8913	.5463376	.0149359

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.48324	.6272338	2.185801	37.95132	.5730791	.0133605
Stddev	.03671	.0013904	.006105	.08715	.0034924	.0002784
%RSD	.1708621	.2216670	.2792990	.2296414	.6094138	2.083606
#1	21.47688	.6279722	2.179759	37.88918	.5729360	.0136185
#2	21.52271	.6256301	2.185679	38.05094	.5696605	.0130655
#3	21.45012	.6280993	2.191967	37.91384	.5766409	.0133976

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-01 Acquired: 10/7/2025 14:56:28 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.1441037	F 10.34384	F 16.51811	F 27.40704	F 57.86852	.2271370
Stddev	.0010354	.02471	.07434	.11721	.56131	.0016024
%RSD	.7185373	.2388915	.4500525	.4276697	.9699720	.7054558
#1	.1446532	10.36880	16.43669	27.49342	58.48575	.2288370
#2	.1429093	10.34334	16.53524	27.27361	57.38863	.2256546
#3	.1447485	10.31939	16.58238	27.45408	57.73117	.2269191

Elem	Sr4077
Units	ppm
Avg	1.324997
Stddev	.006753
%RSD	.5096346
#1	1.331080
#2	1.326180
#3	1.317731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7859.988	117066.1	9068.703	5921.289	6625.682
Stddev	2.751	318.8	16.728	8.686	4.603
%RSD	.0349995	.2723311	.1844561	.1466909	.0694689
#1	7861.451	117393.6	9066.730	5930.496	6630.992
#2	7861.697	116756.7	9053.048	5920.131	6623.224
#3	7856.814	117048.0	9086.329	5913.240	6622.829

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-03 Acquired: 10/7/2025 15:00:33 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.1657610**	**.0335229**	**5.356072**	**.0028070**	**.0504484**	**96.09938**
Stddev	.0024005	.0103638	.002586	.0018543	.0014799	.15753
%RSD	1.448174	30.91564	.0482744	66.05787	2.933492	.1639242
#1	.1667585	.0225550	5.354808	.0047117	.0520699	96.28099
#2	.1630226	.0431526	5.354362	.0010077	.0501047	96.01753
#3	.1675021	.0348611	5.359046	.0027017	.0491705	95.99962

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.608818**	**.0118174**	**.0126903**	F **3634.919**	**.1856405**	**.0765416**
Stddev	.005790	.0000822	.0002487	26.588	.0004827	.0004006
%RSD	.3599023	.6957688	1.959681	.7314567	.2600385	.5233898
#1	1.614549	.0118881	.0129522	3665.620	.1861972	.0769797
#2	1.608935	.0118370	.0126613	3619.658	.1853860	.0764510
#3	1.602970	.0117272	.0124574	3619.479	.1853382	.0761940

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6842379**	**153.8357**	**1.923092**	**174.0036**	**.2642652**	**.0008898**
Stddev	.0011956	.6908	.008912	.4271	.0005568	.0004123
%RSD	.1747307	.4490221	.4634158	.2454372	.2107124	46.33895
#1	.6834061	154.4867	1.929819	174.3334	.2648952	.0007567
#2	.6836997	153.9093	1.926473	174.1561	.2638389	.0005605
#3	.6856080	153.1111	1.912985	173.5212	.2640615	.0013523

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.23962**	**.5870433**	**2.937725**	**4.952385**	**.4938938**	**.0167445**
Stddev	.00855	.0050396	.003531	.037370	.0013359	.0010016
%RSD	.0698401	.8584785	.1201925	.7545764	.2704828	5.981728
#1	12.23546	.5926448	2.941782	4.909363	.4940958	.0173044
#2	12.24945	.5856085	2.935343	4.976783	.4951172	.0155881
#3	12.23395	.5828767	2.936051	4.971008	.4924684	.0173410

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-03 Acquired: 10/7/2025 15:00:33 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.0731329	6.239618	9.474564	F 20.93857	F 117.6996	-.493933
Stddev	.0016117	.017124	.019485	.09260	1.3036	.004022
%RSD	2.203770	.2744475	.2056524	.4422561	1.107586	.8143658
#1	.0715561	6.245048	9.496859	21.00498	118.9929	-.498569
#2	.0730652	6.253369	9.466030	20.97794	117.7201	-.491862
#3	.0747773	6.220437	9.460802	20.83279	116.3859	-.491367

Elem	Sr4077
Units	ppm
Avg	3.116733
Stddev	.035496
%RSD	1.138881
#1	3.113336
#2	3.153805
#3	3.083057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6219.051	91792.25	7620.340	4625.520	5547.828
Stddev	3.688	414.37	38.717	12.400	3.862
%RSD	.0592980	.4514258	.5080719	.2680792	.0696051
#1	6223.248	92038.70	7647.862	4627.943	5549.021
#2	6217.573	91313.85	7576.069	4612.087	5550.953
#3	6216.331	92024.21	7637.091	4636.530	5543.511

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3277-01 Acquired: 10/7/2025 15:04:51 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.1193689**	**-.021416**	**2.607112**	**.0004193**	**-.020980**	**148.6038**
Stddev	.0017582	.008693	.003453	.0039520	.001459	.3220
%RSD	1.472943	40.59121	.1324492	942.5731	6.952644	.2167111
#1	.1178954	-.012678	2.609902	-.000805	-.019434	148.9590
#2	.1213152	-.030064	2.603250	.004838	-.021174	148.5213
#3	.1188960	-.021506	2.608183	-.002776	-.022332	148.3310

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.286278**	**.0140544**	**.0195859**	**248.7488**	**.2973705**	**.1612747**
Stddev	.003355	.0001958	.0000765	.9212	.0011202	.0007049
%RSD	.2608552	1.393280	.3906285	.3703506	.3767119	.4370482
#1	1.290122	.0142773	.0196580	249.8121	.2985147	.1612691
#2	1.283935	.0139760	.0195056	248.2458	.2973209	.1619824
#3	1.284778	.0139100	.0195941	248.1886	.2962759	.1605727

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7617117**	**403.4873**	**5.275253**	**141.4965**	**.3414391**	**.0102621**
Stddev	.0008199	.6552	.028679	.2804	.0000210	.0008778
%RSD	.1076356	.1623862	.5436535	.1981614	.0061453	8.553708
#1	.7607696	403.2921	5.308171	141.7609	.3414159	.0098233
#2	.7621017	402.9519	5.255666	141.2025	.3414568	.0096903
#3	.7622638	404.2179	5.261921	141.5262	.3414446	.0112728

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.846167**	**.4794164**	**2.797330**	**17.72075**	**.4609148**	**.0075426**
Stddev	.024256	.0010453	.004569	.04330	.0031641	.0002442
%RSD	.2463477	.2180285	.1633452	.2443281	.6864797	3.237123
#1	9.873303	.4788207	2.802524	17.75703	.4608652	.0076823
#2	9.826592	.4806234	2.795537	17.73239	.4577758	.0072607
#3	9.838607	.4788052	2.793929	17.67282	.4641034	.0076848

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3277-01 Acquired: 10/7/2025 15:04:51 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.1458012**	**5.125039**	**3.240237**	F **10.78556**	**8.600017**	**.2424659**
Stddev	.0002895	.016863	.009755	.01353	.020380	.0002745
%RSD	.1985626	.3290312	.3010514	.1254480	.2369746	.1132117
#1	.1458079	5.142368	3.243964	10.78191	8.596093	.2427746
#2	.1460873	5.124065	3.247578	10.77422	8.581885	.2422493
#3	.1455084	5.108684	3.229168	10.80054	8.622074	.2423739

Elem	Sr4077
Units	ppm
Avg	**.2348700**
Stddev	.0032402
%RSD	1.379573
#1	.2383818
#2	.2342320
#3	.2319963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7731.505**	**114208.8**	**8827.686**	**5732.625**	**7015.575**
Stddev	13.666	74.3	44.386	25.694	2.945
%RSD	.1767522	.0650984	.5028068	.4482029	.0419817
#1	7741.992	114148.5	8776.663	5703.558	7012.379
#2	7736.472	114186.1	8849.000	5742.009	7018.179
#3	7716.050	114291.9	8857.395	5752.307	7016.169

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV03 Acquired: 10/7/2025 15:08:53 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**4.968566**	**4.851928**	**4.840549**	**5.066244**	**4.961310**	**10.02198**	**9.860090**
Stddev	.010470	.189252	.007426	.009789	.006776	.07969	.036878
%RSD	.2107279	3.900550	.1534189	.1932171	.1365724	.7951453	.3740160
#1	4.974789	5.033632	4.833987	5.077372	4.956763	9.97785	9.864804
#2	4.974431	4.866215	4.839050	5.058964	4.958070	9.97412	9.821082
#3	4.956478	4.655938	4.848610	5.062396	4.969098	10.11397	9.894385

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2527717**	**2.439556**	**25.09129**	**1.007330**	**2.423023**	**1.235573**	**5.124937**
Stddev	.0001952	.002260	.11917	.015193	.002711	.002876	.090015
%RSD	.0772303	.0926292	.4749421	1.508282	.1118796	.2327521	1.756415
#1	.2526027	2.436957	25.15034	1.024691	2.419929	1.232891	5.223245
#2	.2529854	2.440652	24.95413	.996464	2.424158	1.235219	5.046552
#3	.2527270	2.441058	25.16941	1.000834	2.424981	1.238610	5.105015

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.511735**	**25.13906**	**2.425805**	**1.252658**	**23.73337**	**2.537922**	**2.524642**
Stddev	.011149	.09225	.003729	.016296	.41920	.010570	.027475
%RSD	.4438928	.3669426	.1537034	1.300942	1.766269	.4164934	1.088271
#1	2.512444	25.12868	2.421502	1.271456	24.20523	2.541483	2.556305
#2	2.500248	25.05244	2.428101	1.243983	23.40397	2.526031	2.510542
#3	2.522513	25.23605	2.427810	1.242534	23.59091	2.546251	2.507081

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.22557**	**5.005526**	**5.035225**	**4.936412**	**5.019682**	**5.040679**	**4.877682**
Stddev	.41384	.013118	.004624	.008198	.014213	.081227	.030589
%RSD	1.708297	.2620659	.0918328	.1660762	.2831455	1.611421	.6271276
#1	24.67158	4.995008	5.038990	4.943554	5.025272	5.131059	4.908759
#2	23.85398	5.020225	5.030064	4.938221	5.003524	4.973778	4.876683
#3	24.15115	5.001346	5.036620	4.927460	5.030250	5.017200	4.847605

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV03 Acquired: 10/7/2025 15:08:53 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**5.034173**	**4.641587**	**4.964283**
Stddev	.045394	.019041	.024658
%RSD	.9017148	.4102360	.4966991
#1	5.080093	4.643868	4.952367
#2	5.033103	4.621508	4.992635
#3	4.989324	4.659386	4.947847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6948.995**	**98716.66**	**7135.243**	**5016.152**	**7971.754**
Stddev	10.225	1442.45	30.610	55.379	3.642
%RSD	.1471498	1.461197	.4289956	1.104010	.0456806
#1	6949.050	97120.54	7153.110	4952.882	7973.369
#2	6959.193	99926.96	7152.720	5055.817	7974.309
#3	6938.742	99102.49	7099.898	5039.757	7967.584

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB03 Acquired: 10/7/2025 15:12:56 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**-.002743**	**.0062210**	**.0004490**	**.0005665**	**-.002485**	**-.000426**	**-.003258**
Stddev	.001186	.0032755	.0005102	.0031109	.002244	.015284	.000672
%RSD	43.24599	52.65268	113.6234	549.1712	90.31890	3590.140	20.63879
#1	-.002574	.0065759	.0010005	.0040258	-.004469	.011422	-.003776
#2	-.004005	.0093046	-.000006	-.000325	-.000050	-.017678	-.002498
#3	-.001651	.0027825	.000353	-.002001	-.002935	.004979	-.003500

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000848**	**.0001717**	**.0181026**	**-.000378**	**.0000474**	**.0001004**	**.0216459**
Stddev	.0000518	.0001202	.0086771	.000257	.0001313	.0003230	.0041690
%RSD	61.03185	70.01231	47.93307	67.86965	276.6549	321.5761	19.25984
#1	.0001020	.0002471	.0120092	-.000453	.0001132	.0003413	.0206715
#2	.0000267	.0002348	.0142613	-.000589	.0001328	-.000267	.0262157
#3	.0001258	.0000331	.0280373	-.000092	-.000104	.000227	.0180503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001374**	**-.017064**	**-.000126**	**-.000192**	**-.063357**	**-.000659**	**-.000204**
Stddev	.0006014	.027406	.000231	.000422	.024758	.001677	.000128
%RSD	437.8468	160.6113	182.7566	220.2119	39.07754	254.4681	62.85736
#1	.0007374	-.045281	-.000092	-.000235	-.086967	-.000314	-.000299
#2	-.000465	.009452	.000085	-.000591	-.065512	.000819	-.000254
#3	.000140	-.015362	-.000373	.000250	-.037592	-.002482	-.000058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1220869**	**.0001153**	**-.000012**	**-.002092**	**.0000739**	**-.014906**	**-.000843**
Stddev	.0177777	.0005996	.000550	.000363	.0009658	.012073	.000061
%RSD	14.56149	519.9763	4630.595	17.35727	1306.716	80.98937	7.268210
#1	.1061193	.0006163	.000624	-.001907	-.001014	-.020856	-.000774
#2	.1412431	.0002786	-.000328	-.001859	.000831	-.001014	-.000865
#3	.1188982	-.000549	-.000331	-.002511	.000405	-.022849	-.000891

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB03 Acquired: 10/7/2025 15:12:56 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.0050917	.0019298	.0003449
Stddev	.0013589	.0014754	.0001067
%RSD	26.68936	76.45218	30.92903
#1	.0047558	.0029166	.0003210
#2	.0039322	.0026391	.0002523
#3	.0065871	.0002337	.0004616

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6697.014	102310.4	7255.834	5191.686	8391.120
Stddev	9.121	255.8	4.535	11.579	14.726
%RSD	.1361914	.2499907	.0624962	.2230390	.1754973
#1	6700.341	102192.9	7256.306	5192.721	8395.743
#2	6704.005	102134.5	7260.114	5179.623	8402.980
#3	6686.697	102603.8	7251.081	5202.712	8374.637

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3269-03 Acquired: 10/7/2025 15:17:30 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**-.005671**	**.0026185**	**.0348489**	**.0034782**	**-.000550**	**.0865927**	**.1911091**
Stddev	.001168	.0007199	.0019771	.0012961	.002720	.0214692	.0004652
%RSD	20.59773	27.49246	5.673319	37.26222	494.3225	24.79334	.2434357
#1	-.005185	.0018669	.0325746	.0044852	.001490	.0708318	.1914922
#2	-.007003	.0026869	.0361586	.0039335	.000497	.0779015	.1912436
#3	-.004824	.0033018	.0358134	.0020159	-.003638	.1110450	.1905914

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000029**	**.0014462**	**76.88526**	**-.000244**	**.0008620**	**.0740703**	**.0285259**
Stddev	.000023	.0000622	.15015	.000311	.0001867	.0004865	.0025228
%RSD	80.57599	4.299395	.1952886	127.2026	21.66039	.6568463	8.843994
#1	-.000002	.0014087	77.01467	-.000572	.0010735	.0739159	.0270230
#2	-.000039	.0015180	76.92048	.000047	.0007199	.0736796	.0271162
#3	-.000045	.0014120	76.72063	-.000208	.0007927	.0746153	.0314385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5062862**	**2.622006**	**.0177575**	**-.000695**	**243.6075**	**.0005984**	**.1298670**
Stddev	.0009270	.034937	.0001494	.000299	2.1752	.0033150	.0000870
%RSD	.1830964	1.332453	.8415319	43.00455	.8929244	553.9742	.0670190
#1	.5070824	2.642907	.0179161	-.000369	245.9904	.0043473	.1299646
#2	.5052685	2.641437	.0177373	-.000758	243.1036	-.001945	.1297974
#3	.5065075	2.581673	.0176192	-.000957	241.7284	-.000607	.1298389

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9090828**	**.0162727**	**.0005825**	**-.021423**	**-.003927**	**1.313496**	**.0313552**
Stddev	.0236638	.0006910	.0002385	.000835	.000463	.008642	.0017656
%RSD	2.603046	4.246298	40.94786	3.899020	11.79814	.6579022	5.630867
#1	.9103668	.0157425	.0003503	-.021126	-.004063	1.323004	.0297125
#2	.8848031	.0170541	.0005703	-.022367	-.003411	1.311364	.0332222
#3	.9320785	.0160213	.0008268	-.020777	-.004307	1.306120	.0311309

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3269-03 Acquired: 10/7/2025 15:17:30 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.6952565	-.011238	.2498038
Stddev	.0022844	.001531	.0013186
%RSD	.3285664	13.62508	.5278605
#1	.6946197	-.009479	.2513169
#2	.6977918	-.012267	.2491941
#3	.6933582	-.011969	.2489004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6678.505	99928.23	7259.091	5069.805	7632.794
Stddev	13.404	291.35	52.020	11.253	15.490
%RSD	.2006966	.2915587	.7166152	.2219645	.2029402
#1	6666.372	99601.57	7311.195	5057.688	7622.825
#2	6692.893	100161.3	7207.155	5071.801	7650.640
#3	6676.250	100021.9	7258.922	5079.927	7624.918

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3269-06 Acquired: 10/7/2025 15:21:53 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**-.004835**	**.0055699**	**.0263913**	**.0060470**	**.0001583**	**.1112401**	**.3020003**
Stddev	.002646	.0010367	.0010344	.0026532	.0009580	.0081590	.0020864
%RSD	54.72465	18.61315	3.919570	43.87696	605.1472	7.334619	.6908734
#1	-.007783	.0046983	.0253289	.0090233	.0012371	.1126982	.3002296
#2	-.002668	.0067164	.0273952	.0039297	-.000593	.1185717	.3043004
#3	-.004053	.0052950	.0264500	.0051880	-.000169	.1024503	.3014707

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0001464**	**18.37520**	**-.000308**	**.0005130**	**.0119122**	**.0108315**
Stddev	.000079	.0000802	.02297	.000204	.0001149	.0003620	.0048345
%RSD	1010.661	54.80005	.1249870	66.28336	22.40258	3.038759	44.63353
#1	-.000022	.0002249	18.34952	-.000201	.0005876	.0119090	.0151758
#2	.000077	.0000646	18.39375	-.000179	.0005708	.0115519	.0116953
#3	-.000079	.0001497	18.38235	-.000543	.0003807	.0122758	.0056234

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1063623**	**2.317367**	**.0011239**	**-.000237**	**255.3578**	**-.003750**	**.0444755**
Stddev	.0014324	.019577	.0003372	.000726	1.7664	.003528	.0001889
%RSD	1.346706	.8448059	30.00274	305.8768	.6917162	94.08416	.4246225
#1	.1074955	2.324964	.0013168	.000070	256.7460	-.002136	.0443364
#2	.1047523	2.295130	.0013204	-.001066	255.9577	-.007796	.0443995
#3	.1068391	2.332007	.0007346	.000285	253.3696	-.001318	.0446905

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.311042**	**.0179313**	**.0007891**	**-.021211**	**-.002433**	**.9814241**	**.0124080**
Stddev	.020208	.0003214	.0002234	.000312	.002296	.0026905	.0015412
%RSD	1.541366	1.792244	28.30520	1.473159	94.36886	.2741396	12.42100
#1	1.309137	.0179113	.0008291	-.020855	-.000864	.9788545	.0136544
#2	1.291853	.0176204	.0005485	-.021337	-.005069	.9842210	.0106848
#3	1.332134	.0182623	.0009898	-.021441	-.001367	.9811969	.0128849

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3269-06 Acquired: 10/7/2025 15:21:53 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.2154738**	**-.004424**	**.0605029**
Stddev	.0017345	.001318	.0001217
%RSD	.8049653	29.77853	.2011122
#1	.2156462	-.003090	.0603828
#2	.2171157	-.005724	.0606261
#3	.2136596	-.004459	.0604998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6679.753**	**97391.93**	**7163.817**	**4976.558**	**7681.478**
Stddev	28.111	289.84	38.505	7.772	30.187
%RSD	.4208377	.2976059	.5374917	.1561814	.3929907
#1	6647.297	97721.87	7148.585	4982.618	7647.176
#2	6696.393	97178.35	7207.607	4979.260	7703.998
#3	6695.569	97275.56	7135.258	4967.795	7693.259

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3281-01 Acquired: 10/7/2025 15:26:18 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**-.003655**	**.0072865**	**.0041990**	**-.000860**	**.0011843**	**.5940987**
Stddev	.000576	.0019767	.0011870	.004900	.0011137	.0066153
%RSD	15.76846	27.12885	28.26808	570.1175	94.03865	1.113511
#1	-.004053	.0084346	.0047390	-.006119	.0007889	.5888119
#2	-.003918	.0084210	.0050200	.003578	.0024418	.5919672
#3	-.002994	.0050040	.0028380	-.000038	.0003223	.6015171

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0397328**	**-.000086**	**.0000623**	**161.3644**	**.0040516**	**.0023570**
Stddev	.0016021	.000093	.0000747	.3915	.0004467	.0002851
%RSD	4.032214	108.6639	119.8447	.2425881	11.02635	12.09390
#1	.0413370	-.000149	.0000013	160.9501	.0039802	.0024764
#2	.0381328	.000021	.0000400	161.7281	.0036448	.0020317
#3	.0397287	-.000131	.0001456	161.4151	.0045297	.0025630

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0203638**	**2.760397**	**.4460509**	**8.150084**	**.0089722**	**-.000760**
Stddev	.0002325	.008671	.0026915	.077837	.0001747	.000410
%RSD	1.141712	.3141079	.6034067	.9550505	1.947116	53.95894
#1	.0201514	2.766280	.4435253	8.071314	.0088795	-.000299
#2	.0206122	2.764472	.4488822	8.226954	.0088634	-.001083
#3	.0203276	2.750440	.4457453	8.151985	.0091737	-.000898

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.26867**	**-.001101**	**.0747382**	**20.71951**	**.1062010**	**.0044598**
Stddev	.13869	.001656	.0002274	.07258	.0008557	.0000287
%RSD	.3063624	150.4687	.3042051	.3502818	.8057823	.6433613
#1	45.12289	-.000718	.0749898	20.65503	.1071812	.0044834
#2	45.28414	-.002915	.0745474	20.79811	.1056032	.0044681
#3	45.39897	.000330	.0746775	20.70538	.1058185	.0044278

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3281-01 Acquired: 10/7/2025 15:26:18 Type: Unk
Method: 6010-200.7 NEW(v263) 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	-.016489	.0223481	F 16.64931	.5605046	F 12.54968	-.012907
Stddev	.000646	.0021248	.01273	.0010706	.06445	.001389
%RSD	3.916647	9.507576	.0764792	.1910076	.5135328	10.75993
#1	-.016951	.0216669	16.64573	.5597998	12.48247	-.011360
#2	-.015751	.0247299	16.66344	.5599774	12.61096	-.013318
#3	-.016765	.0206474	16.63874	.5617366	12.55561	-.014045

Elem	Sr4077
Units	ppm
Avg	.4728818
Stddev	.0016890
%RSD	.3571649
#1	.4710071
#2	.4742847
#3	.4733537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6779.733	96173.43	7223.318	4813.730	8013.348
Stddev	15.106	171.30	9.396	19.234	19.458
%RSD	.2228047	.1781185	.1300799	.3995685	.2428180
#1	6796.952	95993.10	7226.949	4791.520	8032.940
#2	6768.716	96193.20	7212.648	4824.904	7994.028
#3	6773.532	96333.99	7230.357	4824.764	8013.075

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3281-02 Acquired: 10/7/2025 15:30:31 Type: Unk
Method: 6010-200.7 NEW(v263) 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	-.004621	.0048897	.0046132	-.000656	-.000384	.5080383
Stddev	.001386	.0028755	.0009576	.002849	.002302	.0076142
%RSD	29.99627	58.80778	20.75913	434.3373	598.6546	1.498753
#1	-.004201	.0051733	.0056847	-.002850	.002075	.5151509
#2	-.003493	.0018829	.0043138	.002564	-.002486	.5089581
#3	-.006169	.0076130	.0038410	-.001682	-.000743	.5000060

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0456757	-.000091	.0000497	167.0708	.0016604	.0024659
Stddev	.0015031	.000009	.0001342	.2782	.0006803	.0002968
%RSD	3.290724	10.44415	270.0914	.1665005	40.97228	12.03501
#1	.0473093	-.000080	.0000577	167.2689	.0011466	.0026263
#2	.0453665	-.000097	.0001797	167.1907	.0014028	.0026480
#3	.0443513	-.000096	-.000088	166.7528	.0024320	.0021234

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067779	3.133621	.4782055	8.295933	.0091073	-.000600
Stddev	.0002564	.008187	.0006172	.031846	.0002102	.000613
%RSD	3.782453	.2612715	.1290584	.3838697	2.307493	102.2902
#1	.0064831	3.124327	.4776170	8.260820	.0088690	-.001281
#2	.0069017	3.136766	.4788478	8.322947	.0092664	-.000091
#3	.0069487	3.139769	.4781518	8.304032	.0091863	-.000427

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.65558	.0036631	.0757579	20.06786	.0990373	.0028762
Stddev	.29424	.0015817	.0001875	.12806	.0006332	.0002490
%RSD	.6740012	43.17907	.2475025	.6381526	.6393167	8.657168
#1	43.80298	.0023881	.0759437	20.06731	.0988003	.0029025
#2	43.84698	.0054330	.0757613	20.19620	.0997548	.0031109
#3	43.31677	.0031680	.0755687	19.94008	.0985569	.0026150

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3281-02 Acquired: 10/7/2025 15:30:31 Type: Unk
Method: 6010-200.7 NEW(v263) 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	-.020138	.0120465	F 15.97997	.4001359	F 11.79825	-.015305
Stddev	.000327	.0016332	.11588	.0018639	.09168	.000750
%RSD	1.622775	13.55768	.7251456	.4658129	.7770766	4.903433
#1	-.019769	.0135787	15.96693	.4009507	11.80200	-.014439
#2	-.020391	.0103282	16.10181	.4014537	11.88800	-.015763
#3	-.020254	.0122328	15.87116	.3980034	11.70475	-.015713

Elem	Sr4077
Units	ppm
Avg	.4660031
Stddev	.0006708
%RSD	.1439559
#1	.4665484
#2	.4662071
#3	.4652540

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6722.934	96172.33	7121.575	4838.386	7908.859
Stddev	7.978	249.36	24.135	17.306	8.187
%RSD	.1186672	.2592869	.3388948	.3576797	.1035187
#1	6720.805	96460.13	7134.570	4839.038	7906.665
#2	6716.237	96020.69	7136.427	4855.357	7901.992
#3	6731.761	96036.17	7093.727	4820.764	7917.919

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-03DLX25 Acquired: 10/7/2025 15:34:44 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**.0006399**	**.0063458**	**.2068247**	**.0005948**	**-.000421**	**4.158301**	**.0597531**
Stddev	.0008214	.0008384	.0013083	.0020208	.000302	.008151	.0015188
%RSD	128.3713	13.21237	.6325742	339.7145	71.78311	.1960115	2.541853
#1	.0015627	.0073081	.2063326	.0004466	-.000759	4.156098	.0593919
#2	-.000011	.0059561	.2083077	.0026857	-.000177	4.151478	.0614200
#3	.000368	.0057730	.2058338	-.001348	-.000327	4.167327	.0584474

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006025**	**.0003473**	**177.4051**	**.0080836**	**.0027918**	**.0339597**	**6.391212**
Stddev	.0000773	.0000274	.5485	.0001705	.0001115	.0003685	.034200
%RSD	12.82260	7.897793	.3091873	2.109155	3.993186	1.085008	.5351161
#1	.0005146	.0003749	177.9060	.0081422	.0027118	.0343734	6.362421
#2	.0006594	.0003200	177.4905	.0082171	.0029191	.0336668	6.429016
#3	.0006336	.0003470	176.8190	.0078916	.0027443	.0338390	6.382199

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0918004**	**8.244330**	**.0096450**	**-.000796**	**.1056115**	**.0246590**	**.1229374**
Stddev	.0010605	.082767	.0001514	.000265	.0338491	.0053831	.0008096
%RSD	1.155256	1.003929	1.570162	33.21831	32.05061	21.83016	.6585193
#1	.0911640	8.334567	.0097300	-.000513	.1250054	.0196883	.1234992
#2	.0930247	8.226477	.0097348	-.000840	.0665263	.0303765	.1233036
#3	.0912124	8.171946	.0094701	-.001036	.1253028	.0239122	.1220095

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.146908**	**.0169017**	**.0012434**	**-.019743**	**.2832160**	**.3371057**	**.6683253**
Stddev	.049336	.0010420	.0002050	.000803	.0012514	.0073386	.0024905
%RSD	33.58302	6.164981	16.48531	4.069080	.4418382	2.176943	.3726455
#1	-.173077	.0172938	.0012008	-.020250	.2819778	.3445207	.6657007
#2	-.090000	.0176908	.0010631	-.018817	.2844801	.3369506	.6686197
#3	-.177645	.0157206	.0014664	-.020163	.2831900	.3298460	.6706555

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3272-03DLX25 Acquired: 10/7/2025 15:34:44 Type: Unk
Method: 6010-200.7 NEW(v263) 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	**3.616600**	**-.028659**	**.1362806**
Stddev	.016088	.000881	.0001754
%RSD	.4448307	3.073465	.1286813
#1	3.634211	-.027825	.1363439
#2	3.602676	-.028573	.1364155
#3	3.612913	-.029580	.1360823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6925.217**	**104679.0**	**7270.710**	**5291.484**	**8137.333**
Stddev	12.542	238.4	22.108	8.614	9.981
%RSD	.1811025	.2277308	.3040646	.1627849	.1226522
#1	6919.002	104686.5	7260.343	5283.604	8132.378
#2	6939.652	104437.0	7255.691	5290.168	8148.821
#3	6916.996	104913.6	7296.096	5300.680	8130.799

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01DUP Acquired: 10/7/2025 15:38:56 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.0852808	-.011917	.5606609	.0126162	-.042309	322.1982
Stddev	.0009108	.002595	.0054792	.0022578	.000610	1.1124
%RSD	1.068014	21.77111	.9772829	17.89609	1.441272	.3452519
#1	.0855355	-.009358	.5578519	.0101150	-.041662	320.9374
#2	.0842698	-.011848	.5571558	.0132297	-.042392	323.0413
#3	.0860372	-.014546	.5669750	.0145039	-.042873	322.6160

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.536558	.0292466	.0273359	55.69519	.4888625	.4049805
Stddev	.016019	.0003096	.0008161	.21418	.0035647	.0004369
%RSD	.6315399	1.058491	2.985462	.3845650	.7291816	.1078860
#1	2.536445	.0289157	.0266829	55.59933	.4929559	.4045526
#2	2.520596	.0292947	.0270741	55.54569	.4871903	.4049630
#3	2.552634	.0295292	.0282508	55.94057	.4864414	.4054259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4164941	659.5653	13.55279	128.6721	.6999542	.0147804
Stddev	.0041632	6.9106	.09061	.5320	.0012817	.0018238
%RSD	.9995730	1.047748	.6686014	.4134512	.1831061	12.33917
#1	.4117342	666.7396	13.51429	128.2450	.6988036	.0152779
#2	.4182913	652.9528	13.48778	128.5033	.6997234	.0127595
#3	.4194568	659.0034	13.65629	129.2680	.7013356	.0163037

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.610266	.8837995	1.641979	32.66520	^ *****	.0065805
Stddev	.051181	.0026747	.014668	.45841	-----	.0002026
%RSD	1.417644	.3026313	.8932964	1.403370	-----	3.079439
#1	3.667035	.8808757	1.658681	33.19146	^ -----	.0068098
#2	3.567655	.8861230	1.631196	32.35277	^ -----	.0065066
#3	3.596108	.8843998	1.636058	32.45137	^ -----	.0064253

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3271-01DUP Acquired: 10/7/2025 15:38:56 Type: Unk
Method: 6010-200.7 NEW(v263) 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	.0301847	4.185034	F 19.87551	F 11.17885	6.659720	.8430563
Stddev	.0002998	.037680	.24729	.07843	.039533	.0062061
%RSD	.9933530	.9003454	1.244204	.7016203	.5936069	.7361407
#1	.0300084	4.171469	20.15344	11.09207	6.614344	.8434265
#2	.0300148	4.156015	19.79324	11.19979	6.678089	.8366734
#3	.0305309	4.227618	19.67983	11.24469	6.686725	.8490690

Elem	Sr4077
Units	ppm
Avg	-.420316
Stddev	.006326
%RSD	1.504972
#1	-.427295
#2	-.414961
#3	-.418691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8276.051	121006.2	9258.166	6086.215	7022.237
Stddev	23.214	631.6	111.366	45.632	21.107
%RSD	.2804999	.5219697	1.202892	.7497558	.3005729
#1	8299.754	120277.1	9380.729	6033.599	7044.319
#2	8275.040	121384.4	9230.589	6110.095	7020.127
#3	8253.359	121357.2	9163.180	6114.952	7002.264

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169982BL Acquired: 10/7/2025 15:43:48 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**-.002573**	**.0040927**	**-.001399**	**-.000460**	**-.003195**	**.0027171**
Stddev	.000557	.0011055	.000443	.001392	.000987	.0077551
%RSD	21.65146	27.01195	31.68530	302.9811	30.90121	285.4185
#1	-.002095	.0031639	-.001305	.001133	-.004269	.0107929
#2	-.003185	.0053155	-.001010	-.001061	-.002328	.0020298
#3	-.002440	.0037988	-.001882	-.001450	-.002988	-.004671

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011473**	**.0000825**	**.0000356**	**-.003938**	**-.000433**	**.0000645**
Stddev	.001109	.0000435	.0001233	.006781	.000147	.0001430
%RSD	9.665831	52.80086	345.7862	172.2097	33.93272	221.7220
#1	-.010812	.0001189	.0000946	-.008131	-.000596	.0001943
#2	-.012754	.0000342	.0001184	.003886	-.000392	.0000880
#3	-.010855	.0000943	-.000106	-.007568	-.000311	-.000089

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001476**	**.0212477**	**-.000680**	**-.019691**	**-.000097**	**-.000413**
Stddev	.0002424	.0054559	.000880	.023686	.000098	.000303
%RSD	164.1914	25.67747	129.3842	120.2896	101.0450	73.53456
#1	.0004202	.0192867	-.000312	-.002854	-.000011	-.000131
#2	.0000661	.0170434	-.000044	-.009443	-.000076	-.000734
#3	-.000044	.0274131	-.001684	-.046776	-.000204	-.000373

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3250998**	**-.001679**	**-.000555**	**.3549671**	**-.004489**	**-.000541**
Stddev	.0145983	.000815	.000125	.0475513	.000269	.000192
%RSD	4.490402	48.52877	22.52332	13.39598	6.003445	35.55323
#1	.3184342	-.001757	-.000443	.3006107	-.004768	-.000640
#2	.3150242	-.000828	-.000690	.3754249	-.004230	-.000319
#3	.3418411	-.002453	-.000533	.3888658	-.004468	-.000663

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169982BL Acquired: 10/7/2025 15:43:48 Type: Unk
Method: 6010-200.7 NEW(v264) 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	-.003159	-.000141	-.013655	.0005001	F .0460977	.0045135
Stddev	.000250	.000758	.007749	.0005800	.0026291	.0020434
%RSD	7.900940	535.9204	56.74295	115.9640	5.703407	45.27285
#1	-.003143	.000435	-.014204	.0002847	.0490514	.0025331
#2	-.002918	-.001000	-.021115	.0000587	.0452282	.0066145
#3	-.003417	.000141	-.005647	.0011570	.0440134	.0043928

Elem	Sr4077
Units	ppm
Avg	-.000093
Stddev	.000025
%RSD	27.14087
#1	-.000064
#2	-.000105
#3	-.000109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7116.254	105760.1	7379.394	5332.144	8845.710
Stddev	21.964	110.1	37.261	7.317	31.385
%RSD	.3086393	.1040602	.5049356	.1372309	.3548024
#1	7093.778	105764.7	7386.117	5339.057	8815.653
#2	7137.666	105867.8	7412.836	5332.894	8878.272
#3	7117.316	105647.9	7339.229	5324.481	8843.206

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169982BS Acquired: 10/7/2025 15:48:08 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**.8019742**	**1.804305**	**.9552822**	**2.053357**	**.8244812**	**1.970600**
Stddev	.0073216	.152204	.0063720	.017958	.0069475	.013847
%RSD	.9129427	8.435593	.6670240	.8745700	.8426466	.7026811
#1	.8071614	1.678035	.9623426	2.061171	.8322163	1.956041
#2	.8051619	1.973307	.9535453	2.066084	.8224557	1.972157
#3	.7935991	1.761571	.9499588	2.032816	.8187716	1.983603

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1770545**	**.2221849**	**.1927006**	**1.023910**	**.4501999**	**.1948530**
Stddev	.0011422	.0020489	.0013739	.019214	.0007210	.0014499
%RSD	.6450939	.9221763	.7129494	1.876552	.1601421	.7441106
#1	.1765562	.2210148	.1941379	1.005706	.4506828	.1964795
#2	.1783612	.2245508	.1925633	1.043996	.4493712	.1943835
#3	.1762462	.2209892	.1914005	1.022028	.4505457	.1936960

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3127352**	**3.226005**	**.2049819**	**2.016902**	**.5045726**	**.0795607**
Stddev	.0018120	.013494	.0010167	.013613	.0037035	.0004124
%RSD	.5794129	.4182942	.4959995	.6749389	.7339859	.5183600
#1	.3145582	3.241078	.2058651	2.004149	.5085594	.0790847
#2	.3127128	3.215047	.2052102	2.031236	.5039187	.0797867
#3	.3109344	3.221891	.2038705	2.015321	.5012395	.0798108

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.683332**	**.3027021**	**.2201589**	**9.783024**	**.3227460**	**.4244988**
Stddev	.042810	.0022712	.0006278	.050303	.0042426	.0030647
%RSD	1.595398	.7503183	.2851390	.5141890	1.314524	.7219532
#1	2.732512	.3021543	.2194349	9.825690	.3203787	.4270838
#2	2.663069	.3051971	.2204912	9.727557	.3276440	.4252993
#3	2.654416	.3007548	.2205507	9.795824	.3202153	.4211133

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169982BS Acquired: 10/7/2025 15:48:08 Type: Unk
Method: 6010-200.7 NEW(v264) 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	.6939386	.1991299	.8854225	5.601461	F .0020681	.1945565
Stddev	.0067510	.0012275	.0089574	.054731	.0030781	.0006066
%RSD	.9728495	.6164199	1.011657	.9770859	148.8418	.3117815
#1	.6993401	.2002497	.8951385	5.633732	-.001020	.1952153
#2	.6961054	.1993225	.8774928	5.632383	.005136	.1940210
#3	.6863702	.1978175	.8836361	5.538267	.002088	.1944333

Elem	Sr4077
Units	ppm
Avg	.1902691
Stddev	.0012356
%RSD	.6493862
#1	.1910690
#2	.1908922
#3	.1888460

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7036.578	93224.07	6723.119	4762.728	8546.964
Stddev	29.126	329.95	51.473	14.076	41.039
%RSD	.4139245	.3539370	.7656141	.2955418	.4801560
#1	7004.168	93213.47	6768.276	4765.365	8500.389
#2	7045.001	93559.21	6667.072	4775.299	8562.682
#3	7060.564	92899.55	6734.007	4747.520	8577.821

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169979BL Acquired: 10/7/2025 15:52:09 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**-.002857**	**.0040563**	**.0009243**	**.0019726**	**-.001715**	**.0011464**	**-.007533**
Stddev	.000387	.0025364	.0005591	.0018618	.001749	.0082116	.001950
%RSD	13.54425	62.52998	60.48469	94.38555	101.9959	716.3099	25.89059
#1	-.002611	.0062140	.0003627	.0011750	-.001010	.0040189	-.009161
#2	-.003302	.0012623	.0009295	.0041003	-.000428	-.008116	-.008067
#3	-.002657	.0046927	.0014808	.0006424	-.003707	.007536	-.005372

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001062**	**.0001124**	**-.007371**	**-.000399**	**-.000049**	**-.000123**	**.0035586**
Stddev	.0000523	.0000843	.006211	.000361	.000137	.000043	.0132134
%RSD	49.21137	74.97585	84.26523	90.54521	277.8701	34.78482	371.3099
#1	.0001324	.0001819	-.001076	.000011	-.000100	-.000116	-.002409
#2	.0001402	.0001367	-.013494	-.000671	-.000154	-.000169	-.005619
#3	.0000460	.0000186	-.007541	-.000538	.000106	-.000084	.018703

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000854**	**-.024319**	**-.000267**	**-.000098**	**-.028742**	**-.001200**	**-.000341**
Stddev	.000435	.021808	.000247	.000396	.025904	.001743	.000207
%RSD	51.00040	89.67645	92.49297	402.9779	90.12477	145.2005	60.58923
#1	-.000370	-.048653	-.000490	.000270	-.035455	.000274	-.000390
#2	-.000977	-.006541	-.000002	-.000517	-.050629	-.003124	-.000519
#3	-.001214	-.017762	-.000310	-.000048	-.000143	-.000751	-.000114

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2755285**	**-.004553**	**-.000346**	**-.002198**	**.0005631**	**-.007508**	**-.000865**
Stddev	.0299394	.000498	.000128	.000199	.0001822	.004511	.000539
%RSD	10.86615	10.93706	37.05424	9.030900	32.35689	60.08016	62.23663
#1	.3100702	-.004699	-.000294	-.002008	.0007699	-.002368	-.001417
#2	.2594912	-.003998	-.000252	-.002182	.0004261	-.009346	-.000839
#3	.2570243	-.004962	-.000492	-.002404	.0004934	-.010810	-.000341

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169979BL Acquired: 10/7/2025 15:52:09 Type: Unk
Method: 6010-200.7 NEW(v264) 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	.0010225	.0023661	-.000084
Stddev	.0014572	.0013409	.000160
%RSD	142.5240	56.67226	191.5926
#1	.0023558	.0013137	-.000165
#2	.0012447	.0038759	.000101
#3	-.000533	.0019087	-.000187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6795.465	94263.48	7346.398	4792.197	8547.981
Stddev	17.542	129.52	35.898	6.138	24.569
%RSD	.2581463	.1374024	.4886479	.1280919	.2874268
#1	6804.032	94115.29	7341.441	4787.513	8558.598
#2	6807.078	94320.13	7384.517	4799.146	8565.457
#3	6775.286	94355.03	7313.236	4789.931	8519.889

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169979BS Acquired: 10/7/2025 15:56:28 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**.7928074**	**1.689602**	**.9480421**	**2.043955**	**.8204844**	**1.955612**	**.1818169**
Stddev	.0015272	.113401	.0014116	.006575	.0017776	.008894	.0013597
%RSD	.1926309	6.711692	.1488924	.3216881	.2166550	.4547923	.7478177
#1	.7945245	1.820238	.9495631	2.051317	.8184418	1.946209	.1826004
#2	.7916012	1.632063	.9477890	2.038667	.8213303	1.963889	.1802469
#3	.7922964	1.616506	.9467743	2.041882	.8216811	1.956739	.1826034

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2081009**	**.1905969**	**1.006269**	**.4421772**	**.1932200**	**.3108617**	**3.143535**
Stddev	.0004746	.0002369	.011395	.0019687	.0003330	.0002817	.010691
%RSD	.2280479	.1242925	1.132430	.4452301	.1723339	.0906360	.3401046
#1	.2076711	.1907794	1.013593	.4407341	.1928660	.3107973	3.140595
#2	.2080214	.1903292	1.012075	.4444199	.1932669	.3106177	3.155389
#3	.2086102	.1906821	.993140	.4413776	.1935270	.3111701	3.134621

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2051545**	**1.991688**	**.5047055**	**.0756023**	**2.625184**	**.2998229**	**.2065097**
Stddev	.0006257	.022709	.0008428	.0003421	.041614	.0021048	.0009346
%RSD	.3049810	1.140201	.1669897	.4524724	1.585169	.7020128	.4525935
#1	.2055955	1.997699	.5037506	.0759929	2.654654	.2990239	.2075012
#2	.2044384	1.966577	.5053453	.0754576	2.643316	.2982345	.2063831
#3	.2054296	2.010787	.5050207	.0753563	2.577580	.3022102	.2056447

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.299444**	**.3054623**	**.4215549**	**.6838173**	**.1973747**	**.8498080**	**5.555881**
Stddev	.080792	.0010096	.0010040	.0008331	.0017856	.0167739	.010740
%RSD	.8687871	.3305114	.2381653	.1218240	.9046677	1.973846	.1933028
#1	9.329076	.3048781	.4215453	.6843809	.1990077	.8304637	5.566969
#2	9.361237	.3048808	.4205558	.6828604	.1954682	.8603241	5.545528
#3	9.208020	.3066281	.4225637	.6842105	.1976484	.8586362	5.555146

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169979BS Acquired: 10/7/2025 15:56:28 Type: Unk
Method: 6010-200.7 NEW(v264) 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	F -.002083	.1929793	.1915983
Stddev	.000389	.0030618	.0010254
%RSD	18.66020	1.586585	.5351712
#1	-.001826	.1964442	.1927739
#2	-.002530	.1906383	.1908883
#3	-.001893	.1918554	.1911328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6999.477	101643.1	7133.975	5145.102	8537.727
Stddev	4.218	474.0	25.324	28.522	4.274
%RSD	.0602560	.4663442	.3549762	.5543479	.0500644
#1	6999.347	102004.5	7157.576	5140.523	8534.043
#2	7003.758	101106.4	7107.223	5119.147	8536.724
#3	6995.326	101818.3	7137.126	5175.636	8542.414

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV04 Acquired: 10/7/2025 16:00:29 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**5.085179**	**4.996549**	**4.953561**	**5.178178**	**5.081176**	**9.977807**	**9.923324**
Stddev	.013404	.074790	.009246	.012158	.022176	.018245	.046298
%RSD	.2635802	1.496834	.1866509	.2347858	.4364268	.1828518	.4665617
#1	5.098198	5.035469	4.960952	5.189167	5.100434	9.977064	9.932419
#2	5.085916	5.043853	4.956538	5.180250	5.086161	9.959945	9.873153
#3	5.071421	4.910324	4.943194	5.165118	5.056932	9.996411	9.964400

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2542849**	**2.494505**	**25.10770**	**1.017810**	**2.480004**	**1.263749**	**5.084249**
Stddev	.0035956	.008078	.11145	.002918	.008594	.003797	.057514
%RSD	1.414010	.3238372	.4438917	.2867225	.3465282	.3004499	1.131214
#1	.2506919	2.500245	25.14671	1.017760	2.485903	1.267117	5.150605
#2	.2542796	2.498002	24.98199	1.014917	2.483964	1.264496	5.053413
#3	.2578832	2.485267	25.19440	1.020753	2.470143	1.259634	5.048728

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.529374**	**25.15314**	**2.480195**	**1.264026**	**23.66358**	**2.541888**	**2.552759**
Stddev	.014322	.10131	.006924	.001152	.19395	.018630	.001683
%RSD	.5662450	.4027896	.2791713	.0911045	.8196218	.7329161	.0659299
#1	2.522511	25.06303	2.484769	1.262930	23.88750	2.534088	2.552016
#2	2.519773	25.13357	2.483586	1.263920	23.55465	2.528426	2.551576
#3	2.545836	25.26281	2.472229	1.265226	23.54857	2.563150	2.554686

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.32142**	**5.041431**	**5.147429**	**5.047325**	**5.046099**	**5.004874**	**4.998238**
Stddev	.14434	.071042	.015280	.013397	.016577	.044411	.011349
%RSD	.5934585	1.409168	.2968484	.2654245	.3285185	.8873593	.2270579
#1	24.47829	4.967509	5.160248	5.054897	5.052733	5.049687	5.010647
#2	24.29172	5.047593	5.151519	5.055220	5.027232	5.004060	4.995682
#3	24.19424	5.109192	5.130520	5.031856	5.058333	4.960876	4.988386

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV04 Acquired: 10/7/2025 16:00:29 Type: Unk
Method: 6010-200.7 NEW(v264) 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	**5.138194**	**4.676038**	**4.947852**
Stddev	.015704	.022877	.044134
%RSD	.3056334	.4892363	.8919785
#1	5.156174	4.679989	4.998055
#2	5.131241	4.651443	4.915165
#3	5.127166	4.696683	4.930337

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6871.803**	**99395.66**	**7153.916**	**5037.988**	**7873.270**
Stddev	16.321	35.92	80.100	15.038	19.613
%RSD	.2375111	.0361394	1.119674	.2984993	.2491104
#1	6863.447	99374.08	7231.363	5020.636	7865.002
#2	6861.351	99375.78	7158.982	5047.242	7859.145
#3	6890.610	99437.13	7071.402	5046.087	7895.664

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB04 Acquired: 10/7/2025 16:04:40 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**-.003377**	**.0055063**	**-.000364**	**.0020525**	**-.002656**	**-.010126**	**-.012521**
Stddev	.000797	.0030765	.000579	.0024552	.002017	.017370	.002629
%RSD	23.58346	55.87173	158.8593	119.6187	75.95971	171.5362	20.99424
#1	-.003178	.0037096	-.000626	-.000696	-.004985	-.010784	-.015362
#2	-.004255	.0037507	.000299	.004029	-.001463	.007563	-.012027
#3	-.002700	.0090586	-.000766	.002824	-.001519	-.027158	-.010175

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001390**	**.0001534**	**.0008278**	**-.000295**	**.0002666**	**.0002102**	**.0019765**
Stddev	.0000586	.0000379	.0102464	.000171	.0000529	.0002155	.0031749
%RSD	42.11164	24.73200	1237.821	57.72487	19.84756	102.5400	160.6348
#1	.0001788	.0001131	-.010677	-.000144	.0003060	-.000038	.0038372
#2	.0000718	.0001884	.008971	-.000262	.0002064	.000315	-.001689
#3	.0001665	.0001586	.004190	-.000480	.0002872	.000354	.003782

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000200**	**-.005301**	**-.000161**	**-.000433**	**-.114359**	**-.000167**	**-.000268**
Stddev	.000261	.027061	.000029	.000712	.020362	.002049	.000137
%RSD	130.6202	510.4872	18.24357	164.4070	17.80497	1225.303	50.96639
#1	-.000470	-.018138	-.000183	-.000221	-.091422	-.002178	-.000412
#2	.000051	.025789	-.000173	-.001227	-.121353	-.000240	-.000140
#3	-.000181	-.023554	-.000128	.000149	-.130302	.001917	-.000251

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4605530**	**.0004670**	**-.000060**	**-.002579**	**-.002435**	**-.005757**	**-.001234**
Stddev	.0401309	.0002872	.000211	.000426	.000600	.019713	.001202
%RSD	8.713631	61.49964	348.6626	16.53761	24.64750	342.4098	97.38628
#1	.4272250	.0005954	-.000010	-.002438	-.001752	-.011615	-.002477
#2	.4493347	.0006676	.000120	-.003057	-.002678	-.021877	-.001145
#3	.5050992	.0001380	-.000292	-.002240	-.002877	.016221	-.000079

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB04 Acquired: 10/7/2025 16:04:40 Type: Unk
Method: 6010-200.7 NEW(v265) 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	-.000448	.0016347	.0003512
Stddev	.001329	.0016211	.0001091
%RSD	296.5229	99.16962	31.07354
#1	-.000529	.0034500	.0003886
#2	.000919	.0003312	.0004367
#3	-.001735	.0011229	.0002283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7030.943	100866.8	6987.501	5107.605	8846.863
Stddev	5.951	174.1	50.836	36.085	9.710
%RSD	.0846368	.1725840	.7275346	.7064972	.1097529
#1	7026.666	100728.5	7039.892	5098.883	8844.008
#2	7028.425	100809.5	6938.377	5076.680	8838.901
#3	7037.739	101062.3	6984.234	5147.251	8857.680

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169996BS Acquired: 10/7/2025 16:08:59 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.8103692**	**2.088076**	**.9526768**	**2.108975**	**.8248682**	**1.948012**	**.1741025**
Stddev	.0031288	.075504	.0018658	.004359	.0021312	.005652	.0011547
%RSD	.3861005	3.615973	.1958500	.2066684	.2583626	.2901366	.6632402
#1	.8086602	2.172972	.9537401	2.111229	.8224499	1.946606	.1727807
#2	.8084670	2.062817	.9505224	2.103951	.8256831	1.954234	.1746114
#3	.8139803	2.028439	.9537678	2.111745	.8264717	1.943196	.1749154

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2159429**	**.1920373**	**1.003282**	**.4072824**	**.1942122**	**.3125920**	**2.901959**
Stddev	.0027955	.0005992	.009695	.0016536	.0001239	.0014346	.029997
%RSD	1.294541	.3120180	.9662798	.4060089	.0637837	.4589244	1.033686
#1	.2132567	.1926188	1.006398	.4088903	.1943168	.3120363	2.925484
#2	.2157360	.1914219	1.011035	.4073702	.1940754	.3115183	2.912213
#3	.2188361	.1920713	.992412	.4055866	.1942444	.3142212	2.868179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2012040**	**2.001313**	**.4865113**	**.0759542**	**2.420200**	**.2999456**	**.2079709**
Stddev	.0011009	.037397	.0007890	.0004200	.048712	.0039309	.0005513
%RSD	.5471714	1.868623	.1621749	.5529541	2.012743	1.310545	.2650949
#1	.2016344	1.977122	.4865450	.0755882	2.475087	.2991085	.2076083
#2	.2020248	1.982431	.4857060	.0764127	2.403407	.2965006	.2086054
#3	.1999529	2.044387	.4872829	.0758617	2.382106	.3042276	.2076991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.648011**	**.3178399**	**.4159942**	**.6902428**	**.1925218**	**.8060808**	**5.718650**
Stddev	.094685	.0041414	.0011571	.0023200	.0007280	.0116099	.019826
%RSD	1.094873	1.302994	.2781569	.3361081	.3781345	1.440285	.3466864
#1	8.740551	.3141404	.4165137	.6911827	.1925076	.8133141	5.739871
#2	8.652164	.3170655	.4146684	.6876003	.1918010	.8122389	5.700602
#3	8.551318	.3223139	.4168006	.6919452	.1932568	.7926892	5.715477

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169996BS Acquired: 10/7/2025 16:08:59 Type: Unk
Method: 6010-200.7 NEW(v265) 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	F -.005088	.1903719	.1896925
Stddev	.005139	.0020818	.0002662
%RSD	101.0054	1.093546	.1403343
#1	-.010990	.1887870	.1899648
#2	-.002678	.1927295	.1896801
#3	-.001596	.1895990	.1894328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6993.834	102152.8	6954.308	5191.724	8505.420
Stddev	3.454	222.3	86.046	28.753	9.465
%RSD	.0493814	.2176586	1.237304	.5538326	.1112762
#1	6997.127	102047.0	7038.891	5170.332	8494.796
#2	6994.136	102003.1	6957.163	5180.430	8508.511
#3	6990.240	102408.3	6866.871	5224.410	8512.952

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02 Acquired: 10/7/2025 16:13:01 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.1513975**	**.0001365**	**.8692225**	**.0152563**	**-.032408**	**260.7937**
Stddev	.0009077	.0061714	.0034812	.0057068	.003608	1.0279
%RSD	.5995465	4522.435	.4004951	37.40610	11.13380	.3941533
#1	.1510970	.0065856	.8726141	.0109227	-.035054	261.9151
#2	.1506783	-.005713	.8656582	.0217222	-.028298	260.5699
#3	.1524174	-.000463	.8693953	.0131240	-.033872	259.8961

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.528230**	**.0267816**	**.0182637**	**57.46823**	**.4494010**	**.3270434**
Stddev	.017617	.0002144	.0001821	.30691	.0024117	.0007624
%RSD	.6967968	.8005041	.9971934	.5340478	.5366540	.2331209
#1	2.547442	.0270266	.0180536	57.82261	.4493231	.3269473
#2	2.524415	.0266283	.0183625	57.29260	.4470292	.3263336
#3	2.512834	.0266899	.0183751	57.28948	.4518507	.3278493

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9984226**	**575.9589**	**22.79850**	**117.5056**	**.5971893**	**.0189431**
Stddev	.0010439	2.8643	.18914	.5856	.0014529	.0005492
%RSD	.1045500	.4973041	.8296007	.4983923	.2432870	2.899084
#1	.9989028	577.9220	23.01682	118.1179	.5978053	.0195355
#2	.9991399	572.6722	22.69417	116.9509	.5955299	.0188428
#3	.9972250	577.2826	22.68450	117.4480	.5982326	.0184510

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.631566**	**.6708209**	**1.647633**	**33.54234**	**^ *****	**.0028113**
Stddev	.017457	.0034251	.008177	.16051	-----	.0005727
%RSD	1.069972	.5105782	.4962892	.4785383	-----	20.36985
#1	1.646278	.6736496	1.649734	33.58315	^ -----	.0024077
#2	1.612276	.6718003	1.638610	33.36536	^ -----	.0025596
#3	1.636144	.6670128	1.654554	33.67851	^ -----	.0034668

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02 Acquired: 10/7/2025 16:13:01 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.0448822	5.255691	F 21.73174	F 10.58671	3.132421	.9120962
Stddev	.0011020	.033618	.05906	.08932	.036120	.0060105
%RSD	2.455290	.6396551	.2717839	.8437292	1.153093	.6589720
#1	.0446343	5.294508	21.72292	10.51634	3.103051	.9184235
#2	.0439254	5.236667	21.67759	10.55658	3.121462	.9114023
#3	.0460871	5.235899	21.79472	10.68720	3.172751	.9064628

Elem	Sr4077
Units	ppm
Avg	-.247110
Stddev	.002437
%RSD	.9860083
#1	-.246207
#2	-.245254
#3	-.249869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7942.693	112627.1	8748.579	5691.239	7256.274
Stddev	7.891	536.8	58.173	32.547	9.683
%RSD	.0993492	.4765955	.6649392	.5718745	.1334470
#1	7933.820	112473.4	8681.794	5693.872	7254.758
#2	7945.335	113224.0	8788.206	5722.389	7266.626
#3	7948.924	112184.0	8775.738	5657.456	7247.438

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02DUP Acquired: 10/7/2025 16:17:00 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.1403956**	**.0034926**	**.8263893**	**.0117862**	**-.026867**	**260.5073**	**2.849546**
Stddev	.0011806	.0026482	.0010300	.0028817	.000222	.7386	.019909
%RSD	.8409196	75.82348	.1246427	24.44984	.8256816	.2835311	.6986598
#1	.1413612	.0007681	.8261582	.0096984	-.027092	260.9238	2.872051
#2	.1390794	.0036524	.8254945	.0150740	-.026860	259.6545	2.842359
#3	.1407463	.0060573	.8275153	.0105863	-.026649	260.9437	2.834230

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255989**	**.0209045**	**60.65422**	**.4083348**	**.3346992**	**1.198192**	**543.9791**
Stddev	.0001865	.0002391	.22148	.0004989	.0008034	.002487	1.2365
%RSD	.7287059	1.143719	.3651504	.1221873	.2400443	.2075727	.2273064
#1	.0257304	.0210257	60.86175	.4087012	.3349034	1.199355	544.9060
#2	.0253854	.0210586	60.42103	.4077665	.3353809	1.199885	542.5752
#3	.0256809	.0206291	60.67990	.4085366	.3338134	1.195337	544.4562

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.88353**	**122.7289**	**.6352563**	**.0144501**	**2.305329**	**.6314471**	**1.720711**
Stddev	.12468	.3184	.0002119	.0007818	.012558	.0015495	.004618
%RSD	.5448481	.2594629	.0333525	5.409999	.5447280	.2453929	.2683579
#1	23.02695	122.9372	.6352518	.0148354	2.308603	.6314847	1.722373
#2	22.82277	122.3623	.6350467	.0135505	2.291458	.6298791	1.724267
#3	22.80089	122.8870	.6354704	.0149644	2.315924	.6329774	1.715492

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.30458**	**^ *****	**.0040393**	**.0454263**	**4.790259**	**7.642564**	**9.792709**
Stddev	.11482	-----	.0003621	.0001106	.018281	.028779	.020506
%RSD	.3447571	-----	8.964860	.2433642	.3816280	.3765615	.2093987
#1	33.39528	^ -----	.0038271	.0455452	4.810456	7.613205	9.793595
#2	33.17548	^ -----	.0038334	.0453266	4.785477	7.643764	9.812758
#3	33.34298	^ -----	.0044574	.0454072	4.774844	7.670725	9.771775

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02DUP Acquired: 10/7/2025 16:17:00 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**3.637442**	**.9388835**	**-.212429**
Stddev	.022071	.0060415	.001540
%RSD	.6067744	.6434742	.7249830
#1	3.655259	.9456506	-.211167
#2	3.612752	.9369676	-.211976
#3	3.644314	.9340323	-.214145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8156.986**	**117572.3**	**8850.989**	**5937.562**	**7283.052**
Stddev	17.017	138.9	43.286	11.603	16.399
%RSD	.2086211	.1181282	.4890519	.1954209	.2251607
#1	8158.909	117461.9	8802.043	5936.535	7283.936
#2	8139.089	117728.3	8866.694	5926.506	7266.229
#3	8172.960	117526.8	8884.230	5949.644	7298.990

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02LX5 Acquired: 10/7/2025 16:20:59 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.0326806	.0045817	.1892708	.0005824	-.008882	64.63168	.6005271
Stddev	.0004287	.0009646	.0018288	.0036396	.001990	.08958	.0016416
%RSD	1.311701	21.05298	.9662466	624.8737	22.41102	.1386013	.2733548
#1	.0325156	.0034887	.1913809	.0040762	-.010574	64.72379	.6009426
#2	.0331673	.0049428	.1882895	.0008584	-.009383	64.54486	.5987177
#3	.0323590	.0053138	.1881422	-.003187	-.006688	64.62639	.6019210

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068368	.0028667	14.50335	.1133086	.0690819	.2709120	136.5047
Stddev	.0001024	.0002915	.02157	.0003754	.0005801	.0031664	1.0126
%RSD	1.497380	10.16947	.1487482	.3313047	.8397157	1.168806	.7418268
#1	.0068147	.0031483	14.51400	.1129108	.0696030	.2737970	135.4640
#2	.0069485	.0028856	14.51753	.1133584	.0691856	.2714146	136.5633
#3	.0067473	.0025662	14.47853	.1136567	.0684569	.2675243	137.4867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.654032	29.62940	.1285927	.0026967	.2786947	.1663834	.4063026
Stddev	.002410	.02065	.0011922	.0004300	.0173608	.0017182	.0010721
%RSD	.0426187	.0697038	.9271066	15.94474	6.229328	1.032706	.2638749
#1	5.655344	29.65241	.1298740	.0026152	.2689407	.1683591	.4072754
#2	5.651251	29.61248	.1283880	.0023134	.2684046	.1652374	.4064793
#3	5.655500	29.62332	.1275162	.0031617	.2987389	.1655538	.4051531

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.035670	.1149948	-.000146	.0077006	1.298128	4.946835	2.224774
Stddev	.100205	.0033340	.000248	.0004215	.002597	.014338	.027016
%RSD	1.247003	2.899309	170.3556	5.473797	.2000712	.2898462	1.214318
#1	7.939823	.1112983	-.000244	.0081270	1.300637	4.933871	2.254871
#2	8.027460	.1159114	.000137	.0072842	1.295451	4.944398	2.216832
#3	8.139728	.1177746	-.000330	.0076907	1.298296	4.962235	2.202619

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02LX5 Acquired: 10/7/2025 16:20:59 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.6358322	.2220457	-.054675
Stddev	.0074277	.0009637	.000936
%RSD	1.168190	.4339996	1.712664
#1	.6440482	.2230655	-.053718
#2	.6338562	.2211502	-.054719
#3	.6295924	.2219215	-.055589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7403.967	108835.2	7974.090	5483.944	8260.531
Stddev	11.565	527.0	26.088	8.727	26.937
%RSD	.1561980	.4842532	.3271629	.1591441	.3260880
#1	7399.611	109418.7	7950.414	5482.645	8242.435
#2	7395.212	108693.1	7969.797	5493.248	8247.671
#3	7417.077	108393.7	8002.058	5475.939	8291.488

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02MS Acquired: 10/7/2025 16:25:04 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.7881628	1.763687	1.831688	1.509447	.2315371	310.3257
Stddev	.0026643	.060649	.001435	.005883	.0012724	1.1842
%RSD	.3380327	3.438775	.0783244	.3897760	.5495598	.3815905
#1	.7878295	1.784858	1.830518	1.515838	.2327390	309.0003
#2	.7909780	1.695290	1.831259	1.504256	.2316680	311.2797
#3	.7856809	1.810912	1.833289	1.508246	.2302043	310.6970

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.223032	.1843816	.2218083	67.14248	.7670013	.5784808
Stddev	.013544	.0011253	.0008380	.20369	.0017434	.0014816
%RSD	.4202313	.6102929	.3778001	.3033769	.2272989	.2561209
#1	3.222316	.1832343	.2221314	67.10692	.7671981	.5799288
#2	3.236920	.1844271	.2208569	67.36162	.7651679	.5769677
#3	3.209860	.1854834	.2224367	66.95891	.7686380	.5785460

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.607239	614.9925	25.38351	142.4549	1.213627	.0842419
Stddev	.005329	3.4952	.12257	.3067	.001508	.0021246
%RSD	.3315717	.5683283	.4828731	.2152612	.1242310	2.521990
#1	1.605361	615.9394	25.32218	142.3312	1.214080	.0850675
#2	1.603103	617.9167	25.52464	142.8041	1.211944	.0858298
#3	1.613253	611.1215	25.30371	142.2295	1.214856	.0818285

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.502461	.9069651	2.134796	49.90852	^ *****	.2897833
Stddev	.026606	.0042395	.005146	.26046	-----	.0001571
%RSD	.5909168	.4674409	.2410565	.5218830	-----	.0542255
#1	4.509768	.9103988	2.131932	50.06150	^ -----	.2897917
#2	4.524650	.9082701	2.131719	50.05628	^ -----	.2899360
#3	4.472966	.9022265	2.140737	49.60778	^ -----	.2896221

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02MS Acquired: 10/7/2025 16:25:04 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.7181525	4.918805	7.268380	F 16.96102	3.972474	1.248064
Stddev	.0008970	.013978	.032774	.07834	.013063	.004196
%RSD	.1249051	.2841706	.4509158	.4618819	.3288466	.3362190
#1	.7182927	4.922736	7.301451	16.95711	3.974233	1.250089
#2	.7171937	4.930396	7.267779	16.88471	3.958620	1.250864
#3	.7189712	4.903282	7.235911	17.04125	3.984569	1.243239

Elem	Sr4077
Units	ppm
Avg	-.093792
Stddev	.000871
%RSD	.9289379
#1	-.094558
#2	-.093974
#3	-.092845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8120.722	115692.9	9141.851	5834.255	7043.380
Stddev	8.034	269.8	61.689	16.473	9.492
%RSD	.0989305	.2332021	.6747929	.2823504	.1347650
#1	8111.615	115995.0	9204.883	5844.846	7033.988
#2	8126.807	115607.7	9139.070	5842.643	7052.969
#3	8123.743	115475.9	9081.600	5815.276	7043.183

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02MSD Acquired: 10/7/2025 16:29:08 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.8095863**	**1.693221**	**1.974521**	**1.535744**	**.2323593**	**328.6860**
Stddev	.0029201	.037128	.004584	.004251	.0006760	5.1732
%RSD	.3606958	2.192770	.2321596	.2767792	.2909139	1.573903
#1	.8110327	1.724170	1.976328	1.532450	.2330330	328.2462
#2	.8062252	1.652053	1.969309	1.534239	.2323637	334.0651
#3	.8115008	1.703441	1.977926	1.540542	.2316811	323.7468

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.363602**	**.1887650**	**.2282950**	**70.25202**	**.8062010**	**.6175203**
Stddev	.009673	.0011541	.0005829	.23790	.0024902	.0012692
%RSD	.2875654	.6113660	.2553208	.3386374	.3088844	.2055252
#1	3.373464	.1887602	.2281976	70.51016	.8089174	.6170776
#2	3.363213	.1899214	.2277669	70.20431	.8056595	.6165317
#3	3.354130	.1876134	.2289204	70.04159	.8040260	.6189515

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.550762**	**654.5220**	**26.89595**	**147.4761**	**1.281513**	**.0880116**
Stddev	.001564	2.8488	.06740	.4749	.003445	.0010698
%RSD	.1008421	.4352435	.2505813	.3220310	.2688288	1.215556
#1	1.549724	656.3209	26.96756	148.0147	1.281469	.0881869
#2	1.550002	651.2375	26.88652	147.1175	1.278090	.0868650
#3	1.552561	656.0077	26.83376	147.2961	1.284980	.0889830

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.675142**	**.9598477**	**2.282670**	**52.34400**	^ *****	**.2982368**
Stddev	.015536	.0020639	.008307	.24133	-----	.0002956
%RSD	.3323054	.2150198	.3639125	.4610534	-----	.0991302
#1	4.668143	.9589041	2.290590	52.50025	^ -----	.2985288
#2	4.664336	.9622147	2.283396	52.06604	^ -----	.2979376
#3	4.692945	.9584244	2.274024	52.46570	^ -----	.2982439

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02MSD Acquired: 10/7/2025 16:29:08 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.7220088	4.939362	5.330750	F 18.25559	4.421675	1.311943
Stddev	.0037825	.011175	.050453	.07180	.030574	.003434
%RSD	.5238844	.2262469	.9464502	.3933035	.6914485	.2617821
#1	.7245363	4.947788	5.325339	18.24658	4.438093	1.313638
#2	.7176602	4.943612	5.283220	18.18872	4.386399	1.314200
#3	.7238298	4.926685	5.383690	18.33147	4.440531	1.307991

Elem	Sr4077
Units	ppm
Avg	-.108836
Stddev	.002979
%RSD	2.737600
#1	-.109360
#2	-.105629
#3	-.111518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8157.589	114930.3	9120.140	5767.976	7001.257
Stddev	.623	434.5	41.245	23.434	6.624
%RSD	.0076356	.3780944	.4522409	.4062768	.0946070
#1	8156.988	114490.6	9084.658	5744.673	7000.989
#2	8158.232	115359.5	9110.370	5767.716	7008.010
#3	8157.545	114941.0	9165.394	5791.538	6994.771

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02A Acquired: 10/7/2025 16:33:11 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.8296459**	**1.776750**	**1.790907**	**1.717837**	**.6576222**	**257.7998**
Stddev	.0021331	.069929	.003384	.003263	.0034818	.5162
%RSD	.2571127	3.935756	.1889421	.1899599	.5294480	.2002217
#1	.8274932	1.697560	1.794626	1.715662	.6602591	258.3125
#2	.8317589	1.802679	1.788009	1.721589	.6589319	257.2802
#3	.8296855	1.830010	1.790086	1.716258	.6536755	257.8067

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.622410**	**.1908784**	**.2188525**	**56.85326**	**.7633345**	**.5157719**
Stddev	.007021	.0003696	.0002086	.17672	.0026622	.0010025
%RSD	.2677167	.1936315	.0952914	.3108397	.3487551	.1943598
#1	2.624400	.1904759	.2189317	56.99587	.7602667	.5159925
#2	2.614609	.1912025	.2186159	56.65555	.7650372	.5146776
#3	2.628221	.1909566	.2190098	56.90837	.7646996	.5166457

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.229605**	**545.9182**	**22.35467**	**116.7003**	**1.070246**	**.0804398**
Stddev	.002122	1.5384	.08341	.3441	.002258	.0007112
%RSD	.1726065	.2818083	.3731118	.2948269	.2109370	.8840815
#1	1.227154	546.2108	22.43595	117.0929	1.069113	.0810420
#2	1.230835	544.2545	22.26929	116.4509	1.068779	.0796552
#3	1.230825	547.2893	22.35876	116.5572	1.072845	.0806222

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.005785**	**.9063198**	**1.741515**	**39.64866**	**^ *****	**.3469637**
Stddev	.026400	.0027463	.013684	.19826	-----	.0003111
%RSD	.6590553	.3030189	.7857518	.5000329	-----	.0896550
#1	3.987187	.9049288	1.734201	39.50627	^ -----	.3466514
#2	3.994165	.9045472	1.757301	39.56462	^ -----	.3469662
#3	4.036002	.9094833	1.733041	39.87510	^ -----	.3472735

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3266-02A Acquired: 10/7/2025 16:33:11 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.7469704	5.428069	F 25.97094	F 16.27335	3.081448	1.047995
Stddev	.0010424	.011397	.09885	.03523	.003490	.002292
%RSD	.1395500	.2099581	.3806293	.2164799	.1132563	.2186899
#1	.7462072	5.440810	25.90389	16.25723	3.082503	1.045508
#2	.7465460	5.418848	25.92447	16.24907	3.077553	1.048455
#3	.7481581	5.424547	26.08447	16.31375	3.084289	1.050022

Elem	Sr4077
Units	ppm
Avg	-.062359
Stddev	.000187
%RSD	.3004207
#1	-.062177
#2	-.062351
#3	-.062551

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7806.139	116719.9	8774.910	5868.596	7163.627
Stddev	15.421	157.7	21.424	42.247	13.949
%RSD	.1975488	.1351288	.2441496	.7198791	.1947154
#1	7817.848	116787.6	8750.453	5897.168	7169.301
#2	7811.902	116832.5	8790.358	5820.068	7173.844
#3	7788.666	116539.7	8783.921	5888.553	7147.735

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3258-06DLX5 Acquired: 10/7/2025 16:37:05 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.0178181**	**.0188250**	**.0010332**	**.2436967**	**-.000619**	**.0597287**
Stddev	.0030384	.0026973	.0006704	.0007426	.001060	.0032354
%RSD	17.05236	14.32799	64.88424	.3047266	171.2294	5.416868
#1	.0179274	.0209941	.0005831	.2432132	-.000301	.0559951
#2	.0147265	.0158049	.0018037	.2445518	.000245	.0614820
#3	.0208003	.0196762	.0007128	.2433252	-.001801	.0617091

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010342**	**.0000658**	**-.000004**	**.3201556**	**.0049245**	**.0003361**
Stddev	.000239	.0000480	.000082	.0080257	.0004528	.0001913
%RSD	2.309166	72.87730	2075.423	2.506819	9.195420	56.92930
#1	-.010516	.0001188	-.000057	.3179225	.0044193	.0003879
#2	-.010070	.0000536	-.000045	.3134830	.0050604	.0004961
#3	-.010441	.0000252	.000091	.3290614	.0052939	.0001242

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095775**	**.1251489**	**.0049775**	**.2362737**	**.0052337**	**-.000109**
Stddev	.0001740	.0072027	.0006617	.0192653	.0003404	.000404
%RSD	1.816668	5.755296	13.29389	8.153812	6.504419	369.8978
#1	.0093984	.1308645	.0051996	.2561986	.0052665	-.000573
#2	.0097459	.1275234	.0054995	.2348786	.0055564	.000081
#3	.0095881	.1170587	.0042333	.2177438	.0048780	.000164

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2299.359**	**-.001055**	**.1405032**	**7.606774**	**2.448841**	**.0129492**
Stddev	49.403	.001383	.0006256	.871996	.054023	.0003716
%RSD	2.148571	131.0458	.4452928	11.46342	2.206067	2.869580
#1	2310.866	.000130	.1398263	6.649320	2.402229	.0129982
#2	2341.993	-.000721	.1410602	7.815617	2.436245	.0132938
#3	2245.218	-.002574	.1406233	8.355386	2.508049	.0125555

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3258-06DLX5 Acquired: 10/7/2025 16:37:05 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**-.003534**	**.0003142**	**4.440554**	**.0606070**	F **584.2283**	**.0291155**
Stddev	.000351	.0009945	.095716	.0007794	3.6161	.0058096
%RSD	9.940936	316.5660	2.155491	1.286058	.6189484	19.95369
#1	-.003711	-.000740	4.348121	.0613378	586.8052	.0226136
#2	-.003130	.001235	4.539245	.0597867	580.0946	.0309361
#3	-.003762	.000447	4.434295	.0606965	585.7851	.0337968

Elem	Sr4077
Units	ppm
Avg	**.0025738**
Stddev	.0002264
%RSD	8.795990
#1	.0024602
#2	.0024266
#3	.0028345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5987.975**	**82831.60**	**7059.285**	**4331.846**	**6398.284**
Stddev	5.349	743.96	125.880	18.798	6.747
%RSD	.0893320	.8981556	1.783176	.4339478	.1054446
#1	5983.226	83304.79	7189.935	4352.880	6391.075
#2	5986.928	81974.09	7049.130	4316.686	6399.333
#3	5993.770	83215.93	6938.791	4325.974	6404.445

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169971TB Acquired: 10/7/2025 16:41:30 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**-.004251**	**.0020788**	**.0000758**	**.0048921**	**.0005532**	**-.013304**	**-.008623**
Stddev	.001930	.0010325	.0007348	.0010879	.0005589	.005296	.003271
%RSD	45.39980	49.66672	969.9191	22.23790	101.0320	39.80319	37.93563
#1	-.005292	.0031618	.0007699	.0061134	.0010482	-.010299	-.007555
#2	-.005438	.0019690	.0001514	.0040268	.0006642	-.019419	-.006020
#3	-.002024	.0011056	-.000694	.0045362	-.000053	-.010195	-.012295

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000039**	**-.000073**	**.0318351**	**.0000816**	**-.000152**	**.0006190**	**.0112613**
Stddev	.000055	.000056	.0066289	.0002303	.000140	.0006455	.0071377
%RSD	140.6521	76.62478	20.82254	282.1358	91.85572	104.2795	63.38257
#1	-.000101	-.000014	.0255700	-.000119	-.000093	.0001258	.0124712
#2	-.000024	-.000080	.0311593	.000031	-.000052	.0003816	.0177167
#3	.000006	-.000125	.0387759	.000333	-.000312	.0013495	.0035960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046953**	**-.026698**	**.0010432**	**-.000597**	**421.4821**	**-.000709**	**.0008791**
Stddev	.0003531	.016454	.0000803	.000691	7.5015	.004759	.0001169
%RSD	7.521086	61.62874	7.693261	115.7590	1.779790	671.1226	13.30270
#1	.0050930	-.043501	.0009965	-.001393	425.4527	-.004750	.0007629
#2	.0045747	-.025977	.0011359	-.000239	412.8299	-.001914	.0009968
#3	.0044183	-.010617	.0009972	-.000158	426.1638	.004537	.0008775

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5625760**	**-.002076**	**.0006098**	**-.019189**	**-.002370**	**.0321342**	**.0033384**
Stddev	.0172044	.000695	.0001025	.000712	.000410	.0312179	.0012204
%RSD	3.058149	33.48193	16.79869	3.708889	17.28489	97.14840	36.55781
#1	.5799200	-.001741	.0005495	-.019767	-.002812	.0516805	.0019333
#2	.5455147	-.001612	.0007281	-.019405	-.002296	.0485912	.0039469
#3	.5622934	-.002876	.0005519	-.018394	-.002003	-.003869	.0041349

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169971TB Acquired: 10/7/2025 16:41:30 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.1421581	-.001023	.0001295
Stddev	.0074770	.001774	.0001543
%RSD	5.259642	173.4632	119.1779
#1	.1372128	.000825	.0003037
#2	.1507596	-.001180	.0000750
#3	.1385017	-.002712	.0000098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6530.102	96800.30	7046.115	4954.930	7441.036
Stddev	27.769	499.69	55.191	31.911	25.666
%RSD	.4252391	.5162104	.7832792	.6440287	.3449288
#1	6500.752	96319.77	6984.809	4923.185	7412.347
#2	6555.958	97317.17	7061.697	4987.005	7461.819
#3	6533.595	96763.97	7091.841	4954.600	7448.944

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-03 Acquired: 10/7/2025 16:45:58 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**.0074083**	**.0024255**	**-.000119**	**.0052303**	**-.000588**	**.4592670**	**.4008888**
Stddev	.0014900	.0014316	.002165	.0020305	.001458	.0059347	.0021151
%RSD	20.11238	59.02191	1817.124	38.82147	247.9176	1.292212	.5276093
#1	.0063717	.0007730	-.002213	.0050609	-.002267	.4527236	.3988873
#2	.0091157	.0032167	-.000255	.0032898	.000357	.4643019	.4031017
#3	.0067374	.0032868	.002110	.0073402	.000146	.4607755	.4006775

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001290**	**.0000283**	**9.351076**	**-.000144**	**.0002598**	**.0026637**	**.4599608**
Stddev	.0000373	.0001057	.036664	.000128	.0002785	.0003508	.0083852
%RSD	28.88504	374.0934	.3920820	89.34975	107.1816	13.16902	1.823025
#1	.0001624	.0000547	9.310819	-.000270	.0005619	.0028272	.4695075
#2	.0000888	.0001183	9.382553	-.000148	.0000132	.0022610	.4565863
#3	.0001359	-.000088	9.359856	-.000013	.0002045	.0029029	.4537885

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0681020**	**1.774289**	**.0025613**	**-.000141**	**258.2435**	**.0003534**	**.3719753**
Stddev	.0001457	.037589	.0001707	.000443	.5051	.0027924	.0006995
%RSD	.2138966	2.118529	6.666055	313.5307	.1955911	790.1934	.1880431
#1	.0679476	1.759158	.0026905	.000370	258.8089	.0021406	.3727327
#2	.0681213	1.746625	.0023678	-.000402	258.0846	.0017839	.3713536
#3	.0682371	1.817086	.0026256	-.000391	257.8369	-.002864	.3718395

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.258824**	**.1500611**	**.0006428**	**-.020682**	**.0218159**	**2.761439**	**.0587056**
Stddev	.045035	.0015705	.0001809	.000538	.0018476	.020647	.0005310
%RSD	1.057458	1.046588	28.14897	2.598886	8.469257	.7476845	.9044637
#1	4.206835	.1496241	.0004954	-.021245	.0207018	2.785205	.0593147
#2	4.285831	.1518038	.0005882	-.020174	.0207972	2.747921	.0584617
#3	4.283806	.1487553	.0008448	-.020628	.0239486	2.751191	.0583404

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-03 Acquired: 10/7/2025 16:45:58 Type: Unk
Method: 6010-200.7 NEW(v265) 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	.8990429	-.001017	.0796575
Stddev	.0010102	.001918	.0005349
%RSD	.1123658	188.5685	.6714894
#1	.8982168	.001014	.0795141
#2	.9001692	-.001268	.0802495
#3	.8987428	-.002796	.0792089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6726.359	102282.5	7558.288	5195.722	7740.487
Stddev	9.041	298.9	58.033	18.987	14.226
%RSD	.1344076	.2922594	.7678025	.3654281	.1837812
#1	6715.925	102069.0	7583.610	5185.740	7726.381
#2	6731.870	102624.1	7491.897	5217.618	7740.252
#3	6731.282	102154.3	7599.356	5183.809	7754.829

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV05 Acquired: 10/7/2025 16:50:20 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**4.996023**	**5.149075**	**4.891000**	**5.089423**	**4.956844**	**9.822722**	**9.537215**
Stddev	.012016	.257472	.006138	.008987	.004540	.045926	.042961
%RSD	.2405159	5.000354	.1254956	.1765759	.0915927	.4675522	.4504610
#1	4.988250	4.913254	4.884437	5.081660	4.958912	9.775641	9.544428
#2	4.989955	5.110194	4.891963	5.087342	4.951638	9.825125	9.491104
#3	5.009863	5.423776	4.896599	5.099268	4.959982	9.867399	9.576114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2449245**	**2.480567**	**24.49394**	**1.026627**	**2.452643**	**1.247059**	**5.324176**
Stddev	.0018715	.005484	.01838	.004587	.004201	.001363	.026628
%RSD	.7641279	.2210902	.0750441	.4468127	.1713014	.1093333	.5001306
#1	.2438353	2.477802	24.47272	1.031918	2.450000	1.246168	5.351081
#2	.2438527	2.477015	24.50438	1.024195	2.450441	1.246380	5.323613
#3	.2470855	2.486883	24.50473	1.023769	2.457487	1.248628	5.297834

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.433880**	**24.69048**	**2.455807**	**1.284147**	**26.00424**	**2.485067**	**2.623427**
Stddev	.009836	.07651	.002305	.001804	.31631	.002041	.004118
%RSD	.4041207	.3098669	.0938562	.1404526	1.216376	.0821266	.1569838
#1	2.440493	24.62573	2.455933	1.286228	26.36157	2.483332	2.618770
#2	2.422577	24.67081	2.453441	1.283033	25.89106	2.487316	2.626590
#3	2.438570	24.77490	2.458046	1.283180	25.76010	2.484552	2.624920

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.19840**	**4.830805**	**5.104708**	**5.013077**	**4.900652**	**5.434742**	**4.942794**
Stddev	.18670	.035509	.006652	.012898	.015275	.032750	.027888
%RSD	.7126520	.7350447	.1303022	.2572837	.3116868	.6026038	.5642191
#1	26.41217	4.803730	5.099166	4.999880	4.902758	5.450614	4.912663
#2	26.11568	4.817676	5.102873	5.013698	4.884433	5.456531	4.948017
#3	26.06734	4.871008	5.112084	5.025653	4.914764	5.397080	4.967701

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV05 Acquired: 10/7/2025 16:50:20 Type: Unk
Method: 6010-200.7 NEW(v265) 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	**5.092038**	**4.532264**	**4.825759**
Stddev	.034170	.018822	.046661
%RSD	.6710452	.4152914	.9669184
#1	5.058875	4.536048	4.832663
#2	5.090105	4.511838	4.776030
#3	5.127133	4.548907	4.868582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6944.423**	**93775.45**	**7372.051**	**4773.672**	**7951.179**
Stddev	4.302	501.16	58.591	19.162	11.916
%RSD	.0619466	.5344203	.7947774	.4014045	.1498592
#1	6944.499	93207.80	7392.384	4765.968	7955.042
#2	6948.687	94156.67	7417.768	4795.486	7960.685
#3	6940.084	93961.88	7306.002	4759.561	7937.812

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB05 Acquired: 10/7/2025 17:01:38 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.004569**	**.0050653**	**.0002913**	**.0017710**	**-.001181**	**-.008353**	**-.006565**
Stddev	.001699	.0017976	.0006372	.0029397	.000739	.007929	.000243
%RSD	37.18783	35.48771	218.7224	165.9921	62.55577	94.92810	3.699404
#1	-.004048	.0055102	.0002666	.0050562	-.000997	-.016763	-.006382
#2	-.003192	.0030871	.0009406	-.000612	-.000552	-.001014	-.006474
#3	-.006468	.0065986	-.000333	.000868	-.001995	-.007282	-.006841

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000201**	**.0000090**	**-.010163**	**-.000731**	**-.000180**	**-.000037**	**.0084797**
Stddev	.0000149	.0000144	.008756	.000049	.000168	.000148	.0012012
%RSD	73.99725	160.2152	86.16201	6.752803	93.45561	396.3791	14.16500
#1	.0000126	-.000008	-.001790	-.000678	-.000018	.000074	.0081737
#2	.0000105	.000019	-.009441	-.000740	-.000353	-.000205	.0074612
#3	.0000373	.000016	-.019258	-.000776	-.000167	.000019	.0098043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000483**	**-.059282**	**-.000120**	**-.000743**	**-.334884**	**-.003139**	**-.000215**
Stddev	.000458	.018388	.000257	.000576	.014235	.003225	.000181
%RSD	94.78178	31.01838	214.8921	77.48588	4.250627	102.7432	84.26089
#1	-.001010	-.038170	-.000365	-.000344	-.325326	-.003764	-.000009
#2	-.000260	-.067872	.000148	-.000482	-.351244	-.006005	-.000350
#3	-.000179	-.071802	-.000142	-.001403	-.328083	.000353	-.000286

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.357842**	**-.002036**	**.0001066**	F **-.021823**	**-.000406**	**-.004545**	**-.000671**
Stddev	.040438	.000775	.0002177	.000514	.001590	.004059	.000433
%RSD	11.30058	38.03771	204.2330	2.356677	391.1817	89.30871	64.54731
#1	-.313303	-.002931	.0003327	-.021540	-.001525	-.005889	-.001024
#2	-.392253	-.001568	.0000885	-.021512	-.001108	.000016	-.000802
#3	-.367971	-.001611	-.000101	-.022416	.001414	-.007762	-.000188

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB05 Acquired: 10/7/2025 17:01:38 Type: Unk
Method: 6010-200.7 NEW(v266) 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	-.003538	-.002381	-.000021
Stddev	.001554	.000529	.000176
%RSD	43.91972	22.20648	831.3459
#1	-.003393	-.002751	-.000110
#2	-.002061	-.001775	-.000135
#3	-.005159	-.002617	.000181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7196.679	101219.7	7594.160	5126.714	9023.018
Stddev	10.787	60.7	69.431	15.427	18.346
%RSD	.1498953	.0599400	.9142630	.3009101	.2033246
#1	7184.842	101276.2	7660.870	5143.948	9002.690
#2	7205.957	101227.2	7522.296	5114.196	9038.345
#3	7199.238	101155.6	7599.312	5121.997	9028.019

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-06 Acquired: 10/7/2025 17:05:57 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.0035030	.0029251	-.000912	.0054866	-.001119	.0611486	.1534964
Stddev	.0029162	.0023318	.001049	.0006297	.001449	.0056286	.0016278
%RSD	83.25004	79.71732	115.0113	11.47737	129.5411	9.204792	1.060461
#1	.0068704	.0047799	-.001832	.0053665	-.002683	.0558604	.1551535
#2	.0018246	.0003074	.000230	.0061677	.000178	.0605205	.1518996
#3	.0018140	.0036879	-.001133	.0049255	-.000850	.0670649	.1534360

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001269	.0001814	9.806053	-.000230	.0003906	.0001958	.0231811
Stddev	.0000531	.0000617	.013354	.000055	.0001623	.0004885	.0029155
%RSD	41.82619	33.99709	.1361846	23.96774	41.56151	249.4942	12.57722
#1	.0000696	.0001102	9.821449	-.000207	.0005658	.0006511	.0214302
#2	.0001743	.0002183	9.797602	-.000293	.0002453	.0002565	.0265468
#3	.0001368	.0002158	9.799108	-.000190	.0003608	-.000320	.0215663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0755705	4.902209	.0013021	-.000581	264.8077	-.002483	.0894013
Stddev	.0005168	.060724	.0002515	.000090	6.7249	.002199	.0001030
%RSD	.6838926	1.238706	19.31809	15.51089	2.539545	88.56335	.1152165
#1	.0759243	4.966400	.0013579	-.000679	269.6208	-.002882	.0895015
#2	.0749774	4.894546	.0015210	-.000563	267.6783	-.004455	.0894067
#3	.0758099	4.845680	.0010273	-.000502	257.1238	-.000112	.0892957

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.239374	.0290604	.0004781	-.019652	-.000940	1.755432	.3317367
Stddev	.019251	.0002968	.0003536	.000051	.001850	.036230	.0009499
%RSD	.5942712	1.021502	73.95271	.2591418	196.8916	2.063884	.2863445
#1	3.247227	.0287346	.0001171	-.019603	.000256	1.797261	.3322342
#2	3.253456	.0291312	.0008238	-.019705	-.000005	1.733875	.3323345
#3	3.217438	.0293155	.0004934	-.019648	-.003071	1.735162	.3306413

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-06 Acquired: 10/7/2025 17:05:57 Type: Unk
Method: 6010-200.7 NEW(v266) 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	1.067510	-.002118	.0624430
Stddev	.007049	.002174	.0002955
%RSD	.6603621	102.6612	.4732933
#1	1.067992	-.004292	.0626536
#2	1.074306	.000056	.0621051
#3	1.060232	-.002117	.0625702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6566.599	99311.54	7167.745	5069.208	7542.159
Stddev	14.421	548.71	26.536	32.146	10.628
%RSD	.2196052	.5525132	.3702186	.6341455	.1409163
#1	6581.649	98677.95	7188.597	5033.536	7552.183
#2	6565.243	99628.51	7176.762	5095.932	7543.278
#3	6552.904	99628.18	7137.875	5078.156	7531.015

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-09 Acquired: 10/7/2025 17:10:21 Type: Unk
Method: 6010-200.7 NEW(v266) 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	-.004534	.0051877	.0004132	.0060074	-.001361	.1211812	.2992154
Stddev	.000416	.0016029	.0005257	.0010174	.000622	.0130542	.0018905
%RSD	9.174256	30.89770	127.2342	16.93633	45.69937	10.77246	.6318071
#1	-.004810	.0034742	-.000178	.0049925	-.000731	.1127123	.2970430
#2	-.004736	.0066503	.000590	.0070273	-.001974	.1362148	.3004875
#3	-.004056	.0054386	.000828	.0060023	-.001377	.1146167	.3001156

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000544	.0002322	12.60776	.0000714	.0002321	.0012159	.1945227
Stddev	.0000593	.0001036	.05387	.0001818	.0001553	.0002478	.0055011
%RSD	109.1231	44.61955	.4272558	254.5963	66.91531	20.37915	2.827982
#1	.0001206	.0001449	12.59196	-.000116	.0001398	.0014717	.2008153
#2	.0000061	.0003467	12.56355	.000247	.0001450	.0009770	.1921270
#3	.0000363	.0002050	12.66776	.000083	.0004113	.0011991	.1906257

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0849575	1.720381	.0000204	-.000445	266.9633	-.001373	.2121140
Stddev	.0007458	.018550	.0001091	.000276	1.3534	.001206	.0009712
%RSD	.8778021	1.078265	533.8394	62.16551	.5069512	87.83837	.4578492
#1	.0850620	1.737537	-.000030	-.000395	267.6456	-.002729	.2126178
#2	.0856454	1.700696	.000146	-.000196	267.8398	-.000422	.2127297
#3	.0841650	1.722910	-.000055	-.000742	265.4046	-.000967	.2109944

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8297504	.0682658	.0003675	-.020526	.0010254	.7451161	.0389945
Stddev	.0116477	.0002295	.0002442	.000218	.0011697	.0103252	.0020232
%RSD	1.403762	.3362331	66.44950	1.060845	114.0722	1.385714	5.188361
#1	.8201660	.0680235	.0006170	-.020381	.0020591	.7339636	.0372239
#2	.8263712	.0684799	.0003565	-.020776	.0012614	.7543428	.0411997
#3	.8427141	.0682939	.0001290	-.020420	-.000244	.7470420	.0385599

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3262-09 Acquired: 10/7/2025 17:10:21 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.3574039	-.005580	.0709447
Stddev	.0034534	.000819	.0000681
%RSD	.9662326	14.67440	.0960240
#1	.3550716	-.006412	.0708942
#2	.3557690	-.004775	.0709177
#3	.3613711	-.005555	.0710222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6863.481	97624.63	7435.675	4978.354	7912.438
Stddev	4.743	202.65	68.497	17.551	11.807
%RSD	.0690989	.2075763	.9211991	.3525367	.1492238
#1	6860.243	97392.59	7514.389	4982.941	7915.729
#2	6868.925	97714.57	7403.030	4958.965	7922.250
#3	6861.275	97766.74	7389.607	4993.155	7899.334

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3277-02 Acquired: 10/7/2025 17:14:46 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.004116**	**.0070312**	**.0094473**	**.0030801**	**.0006147**	**.0390866**	**.1599214**
Stddev	.002065	.0073402	.0019148	.0014540	.0019876	.0067238	.0004792
%RSD	50.15612	104.3947	20.26837	47.20657	323.3630	17.20236	.2996234
#1	-.006377	-.000622	.0116397	.0035176	.0009334	.0348637	.1594468
#2	-.002331	.014013	.0085994	.0042651	.0024236	.0468403	.1599123
#3	-.003640	.007703	.0081028	.0014576	-.001513	.0355558	.1604050

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0004697**	**73.71824**	**.0027463**	**.0004277**	**.0056868**	**.0239330**
Stddev	.000030	.0000473	.15822	.0001878	.0002158	.0005162	.0096292
%RSD	386.1975	10.05916	.2146229	6.836860	50.45877	9.077475	40.23380
#1	.000019	.0004332	73.67974	.0025394	.0002482	.0056203	.0346792
#2	-.000001	.0005231	73.89215	.0027939	.0006671	.0052070	.0210317
#3	-.000041	.0004528	73.58282	.0029058	.0003677	.0062330	.0160881

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1541820**	**4.621698**	**.0028064**	**-.000257**	**328.6115**	**-.001154**	**.1613213**
Stddev	.0010533	.008044	.0003092	.000421	2.0641	.003731	.0004129
%RSD	.6831610	.1740565	11.01636	163.6184	.6281182	323.3130	.2559396
#1	.1539204	4.621578	.0029074	.000201	329.8245	-.000628	.1609103
#2	.1532841	4.629803	.0024594	-.000627	326.2282	-.005121	.1613177
#3	.1553414	4.613715	.0030525	-.000346	329.7817	.002286	.1617360

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.557827**	**.0458396**	**.0012395**	**-.018075**	**-.003698**	**1.157164**	**.1653333**
Stddev	.038971	.0001159	.0005089	.000562	.002930	.007996	.0015438
%RSD	2.501615	.2528759	41.05298	3.108276	79.22079	.6910348	.9337688
#1	1.540572	.0457483	.0018271	-.017610	-.006588	1.150535	.1640552
#2	1.602446	.0459700	.0009474	-.018699	-.000730	1.154912	.1648960
#3	1.530463	.0458006	.0009441	-.017916	-.003776	1.166045	.1670486

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3277-02 Acquired: 10/7/2025 17:14:46 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**3.514405**	**-.014234**	**.2601699**
Stddev	.021655	.000785	.0005801
%RSD	.6161887	5.513497	.2229672
#1	3.535107	-.015126	.2606589
#2	3.491908	-.013925	.2595289
#3	3.516201	-.013651	.2603218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6514.741**	**98091.98**	**7360.439**	**4977.323**	**7371.551**
Stddev	16.379	505.60	63.002	29.454	25.674
%RSD	.2514117	.5154359	.8559608	.5917670	.3482807
#1	6532.819	98664.64	7402.160	5011.252	7399.124
#2	6510.517	97904.00	7287.967	4962.410	7367.195
#3	6500.889	97707.29	7391.192	4958.308	7348.334

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-02 Acquired: 10/7/2025 17:19:09 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.003589**	**.0059223**	**.0064940**	**.0027015**	**-.002349**	**.1339553**	**.2428375**
Stddev	.001278	.0013618	.0014683	.0041969	.001073	.0143989	.0009726
%RSD	35.60944	22.99508	22.61052	155.3513	45.67931	10.74901	.4004981
#1	-.004478	.0049735	.0078347	-.001843	-.001779	.1272095	.2431192
#2	-.002124	.0074827	.0067224	.003516	-.001681	.1241676	.2436380
#3	-.004164	.0053107	.0049248	.006432	-.003587	.1504886	.2417551

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003810**	**.0004222**	**23.27671**	**-.000248**	**.0002840**	**.0045714**	**.0157242**
Stddev	.0000230	.0000619	.02043	.000099	.0000426	.0003479	.0109097
%RSD	6.042275	14.65043	.0877563	39.93832	15.01290	7.610691	69.38189
#1	.0003889	.0003552	23.27604	-.000359	.0003034	.0042788	.0155005
#2	.0003551	.0004344	23.29746	-.000217	.0002351	.0044792	.0267441
#3	.0003991	.0004771	23.25663	-.000168	.0003135	.0049561	.0049280

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3538518**	**3.297921**	**.0036999**	**-.000912**	**249.3174**	**-.001889**	**.0505062**
Stddev	.0008718	.027741	.0000580	.000177	3.2064	.000454	.0001864
%RSD	.2463861	.8411705	1.567579	19.40929	1.286071	24.02205	.3689912
#1	.3543420	3.268209	.0037573	-.001053	250.7872	-.002399	.0506896
#2	.3543681	3.302411	.0037011	-.000970	245.6395	-.001738	.0503170
#3	.3528452	3.323143	.0036413	-.000713	251.5254	-.001530	.0505120

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.043355**	**.0102467**	**.0005943**	**-.020009**	**-.001587**	**.7508317**	**.0111859**
Stddev	.014272	.0003454	.0002987	.001223	.002064	.0116390	.0003873
%RSD	1.367905	3.370612	50.26519	6.112585	130.0356	1.550151	3.462727
#1	1.057708	.0106453	.0009175	-.018600	-.002473	.7374918	.0116156
#2	1.029165	.0100372	.0003283	-.020803	-.003060	.7589163	.0110782
#3	1.043191	.0100576	.0005372	-.020622	.000772	.7560871	.0108637

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-02 Acquired: 10/7/2025 17:19:09 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.2971762	-.004399	.0790387
Stddev	.0047421	.001737	.0006051
%RSD	1.595723	39.47384	.7656205
#1	.2962517	-.003024	.0786243
#2	.2929644	-.003823	.0797331
#3	.3023125	-.006351	.0787586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6852.337	98716.65	7483.828	5015.650	7842.949
Stddev	24.396	180.45	7.280	8.766	44.115
%RSD	.3560197	.1827917	.0972803	.1747816	.5624815
#1	6878.682	98824.46	7476.017	5015.897	7893.050
#2	6847.802	98508.33	7485.042	5024.290	7825.873
#3	6830.527	98817.15	7490.425	5006.763	7809.925

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-04 Acquired: 10/7/2025 17:23:33 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.004567**	**.0029080**	**.0037089**	**.0042297**	**-.000310**	**.1934113**	**.1533770**
Stddev	.001381	.0040773	.0008715	.0003597	.000965	.0050153	.0010372
%RSD	30.23008	140.2098	23.49824	8.504749	311.0372	2.593096	.6762331
#1	-.005517	-.001686	.0047149	.0038187	.000629	.1985577	.1531088
#2	-.005201	.004315	.0032293	.0044875	-.000260	.1885382	.1545220
#3	-.002983	.006095	.0031825	.0043828	-.001300	.1931380	.1525003

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001538**	**.0003581**	**8.735582**	**-.000524**	**.0004481**	**.0054121**	**.0179211**
Stddev	.0000180	.0001381	.019039	.000192	.0001497	.0000356	.0044045
%RSD	11.72547	38.58187	.2179448	36.64391	33.40506	.6573384	24.57697
#1	.0001375	.0002601	8.753967	-.000471	.0002796	.0054190	.0201924
#2	.0001507	.0002980	8.736828	-.000737	.0005659	.0054436	.0207263
#3	.0001732	.0005161	8.715951	-.000364	.0004987	.0053735	.0128446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1238049**	**1.486169**	**.0022409**	**-.000307**	**211.6325**	**-.000683**	**.0882795**
Stddev	.0012803	.013873	.0000523	.000340	2.8214	.001132	.0003623
%RSD	1.034108	.9334592	2.334288	110.4692	1.333177	165.7780	.4104208
#1	.1238770	1.476877	.0022517	-.000598	210.6402	-.001623	.0881826
#2	.1250476	1.479515	.0022870	-.000390	214.8160	.000573	.0886804
#3	.1224901	1.502115	.0021841	.000066	209.4412	-.000999	.0879755

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2950773**	**.0088426**	**.0007345**	**-.020572**	**-.000630**	**.4799475**	**.0069709**
Stddev	.0523051	.0007509	.0003014	.000511	.000931	.0121678	.0009306
%RSD	17.72589	8.492211	41.04224	2.484559	147.8338	2.535246	13.35054
#1	.3159710	.0080079	.0010820	-.020405	-.001632	.4939953	.0078605
#2	.3337060	.0094634	.0005436	-.021145	-.000462	.4731483	.0060040
#3	.2355549	.0090564	.0005778	-.020165	.000206	.4726988	.0070481

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-04 Acquired: 10/7/2025 17:23:33 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.4161875	-.003917	.0511958
Stddev	.0030858	.003703	.0005065
%RSD	.7414500	94.52246	.9893936
#1	.4165830	-.007856	.0509649
#2	.4190565	-.003388	.0517766
#3	.4129230	-.000508	.0508459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6792.727	104291.4	7326.894	5263.025	7860.637
Stddev	12.182	290.6	52.550	30.464	23.824
%RSD	.1793399	.2786071	.7172147	.5788214	.3030786
#1	6789.242	104621.3	7309.573	5241.360	7856.618
#2	6782.667	104179.5	7385.917	5297.858	7839.079
#3	6806.271	104073.5	7285.191	5249.858	7886.215

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06 Acquired: 10/7/2025 17:27:50 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.003749**	**.0013980**	**.0002587**	**.0024668**	**-.002535**	**.1022931**	**.0882978**
Stddev	.000622	.0019292	.0007361	.0020033	.001916	.0083194	.0020705
%RSD	16.58946	138.0022	284.5179	81.21028	75.56263	8.132910	2.344898
#1	-.004356	-.000097	.0003641	.0041244	-.000860	.0958354	.0883161
#2	-.003113	.003576	.0009363	.0002407	-.002123	.0993626	.0903590
#3	-.003778	.000715	-.000524	.0030351	-.004624	.1116812	.0862182

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002461**	**.0001711**	**3.802227**	**.0009477**	**.0004109**	**.0051850**	**.0097582**
Stddev	.0000608	.0000492	.013078	.0002844	.0000967	.0002663	.0104470
%RSD	24.70197	28.73835	.3439450	30.01139	23.53722	5.135445	107.0587
#1	.0001829	.0002166	3.788460	.0006218	.0003839	.0053642	.0216857
#2	.0003042	.0001777	3.814484	.0011457	.0003305	.0048790	.0053575
#3	.0002512	.0001189	3.803737	.0010756	.0005182	.0053118	.0022315

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1477975**	**1.244379**	**.0040151**	**-.000335**	**200.3781**	**-.001385**	**.0382045**
Stddev	.0008714	.010926	.0003896	.000316	1.6796	.001959	.0001697
%RSD	.5896005	.8780661	9.704271	94.23654	.8382086	141.5096	.4441498
#1	.1468200	1.252243	.0037147	-.000696	199.8258	-.000603	.0380254
#2	.1480795	1.248992	.0038752	-.000109	202.2643	-.003614	.0383628
#3	.1484929	1.231903	.0044554	-.000201	199.0443	.000063	.0382253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2779315**	**.0014338**	**.0003330**	**-.021295**	**-.001390**	**.3209148**	**.0074680**
Stddev	.0197695	.0001429	.0001391	.000417	.001817	.0104598	.0001033
%RSD	7.113100	9.968165	41.76187	1.958691	130.7181	3.259380	1.383675
#1	.3007043	.0012764	.0002450	-.021692	.000207	.3157081	.0073487
#2	.2651729	.0014695	.0002607	-.021331	-.003366	.3140802	.0075263
#3	.2679172	.0015555	.0004934	-.020861	-.001011	.3329562	.0075291

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06 Acquired: 10/7/2025 17:27:50 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**.1319884**	**-.001988**	**.0205483**
Stddev	.0028346	.000167	.0001722
%RSD	2.147641	8.381682	.8378417
#1	.1288065	-.002180	.0203725
#2	.1329151	-.001892	.0207166
#3	.1342438	-.001891	.0205557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7000.290**	**95816.40**	**7555.905**	**4911.603**	**8131.228**
Stddev	13.370	319.53	30.222	34.980	17.774
%RSD	.1909890	.3334782	.3999743	.7121859	.2185852
#1	6985.012	95785.85	7573.155	4874.122	8114.767
#2	7009.850	95513.25	7573.550	4917.308	8150.073
#3	7006.007	96150.11	7521.008	4943.380	8128.843

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06DUP Acquired: 10/7/2025 17:32:08 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.005745**	**.0044491**	**.0015216**	**.0023671**	**-.000773**	**.1574519**	**.1277411**
Stddev	.001103	.0013606	.0008151	.0003514	.002026	.0024482	.0019636
%RSD	19.19364	30.58134	53.56899	14.84486	261.8788	1.554901	1.537167
#1	-.005011	.0029948	.0016016	.0024700	.001563	.1552339	.1261799
#2	-.005211	.0056910	.0022938	.0019757	-.002041	.1570430	.1299457
#3	-.007014	.0046616	.0006695	.0026555	-.001842	.1600788	.1270976

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003021**	**.0002281**	**5.502107**	**-.000743**	**.0003884**	**.0041927**	**.0162895**
Stddev	.0000284	.0000816	.024311	.000417	.0000827	.0000972	.0120171
%RSD	9.406124	35.76022	.4418435	56.10319	21.30071	2.318055	73.77170
#1	.0003116	.0002903	5.478162	-.000480	.0003663	.0042884	.0056799
#2	.0002701	.0002582	5.526768	-.000525	.0003190	.0041955	.0293395
#3	.0003245	.0001357	5.501390	-.001224	.0004800	.0040941	.0138492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2167401**	**1.815536**	**.0034381**	**-.000231**	**272.6711**	**-.004179**	**.0547874**
Stddev	.0007370	.042609	.0000742	.000192	1.6222	.000432	.0002071
%RSD	.3400224	2.346900	2.156849	82.93331	.5949138	10.33585	.3780859
#1	.2158923	1.770164	.0034265	-.000153	273.2215	-.004628	.0547231
#2	.2172275	1.821741	.0033705	-.000450	273.9465	-.003766	.0546200
#3	.2171004	1.854702	.0035174	-.000091	270.8454	-.004143	.0550191

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5871065**	**.0040525**	**.0006188**	**-.020813**	**-.001808**	**.4341322**	**.0091780**
Stddev	.0112601	.0000817	.0003620	.000496	.001525	.0207335	.0013792
%RSD	1.917898	2.017358	58.50474	2.383693	84.32471	4.775855	15.02748
#1	.5759422	.0039638	.0003453	-.021381	-.002764	.4121553	.0102749
#2	.5869172	.0041249	.0010293	-.020468	-.000050	.4368962	.0076296
#3	.5984600	.0040687	.0004818	-.020589	-.002611	.4533451	.0096295

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06DUP Acquired: 10/7/2025 17:32:08 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.1942776	-.003576	.0294202
Stddev	.0027853	.002041	.0002862
%RSD	1.433665	57.08646	.9728255
#1	.1933746	-.004668	.0291012
#2	.1974023	-.001221	.0296544
#3	.1920558	-.004838	.0295050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6909.246	97240.22	7327.295	4946.543	7936.733
Stddev	23.199	477.23	64.177	23.561	34.092
%RSD	.3357664	.4907791	.8758631	.4763213	.4295457
#1	6935.120	97745.70	7401.308	4969.005	7974.857
#2	6902.317	97177.52	7293.497	4922.018	7926.166
#3	6890.302	96797.43	7287.081	4948.606	7909.175

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06LX5 Acquired: 10/7/2025 17:36:34 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**-.002752**	**.0062604**	**.0002072**	**-.000862**	**-.002532**	**.0344475**	**.0086640**
Stddev	.000560	.0019227	.0001931	.002021	.000994	.0146600	.0002837
%RSD	20.33155	30.71152	93.18907	234.3967	39.24968	42.55739	3.274121
#1	-.002507	.0071954	.0002683	-.002869	-.001423	.0196495	.0084463
#2	-.002357	.0075368	.0003623	-.000890	-.003341	.0489654	.0085609
#3	-.003392	.0040491	-.000009	.001172	-.002831	.0347276	.0089848

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001902**	**.0001538**	**.8013191**	**-.001210**	**.0000988**	**.0019669**	**3.978375**
Stddev	.0000525	.0000620	.0123722	.000277	.0000816	.0001726	.027107
%RSD	27.61154	40.34971	1.543983	22.87537	82.59359	8.777223	.6813522
#1	.0001424	.0000874	.7870801	-.000895	.0000745	.0018414	3.961067
#2	.0002464	.0001636	.8094427	-.001412	.0000321	.0021638	4.009614
#3	.0001819	.0002103	.8074347	-.001324	.0001899	.0018954	3.964443

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0295913**	**.2589022**	**.0005555**	**-.000293**	**36.27203**	**-.003608**	**.0083702**
Stddev	.0003922	.0209265	.0002511	.000231	.18822	.003045	.0000392
%RSD	1.325515	8.082793	45.20720	78.85681	.5189127	84.41196	.4685381
#1	.0292531	.2437675	.0005456	-.000122	36.30707	-.003712	.0083365
#2	.0300213	.2501563	.0008115	-.000202	36.44026	-.006600	.0084132
#3	.0294994	.2827829	.0003095	-.000556	36.06875	-.000512	.0083610

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.546221**	**-.001328**	**-.000106**	**-.004626**	**.0005678**	**.0418454**	**-.000755**
Stddev	.037798	.000269	.000204	.000154	.0018451	.0184284	.000893
%RSD	2.444517	20.24926	191.6534	3.337056	324.9354	44.03920	118.1496
#1	1.522004	-.001634	.000035	-.004561	-.001457	.0492084	-.001573
#2	1.526884	-.001225	-.000014	-.004802	.001005	.0554539	-.000890
#3	1.589775	-.001126	-.000340	-.004515	.002155	.0208739	.000197

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06LX5 Acquired: 10/7/2025 17:36:34 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.0297957	.0128603	.0003451
Stddev	.0009332	.0019877	.0001106
%RSD	3.131972	15.45596	32.05738
#1	.0287644	.0147942	.0004183
#2	.0300412	.0129637	.0002178
#3	.0305817	.0108229	.0003991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6973.282	102971.8	7324.277	5206.153	8374.150
Stddev	3.638	61.4	36.854	20.998	4.084
%RSD	.0521696	.0596033	.5031792	.4033228	.0487707
#1	6972.373	102906.5	7297.784	5199.971	8374.191
#2	6970.184	103028.4	7366.364	5229.547	8370.045
#3	6977.288	102980.4	7308.681	5188.940	8378.213

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06MS Acquired: 10/7/2025 17:40:54 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**.7629924**	**1.873345**	**.8723045**	**1.952941**	**.7617053**	**1.918259**	**.2781138**
Stddev	.0023990	.043970	.0032789	.006051	.0018969	.012452	.0014027
%RSD	.3144134	2.347117	.3758901	.3098322	.2490385	.6491545	.5043704
#1	.7617577	1.924018	.8739695	1.956367	.7637542	1.917873	.2767783
#2	.7614622	1.850753	.8685271	1.945955	.7600102	1.906004	.2795752
#3	.7657572	1.845264	.8744167	1.956502	.7613513	1.930900	.2779880

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1789726**	**.1821582**	**5.299896**	**.3786402**	**.1833486**	**.2781663**	**2.795492**
Stddev	.0025312	.0002942	.022666	.0009826	.0001339	.0006658	.029580
%RSD	1.414302	.1614869	.4276707	.2594978	.0730076	.2393628	1.058129
#1	.1770537	.1823517	5.277809	.3788808	.1831950	.2774467	2.823778
#2	.1780226	.1823033	5.323100	.3775597	.1834108	.2787605	2.797928
#3	.1818413	.1818197	5.298780	.3794801	.1834401	.2782916	2.764769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3618764**	**3.255946**	**.4597001**	**.0670053**	**213.3443**	**.2760115**	**.2300442**
Stddev	.0005216	.015180	.0004989	.0004065	2.5438	.0055456	.0003825
%RSD	.1441292	.4662385	.1085224	.6066591	1.192360	2.009189	.1662717
#1	.3616837	3.264066	.4595841	.0667522	215.5427	.2763239	.2301810
#2	.3624670	3.238432	.4602467	.0674742	213.9322	.2703163	.2296121
#3	.3614787	3.265339	.4592694	.0667895	210.5580	.2813943	.2303395

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.379622**	**.2518434**	**.4114252**	**.6587176**	**.1846519**	**1.142595**	**5.501206**
Stddev	.079100	.0034084	.0005101	.0006733	.0008622	.013918	.008883
%RSD	.8433170	1.353381	.1239806	.1022060	.4669513	1.218092	.1614806
#1	9.429870	.2490702	.4119483	.6588775	.1847569	1.145601	5.507418
#2	9.420554	.2508115	.4113980	.6592965	.1854569	1.154765	5.505169
#3	9.288444	.2556485	.4109292	.6579788	.1837420	1.127420	5.491031

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06MS Acquired: 10/7/2025 17:40:54 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**.1887264**	**.1651068**	**.1978621**
Stddev	.0042415	.0014462	.0005341
%RSD	2.247439	.8759073	.2699152
#1	.1920130	.1661123	.1984785
#2	.1902279	.1657588	.1975710
#3	.1839384	.1634494	.1975369

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6927.614**	**102470.5**	**7443.624**	**5199.311**	**7975.088**
Stddev	7.845	349.4	89.971	26.700	13.976
%RSD	.1132405	.3409569	1.208697	.5135240	.1752441
#1	6918.935	102076.3	7501.754	5176.253	7959.975
#2	6929.706	102742.1	7489.128	5228.563	7977.745
#3	6934.200	102593.0	7339.991	5193.116	7987.545

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06MSD Acquired: 10/7/2025 17:44:55 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**.8087310**	**1.900240**	**.9236010**	**2.088571**	**.7980004**	**2.052381**	**.3373038**
Stddev	.0028030	.039659	.0012175	.003741	.0026569	.004595	.0022483
%RSD	.3465947	2.087056	.1318191	.1791190	.3329417	.2238969	.6665530
#1	.8056091	1.912269	.9246532	2.084443	.7950190	2.056250	.3381336
#2	.8110318	1.932492	.9222675	2.091738	.7988642	2.047302	.3347585
#3	.8095522	1.855959	.9238824	2.089532	.8001178	2.053592	.3390192

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1858223**	**.1929509**	**7.494288**	**.3928954**	**.1928451**	**.2905016**	**2.981600**
Stddev	.0018592	.0003676	.027847	.0013903	.0003488	.0006199	.027393
%RSD	1.000519	.1904911	.3715720	.3538575	.1808593	.2133828	.9187338
#1	.1850507	.1933688	7.485258	.3937135	.1932230	.2911494	3.006178
#2	.1844732	.1926781	7.472078	.3936827	.1925356	.2904414	2.986554
#3	.1879430	.1928057	7.525530	.3912902	.1927769	.2899140	2.952068

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4461221**	**4.021112**	**.4854742**	**.0713365**	**319.6693**	**.2905148**	**.2621180**
Stddev	.0030129	.065082	.0010127	.0004994	5.6897	.0032474	.0006985
%RSD	.6753512	1.618519	.2086047	.7000174	1.779860	1.117815	.2664927
#1	.4482242	4.089216	.4864095	.0707916	316.7678	.2872134	.2613152
#2	.4426703	3.959544	.4856144	.0714456	326.2247	.2937054	.2624524
#3	.4474718	4.014577	.4843987	.0717723	316.0153	.2906256	.2625865

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.33874**	**.2664860**	**.4213333**	**.6894719**	**.1904233**	**1.376025**	**5.933605**
Stddev	.14673	.0039922	.0006852	.0020503	.0017019	.002602	.030837
%RSD	1.419224	1.498107	.1626364	.2973795	.8937380	.1891072	.5197043
#1	10.44299	.2662164	.4219178	.6906976	.1916120	1.376411	5.941414
#2	10.40227	.2626354	.4215029	.6906131	.1911842	1.378414	5.959787
#3	10.17095	.2706063	.4205792	.6871048	.1884737	1.373252	5.899614

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06MSD Acquired: 10/7/2025 17:44:55 Type: Unk
Method: 6010-200.7 NEW(v266) 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	.2627196	.1721394	.2149836
Stddev	.0025472	.0022336	.0011257
%RSD	.9695532	1.297538	.5236318
#1	.2605562	.1714462	.2151342
#2	.2655270	.1703347	.2137902
#3	.2620754	.1746374	.2160265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6907.455	101527.9	7576.419	5208.143	7803.650
Stddev	7.407	913.3	43.193	20.981	17.417
%RSD	.1072365	.8995490	.5700918	.4028572	.2231842
#1	6904.677	100791.1	7591.641	5217.701	7788.772
#2	6901.838	101242.8	7609.939	5184.085	7799.371
#3	6915.849	102549.7	7527.676	5222.644	7822.807

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV06 Acquired: 10/7/2025 17:49:03 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**5.036950**	**4.749463**	**4.881186**	**5.150556**	**5.026629**	**9.871254**	**9.455128**
Stddev	.017833	.336193	.002286	.023632	.011489	.032038	.023555
%RSD	.3540458	7.078540	.0468388	.4588178	.2285680	.3245579	.2491257
#1	5.017931	4.410651	4.880850	5.127284	5.039738	9.862776	9.474716
#2	5.039625	4.754764	4.879086	5.149851	5.018310	9.844308	9.428992
#3	5.053295	5.082974	4.883622	5.174532	5.021840	9.906679	9.461678

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2444205**	**2.460071**	**24.36433**	**1.002382**	**2.444297**	**1.248749**	**4.839315**
Stddev	.0009353	.005830	.06170	.002194	.002541	.001118	.034414
%RSD	.3826554	.2369881	.2532547	.2188799	.1039362	.0895521	.7111303
#1	.2433636	2.455599	24.40856	1.004832	2.442200	1.247929	4.878697
#2	.2447568	2.457950	24.29384	1.000599	2.443568	1.248296	4.815031
#3	.2451411	2.466665	24.39058	1.001716	2.447122	1.250023	4.824218

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.416055**	**24.71130**	**2.447478**	**1.229313**	**23.84098**	**2.463052**	**2.483502**
Stddev	.009826	.10542	.003527	.001792	.17017	.007118	.008489
%RSD	.4066978	.4266131	.1441170	.1457542	.7137784	.2889872	.3418213
#1	2.421177	24.72648	2.445184	1.229734	24.03379	2.464231	2.493141
#2	2.404727	24.59911	2.445710	1.230857	23.71176	2.455418	2.480228
#3	2.422263	24.80830	2.451539	1.227348	23.77740	2.469507	2.477137

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.21255**	**4.814039**	**5.074697**	**4.973867**	**4.877584**	**4.989869**	**4.985208**
Stddev	.11338	.018654	.008515	.020021	.019049	.035239	.050951
%RSD	.4497011	.3875017	.1677920	.4025263	.3905437	.7062131	1.022041
#1	25.34092	4.792667	5.067223	4.954306	4.892980	5.021990	4.929118
#2	25.17061	4.827050	5.072902	4.972978	4.856281	4.952176	4.997878
#3	25.12611	4.822401	5.083966	4.994318	4.883489	4.995442	5.028628

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV06 Acquired: 10/7/2025 17:49:03 Type: Unk
Method: 6010-200.7 NEW(v266) 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	**5.093191**	**4.541603**	**4.812303**
Stddev	.069389	.014116	.059656
%RSD	1.362378	.3108235	1.239664
#1	5.018697	4.552243	4.854996
#2	5.104891	4.525589	4.744139
#3	5.155986	4.546977	4.837774

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6834.093**	**101416.8**	**7359.050**	**5140.391**	**7845.115**
Stddev	5.279	213.7	21.797	35.559	10.483
%RSD	.0772409	.2107033	.2961940	.6917562	.1336283
#1	6839.546	101170.8	7382.545	5104.503	7857.068
#2	6829.008	101556.3	7355.118	5175.612	7840.795
#3	6833.723	101523.3	7339.487	5141.057	7837.482

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB06 Acquired: 10/7/2025 17:59:06 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**-.004690**	**-.002023**	**-.001224**	**.0009072**	**-.001759**	**-.014288**	**-.012864**
Stddev	.003330	.002517	.000774	.0040268	.000952	.006582	.002076
%RSD	71.00917	124.4178	63.18745	443.8992	54.14513	46.06531	16.14072
#1	-.001002	.000566	-.001543	-.003422	-.002238	-.013258	-.011806
#2	-.007477	-.002174	-.001788	.004541	-.000662	-.008281	-.011529
#3	-.005592	-.004460	-.000342	.001603	-.002376	-.021323	-.015256

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000082**	**.0000844**	**-.026337**	**-.000957**	**-.000125**	**-.000222**	**-.000591**
Stddev	.000103	.0000350	.015228	.000408	.000147	.000318	.007945
%RSD	126.6744	41.49737	57.81958	42.59041	117.3731	143.3940	1343.767
#1	.000026	.0001161	-.031607	-.001221	-.000288	.000133	-.009540
#2	-.000090	.0000905	-.009174	-.001163	-.000082	-.000484	.002133
#3	-.000180	.0000468	-.038231	-.000488	-.000004	-.000315	.005634

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000552**	**-.046904**	**-.000331**	**-.000769**	**-.326258**	**.0017364**	**-.000313**
Stddev	.000667	.002659	.000225	.000372	.027931	.0034965	.000140
%RSD	120.8000	5.668464	68.11746	48.32448	8.561014	201.3681	44.54878
#1	-.001241	-.043858	-.000493	-.000914	-.300398	.0052812	-.000169
#2	-.000504	-.048094	-.000426	-.001047	-.322499	.0016377	-.000447
#3	.000089	-.048759	-.000073	-.000347	-.355879	-.001710	-.000323

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.326502**	**-.002430**	**.0000000**	F **-.021789**	**-.000552**	**-.002166**	**-.001846**
Stddev	.038043	.000052	.0000626	.000093	.000825	.012688	.000410
%RSD	11.65181	2.149011	265899.4	.4249064	149.4986	585.6622	22.19163
#1	-.368040	-.002377	-.000051	-.021756	-.001502	.011044	-.002059
#2	-.318113	-.002481	.000070	-.021718	-.000018	-.003286	-.002104
#3	-.293354	-.002431	-.000018	-.021894	-.000135	-.014257	-.001373

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB06 Acquired: 10/7/2025 17:59:06 Type: Unk
Method: 6010-200.7 NEW(v272) 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	-.005941	-.000866	-.000140
Stddev	.000858	.001181	.000167
%RSD	14.43481	136.3140	119.5189
#1	-.006898	-.002221	-.000308
#2	-.005244	-.000319	-.000136
#3	-.005680	-.000058	.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7176.417	100275.5	6947.544	5092.572	9020.513
Stddev	11.483	566.5	33.297	33.798	16.260
%RSD	.1600048	.5649328	.4792666	.6636632	.1802569
#1	7173.858	99633.1	6909.647	5063.130	9018.358
#2	7188.963	100703.6	6972.113	5129.477	9037.743
#3	7166.429	100489.8	6960.871	5085.108	9005.438

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06A Acquired: 10/7/2025 18:03:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.7646079**	**1.832527**	**.8816134**	**1.960630**	**.7773565**	**1.904193**	**.2604638**
Stddev	.0019337	.095732	.0033971	.003893	.0002654	.009246	.0012272
%RSD	.2529044	5.224060	.3853311	.1985441	.0341445	.4855494	.4711412
#1	.7631209	1.722263	.8780888	1.956553	.7771588	1.913964	.2596095
#2	.7667939	1.880880	.8848668	1.961029	.7776582	1.903033	.2599120
#3	.7639089	1.894440	.8818848	1.964308	.7772526	1.895582	.2618700

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1867027**	**.1823488**	**4.681343**	**.3798317**	**.1836427**	**.2813088**	**2.882641**
Stddev	.0010221	.0004515	.020516	.0004621	.0001814	.0005857	.010579
%RSD	.5474411	.2476137	.4382417	.1216589	.0988086	.2082183	.3669900
#1	.1878781	.1819255	4.700473	.3801832	.1834630	.2819446	2.876898
#2	.1862074	.1822968	4.659677	.3793083	.1836395	.2811905	2.876176
#3	.1860227	.1828240	4.683878	.3800035	.1838258	.2807912	2.894850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3315162**	**3.061183**	**.4623762**	**.0692003**	**191.2313**	**.2763941**	**.2307593**
Stddev	.0007448	.013081	.0006408	.0001240	.2053	.0009801	.0013974
%RSD	.2246587	.4273327	.1385998	.1791885	.1073683	.3546070	.6055740
#1	.3323238	3.047565	.4624330	.0692800	191.3956	.2758065	.2314964
#2	.3313685	3.062331	.4617088	.0692635	191.0011	.2758501	.2316338
#3	.3308563	3.073652	.4629867	.0690574	191.2972	.2775255	.2291476

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.321121**	**.2677034**	**.4149451**	**.6690301**	**.1859089**	**1.148014**	**5.505078**
Stddev	.014880	.0017078	.0006088	.0017623	.0013740	.010290	.029859
%RSD	.1596340	.6379554	.1467193	.2634124	.7390582	.8963314	.5423966
#1	9.311540	.2695527	.4143857	.6670386	.1846221	1.150316	5.471119
#2	9.338263	.2661857	.4155935	.6696634	.1857485	1.156958	5.516895
#3	9.313560	.2673718	.4148561	.6703882	.1873560	1.136768	5.527220

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-06A Acquired: 10/7/2025 18:03:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.1268604	.1683335	.1935305
Stddev	.0028585	.0035339	.0007473
%RSD	2.253252	2.099347	.3861460
#1	.1259072	.1724141	.1943754
#2	.1300737	.1662947	.1932598
#3	.1246003	.1662917	.1929563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6943.011	97799.03	7198.829	5008.669	7998.946
Stddev	5.496	122.91	39.672	11.916	13.723
%RSD	.0791585	.1256740	.5510928	.2379145	.1715629
#1	6947.458	97809.05	7158.922	4997.061	8009.034
#2	6944.709	97671.41	7199.304	5008.076	8004.486
#3	6936.866	97916.61	7238.262	5020.872	7983.319

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3287-02 Acquired: 10/7/2025 18:07:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**-.003530**	**-.006011**	**.0042163**	**.0032128**	**.0004322**	**.0239276**	**-.008020**
Stddev	.000351	.001027	.0010727	.0032459	.0011401	.0160150	.000957
%RSD	9.944188	17.08164	25.44287	101.0278	263.8097	66.93106	11.93801
#1	-.003363	-.005328	.0034000	.0031384	-.000481	.0220180	-.008263
#2	-.003295	-.005514	.0054313	.0064953	.001710	.0089530	-.006965
#3	-.003934	-.007192	.0038176	.0000048	.000067	.0408118	-.008833

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**.0000622**	**3.105843**	**.0000072**	**-.000311**	**.1245268**	**.3821515**
Stddev	.000018	.0000772	.008042	.0002893	.000102	.0002993	.0059745
%RSD	102.2641	124.0767	.2589315	4010.645	32.87180	.2403405	1.563373
#1	-.000006	.0000442	3.101044	.0003110	-.000273	.1247472	.3877159
#2	-.000009	-.000004	3.101357	-.000024	-.000233	.1241860	.3758377
#3	-.000038	.000147	3.115127	-.000265	-.000427	.1246471	.3829009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060303**	**.2064816**	**.0003653**	**.0027851**	**-.200613**	**-.002991**	**2.927483**
Stddev	.0002712	.0056333	.0001034	.0005576	.019836	.002992	.008192
%RSD	4.498023	2.728235	28.32240	20.02142	9.887696	100.0172	.2798405
#1	.0060480	.1999787	.0004396	.0033145	-.223515	-.005974	2.931578
#2	.0062922	.2098671	.0002471	.0022030	-.189489	-.003008	2.932820
#3	.0057506	.2095991	.0004091	.0028377	-.188836	.000009	2.918050

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.225031**	**1.287298**	**.3363540**	**-.003878**	**.0026974**	**.0611771**	**7.835992**
Stddev	.034181	.013942	.0007908	.000119	.0013092	.0083543	.057241
%RSD	15.18949	1.083059	.2350980	3.059897	48.53435	13.65600	.7304835
#1	-.254917	1.281288	.3371593	-.003777	.0012575	.0516414	7.889962
#2	-.187762	1.303238	.3355786	-.003847	.0038159	.0646811	7.775963
#3	-.232416	1.277370	.3363242	-.004008	.0030188	.0672088	7.842050

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3287-02 Acquired: 10/7/2025 18:07:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**4.697338**	**-.003173**	**.0014097**
Stddev	.032433	.002871	.0000556
%RSD	.6904629	90.48189	3.941121
#1	4.731421	-.006469	.0014190
#2	4.666855	-.001213	.0013501
#3	4.693739	-.001838	.0014600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7347.545**	**105609.4**	**7640.757**	**5322.396**	**9298.276**
Stddev	12.593	215.7	83.093	17.144	15.746
%RSD	.1713952	.2042546	1.087500	.3221104	.1693387
#1	7333.642	105806.1	7672.009	5309.412	9280.258
#2	7350.806	105643.2	7546.569	5315.948	9305.181
#3	7358.188	105378.7	7703.692	5341.830	9309.390

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169996BL Acquired: 10/7/2025 18:11:34 Type: Unk
Method: 6010-200.7 NEW(v272) 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	-.004358	-.003998	-.000571	.0030183	-.003276	.0484996	-.011699
Stddev	.000886	.001288	.000670	.0023732	.000791	.0091225	.000925
%RSD	20.34068	32.21034	117.4245	78.62780	24.15660	18.80946	7.903026
#1	-.004242	-.004700	-.000123	.0019274	-.002949	.0514298	-.010831
#2	-.005296	-.004784	-.001341	.0013867	-.002701	.0382721	-.012671
#3	-.003535	-.002512	-.000248	.0057408	-.004179	.0557970	-.011595

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000403	.0000522	-.015023	-.000300	-.000200	-.000004	.0059238
Stddev	.0000561	.0000578	.006063	.000096	.000243	.000257	.0075771
%RSD	139.2448	110.8571	40.35796	31.87679	121.1516	6203.442	127.9110
#1	-.000018	.0000030	-.019812	-.000207	-.000098	.000028	.0097920
#2	.000045	.0001159	-.008206	-.000295	-.000025	.000235	-.002807
#3	.000094	.0000376	-.017050	-.000399	-.000478	-.000276	.010786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000145	-.039858	-.000058	-.000579	-.039519	.0006549	.0023832
Stddev	.000097	.021226	.000295	.000528	.020088	.0020338	.0002549
%RSD	66.85621	53.25528	509.6814	91.10018	50.83065	310.5554	10.69444
#1	-.000049	-.061203	.000264	-.001088	-.055167	.0029974	.0021800
#2	-.000143	-.018752	-.000124	-.000614	-.046523	-.000371	.0026691
#3	-.000243	-.039619	-.000314	-.000035	-.016867	-.000662	.0023004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0914386	-.001644	.0002192	-.012134	.0005811	-.015650	.0039177
Stddev	.0310407	.000671	.0002864	.000581	.0017405	.011406	.0032304
%RSD	33.94709	40.81656	130.6254	4.786587	299.5345	72.88368	82.45583
#1	.0645148	-.000874	.0002933	-.011465	.0007817	-.005490	.0035760
#2	.1253910	-.001957	-.000097	-.012427	.0022126	-.013471	.0073054
#3	.0844101	-.002101	.000461	-.012511	-.001251	-.027988	.0008718

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169996BL Acquired: 10/7/2025 18:11:34 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.0073783	.0025028	.0000027
Stddev	.0033032	.0035801	.0001144
%RSD	44.76962	143.0470	4272.895
#1	.0100745	.0065962	.0001332
#2	.0083668	.0009566	-.000081
#3	.0036937	-.000044	-.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7081.410	102618.7	7322.887	5159.257	8853.627
Stddev	10.788	213.1	11.470	3.906	13.854
%RSD	.1523406	.2076611	.1566312	.0757131	.1564800
#1	7069.421	102850.3	7309.796	5163.070	8837.780
#2	7090.332	102575.0	7331.171	5155.264	8863.445
#3	7084.477	102430.8	7327.695	5159.438	8859.656

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169983BL Acquired: 10/7/2025 18:15:52 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**-.002582**	**-.003564**	**-.000101**	**.0016463**	**-.001339**	**-.021433**	**-.014024**
Stddev	.000510	.001947	.000951	.0002389	.000516	.012420	.000140
%RSD	19.73964	54.63052	938.8488	14.51224	38.55841	57.94845	.9963207
#1	-.003161	-.003943	.000781	.0016699	-.001931	-.034361	-.014019
#2	-.002203	-.005293	.000025	.0013964	-.001097	-.020345	-.013888
#3	-.002381	-.001455	-.001110	.0018725	-.000987	-.009593	-.014167

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000850**	**.0000699**	**-.002656**	**-.001239**	**-.000080**	**-.000149**	**.0040091**
Stddev	.0000296	.0000902	.007058	.000158	.000008	.000074	.0107558
%RSD	34.83504	129.1283	265.7346	12.73016	9.342595	49.79478	268.2853
#1	.0000537	-.000017	-.003875	-.001281	-.000072	-.000207	.0164284
#2	.0000890	.000064	-.009026	-.001065	-.000084	-.000173	-.002106
#3	.0001125	.000163	.004932	-.001372	-.000086	-.000066	-.002295

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000553**	**-.039088**	**-.000024**	**-.000528**	**.1656476**	**-.002369**	**-.000277**
Stddev	.001188	.016878	.000220	.000104	.0030042	.002817	.000325
%RSD	214.9971	43.17846	915.4098	19.75823	1.813630	118.8733	117.2023
#1	-.001670	-.051268	-.000244	-.000580	.1683119	.000600	.000077
#2	-.000683	-.046173	-.000025	-.000408	.1662394	-.005003	-.000560
#3	.000695	-.019823	.000197	-.000595	.1623915	-.002706	-.000348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7819977**	**-.002254**	**-.000441**	**-.001954**	**.0002428**	**-.010802**	**.0010999**
Stddev	.0536201	.000308	.000344	.000183	.0020472	.010792	.0007215
%RSD	6.856811	13.67158	78.08322	9.368823	843.0090	99.90561	65.59964
#1	.7224931	-.002281	-.000272	-.001756	.0024370	-.004547	.0019230
#2	.7969341	-.002547	-.000213	-.001988	-.000093	-.023263	.0008000
#3	.8265661	-.001933	-.000836	-.002117	-.001616	-.004595	.0005766

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169983BL Acquired: 10/7/2025 18:15:52 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.0025874	.0061062	.0000344
Stddev	.0008783	.0013070	.0001531
%RSD	33.94503	21.40476	445.7373
#1	.0035754	.0074687	.0001845
#2	.0022915	.0048628	.0000401
#3	.0018953	.0059870	-.000122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6990.845	101252.3	6954.250	5098.892	8773.379
Stddev	5.395	256.4	79.238	15.823	7.997
%RSD	.0771683	.2531869	1.139413	.3103138	.0911553
#1	6987.413	101198.8	7043.955	5089.075	8771.348
#2	6988.059	101026.9	6893.797	5090.456	8766.592
#3	6997.063	101531.2	6924.997	5117.145	8782.196

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169983BS Acquired: 10/7/2025 18:20:12 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.7972607**	**1.978199**	**.9417473**	**2.068445**	**.8072204**	**1.955595**	**.1782246**
Stddev	.0009688	.166146	.0016109	.006351	.0034423	.009199	.0011319
%RSD	.1215159	8.398853	.1710576	.3070554	.4264431	.4703950	.6350781
#1	.7980672	2.168407	.9399003	2.075629	.8059575	1.966001	.1792025
#2	.7975288	1.904781	.9424793	2.066127	.8045880	1.952239	.1769847
#3	.7961860	1.861409	.9428622	2.063578	.8111159	1.948545	.1784866

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1978750**	**.1893936**	**.9967101**	**.4116942**	**.1914871**	**.3086614**	**2.980322**
Stddev	.0011632	.0002188	.0097155	.0008707	.0004589	.0001864	.002901
%RSD	.5878328	.1155227	.9747583	.2114931	.2396513	.0603799	.0973509
#1	.1975712	.1894120	1.007665	.4122176	.1912020	.3084463	2.981367
#2	.1968940	.1891662	.993325	.4121759	.1912430	.3087730	2.982557
#3	.1991600	.1896026	.989140	.4106891	.1920165	.3087649	2.977043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1979741**	**1.994394**	**.4868992**	**.0741044**	**2.990229**	**.2935439**	**.2019856**
Stddev	.0002589	.019414	.0014636	.0001345	.011977	.0039745	.0007672
%RSD	.1307982	.9734218	.3005967	.1814961	.4005380	1.353960	.3798295
#1	.1977276	2.002160	.4863447	.0741946	3.002633	.2981053	.2011343
#2	.1982439	1.972300	.4857939	.0741689	2.989324	.2908255	.2026235
#3	.1979507	2.008723	.4885590	.0739498	2.978731	.2917008	.2021989

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.750764**	**.2890406**	**.4093983**	**.6721220**	**.1908888**	**.8431496**	**5.679430**
Stddev	.057580	.0014401	.0014443	.0022192	.0015059	.0029399	.049834
%RSD	.5905226	.4982260	.3527850	.3301761	.7888683	.3486768	.8774483
#1	9.743494	.2879391	.4089552	.6722864	.1891649	.8419523	5.732417
#2	9.811634	.2885125	.4082274	.6742544	.1919472	.8464992	5.672373
#3	9.697163	.2906702	.4110122	.6698251	.1915545	.8409973	5.633501

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: PB169983BS Acquired: 10/7/2025 18:20:12 Type: Unk
Method: 6010-200.7 NEW(v272) 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	F -.001838	.1893145	.1893187
Stddev	.002778	.0005765	.0009304
%RSD	151.1653	.3045044	.4914635
#1	.000014	.1899475	.1903602
#2	-.000495	.1891765	.1890265
#3	-.005032	.1888196	.1885695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6987.231	104692.7	7467.765	5292.598	8517.075
Stddev	18.271	509.0	12.138	6.519	13.466
%RSD	.2614955	.4861843	.1625387	.1231783	.1581104
#1	7007.286	104260.2	7457.140	5291.362	8532.439
#2	6982.880	104564.3	7480.993	5286.785	8507.317
#3	6971.529	105253.6	7465.162	5299.647	8511.470

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3288-01 Acquired: 10/7/2025 18:24:14 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.1375985	-.024377	.4249457	.0055445	-.023529	156.3658	.5116602
Stddev	.0013705	.000537	.0028094	.0053073	.000228	.3740	.0018989
%RSD	.9960493	2.201594	.6611204	95.72196	.9685492	.2392125	.3711170
#1	.1361425	-.024424	.4273145	.0087289	-.023782	156.6451	.5096967
#2	.1388636	-.023819	.4256808	.0084868	-.023340	155.9408	.5134871
#3	.1377895	-.024890	.4218419	-.000582	-.023465	156.5115	.5117969

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161930	.0114313	139.1318	.4664994	.0874567	.2800217	329.6333
Stddev	.0000794	.0001961	.2149	.0013369	.0000689	.0013542	3.0440
%RSD	.4905976	1.715832	.1544530	.2865717	.0787980	.4835979	.9234538
#1	.0161015	.0114787	139.3319	.4671336	.0875361	.2813686	328.4430
#2	.0162339	.0112158	138.9047	.4674011	.0874120	.2786604	333.0926
#3	.0162437	.0115993	139.1589	.4649635	.0874221	.2800360	327.3643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.578260	40.92206	.1621105	.0015314	5.720764	.5429834	.7700350
Stddev	.003051	.18948	.0000646	.0016148	.055222	.0044344	.0023981
%RSD	.1183535	.4630244	.0398803	105.4508	.9652859	.8166808	.3114205
#1	2.578706	41.07531	.1621730	-.000028	5.703557	.5476137	.7673720
#2	2.575010	40.71021	.1621144	.003196	5.782541	.5387750	.7720237
#3	2.581064	40.98067	.1620439	.001426	5.676195	.5425615	.7707092

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.55354	.2820825	.0068157	.0236977	2.855156	8.209370	8.209691
Stddev	.24170	.0175890	.0002048	.0010355	.004347	.024153	.011932
%RSD	1.026154	6.235410	3.004324	4.369500	.1522591	.2942122	.1453452
#1	23.42819	.2706238	.0069310	.0227670	2.851927	8.212031	8.216926
#2	23.83216	.3023342	.0069369	.0235130	2.853441	8.232083	8.216229
#3	23.40027	.2732896	.0065793	.0248131	2.860099	8.183998	8.195919

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3288-01 Acquired: 10/7/2025 18:24:14 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**7.337819**	**.1367023**	**.3466528**
Stddev	.011230	.0016856	.0028657
%RSD	.1530396	1.233033	.8266704
#1	7.332003	.1355983	.3465803
#2	7.350764	.1386424	.3438240
#3	7.330691	.1358660	.3495540

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7411.149**	**111524.6**	**7750.873**	**5623.165**	**7418.014**
Stddev	16.904	335.4	63.485	46.139	13.437
%RSD	.2280904	.3007151	.8190718	.8205254	.1811425
#1	7407.902	111886.1	7743.693	5674.128	7412.519
#2	7396.103	111223.5	7817.643	5584.232	7408.195
#3	7429.441	111464.3	7691.283	5611.135	7433.328

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-01 Acquired: 10/7/2025 18:28:15 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0600601**	**-.019070**	**.7107674**	**.0052668**	**-.026478**	**181.4865**	**1.403864**
Stddev	.0028079	.002395	.0005566	.0011830	.001020	.2823	.003400
%RSD	4.675131	12.55873	.0783139	22.46244	3.853487	.1555238	.2421532
#1	.0573844	-.021668	.7105819	.0059974	-.025464	181.2227	1.399993
#2	.0598122	-.016951	.7103273	.0039018	-.027505	181.7842	1.405239
#3	.0629838	-.018590	.7113932	.0059010	-.026467	181.4526	1.406361

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185921**	**.0138191**	**30.89754**	**.2819604**	**.2178807**	**.3237639**	**402.1945**
Stddev	.0001179	.0002466	.09911	.0016902	.0004724	.0018009	1.2181
%RSD	.6339686	1.784248	.3207752	.5994350	.2168223	.5562314	.3028677
#1	.0185010	.0138104	30.79267	.2800515	.2175891	.3251565	401.0673
#2	.0187252	.0140700	30.98966	.2825629	.2176272	.3244050	402.0294
#3	.0185500	.0135771	30.91029	.2832668	.2184257	.3217302	403.4867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.838510**	**82.59015**	**.4386564**	**.0100583**	**3.705001**	**.3919514**	**1.237735**
Stddev	.027222	.30720	.0004369	.0004336	.020602	.0028399	.004088
%RSD	.3079898	.3719627	.0995975	4.310893	.5560499	.7245469	.3302551
#1	8.811608	82.34857	.4382412	.0104771	3.686699	.3950959	1.236726
#2	8.866040	82.93589	.4391121	.0096113	3.700991	.3895735	1.242233
#3	8.837882	82.48599	.4386160	.0100866	3.727313	.3911849	1.234247

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.44750**	**.3713120**	**.0052100**	**.1396563**	**4.272525**	**1.849193**	**6.528248**
Stddev	.11379	.0049484	.0007940	.0011610	.009418	.012502	.009028
%RSD	.3864146	1.332671	15.23950	.8313174	.2204424	.6760850	.1382934
#1	29.43082	.3697179	.0043504	.1383164	4.263694	1.835339	6.518030
#2	29.34297	.3673572	.0053641	.1402881	4.271442	1.852606	6.531570
#3	29.56871	.3768610	.0059158	.1403644	4.282438	1.859634	6.535146

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-01 Acquired: 10/7/2025 18:28:15 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.8298565	.5839738	-.218376
Stddev	.0064541	.0028213	.001119
%RSD	.7777420	.4831238	.5125196
#1	.8337100	.5829144	-.217489
#2	.8334542	.5871715	-.218007
#3	.8224054	.5818356	-.219634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8183.523	120385.8	9095.145	6104.213	7496.482
Stddev	7.489	449.0	36.192	15.247	10.789
%RSD	.0915076	.3730023	.3979258	.2497777	.1439207
#1	8183.137	120718.3	9136.800	6118.015	7495.096
#2	8191.197	120564.0	9071.399	6087.846	7507.898
#3	8176.235	119875.0	9077.236	6106.776	7486.454

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-03 Acquired: 10/7/2025 18:32:18 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.1149050**	**-.023401**	**1.011292**	**.0116008**	**-.021923**	**284.8860**	**1.106210**
Stddev	.0044801	.002026	.000639	.0045690	.001569	.6706	.004392
%RSD	3.898987	8.656992	.0631513	39.38522	7.155706	.2353999	.3969955
#1	.1197244	-.022312	1.010643	.0063712	-.022358	285.1890	1.111122
#2	.1141238	-.025739	1.011314	.0148189	-.023229	284.1174	1.102662
#3	.1108669	-.022154	1.011919	.0136123	-.020183	285.3517	1.104846

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0209329**	**.0160880**	**27.48106**	**.4334552**	**.1856389**	**.5397509**	**472.5552**
Stddev	.0005362	.0004476	.07827	.0006846	.0003769	.0017597	2.2839
%RSD	2.561433	2.782395	.2848287	.1579289	.2030528	.3260150	.4833049
#1	.0214567	.0160449	27.54556	.4340787	.1860330	.5417269	470.8430
#2	.0203851	.0156635	27.39397	.4327227	.1852819	.5383528	475.1484
#3	.0209569	.0165556	27.50364	.4335641	.1856018	.5391732	471.6743

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.991586**	**58.04802**	**.4300891**	**.0112049**	**5.812563**	**.6916005**	**1.796614**
Stddev	.024233	.30289	.0005623	.0010682	.070807	.0032247	.003253
%RSD	.4044541	.5217926	.1307374	9.533424	1.218171	.4662606	.1810786
#1	6.014374	58.20248	.4305853	.0101354	5.777977	.6884952	1.800012
#2	5.966129	57.69904	.4294783	.0122718	5.894016	.6913737	1.793528
#3	5.994255	58.24254	.4302036	.0112076	5.765697	.6949325	1.796304

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.53205**	**.3090238**	**.0057216**	**.0557642**	**3.672057**	**2.421507**	**6.322380**
Stddev	.12406	.0227691	.0002311	.0002031	.014560	.008582	.020076
%RSD	.7076013	7.368079	4.038863	.3641391	.3965090	.3544046	.3175369
#1	17.41562	.2858528	.0056870	.0559804	3.688524	2.415968	6.331838
#2	17.66254	.3313686	.0055097	.0555776	3.660885	2.431393	6.335979
#3	17.51800	.3098501	.0059680	.0557346	3.666763	2.417161	6.299322

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-03 Acquired: 10/7/2025 18:32:18 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**1.949497**	**.3798715**	**-.255773**
Stddev	.005814	.0022880	.002633
%RSD	.2982304	.6022960	1.029470
#1	1.948252	.3821775	-.253395
#2	1.944407	.3776021	-.258602
#3	1.955833	.3798349	-.255321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8115.657**	**117086.3**	**8625.915**	**5992.116**	**7417.272**
Stddev	11.851	97.5	83.019	20.153	14.886
%RSD	.1460245	.0832948	.9624384	.3363215	.2006961
#1	8105.489	117195.3	8560.551	6004.854	7405.197
#2	8128.672	117007.3	8719.325	6002.612	7433.904
#3	8112.809	117056.4	8597.869	5968.881	7412.715

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-05 Acquired: 10/7/2025 18:36:19 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0561676**	**-.019892**	**.3088008**	**.0060290**	**-.025318**	**186.6908**	**1.055557**
Stddev	.0014000	.004411	.0013961	.0020832	.001390	.9763	.009671
%RSD	2.492617	22.17564	.4520959	34.55286	5.489464	.5229477	.9162127
#1	.0558815	-.024515	.3081473	.0046177	-.024988	185.6057	1.045159
#2	.0576885	-.019429	.3104037	.0050477	-.024124	187.4982	1.064283
#3	.0549327	-.015730	.3078512	.0084216	-.026844	186.9684	1.057229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0190241**	**.0114204**	**14.66382**	**.3006966**	**.2138891**	**.2444030**	**409.8608**
Stddev	.0003175	.0001935	.09934	.0017968	.0002284	.0009045	.5459
%RSD	1.669187	1.694517	.6774565	.5975535	.1067903	.3701030	.1331919
#1	.0186585	.0116174	14.55657	.2987829	.2136577	.2436887	410.2400
#2	.0191831	.0112306	14.75268	.3009593	.2138950	.2441001	410.1073
#3	.0192308	.0114133	14.68221	.3023476	.2141144	.2454201	409.2351

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.139953**	**77.27158**	**.4127157**	**.0075159**	**3.612182**	**.4629249**	**1.125960**
Stddev	.084771	.44808	.0006731	.0006477	.019577	.0029944	.002603
%RSD	.9274753	.5798828	.1630777	8.617251	.5419849	.6468508	.2311359
#1	9.045758	76.75959	.4120113	.0077231	3.616823	.4605973	1.127166
#2	9.210106	77.59224	.4127835	.0080345	3.629023	.4663030	1.122973
#3	9.163995	77.46291	.4133522	.0067899	3.590702	.4618743	1.127740

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.18669**	**.3181780**	**.0044475**	**.0182863**	**4.819049**	**2.216901**	**6.124348**
Stddev	.02211	.0052974	.0003591	.0007234	.039742	.023588	.006458
%RSD	.0844310	1.664915	8.073577	3.955732	.8246822	1.063991	.1054436
#1	26.16546	.3242750	.0048556	.0181614	4.775497	2.242258	6.124648
#2	26.20959	.3147021	.0041798	.0190639	4.853349	2.212834	6.117745
#3	26.18503	.3155569	.0043072	.0176334	4.828300	2.195612	6.130650

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3289-05 Acquired: 10/7/2025 18:36:19 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.6220297**	**.5379962**	**-.268216**
Stddev	.0060723	.0029632	.001317
%RSD	.9762074	.5507909	.4910298
#1	.6262584	.5345890	-.269727
#2	.6247591	.5399719	-.267603
#3	.6150717	.5394277	-.267317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7969.004**	**113180.2**	**8241.169**	**5746.280**	**7527.165**
Stddev	7.844	442.9	84.362	39.228	1.794
%RSD	.0984264	.3913484	1.023663	.6826649	.0238335
#1	7971.006	113465.6	8336.848	5737.132	7529.216
#2	7975.652	113405.0	8209.174	5789.274	7526.397
#3	7960.353	112669.9	8177.484	5712.435	7525.884

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01 Acquired: 10/7/2025 18:40:21 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0401499**	**-.014049**	**.2160631**	**.0045999**	**-.017871**	**133.1616**
Stddev	.0018532	.004139	.0009817	.0052814	.004906	.7290
%RSD	4.615758	29.46140	.4543433	114.8164	27.45352	.5474778
#1	.0384012	-.013009	.2153431	.0084843	-.023487	133.2619
#2	.0420924	-.018609	.2156649	.0067292	-.014421	132.3877
#3	.0399561	-.010529	.2171813	-.001414	-.015704	133.8354

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5729137**	**.0091091**	**.0108966**	**62.58809**	**.2028045**	**.1748000**
Stddev	.0025962	.0001562	.0002939	.29961	.0005883	.0005087
%RSD	.4531630	1.714969	2.696945	.4787088	.2900685	.2909878
#1	.5751540	.0091474	.0109084	62.66432	.2034835	.1747961
#2	.5700684	.0089373	.0111844	62.25772	.2024483	.1753106
#3	.5735186	.0092426	.0105970	62.84222	.2024817	.1742933

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.208502**	**265.9524**	**2.936223**	**54.91309**	**.3389824**	**.0048848**
Stddev	.002527	.3518	.015532	.36314	.0008107	.0003523
%RSD	.2090789	.1322837	.5289896	.6612990	.2391446	7.212258
#1	1.209803	265.8698	2.950354	55.00946	.3392185	.0045814
#2	1.210113	265.6492	2.919592	54.51148	.3396488	.0048019
#3	1.205590	266.3381	2.938723	55.21832	.3380799	.0052712

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.172344**	**.4627678**	**.4536451**	**18.33061**	**.1848853**	**.0093244**
Stddev	.037286	.0063194	.0015054	.00973	.0013534	.0000623
%RSD	.4562458	1.365566	.3318521	.0530853	.7320422	.6678927
#1	8.194676	.4625785	.4552752	18.33001	.1846063	.0092894
#2	8.193055	.4565452	.4533528	18.34063	.1836932	.0093963
#3	8.129300	.4691798	.4523072	18.32120	.1863565	.0092874

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01 Acquired: 10/7/2025 18:40:21 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.0169877	6.765117	2.734968	7.741734	F 12.78353	.1319113
Stddev	.0002568	.014252	.011028	.029102	.05291	.0012893
%RSD	1.511866	.2106694	.4032204	.3759117	.4139245	.9773666
#1	.0171508	6.774749	2.722237	7.737573	12.74922	.1308352
#2	.0171207	6.748746	2.741127	7.772693	12.84447	.1333402
#3	.0166917	6.771858	2.741542	7.714936	12.75691	.1315585

Elem	Sr4077
Units	ppm
Avg	-.091183
Stddev	.000489
%RSD	.5366089
#1	-.090626
#2	-.091544
#3	-.091378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8021.230	121482.3	9057.081	6131.214	7529.051
Stddev	16.177	139.5	40.304	10.266	20.839
%RSD	.2016757	.1148110	.4449964	.1674333	.2767749
#1	8015.696	121323.1	9024.960	6136.152	7529.953
#2	8008.547	121583.2	9102.306	6119.413	7507.776
#3	8039.448	121540.6	9043.976	6138.078	7549.424

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV07 Acquired: 10/7/2025 18:44:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**5.122375**	**5.045676**	**4.924866**	**5.280577**	**5.103771**	**9.835673**	**9.565591**
Stddev	.018160	.220970	.006724	.021415	.008321	.027050	.048290
%RSD	.3545314	4.379396	.1365396	.4055477	.1630388	.2750231	.5048334
#1	5.108753	4.859118	4.923972	5.274859	5.105277	9.804764	9.510475
#2	5.115378	4.988207	4.918634	5.262602	5.094800	9.855024	9.600471
#3	5.142993	5.289703	4.931993	5.304271	5.111237	9.847232	9.585826

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2440950**	**2.472868**	**24.43934**	**.9967829**	**2.459377**	**1.260502**	**4.949642**
Stddev	.0011665	.004463	.05454	.0028421	.004314	.003187	.051574
%RSD	.4778691	.1804759	.2231808	.2851298	.1753934	.2528705	1.041970
#1	.2443348	2.470503	24.37702	.9955569	2.459319	1.259404	4.935475
#2	.2428272	2.470086	24.47840	1.000032	2.455093	1.258009	5.006819
#3	.2451229	2.478016	24.46260	.994759	2.463720	1.264093	4.906633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.439013**	**24.62597**	**2.465501**	**1.230255**	**24.61016**	**2.479898**	**2.484004**
Stddev	.013686	.21936	.004022	.001931	.30581	.011709	.009149
%RSD	.5611377	.8907506	.1631472	.1569397	1.242612	.4721458	.3682975
#1	2.424449	24.40527	2.462995	1.232452	24.41957	2.468219	2.493647
#2	2.451609	24.62867	2.463368	1.229483	24.96290	2.479840	2.482919
#3	2.440980	24.84396	2.470141	1.228830	24.44802	2.491636	2.475447

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.01166**	**4.822650**	**5.063680**	**5.011107**	**4.895304**	**5.035217**	**5.170558**
Stddev	.21134	.031666	.015477	.011629	.015164	.042212	.017307
%RSD	.8801549	.6566133	.3056421	.2320632	.3097714	.8383448	.3347158
#1	23.80867	4.818161	5.052503	4.998822	4.877796	5.008571	5.162021
#2	24.23046	4.793469	5.057194	5.012555	4.904274	5.083886	5.159179
#3	23.99583	4.856322	5.081345	5.021944	4.903843	5.013192	5.190475

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV07 Acquired: 10/7/2025 18:44:23 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**5.299557**	**4.512543**	**4.875176**
Stddev	.035666	.019707	.040688
%RSD	.6729943	.4367135	.8345972
#1	5.264762	4.490920	4.847861
#2	5.297875	4.529495	4.855729
#3	5.336034	4.517212	4.921939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6682.250**	**101389.2**	**7361.280**	**5146.796**	**7652.587**
Stddev	7.260	391.5	29.642	32.614	5.430
%RSD	.1086484	.3860900	.4026767	.6336804	.0709582
#1	6689.988	101555.9	7369.741	5129.458	7656.244
#2	6675.588	100942.0	7385.772	5126.514	7646.347
#3	6681.175	101669.7	7328.327	5184.418	7655.169

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB07 Acquired: 10/7/2025 18:48:25 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**-.003293**	**-.002978**	**-.000359**	**.0030139**	**-.002448**	**-.018989**	**-.004341**
Stddev	.003591	.003227	.000250	.0004052	.001822	.012011	.001267
%RSD	109.0535	108.3834	69.64633	13.44319	74.42896	63.25319	29.17742
#1	-.000601	.000108	-.000116	.0025843	-.004484	-.005544	-.004927
#2	-.001908	-.002710	-.000346	.0030684	-.000971	-.028660	-.002888
#3	-.007371	-.006330	-.000615	.0033892	-.001889	-.022762	-.005209

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000021**	**.0001318**	**-.008426**	**-.000772**	**-.000154**	**-.000191**	**.0000725**
Stddev	.000053	.0000133	.008326	.000100	.000127	.000471	.0041975
%RSD	250.6827	10.13097	98.80635	12.93834	82.50287	246.1842	5786.483
#1	.000012	.0001364	-.002286	-.000775	-.000035	-.000548	-.001275
#2	.000007	.0001423	-.017903	-.000671	-.000288	.000343	.004778
#3	-.000082	.0001168	-.005090	-.000870	-.000140	-.000368	-.003286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001756**	**-.061938**	**-.000252**	**-.000539**	**-.341913**	**-.003174**	**.0000539**
Stddev	.0005816	.022732	.000015	.000462	.015585	.003764	.0000778
%RSD	331.1691	36.70195	6.102340	85.73410	4.558235	118.5770	144.4902
#1	.0000196	-.079401	-.000269	-.000010	-.330351	-.007483	-.000030
#2	.0008194	-.036234	-.000247	-.000745	-.335750	-.001515	.000123
#3	-.000312	-.070179	-.000239	-.000863	-.359637	-.000525	.000069

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.409385**	**-.000008**	**.0005828**	F **-.021795**	**.0002863**	**-.005410**	**-.001657**
Stddev	.030891	.000311	.0002715	.000329	.0017783	.004600	.000911
%RSD	7.545795	4119.566	46.57961	1.507588	621.0337	85.02690	54.96997
#1	-.391437	-.000086	.0008070	-.021794	.0021962	-.000175	-.002536
#2	-.391664	.000335	.0002810	-.021467	-.000015	-.007249	-.001717
#3	-.445055	-.000272	.0006603	-.022124	-.001322	-.008806	-.000717

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB07 Acquired: 10/7/2025 18:48:25 Type: Unk
Method: 6010-200.7 NEW(v272) 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	-.001142	-.001290	.0008624
Stddev	.001553	.001954	.0003220
%RSD	135.9950	151.5290	37.34180
#1	-.002407	-.002193	.0011742
#2	.000591	.000953	.0008821
#3	-.001609	-.002629	.0005310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7076.753	100823.3	7405.887	5122.427	8928.326
Stddev	5.195	187.4	10.391	7.780	4.169
%RSD	.0734039	.1859120	.1403087	.1518904	.0466925
#1	7082.682	101018.6	7417.838	5116.425	8932.204
#2	7074.578	100806.5	7400.842	5131.217	8928.859
#3	7073.000	100644.8	7398.982	5119.637	8923.917

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01DUP Acquired: 10/7/2025 18:52:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.0407254	-.018316	.2161261	.0042196	-.019221	133.8756
Stddev	.0023069	.002926	.0009955	.0010939	.001616	.3559
%RSD	5.664426	15.97262	.4606235	25.92539	8.405060	.2658797
#1	.0417983	-.017992	.2157496	.0045463	-.021083	133.5904
#2	.0423005	-.015565	.2153737	.0029995	-.018186	133.7618
#3	.0380775	-.021389	.2172549	.0051129	-.018395	134.2745

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5849622	.0092420	.0093513	63.36569	.2042128	.1747401
Stddev	.0027698	.0000584	.0000857	.20814	.0001642	.0006373
%RSD	.4735048	.6315394	.9165606	.3284778	.0803811	.3647067
#1	.5818498	.0093055	.0092917	63.14501	.2042793	.1752552
#2	.5871561	.0091907	.0094496	63.39357	.2040258	.1740274
#3	.5858806	.0092299	.0093127	63.55848	.2043332	.1749376

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.186092	275.8480	2.993637	55.35931	.3394508	.0069849
Stddev	.001212	1.2226	.018821	.22146	.0001169	.0006382
%RSD	.1021954	.4431991	.6286975	.4000468	.0344509	9.136669
#1	1.185078	275.5987	2.972120	55.17359	.3395322	.0068200
#2	1.185763	277.1760	3.001745	55.29993	.3395034	.0076893
#3	1.187434	274.7693	3.007044	55.60441	.3393168	.0064453

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.417170	.4761174	.4624588	18.93343	.2160252	.0090770
Stddev	.053268	.0014242	.0016550	.09558	.0086666	.0004816
%RSD	.6328544	.2991277	.3578702	.5048470	4.011848	5.306049
#1	8.411450	.4763628	.4625086	18.92262	.2193841	.0085938
#2	8.473067	.4745865	.4640883	19.03397	.2225095	.0095571
#3	8.366992	.4774030	.4607794	18.84372	.2061819	.0090802

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01DUP Acquired: 10/7/2025 18:52:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.0176216	6.887070	3.333620	7.675836	F 12.69921	.1345328
Stddev	.0009040	.024969	.017459	.024662	.01197	.0022718
%RSD	5.130365	.3625469	.5237371	.3212921	.0942491	1.688687
#1	.0186525	6.859646	3.335842	7.665699	12.69861	.1361855
#2	.0172486	6.893076	3.315155	7.703951	12.71146	.1354707
#3	.0169637	6.908489	3.349861	7.657858	12.68755	.1319421

Elem	Sr4077
Units	ppm
Avg	-.098234
Stddev	.001345
%RSD	1.369283
#1	-.099054
#2	-.098966
#3	-.096681

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8128.488	118218.4	8953.527	5967.140	7623.727
Stddev	9.164	235.1	57.776	26.770	4.807
%RSD	.1127360	.1989005	.6452903	.4486282	.0630514
#1	8138.523	117950.3	8983.155	5944.185	7621.322
#2	8120.564	118315.6	8990.480	5960.690	7629.262
#3	8126.378	118389.4	8886.947	5996.547	7620.597

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01LX5 Acquired: 10/7/2025 18:56:47 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0076194**	**-.004741**	**.0444309**	**.0030186**	**-.006807**	**31.94322**	**.1301841**
Stddev	.0021506	.002445	.0010021	.0022342	.001419	.01098	.0012477
%RSD	28.22524	51.56695	2.255481	74.01369	20.85185	.0343765	.9583840
#1	.0100905	-.003700	.0455602	.0055166	-.007181	31.93058	.1305840
#2	.0061708	-.007534	.0436477	.0023279	-.005238	31.95033	.1287855
#3	.0065970	-.002989	.0440848	.0012113	-.008002	31.94876	.1311828

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023152**	**.0011340**	**15.28225**	**.0480742**	**.0344237**	**.2990857**	**63.48171**
Stddev	.0000650	.0001426	.01305	.0004283	.0000998	.0012382	.09817
%RSD	2.809018	12.57021	.0854006	.8910138	.2899770	.4140082	.1546352
#1	.0022545	.0012505	15.26864	.0485158	.0345255	.3002505	63.51334
#2	.0023838	.0011764	15.28346	.0480461	.0343260	.2977852	63.56015
#3	.0023072	.0009751	15.29466	.0476605	.0344197	.2992215	63.37162

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7174627**	**13.31372**	**.0683645**	**.0008523**	**1.933364**	**.1118675**	**.1077258**
Stddev	.0016228	.04233	.0002479	.0002065	.030966	.0034886	.0008185
%RSD	.2261933	.3179249	.3626273	24.22553	1.601647	3.118543	.7598121
#1	.7166696	13.26495	.0686504	.0010479	1.899299	.1091776	.1085766
#2	.7193296	13.34087	.0682099	.0008725	1.940987	.1106156	.1069439
#3	.7163890	13.33535	.0682331	.0006365	1.959807	.1158094	.1076568

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.495776**	**.0414368**	**.0014560**	**.0012430**	**1.634004**	**.6137087**	**1.515195**
Stddev	.029616	.0015660	.0001279	.0005393	.005574	.0157998	.001182
%RSD	.6587593	3.779145	8.784598	43.38537	.3410969	2.574474	.0780029
#1	4.465918	.0429221	.0016029	.0011864	1.635621	.6284988	1.515952
#2	4.496267	.0415874	.0013696	.0007342	1.638591	.5970631	1.515800
#3	4.525145	.0398010	.0013955	.0018083	1.627801	.6155641	1.513833

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01LX5 Acquired: 10/7/2025 18:56:47 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**2.435307**	**.0336910**	**-.021236**
Stddev	.010437	.0018739	.000162
%RSD	.4285777	5.561937	.7626011
#1	2.428370	.0330023	-.021290
#2	2.447310	.0322590	-.021055
#3	2.430240	.0358118	-.021365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7198.294**	**106115.0**	**7721.484**	**5407.478**	**8223.866**
Stddev	14.016	636.2	35.150	38.371	15.474
%RSD	.1947134	.5995361	.4552221	.7095913	.1881551
#1	7186.689	105414.0	7707.034	5363.534	8208.585
#2	7213.866	106655.6	7761.556	5434.349	8239.525
#3	7194.326	106275.5	7695.862	5424.551	8223.489

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01MS Acquired: 10/7/2025 19:00:52 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.7309066	1.895062	1.201837	1.711172	.2983978	150.4965
Stddev	.0010934	.070521	.001592	.002556	.0013516	.5071
%RSD	.1495976	3.721282	.1324604	.1493590	.4529417	.3369438
#1	.7303969	1.975916	1.201257	1.711701	.2989530	150.5054
#2	.7321618	1.846257	1.203638	1.708394	.2993834	150.9991
#3	.7301611	1.863015	1.200617	1.713422	.2968571	149.9851

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7945394	.1776031	.2098496	48.89988	.5789606	.3479325
Stddev	.0054794	.0005369	.0004248	.17211	.0025614	.0002765
%RSD	.6896276	.3023133	.2024245	.3519609	.4424137	.0794565
#1	.7967690	.1770459	.2102681	49.00134	.5818346	.3482382
#2	.7985525	.1776463	.2094188	48.99713	.5781287	.3478590
#3	.7882968	.1781172	.2098617	48.70116	.5769186	.3477001

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6382612	286.7829	3.241570	52.94749	.7685053	.0721840
Stddev	.0030093	2.6141	.021590	.15156	.0007174	.0010407
%RSD	.4714873	.9115356	.6660224	.2862530	.0933474	1.441706
#1	.6360397	289.0554	3.251032	52.91297	.7692713	.0724894
#2	.6370580	287.3673	3.256814	53.11333	.7678493	.0730379
#3	.6416860	283.9261	3.216865	52.81616	.7683952	.0710248

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.53051	.7469151	.6515377	27.79415	.4349145	.3530625
Stddev	.16310	.0018337	.0031306	.28157	.0086593	.0008355
%RSD	1.414484	.2455027	.4804881	1.013044	1.991032	.2366367
#1	11.70785	.7479834	.6532023	28.06962	.4429339	.3528611
#2	11.49674	.7479640	.6479265	27.80598	.4360769	.3539803
#3	11.38695	.7447977	.6534843	27.50686	.4257328	.3523462

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01MS Acquired: 10/7/2025 19:00:52 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.6993216	7.499746	3.239897	F 14.49363	F 11.73143	.3080144
Stddev	.0022248	.049189	.029163	.04496	.05206	.0032058
%RSD	.3181352	.6558799	.9001315	.3102091	.4437991	1.040809
#1	.7013676	7.511436	3.257634	14.54510	11.79154	.3094765
#2	.6969532	7.542038	3.255819	14.47379	11.70196	.3102285
#3	.6996441	7.445765	3.206238	14.46201	11.70078	.3043381

Elem	Sr4077
Units	ppm
Avg	.0310125
Stddev	.0009218
%RSD	2.972226
#1	.0300941
#2	.0319375
#3	.0310058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7962.346	118578.4	8782.993	5995.882	7461.967
Stddev	3.313	308.4	36.231	26.864	4.612
%RSD	.0416105	.2600729	.4125097	.4480383	.0618124
#1	7966.082	118301.0	8822.319	5966.195	7457.257
#2	7959.764	118523.9	8750.970	6002.933	7462.170
#3	7961.193	118910.5	8775.691	6018.516	7466.475

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01MSD Acquired: 10/7/2025 19:04:49 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.7372973	1.945075	1.236900	1.718374	.3628448	152.4126
Stddev	.0011536	.078349	.000849	.002468	.0006527	.1432
%RSD	.1564602	4.028052	.0686293	.1436153	.1798790	.0939432
#1	.7360227	1.924188	1.237879	1.721171	.3621970	152.4663
#2	.7375994	2.031750	1.236458	1.716506	.3635022	152.2503
#3	.7382697	1.879287	1.236363	1.717445	.3628353	152.5212

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8298110	.1911892	.2142278	58.72907	.5767984	.3506007
Stddev	.0028631	.0002586	.0004450	.08321	.0031902	.0003548
%RSD	.3450342	.1352794	.2077408	.1416886	.5530845	.1012022
#1	.8326141	.1910566	.2137259	58.77079	.5775098	.3509980
#2	.8268914	.1910238	.2143835	58.63325	.5795729	.3504886
#3	.8299276	.1914873	.2145742	58.78317	.5733126	.3503155

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6325006	282.8238	3.307688	57.52242	.7989865	.0693794
Stddev	.0016055	1.4086	.017284	.04468	.0014116	.0006019
%RSD	.2538319	.4980510	.5225363	.0776732	.1766741	.8676174
#1	.6306512	283.9511	3.323573	57.48337	.7973994	.0700654
#2	.6333139	283.2756	3.289282	57.51275	.7994585	.0689394
#3	.6335367	281.2447	3.310208	57.57115	.8001016	.0691333

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.05500	.7438466	.6680077	27.82140	.3806403	.3658941
Stddev	.07156	.0028312	.0002905	.12634	.0060944	.0002232
%RSD	.6472925	.3806112	.0434844	.4541070	1.601103	.0610039
#1	11.13338	.7420132	.6677724	27.87985	.3835408	.3656415
#2	11.03846	.7424193	.6683323	27.90793	.3847427	.3660646
#3	10.99316	.7471073	.6679183	27.67642	.3736373	.3659763

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01MSD Acquired: 10/7/2025 19:04:49 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.7300668	7.669685	3.561681	F 16.82399	F 11.98567	.3152735
Stddev	.0012250	.024090	.020883	.05985	.06072	.0008512
%RSD	.1677949	.3140952	.5863372	.3557322	.5066304	.2699933
#1	.7286955	7.692243	3.582145	16.82251	11.97175	.3162471
#2	.7310529	7.644310	3.562497	16.88457	12.05215	.3146702
#3	.7304520	7.672501	3.540402	16.76490	11.93312	.3149032

Elem	Sr4077
Units	ppm
Avg	.0554223
Stddev	.0021846
%RSD	3.941688
#1	.0555227
#2	.0531893
#3	.0575549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8017.045	116865.2	8265.346	5894.043	7497.003
Stddev	22.139	853.3	14.232	49.065	17.523
%RSD	.2761451	.7301728	.1721894	.8324541	.2337393
#1	8038.098	116544.5	8250.803	5857.685	7515.626
#2	8019.077	116218.7	8265.990	5874.593	7494.544
#3	7993.961	117832.4	8279.245	5949.851	7480.839

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01A Acquired: 10/7/2025 19:08:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.7426578**	**1.827750**	**1.193652**	**1.763403**	**.6846266**	**134.3929**
Stddev	.0030287	.167227	.003637	.012820	.0004632	.1456
%RSD	.4078147	9.149363	.3046886	.7270286	.0676526	.1083466
#1	.7423991	2.019735	1.195436	1.778197	.6845176	134.4745
#2	.7397668	1.749683	1.189468	1.756483	.6842277	134.4793
#3	.7458075	1.713832	1.196052	1.755530	.6851346	134.2248

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7684245**	**.1843652**	**.2106984**	**61.24267**	**.5577270**	**.3805029**
Stddev	.0031327	.0006155	.0006717	.12437	.0006457	.0007193
%RSD	.4076800	.3338561	.3188163	.2030780	.1157726	.1890444
#1	.7660203	.1845875	.2113553	61.11079	.5571506	.3803693
#2	.7719673	.1848387	.2100127	61.35783	.5576056	.3798597
#3	.7672860	.1836695	.2107273	61.25940	.5584248	.3812796

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.164932**	**281.3117**	**3.171782**	**56.34560**	**.8193300**	**.0750755**
Stddev	.000919	1.5837	.013109	.19881	.0022942	.0002123
%RSD	.0788811	.5629859	.4132869	.3528414	.2800122	.2828353
#1	1.165748	279.6102	3.158448	56.29806	.8184085	.0748304
#2	1.163937	281.5819	3.184653	56.56388	.8176398	.0752043
#3	1.165112	282.7430	3.172246	56.17488	.8219417	.0751918

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.92327**	**.7343184**	**.6634883**	**27.68828**	**.5123428**	**.3607679**
Stddev	.05747	.0058612	.0017181	.10348	.0054191	.0009858
%RSD	.5260882	.7981865	.2589423	.3737420	1.057707	.2732460
#1	10.85755	.7276454	.6625624	27.60789	.5102613	.3615716
#2	10.94818	.7366762	.6654707	27.65191	.5082731	.3596680
#3	10.96408	.7386335	.6624318	27.80504	.5184940	.3610641

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3290-01A Acquired: 10/7/2025 19:08:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	.7449057	7.183844	8.594145	F 13.83040	F 15.47910	.3002214
Stddev	.0019311	.019150	.053834	.11947	.22673	.0011475
%RSD	.2592378	.2665716	.6264061	.8638422	1.464771	.3822095
#1	.7460291	7.168623	8.635863	13.96503	15.72716	.2990495
#2	.7426759	7.205346	8.613196	13.73700	15.28255	.3002718
#3	.7460121	7.177564	8.533376	13.78916	15.42760	.3013428

Elem	Sr4077
Units	ppm
Avg	.0541418
Stddev	.0012363
%RSD	2.283377
#1	.0551703
#2	.0544849
#3	.0527702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7962.391	113965.9	8523.613	5774.935	7463.105
Stddev	12.701	445.9	17.328	16.215	4.298
%RSD	.1595067	.3912875	.2032911	.2807750	.0575919
#1	7957.158	114393.3	8539.944	5792.574	7465.241
#2	7953.143	114001.0	8505.436	5771.553	7458.157
#3	7976.872	113503.5	8525.459	5760.678	7465.917

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3257-01DLX5 Acquired: 10/7/2025 19:12:40 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0361609**	**-.004118**	**.1918836**	**.0060239**	**-.009256**	**65.59932**	**.7542846**
Stddev	.0014767	.003261	.0004627	.0036556	.001301	.10409	.0035412
%RSD	4.083709	79.19007	.2411249	60.68457	14.05107	.1586730	.4694833
#1	.0346995	-.007059	.1923950	.0096997	-.008313	65.53846	.7526278
#2	.0361308	-.004683	.1917616	.0059830	-.008714	65.71951	.7583505
#3	.0376525	-.000611	.1914940	.0023889	-.010739	65.53999	.7518755

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064544**	**.0022654**	**12.83721**	**.1075853**	**.0753582**	**.1481013**	**151.1983**
Stddev	.0000591	.0001762	.01431	.0007183	.0002104	.0012376	.5470
%RSD	.9158408	7.779775	.1114416	.6676062	.2792211	.8356735	.3617624
#1	.0064065	.0024295	12.82314	.1079202	.0754521	.1488612	150.7080
#2	.0064363	.0022876	12.85174	.1080750	.0755053	.1466732	151.7883
#3	.0065205	.0020791	12.83675	.1067608	.0751172	.1487695	151.0987

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.503137**	**26.97664**	**.1291733**	**.0053425**	**.4701915**	**.1795201**	**.4271246**
Stddev	.037258	.10169	.0002364	.0003203	.0075177	.0011222	.0018326
%RSD	.4965604	.3769528	.1830328	5.994579	1.598867	.6251246	.4290486
#1	7.482453	27.02194	.1292138	.0050474	.4615326	.1796165	.4284487
#2	7.546148	27.04780	.1293869	.0052971	.4750544	.1783528	.4278920
#3	7.480811	26.86017	.1289192	.0056831	.4739874	.1805910	.4250331

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.505392**	**.1386543**	**.0005881**	**.0069319**	**1.055139**	**1.709429**	**1.996938**
Stddev	.006390	.0022668	.0002567	.0003357	.005691	.003125	.009535
%RSD	.0982325	1.634855	43.65440	4.843210	.5393952	.1827994	.4774658
#1	6.498428	.1360534	.0005402	.0065444	1.049198	1.705829	2.007632
#2	6.510987	.1396997	.0008655	.0071140	1.060542	1.711443	1.993858
#3	6.506763	.1402097	.0003587	.0071371	1.055679	1.711014	1.989324

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3257-01DLX5 Acquired: 10/7/2025 19:12:40 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.8340936**	**.2212856**	**-.081875**
Stddev	.0037311	.0012191	.000273
%RSD	.4473217	.5509101	.3333294
#1	.8364182	.2198783	-.081562
#2	.8360726	.2219610	-.082058
#3	.8297899	.2220175	-.082006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7183.179**	**100947.0**	**7683.216**	**5148.840**	**8094.877**
Stddev	8.617	155.4	16.196	31.923	4.741
%RSD	.1199601	.1539793	.2108034	.6200132	.0585708
#1	7181.842	100771.3	7664.722	5134.544	8089.535
#2	7192.386	101066.6	7694.870	5126.562	8096.511
#3	7175.308	101003.1	7690.056	5185.413	8098.585

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3257-02DLX5 Acquired: 10/7/2025 19:16:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.0330829**	**-.013897**	**.1236065**	**-.000461**	**-.015753**	**41.95619**	**1.191835**
Stddev	.0010654	.002522	.0011540	.003903	.000748	.04446	.005334
%RSD	3.220273	18.15063	.9335786	846.2224	4.750297	.1059704	.4475710
#1	.0330240	-.016498	.1238993	.003474	-.016067	41.98547	1.190454
#2	.0341765	-.013731	.1245858	-.004331	-.016292	41.97807	1.197724
#3	.0320482	-.011461	.1223343	-.000526	-.014898	41.90503	1.187326

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061946**	**.0057677**	**19.66682**	**.2144372**	**.0969755**	**.1400941**	**205.4154**
Stddev	.0000986	.0002835	.04532	.0012614	.0011889	.0043018	.8994
%RSD	1.591048	4.915205	.2304488	.5882131	1.225982	3.070631	.4378385
#1	.0061284	.0060809	19.69600	.2153367	.0977049	.1442171	204.3846
#2	.0063078	.0056936	19.68986	.2149795	.0976180	.1404317	205.8215
#3	.0061475	.0055286	19.61461	.2129954	.0956036	.1356334	206.0401

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.158146**	**34.34087**	**.2555168**	**.0042471**	**1.099024**	**.1869596**	**.3227505**
Stddev	.052689	.20336	.0032449	.0006697	.033017	.0023777	.0015012
%RSD	.5753204	.5921734	1.269949	15.76832	3.004248	1.271781	.4651237
#1	9.146733	34.45618	.2586382	.0035433	1.061516	.1843924	.3243165
#2	9.215606	34.46036	.2557511	.0048765	1.111863	.1874002	.3213238
#3	9.112100	34.10607	.2521610	.0043214	1.123694	.1890862	.3226111

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.592321**	**.1744758**	**.0024976**	**.0043486**	**2.654261**	**2.323483**	**4.443544**
Stddev	.065579	.0067124	.0002780	.0008961	.010596	.005205	.032655
%RSD	1.172655	3.847202	11.13036	20.60599	.3991960	.2240159	.7348836
#1	5.518699	.1697514	.0027643	.0037108	2.649205	2.327953	4.466283
#2	5.613789	.1715166	.0025191	.0053731	2.666438	2.324729	4.458223
#3	5.644475	.1821593	.0022095	.0039619	2.647140	2.317769	4.406125

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: Q3257-02DLX5 Acquired: 10/7/2025 19:16:44 Type: Unk
Method: 6010-200.7 NEW(v272) 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	**.2261479**	**.2412084**	**-.082733**
Stddev	.0056456	.0018315	.001136
%RSD	2.496411	.7593182	1.372605
#1	.2310419	.2420043	-.081770
#2	.2274305	.2425074	-.082443
#3	.2199714	.2391136	-.083985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7455.932**	**111193.8**	**8115.335**	**5614.848**	**7960.449**
Stddev	7.920	398.6	74.828	30.613	4.842
%RSD	.1062260	.3585004	.9220611	.5452109	.0608269
#1	7461.732	110783.8	8063.738	5580.108	7963.431
#2	7459.156	111217.7	8081.113	5626.562	7954.862
#3	7446.909	111580.0	8201.155	5637.874	7963.055

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV08 Acquired: 10/7/2025 19:20:48 Type: Unk
Method: 6010-200.7 NEW(v272) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.851444**	**4.537441**	**4.723642**	**4.948463**	**4.847566**	**9.512237**
Stddev	.011630	.046323	.000620	.007734	.002711	.023491
%RSD	.2397273	1.020899	.0131211	.1562961	.0559308	.2469587
#1	4.863419	4.548631	4.723181	4.956745	4.849026	9.530701
#2	4.840192	4.486549	4.724347	4.941428	4.844437	9.520214
#3	4.850721	4.577144	4.723398	4.947217	4.849235	9.485796

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.163377**	**.2379154**	**2.372410**	**23.53764**	**.9671577**	**2.355910**
Stddev	.012041	.0010958	.000439	.01200	.0021309	.001117
%RSD	.1314004	.4605852	.0185138	.0509839	.2203221	.0474164
#1	9.149759	.2391805	2.372395	23.52942	.9695461	2.356759
#2	9.172614	.2372616	2.372857	23.55141	.9654514	2.356328
#3	9.167758	.2373041	2.371979	23.53210	.9664757	2.354645

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.205453**	**4.808238**	**2.348189**	**23.93589**	**2.362485**	**1.199217**
Stddev	.001276	.010288	.000144	.08647	.001031	.003941
%RSD	.1058723	.2139580	.0061334	.3612450	.0436483	.3286136
#1	1.206435	4.796718	2.348072	23.98483	2.362662	1.200510
#2	1.204011	4.811489	2.348145	23.98680	2.363417	1.194792
#3	1.205914	4.816508	2.348349	23.83606	2.361377	1.202348

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.00424**	**2.380938**	**2.420608**	**23.13202**	**4.717532**	**4.879176**
Stddev	.19423	.006110	.003701	.19429	.021153	.006040
%RSD	.8091354	.2566240	.1528810	.8398991	.4484003	.1237952
#1	23.88699	2.385601	2.424748	22.91504	4.738499	4.883636
#2	23.89729	2.383191	2.419454	23.19117	4.696197	4.872302
#3	24.22844	2.374021	2.417622	23.28986	4.717900	4.881591

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCV08 Acquired: 10/7/2025 19:20:48 Type: Unk
Method: 6010-200.7 NEW(v272) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.795945**	**4.708345**	**4.872042**	**4.841043**	**4.919333**	F **4.356953**
Stddev	.003867	.006313	.029118	.017435	.015864	.006831
%RSD	.0806396	.1340763	.5976483	.3601475	.3224762	.1567863
#1	4.794761	4.702687	4.843527	4.844269	4.911139	4.349502
#2	4.792809	4.707194	4.870872	4.822221	4.909242	4.358437
#3	4.800266	4.715154	4.901727	4.856640	4.937618	4.362921

Elem	Sr4077
Units	ppm
Avg	**4.676016**
Stddev	.017168
%RSD	.3671581
#1	4.679605
#2	4.691107
#3	4.657337

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6939.181**	**101474.4**	**7397.204**	**5151.025**	**7965.601**
Stddev	8.520	100.3	23.276	2.989	4.433
%RSD	.1227812	.0988431	.3146631	.0580328	.0556511
#1	6933.772	101492.0	7370.729	5154.236	7962.627
#2	6949.002	101564.8	7406.434	5150.516	7970.696
#3	6934.769	101366.5	7414.451	5148.323	7963.479

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB08 Acquired: 10/7/2025 19:24:52 Type: Unk
Method: 6010-200.7 NEW(v272) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002636**	**-.002274**	**-.000908**	**.0018217**	**-.001736**	**-.009503**	**-.011622**
Stddev	.001073	.002310	.001134	.0018553	.001144	.008323	.001217
%RSD	40.71211	101.5933	124.9658	101.8413	65.89763	87.58693	10.47167
#1	-.003103	-.004775	-.002093	-.000251	-.002888	-.016118	-.012634
#2	-.003397	-.001827	.000168	.003326	-.001720	-.000158	-.011962
#3	-.001409	-.000220	-.000797	.002390	-.000600	-.012232	-.010272

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000329**	**.0000859**	**-.017450**	**-.000661**	**-.000047**	**.0000046**	**-.000187**
Stddev	.0001046	.0000845	.005187	.000241	.000214	.0002480	.003628
%RSD	317.8676	98.39222	29.72685	36.46889	453.0037	5423.148	1941.728
#1	.0000253	.0001679	-.011788	-.000385	.000173	-.000171	.002569
#2	.0001410	.0000908	-.018589	-.000831	-.000254	.000288	.001168
#3	-.000068	-.000001	-.021974	-.000766	-.000060	-.000103	-.004297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000247**	**-.033484**	**-.000108**	**-.000565**	**-.353741**	**-.004136**	**-.000209**
Stddev	.000162	.033499	.000157	.000398	.022708	.004656	.000060
%RSD	65.58956	100.0459	145.0186	70.39519	6.419426	112.5780	28.55517
#1	-.000382	-.071337	.000020	-.000303	-.356665	.000863	-.000183
#2	-.000067	-.007664	-.000283	-.000370	-.374845	-.008349	-.000278
#3	-.000293	-.021450	-.000061	-.001022	-.329712	-.004921	-.000168

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.367755**	**.0003705**	**.0003123**	F **-.021834**	**-.000032**	**-.004604**	**-.000194**
Stddev	.027031	.0003397	.0003795	.000754	.000700	.014344	.001674
%RSD	7.350320	91.69979	121.5130	3.453755	2220.222	311.5632	861.7456
#1	-.371448	.0004389	.0005035	-.021013	-.000805	-.018173	-.002125
#2	-.339067	.0006708	.0005582	-.022496	.000560	-.006047	.000708
#3	-.392749	.0000017	-.000125	-.021994	.000150	.010407	.000835

Reviewed By:jaswal
On:10/8/2025 11:43:16 PM
Inst Id :P4
LB :LB137447

Sample Name: CCB08 Acquired: 10/7/2025 19:24:52 Type: Unk
Method: 6010-200.7 NEW(v272) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.005449**	**-.000160**	**.0000168**
Stddev	.001123	.001851	.0000241
%RSD	20.61101	1159.838	143.3666
#1	-.004626	.001748	.0000408
#2	-.006729	-.000277	.0000170
#3	-.004994	-.001949	-.000007

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7268.830**	**104028.2**	**7173.972**	**5281.058**	**9163.046**
Stddev	20.608	677.9	44.768	16.899	31.182
%RSD	.2835139	.6516457	.6240405	.3199902	.3403058
#1	7246.300	103805.6	7130.602	5286.463	9130.063
#2	7286.729	103489.6	7220.019	5262.118	9192.045
#3	7273.460	104789.4	7171.295	5294.594	9167.030

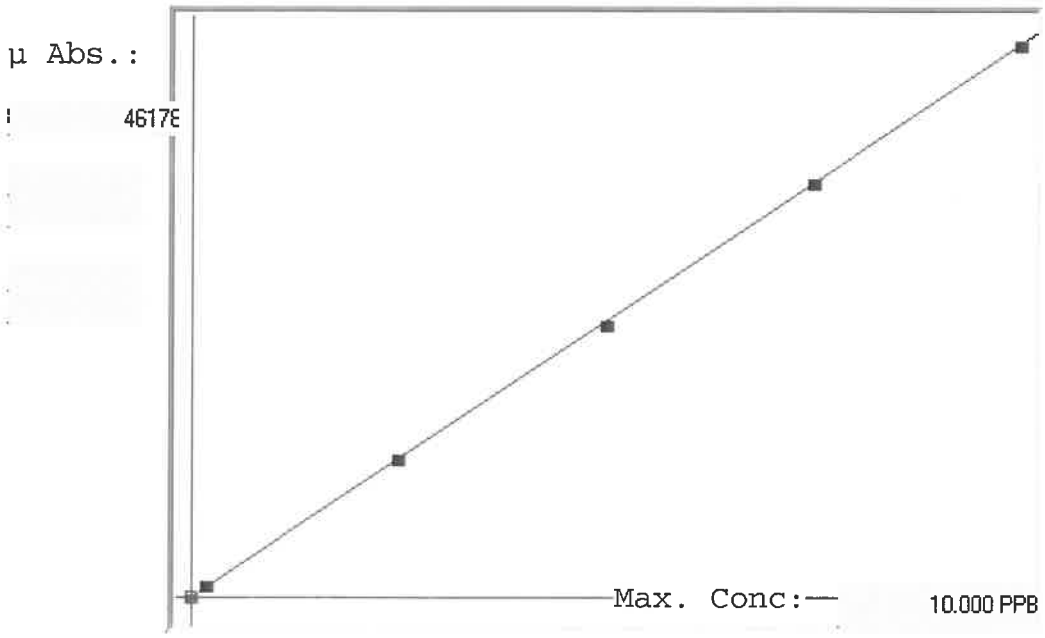
Reviewed By:jaswal
On:10/6/2025 11:36:25 PM
Inst Id :CV1
LB :LB137397

LB137397

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.1694e-004

C= 1.8165e-003

Rho= 0.9999748

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	0.002	0.002	-1	0.000	-1					—
0.2	0.200	0.223	0.023	1021	0.0 %	1021					12
2.5	2.500	2.502	0.002	11525	0.0 %	11525					0
5.0	5.000	4.944	-0.056	22783	0.0 %	22783					-1
7.5	7.500	7.509	0.009	34607	0.0 %	34607					0
10.0	10.000	10.019	0.019	46178	0.0 %	46178					0

Reviewed By:jaswal
On:10/6/2025 11:36:25 PM
Inst Id :CV1
LB :LB137397

LB137397 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 02 Oct 2025 15:02:06

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Type	Stnd Conc	Method	Date
S	0.0 - 1		-	-1	PPB	Std	0.0000	7471B	03 Oct 2025 08:27:07
S	0.2 - 1		-	1021	PPB	Std	0.2000	7471B	03 Oct 2025 08:29:36
S	2.5 - 1		-	11525	PPB	Std	2.5000	7471B	03 Oct 2025 08:31:53
S	5.0 - 1		-	22783	PPB	Std	5.0000	7471B	03 Oct 2025 08:34:10
S	7.5 - 1		-	34607	PPB	Std	7.5000	7471B	03 Oct 2025 08:36:42
S	10.0 - 1		-	46178	PPB	Std	10.0000	7471B	03 Oct 2025 08:39:24
U	ICV56 - 1	ICV56	3.8453	17717	PPB	SMPL		7471B	03 Oct 2025 08:42:59
U	ICB56 - 1	ICB56	-0.0841	-396	PPB	SMPL		7471B	03 Oct 2025 08:45:16
U	CCV75 - 1	CCV75	4.9944	23014	PPB	SMPL		7471B	03 Oct 2025 08:47:54
U	CCB75 - 1	CCB75	-0.0622	-295	PPB	SMPL		7471B	03 Oct 2025 08:50:08
U	CRA - 1	CRA	0.2012	919	PPB	SMPL		7471B	03 Oct 2025 08:52:49
U	HighStd - 1	HighStd	9.7709	45032	PPB	SMPL		7471B	03 Oct 2025 08:55:04
U	ChkStd - 1	ChkStd	6.6958	30857	PPB	SMPL		7471B	03 Oct 2025 08:57:19
U	PB169964BL - 1	PBS	-0.0607	-288	PPB	SMPL		7471B	03 Oct 2025 09:00:07
U	PB169964BS - 1	LCSS	4.3136	19876	PPB	SMPL		7471B	03 Oct 2025 09:02:52
U	Q2409-05 - 1	COP-SOIL-PILE	4.6512	21432	PPB	SMPL		7471B	03 Oct 2025 09:05:09
U	Q2409-05DUP - 1	COP-SOIL-PILEDUP	4.3501	20044	PPB	SMPL		7471B	03 Oct 2025 09:07:48
U	Q2409-05MS - 1	COP-SOIL-PILEMS	8.5187	39260	PPB	SMPL		7471B	03 Oct 2025 09:10:30
U	Q2409-05MSD - 1	COP-SOIL-PILEMSD	8.5571	39437	PPB	SMPL		7471B	03 Oct 2025 09:16:19
U	Q3266-01 - 1	ENV-3-6FT	0.3220	1476	PPB	SMPL		7471B	03 Oct 2025 09:18:53
U	CCV76 - 1	CCV76	5.0224	23143	PPB	SMPL		7471B	03 Oct 2025 09:21:38
U	CCB76 - 1	CCB76	-0.0611	-290	PPB	SMPL		7471B	03 Oct 2025 09:23:54
U	Q3266-02 - 1	ENV-3-6FT	1.0108	4651	PPB	SMPL		7471B	03 Oct 2025 09:26:34
U	Q3269-01 - 1	EG1-TP1	7.7725	35820	PPB	SMPL		7471B	03 Oct 2025 09:28:49
U	Q3269-04 - 1	EG1-TP2	0.3767	1728	PPB	SMPL		7471B	03 Oct 2025 09:31:08
U	Q2409-05LX5 - 1		0.7390	3398	PPB	SMPL		7471B	03 Oct 2025 09:34:04
U	Q2409-05A - 1		8.1087	37370	PPB	SMPL		7471B	03 Oct 2025 09:36:21
U	CCV77 - 1	CCV77	4.8536	22365	PPB	SMPL		7471B	03 Oct 2025 09:38:40
U	CCB77 - 1	CCB77	-0.0617	-293	PPB	SMPL		7471B	03 Oct 2025 09:41:26

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169960

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete 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 #2 2. N/A

Start Digest Date: 10/02/2025 **Time :** 10:15 **Temp :** 96 °C

End Digest Date: 10/02/2025 **Time :** 12:20 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SMG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared 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	MP85156
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#2 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/02/25 13:20	SMG met dig	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169960

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB169960BL	PBS960	N/A	2.00	100	Colorless	Colorless	Fine	No	N/A	1
PB169960BS	LCS960	N/A	2.00	100	Colorless	Colorless	Fine	No	M6180,M6181	2
Q3262-01	PAD-100125	N/A	2.08	100	Brown	Yellow	Medium	No	N/A	3
Q3266-01	ENV-3-6FT	N/A	2.43	100	Brown	Yellow	Medium	No	N/A	4
Q3266-02	ENV-3-6FT	N/A	2.16	100	Brown	Yellow	Medium	No	N/A	5
Q3266-02MS	ENV-3-6FTMS	N/A	2.40	100	Brown	Yellow	Medium	No	M6180,M6181	7
Q3266-02MSD	ENV-3-6FTMSD	N/A	2.37	100	Brown	Yellow	Medium	No	M6180,M6181	8
Q3266-02DUP	ENV-3-6FTDUP	N/A	2.24	100	Brown	Yellow	Medium	No	N/A	6

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB169960 **WorkList ID :** 192247 **Department :** Digestion **Date :** 10-02-2025 09:39:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3262-01	PAD-100125	Solid	Metals Group3	Cool 4 deg C	PSEG03	D31	10/01/2025	6010D
Q3266-01	ENV-3-6FT	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	D31	10/01/2025	6010D
Q3266-02	ENV-3-6FT	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	D31	10/01/2025	6010D

Date/Time 10/02/25 09:55

Raw Sample Received by: SLS mctdig

Raw Sample Relinquished by: CPRsm)

Date/Time 10/02/2025 10:55

Raw Sample Received by: CPRsm)

Raw Sample Relinquished by: SLS mctdig

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB169964

SOP ID : M7471B-Mercury-19

SDG No : NA

Start Digest Date: 10/02/2025 **Time :** 15:10 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 10/02/2025 **Time :** 15:40 **Temp :** 94 °C

Pippete ID: HG A

Digestion tube ID: M5595

Balance ID : M SC-3

Block thermometer ID: HG-DIG#3

Filter paper ID : NA

Dig Technician Signature: MB

pH Strip ID : NA

Supervisor Signature: JL

Hood ID : #1

Temp : **1.** 95°C **2.** N/A

Block ID: **1.** HG HOT BLOCK#3 **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87429
CCV	30mL	MP87431
CRA	30mL	MP87433
Blank Spike	0.48mL	MP87421
Matrix Spike	0.48mL	MP87421

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5Ml	MP87436
KMnO4 (5%)	4.5mL	MP87072
Hydroxylamine HCL (12%)	2.0Ml	MP87149
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	MP87422
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82124
2.5 ppb	S2.5	30mL	MP87425
5.0 ppb	S5.0	30mL	MP87426
7.5 ppb	S7.5	30mL	MP87427
10.0 ppb	S10.0	30mL	MP87428
ICV	ICV	30mL	MP87429
ICB	ICB	30mL	MP87430
CCV	CCV	30mL	MP87431
CCB	CCB	30mL	MP87432
CRI	CRI	30mL	MP87433
CHK STD	CHK STD	30mL	MP87434

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/02/25 16:26	MB - DIG. LAB	MB - MERCURY LAB
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB169964

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB169964BL	PBS964	00.54	35	NA	N/A	3-1
PB169964BS	LCS964	0.57	35	NA	MP87421	2
Q2409-05DUP	COP-SOIL-PILEDUP	0.55	35	NA	N/A	4
Q2409-05MS	COP-SOIL-PILEMS	0.59	35	NA	MP87421	5
Q2409-05MSD	COP-SOIL-PILEMSD	0.55	35	NA	MP87421	6
Q2409-05	COP-SOIL-PILE	0.56	35	NA	N/A	3
Q3266-01	ENV-3-6FT	0.50	35	NA	N/A	7
Q3266-02	ENV-3-6FT	0.51	35	NA	N/A	8
Q3269-01	EG1-TP1	0.54	35	NA	N/A	9
Q3269-04	EG1-TP2	0.52	35	NA	N/A	10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 100225_7471 **WorkList ID :** 192227 **Department :** Digestion **Date :** 10-02-2025 08:07:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3266-01	ENV-3-6FT	Solid	Mercury	Cool 4 deg C	CAMP02	D31	10/01/2025	7471B
Q3266-02	ENV-3-6FT	Solid	Mercury	Cool 4 deg C	CAMP02	D31	10/01/2025	7471B
Q3269-01	EG1-TP1	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/02/2025	7471B
Q3269-04	EG1-TP2	Solid	Mercury	Cool 4 deg C	PSEG03	D31	10/02/2025	7471B

Q3269-01 Mercury

Date/Time 10/2/25 @ 14:50

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 10/2/25 @ 17:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 10/2/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:40
Out Date: 10/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137380

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
Q3257-01	ENV1-6FT	1	1.14	10.57	11.71	10.05	84.3	
Q3257-02	ENV2-6FT	2	1.15	10.55	11.7	10.09	84.7	
Q3262-01	PAD-100125	3	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3262-02	MOO-25-0280	4	1.15	10.87	12.02	6.94	53.3	
Q3262-04	MOO-25-0282	5	1.19	11.25	12.44	7.9	59.6	
Q3262-05	MOO-25-0281-82	6	1.16	11.03	12.19	8.19	63.7	
Q3262-07	279887	7	1.18	10.18	11.36	10.00	86.6	
Q3262-08	279887	8	1.12	10.85	11.97	10.6	87.4	
Q3264-01	L23A	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-02	L23B	10	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-03	L24A	11	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-04	L24B	12	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-05	L25A	13	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-06	L25B	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-07	L26A	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-08	L26B	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-09	L27A	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-10	L27B	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-11	L28A	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-12	L29A	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-13	L30A	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-14	L31A	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-15	L32A	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-16	L33A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-17	L33B	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-18	L34A	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-19	L34B	27	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-20	245F55-1-1	28	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 10/2/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:40
Out Date: 10/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137380

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
Q3264-21	245F55-1-2	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-22	245F46-1-1	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-23	245F46-1-2	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-24	245F46-2-1	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3264-25	245F46-2-2	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3265-01	BC279304-LOZ-END-1-1	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3265-02	BC279304-LOZ-END-1-2	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3266-01	ENV-3-6FT	36	1.15	11.10	12.25	10.06	80.3	
Q3266-02	ENV-3-6FT	37	1.14	10.18	11.32	10.00	87.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

JR 373380

WorkList Name : %1-100125 **WorkList ID :** 192195 **Department :** Wet-Chemistry **Date :** 10-01-2025 07:02:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3257-01	ENV1-6FT	Solid	Percent Solids	Cool 4 deg C	CAMP02	D31	09/30/2025	Chemtech -SO
Q3257-02	ENV2-6FT	Solid	Percent Solids	Cool 4 deg C	CAMP02	D31	09/29/2025	Chemtech -SO
Q3262-01	PAD-100125	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3262-02	MOO-25-0280	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3262-04	MOO-25-0282	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3262-05	MOO-25-0281-82	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3262-07	279887	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3262-08	279887	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-01	L23A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-02	L23B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-03	L24A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-04	L24B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-05	L25A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-06	L25B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-07	L26A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-08	L26B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-09	L27A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-10	L27B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-11	L28A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-12	L29A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-13	L30A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO

Date/Time 10/01/25 15:15

Raw Sample Received by: JR WC1

Raw Sample Relinquished by: CP SW

Date/Time 10/01/25 17:30

Raw Sample Received by: CP SW

Raw Sample Relinquished by: JR WC1

WORKLIST(Hardcopy Internal Chain)

VB 137380

WorkList Name : %1-100125 **WorkList ID :** 192195 **Department :** Wet-Chemistry **Date :** 10-01-2025 07:02:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3264-14	L31A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-15	L32A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-16	L33A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-17	L33B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-18	L34A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-19	L34B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-20	245F55-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-21	245F55-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-22	245F46-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-23	245F46-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-24	245F46-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3264-25	245F46-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3265-01	BC279304-LOZ-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3265-02	BC279304-LOZ-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/01/2025	Chemtech -SO
Q3266-01	ENV-3-6FT	Solid	Percent Solids	Cool 4 deg C	CAMP02	D31	10/01/2025	Chemtech -SO
Q3266-02	ENV-3-6FT	Solid	Percent Solids	Cool 4 deg C	CAMP02	D31	10/01/2025	Chemtech -SO

Date/Time 10/01/25 15:15

Raw Sample Received by: RSB WCL

Raw Sample Relinquished by: CP SM

Date/Time 10/01/25 17:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RSB WCL

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137397

Review By	mohan	Review On	10/6/2025 10:42:06 AM
Supervise By	jaswal	Supervise On	10/6/2025 11:36:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP87422,MP87424,MP87425,MP87426,MP87427,MP87428
ICV Standard	MP87429
CCV Standard	MP87431
ICSA Standard	
CRI Standard	MP87433
LCS Standard	
Chk Standard	MP87430,MP87432,MP87435,MP87439

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/03/25 08:27		mohan	OK
2	S0.2	S0.2	CAL2	10/03/25 08:29		mohan	OK
3	S2.5	S2.5	CAL3	10/03/25 08:31		mohan	OK
4	S5	S5	CAL4	10/03/25 08:34		mohan	OK
5	S7.5	S7.5	CAL5	10/03/25 08:36		mohan	OK
6	S10	S10	CAL6	10/03/25 08:39		mohan	OK
7	ICV56	ICV56	ICV	10/03/25 08:42		mohan	OK
8	ICB56	ICB56	ICB	10/03/25 08:45		mohan	OK
9	CCV75	CCV75	CCV	10/03/25 08:47		mohan	OK
10	CCB75	CCB75	CCB	10/03/25 08:50		mohan	OK
11	CRA	CRA	CRDL	10/03/25 08:52		mohan	OK
12	HighStd	HighStd	HIGH STD	10/03/25 08:55		mohan	OK
13	ChkStd	ChkStd	SAM	10/03/25 08:57		mohan	OK
14	PB169964BL	PB169964BL	MB	10/03/25 09:00		mohan	OK
15	PB169964BS	PB169964BS	LCS	10/03/25 09:02		mohan	OK
16	Q2409-05	COP-SOIL-PILE	SAM	10/03/25 09:05		mohan	OK
17	Q2409-05DUP	COP-SOIL-PILEDUP	DUP	10/03/25 09:07		mohan	OK
18	Q2409-05MS	COP-SOIL-PILEMS	MS	10/03/25 09:10		mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137397

Review By	mohan	Review On	10/6/2025 10:42:06 AM
Supervise By	jaswal	Supervise On	10/6/2025 11:36:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP87422,MP87424,MP87425,MP87426,MP87427,MP87428
ICV Standard	MP87429
CCV Standard	MP87431
ICSA Standard	
CRI Standard	MP87433
LCS Standard	
Chk Standard	MP87430,MP87432,MP87435,MP87439

19	Q2409-05MSD	COP-SOIL-PILEMSD	MSD	10/03/25 09:16		mohan	OK
20	Q3266-01	ENV-3-6FT	SAM	10/03/25 09:18		mohan	OK
21	CCV76	CCV76	CCV	10/03/25 09:21		mohan	OK
22	CCB76	CCB76	CCB	10/03/25 09:23		mohan	OK
23	Q3266-02	ENV-4-6FT	SAM	10/03/25 09:26		mohan	OK
24	Q3269-01	EG1-TP1	SAM	10/03/25 09:28		mohan	OK
25	Q3269-04	EG1-TP2	SAM	10/03/25 09:31		mohan	OK
26	Q2409-05L	COP-SOIL-PILEL	SD	10/03/25 09:34		mohan	OK
27	Q2409-05A	COP-SOIL-PILEA	PS	10/03/25 09:36		mohan	OK
28	CCV77	CCV77	CCV	10/03/25 09:38		mohan	OK
29	CCB77	CCB77	CCB	10/03/25 09:41		mohan	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137426

Review By	Janvi	Review On	10/7/2025 3:33:56 PM
Supervise By	jaswal	Supervise On	10/7/2025 4:45:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/03/25 11:53		Jaswal	OK
2	S1	S1	CAL2	10/03/25 11:58		Jaswal	OK
3	S2	S2	CAL3	10/03/25 12:02		Jaswal	OK
4	S3	S3	CAL4	10/03/25 12:06		Jaswal	OK
5	S4	S4	CAL5	10/03/25 12:10		Jaswal	OK
6	S5	S5	CAL6	10/03/25 12:14		Jaswal	OK
7	ICV01	ICV01	ICV	10/03/25 12:18		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/03/25 13:05		Jaswal	OK
9	ICB01	ICB01	ICB	10/03/25 13:12		Jaswal	OK
10	CRI01	CRI01	CRDL	10/03/25 13:16		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/03/25 13:20		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/03/25 13:25		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/03/25 13:29		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/03/25 13:33		Jaswal	OK
15	CCV01	CCV01	CCV	10/03/25 13:37		Jaswal	OK
16	CCB01	CCB01	CCB	10/03/25 13:41		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/03/25 13:45		Jaswal	OK
18	LR-2	LR-2	HIGH STD	10/03/25 13:50		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137426

Review By	Janvi	Review On	10/7/2025 3:33:56 PM
Supervise By	jaswal	Supervise On	10/7/2025 4:45:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

19	PB169935BS	PB169935BS	LCS	10/03/25 14:03		Jaswal	OK
20	PB169937BL	PB169937BL	MB	10/03/25 14:07		Jaswal	OK
21	PB169937BS	PB169937BS	LCS	10/03/25 14:12		Jaswal	OK
22	PB169958BL	PB169958BL	MB	10/03/25 14:16		Jaswal	OK
23	PB169958BS	PB169958BS	LCS	10/03/25 14:20		Jaswal	OK
24	PB169963BL	PB169963BL	MB	10/03/25 14:24		Jaswal	OK
25	PB169935BL	PB169935BL	MB	10/03/25 14:33		Jaswal	OK
26	LR-3	LR-3	HIGH STD	10/03/25 14:49		Jaswal	OK
27	CCV02	CCV02	CCV	10/03/25 15:00		Jaswal	OK
28	CCB02	CCB02	CCB	10/03/25 15:04		Jaswal	OK
29	PB169963BS	PB169963BS	LCS	10/03/25 15:08		Jaswal	OK
30	PB169960BL	PB169960BL	MB	10/03/25 15:12		Jaswal	OK
31	PB169960BS	PB169960BS	LCS	10/03/25 15:17		Jaswal	OK
32	PB169959BL	PB169959BL	MB	10/03/25 15:21	NOT USE	Jaswal	Not Ok
33	PB169959BS	PB169959BS	LCS	10/03/25 15:25	NOT USE	Jaswal	Not Ok
34	Q3258-06	COMPOSITE	SAM	10/03/25 15:29		Jaswal	OK
35	Q3263-01	251818	SAM	10/03/25 15:34		Jaswal	OK
36	Q3263-02	266380	SAM	10/03/25 15:38		Jaswal	OK
37	Q3263-02DUP	266380DUP	DUP	10/03/25 15:42		Jaswal	OK
38	Q3263-02L	266380L	SD	10/03/25 15:46		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137426

Review By	Janvi	Review On	10/7/2025 3:33:56 PM
Supervise By	jaswal	Supervise On	10/7/2025 4:45:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

39	CCV03	CCV03	CCV	10/03/25 15:51		Jaswal	OK
40	CCB03	CCB03	CCB	10/03/25 16:00		Jaswal	OK
41	Q3263-02MS	266380MS	MS	10/03/25 16:04		Jaswal	OK
42	Q3263-02MSD	266380MSD	MSD	10/03/25 16:08		Jaswal	OK
43	Q3263-02A	266380A	PS	10/03/25 16:12	0.1 ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
44	Q3269-01	EG1-TP1	SAM	10/03/25 16:16		Jaswal	OK
45	Q3269-04	EG1-TP2	SAM	10/03/25 16:20		Jaswal	OK
46	Q3262-01	PAD-100125	SAM	10/03/25 16:24		Jaswal	OK
47	Q3266-01	ENV-3-6FT	SAM	10/03/25 16:29		Jaswal	OK
48	Q3266-02	ENV-4-6FT	SAM	10/03/25 16:33	NOT USE	Jaswal	Not Ok
49	Q3266-02DUP	ENV-4-6FTDUP	DUP	10/03/25 16:37	NOT USE	Jaswal	Not Ok
50	Q3266-02L	ENV-4-6FTL	SD	10/03/25 16:41	NOT USE	Jaswal	Not Ok
51	CCV04	CCV04	CCV	10/03/25 16:45		Jaswal	OK
52	CCB04	CCB04	CCB	10/03/25 16:49		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137447

Review By	Janvi	Review On	10/8/2025 2:41:18 PM
Supervise By	jaswal	Supervise On	10/8/2025 11:43:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/07/25 10:29		Jaswal	OK
2	S1	S1	CAL2	10/07/25 10:34		Jaswal	OK
3	S2	S2	CAL3	10/07/25 10:38		Jaswal	OK
4	S3	S3	CAL4	10/07/25 10:42		Jaswal	OK
5	S4	S4	CAL5	10/07/25 10:46		Jaswal	OK
6	S5	S5	CAL6	10/07/25 10:50		Jaswal	OK
7	ICV01	ICV01	ICV	10/07/25 10:54		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/07/25 12:01		Jaswal	OK
9	ICB01	ICB01	ICB	10/07/25 12:06		Jaswal	OK
10	CRI01	CRI01	CRDL	10/07/25 12:10		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/07/25 12:14		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/07/25 12:37		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/07/25 12:41		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/07/25 12:45		Jaswal	OK
15	CCV01	CCV01	CCV	10/07/25 12:50		Jaswal	OK
16	CCB01	CCB01	CCB	10/07/25 12:58		Jaswal	OK
17	Q3283-01	001-WILLETS-PT-BL	SAM	10/07/25 13:21		Jaswal	OK
18	Q3283-02	002-35TH-AVE(SEP)	SAM	10/07/25 13:25		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137447

Review By	Janvi	Review On	10/8/2025 2:41:18 PM
Supervise By	jaswal	Supervise On	10/8/2025 11:43:16 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

19	Q3283-02DUP	002-35TH-AVE(SEP)D	DUP	10/07/25 13:29		Jaswal	OK
20	Q3283-02L	002-35TH-AVE(SEP)L	SD	10/07/25 13:33		Jaswal	OK
21	Q3283-02MS	002-35TH-AVE(SEP)M	MS	10/07/25 13:38		Jaswal	OK
22	Q3283-02MSD	002-35TH-AVE(SEP)M	MSD	10/07/25 13:42		Jaswal	OK
23	Q3283-02A	002-35TH-AVE(SEP)A	PS	10/07/25 13:46	0.1ML OF EACH M6007 AND M6018 IN 10ML SAMPLE.	Jaswal	OK
24	LR-1	LR-1	HIGH STD	10/07/25 13:50		Jaswal	OK
25	LR-3	LR-3	HIGH STD	10/07/25 13:59		Jaswal	OK
26	LR-2	LR-2	HIGH STD	10/07/25 14:10		Jaswal	OK
27	CCV02	CCV02	CCV	10/07/25 14:19		Jaswal	OK
28	CCB02	CCB02	CCB	10/07/25 14:24		Jaswal	OK
29	Q3270-01	SG-1-TEST-PIT	SAM	10/07/25 14:28		Jaswal	OK
30	Q3271-01	72-11929	SAM	10/07/25 14:32		Jaswal	OK
31	Q3271-01L	72-11929L	SD	10/07/25 14:40		Jaswal	OK
32	Q3271-01MS	72-11929MS	MS	10/07/25 14:44		Jaswal	OK
33	Q3271-01MSD	72-11929MSD	MSD	10/07/25 14:48		Jaswal	OK
34	Q3271-01A	72-11929A	PS	10/07/25 14:52	0.1ML OF EACH M6007 AND M6018 IN 10ML SAMPLE.	Jaswal	OK
35	Q3272-01	VNJ-235	SAM	10/07/25 14:56		Jaswal	OK
36	Q3272-03	R7	SAM	10/07/25 15:00	Ca is high, need dilution	Jaswal	Dilution

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CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

37	Q3277-01	WC1	SAM	10/07/25 15:04		Jaswal	OK
38	CCV03	CCV03	CCV	10/07/25 15:08		Jaswal	OK
39	CCB03	CCB03	CCB	10/07/25 15:12		Jaswal	OK
40	Q3269-03	EG1-TP1	SAM	10/07/25 15:17		Jaswal	OK
41	Q3269-06	EG1-TP2	SAM	10/07/25 15:21		Jaswal	OK
42	Q3281-01	001-WILLETS-PT-BL\	SAM	10/07/25 15:26		Jaswal	OK
43	Q3281-02	002-35TH-AVE(OCT)	SAM	10/07/25 15:30		Jaswal	OK
44	Q3272-03DL	R7DL	SAM	10/07/25 15:34	25X for Ca	Jaswal	Confirms
45	Q3271-01DUP	72-11929DUP	DUP	10/07/25 15:38		Jaswal	OK
46	PB169982BL	PB169982BL	MB	10/07/25 15:43		Jaswal	OK
47	PB169982BS	PB169982BS	LCS	10/07/25 15:48		Jaswal	OK
48	PB169979BL	PB169979BL	MB	10/07/25 15:52		Jaswal	OK
49	PB169979BS	PB169979BS	LCS	10/07/25 15:56		Jaswal	OK
50	CCV04	CCV04	CCV	10/07/25 16:00		Jaswal	OK
51	CCB04	CCB04	CCB	10/07/25 16:04		Jaswal	OK
52	PB169996BS	PB169996BS	LCS	10/07/25 16:08		Jaswal	OK
53	Q3266-02	ENV-4-6FT	SAM	10/07/25 16:13		Jaswal	OK
54	Q3266-02DUP	ENV-4-6FTDUP	DUP	10/07/25 16:17		Jaswal	OK
55	Q3266-02L	ENV-4-6FTL	SD	10/07/25 16:20		Jaswal	OK
56	Q3266-02MS	ENV-4-6FTMS	MS	10/07/25 16:25		Jaswal	OK

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CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

57	Q3266-02MSD	ENV-4-6FTMSD	MSD	10/07/25 16:29		Jaswal	OK
58	Q3266-02A	ENV-4-6FTA	PS	10/07/25 16:33	0.1ML OF EACH M6007 AND M6018 IN 10ML SAMPLE.	Jaswal	OK
59	Q3258-06DL	COMPOSITEDL	SAM	10/07/25 16:37	Not use	Jaswal	Not Ok
60	PB169971TB	PB169971TB	MB	10/07/25 16:41		Jaswal	OK
61	Q3262-03	MOO-25-0280	SAM	10/07/25 16:45		Jaswal	OK
62	CCV05	CCV05	CCV	10/07/25 16:50		Jaswal	OK
63	CCB05	CCB05	CCB	10/07/25 17:01		Jaswal	OK
64	Q3262-06	MOO-25-0281-82	SAM	10/07/25 17:05		Jaswal	OK
65	Q3262-09	279887	SAM	10/07/25 17:10		Jaswal	OK
66	Q3277-02	WC1	SAM	10/07/25 17:14		Jaswal	OK
67	Q3289-02	VNJ-240	SAM	10/07/25 17:19		Jaswal	OK
68	Q3289-04	VNJ-261	SAM	10/07/25 17:23		Jaswal	OK
69	Q3289-06	72-11966	SAM	10/07/25 17:27		Jaswal	OK
70	Q3289-06DUP	72-11966DUP	DUP	10/07/25 17:32		Jaswal	OK
71	Q3289-06L	72-11966L	SD	10/07/25 17:36		Jaswal	OK
72	Q3289-06MS	72-11966MS	MS	10/07/25 17:40		Jaswal	OK
73	Q3289-06MSD	72-11966MSD	MSD	10/07/25 17:44		Jaswal	OK
74	CCV06	CCV06	CCV	10/07/25 17:49		Jaswal	OK
75	CCB06	CCB06	CCB	10/07/25 17:59		Jaswal	OK

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CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

76	Q3289-06A	72-11966A	PS	10/07/25 18:03	0.1ML OF EACH M6007 AND M6018 IN 10ML SAMPLE.	Jaswal	OK
77	Q3287-02	TSS-25-0001-0002	SAM	10/07/25 18:07		Jaswal	OK
78	PB169996BL	PB169996BL	MB	10/07/25 18:11		Jaswal	OK
79	PB169983BL	PB169983BL	MB	10/07/25 18:15		Jaswal	OK
80	PB169983BS	PB169983BS	LCS	10/07/25 18:20		Jaswal	OK
81	Q3288-01	TR-01-100325	SAM	10/07/25 18:24		Jaswal	OK
82	Q3289-01	VNJ-240	SAM	10/07/25 18:28		Jaswal	OK
83	Q3289-03	VNJ-261	SAM	10/07/25 18:32		Jaswal	OK
84	Q3289-05	72-11966	SAM	10/07/25 18:36		Jaswal	OK
85	Q3290-01	CL-02-100325	SAM	10/07/25 18:40		Jaswal	OK
86	CCV07	CCV07	CCV	10/07/25 18:44		Jaswal	OK
87	CCB07	CCB07	CCB	10/07/25 18:48		Jaswal	OK
88	Q3290-01DUP	CL-02-100325DUP	DUP	10/07/25 18:52		Jaswal	OK
89	Q3290-01L	CL-02-100325L	SD	10/07/25 18:56		Jaswal	OK
90	Q3290-01MS	CL-02-100325MS	MS	10/07/25 19:00		Jaswal	OK
91	Q3290-01MSD	CL-02-100325MSD	MSD	10/07/25 19:04		Jaswal	OK
92	Q3290-01A	CL-02-100325A	PS	10/07/25 19:08	0.1ML OF EACH M6007 AND M6018 IN 10ML SAMPLE.	Jaswal	OK
93	Q3257-01DL	ENV1-6FTDL	SAM	10/07/25 19:12	5X for Ag	Jaswal	Confirms

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ICV Standard	MP87047,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87048
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

94	Q3257-02DL	ENV2-6FTDL	SAM	10/07/25 19:16	5X for Ag	Jaswal	Confirms
95	CCV08	CCV08	CCV	10/07/25 19:20		Jaswal	OK
96	CCB08	CCB08	CCB	10/07/25 19:24		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3266

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB169960,PB169964,

Sequence ID/Qc Batch ID: LB137397,LB137426,LB137426,LB137447,

Standard ID :
MP85156,MP87031,MP87032,MP87033,MP87034,MP87035,MP87036,MP87038,MP87040,MP87042,MP87043,MP87044,MP87045,MP87046,MP87047,MP87048,MP87049,MP87072,MP87149,MP87421,MP87422,MP87424,MP87425,MP87426,MP87427,MP87428,MP87429,MP87430,MP87431,MP87432,MP87433,MP87435,MP87436,MP87439,

Chemical ID :
M4916,M5062,M5467,M5581,M5582,M5658,M5748,M5751,M5798,M5799,M5800,M5801,M5814,M5820,M5882,M5884,M5962,M5969,M5971,M5979,M5985,M5998,M6021,M6023,M6026,M6027,M6028,M6030,M6032,M6058,M6076,M6077,M6128,M6137,M6138,M6140,M6142,M6144,M6145,M6151,M6158,M6159,M6160,M6161,M6163,M6164,M6165,M6170,M6171,M6174,M6176,M6177,M6178,M6179,M6180,M6181,M6182,M6184,M6187,M6196,M6200,W 3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP85156	04/07/2025	10/31/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 04/07/2025

FROM 1250.00000ml of M6151 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP87031	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6187 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP87032	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5971 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6160 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP87031 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP87033	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP87034	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 25.00000ml of MP87032 + 75.00000ml of MP87031 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP87035	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 16.00000ml of MP87032 + 184.00000ml of MP87031 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP87036	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6140 + 0.05000ml of M6159 + 0.06000ml of M6177 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5971 + 0.10000ml of M6128 + 0.10000ml of M6176 + 0.15000ml of M5800 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6027 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6160 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5979 + 1.00000ml of M6138 + 1.00000ml of M6142 + 1.00000ml of M6144 + 1.00000ml of M6171 + 1.00000ml of M6178 + 2.00000ml of M5969 + 98.00000ml of MP87031 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP87038	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 2.00000ml of MP87036 + 98.00000ml of MP87031 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP87040	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 25.00000ml of M6182 + 225.00000ml of MP87031 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP87042	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP87043	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 1.00000ml of M6179 + 10.00000ml of M5985 + 200.00000ml of M6187 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP87044	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 200.00000ml of M6187 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4225	LR-1	MP87045	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 11.50000ml of M6138 + 11.50000ml of M6144 + 11.50000ml of M6171 + 15.50000ml of MP87031 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4226	LR-2	MP87046	09/02/2025	10/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 13.50000ml of M6140 + 9.00000ml of M6142 + 9.50000ml of M6159 + 18.00000ml of MP87031 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP87047	09/02/2025	10/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 09/04/2025

FROM 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.60000ml of MP87031 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP87048	09/02/2025	10/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 09/04/2025

FROM 0.05000ml of M6076 + 5.00000ml of M6182 + 5.00000ml of M6184 + 39.95000ml of MP87031 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4227	LR-3	MP87049	09/02/2025	10/17/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 1.15000ml of M6026 + 1.25000ml of M5658 + 1.25000ml of M5748 + 1.50000ml of M6145 + 2.50000ml of M5751 + 2.50000ml of M6128 + 39.85000ml of MP87031 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP87072	09/04/2025	03/04/2026	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 09/04/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP87149	09/09/2025	02/03/2026	Mohan Bera	METALS_SCALE_2 (M SC-2)	None	Sarabjit Jaswal 09/10/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M5884 + 240.00000ml of M6196 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP87421	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 1.00000ml of M6187 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP87422	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP87424	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87421 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP87425	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 245.00000ml of W3112 + 2.50000ml of MP87421 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP87426	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 242.50000ml of W3112 + 5.00000ml of MP87421 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP87427	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 240.00000ml of W3112 + 7.50000ml of MP87421 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP87428	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 237.50000ml of W3112 + 10.00000ml of MP87421 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP87429	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6187 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP87430	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP87431	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6187 + 10.00000ml of MP87421 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP87432	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6187 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP87433	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87421 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP87435	10/02/2025	10/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/02/2025

FROM 2.50000ml of M6187 + 240.50000ml of W3112 + 7.00000ml of MP87421 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP87436	10/02/2025	10/03/2025	Mohan Bera	None	None	Sarabjit Jaswal 10/02/2025

FROM 150.00000ml of M6200 + 50.00000ml of M6187 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP87439	10/03/2025	10/04/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/06/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6200 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

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

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

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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.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

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

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

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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.	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-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

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

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

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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	06/06/2025 / Janvi	07/01/2024 / Jaswal	M5971

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

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 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	110923	11/09/2026	12/05/2024 / janvi	08/05/2024 / Jaswal	M6026

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

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

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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.	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

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	121824	12/18/2027	04/17/2025 / Janvi	01/13/2025 / Jaswal	M6138

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

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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 #
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

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	10/30/2025	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

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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	03/24/2025 / kareem	10/18/2024 / kareem	M6160

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	12/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

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

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

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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

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

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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	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	01/28/2026	08/29/2025 / Sagar	08/08/2025 / Sagar	M6187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	H330-500 / HYDROXYLAMINE HYDROCHLORIDE ACS 500G	243373	02/03/2026	09/04/2025 / mohan	08/04/2025 / mohan	M6196

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

CHEMICAL RECEIPT LOG BOOK

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)	24D1562005	02/10/2026	09/11/2025 / Sagar	08/25/2025 / Sagar	M6200

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 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
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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 – 0120633

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	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - 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.

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Certified Reference Material CRM

M6032

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

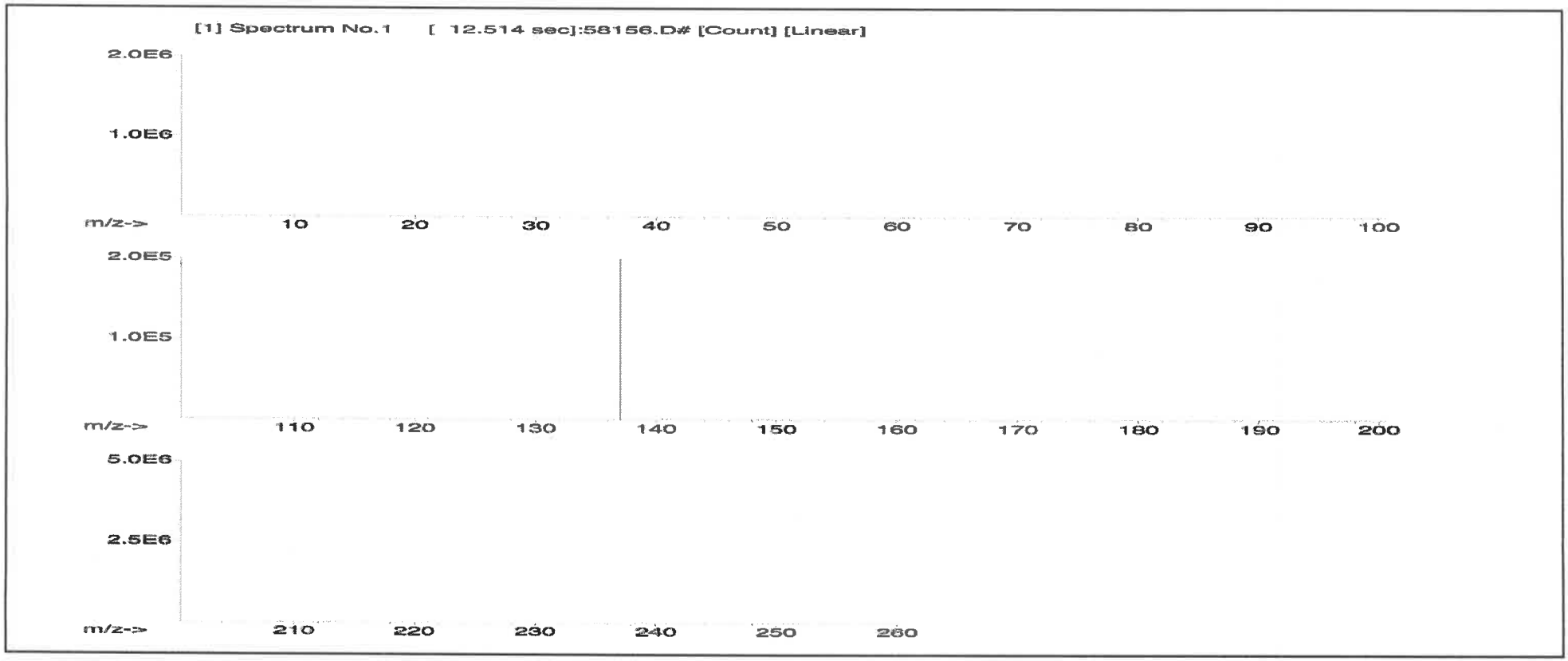
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-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:

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 certifed (+/-) 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).

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M6028

R 8/5/24

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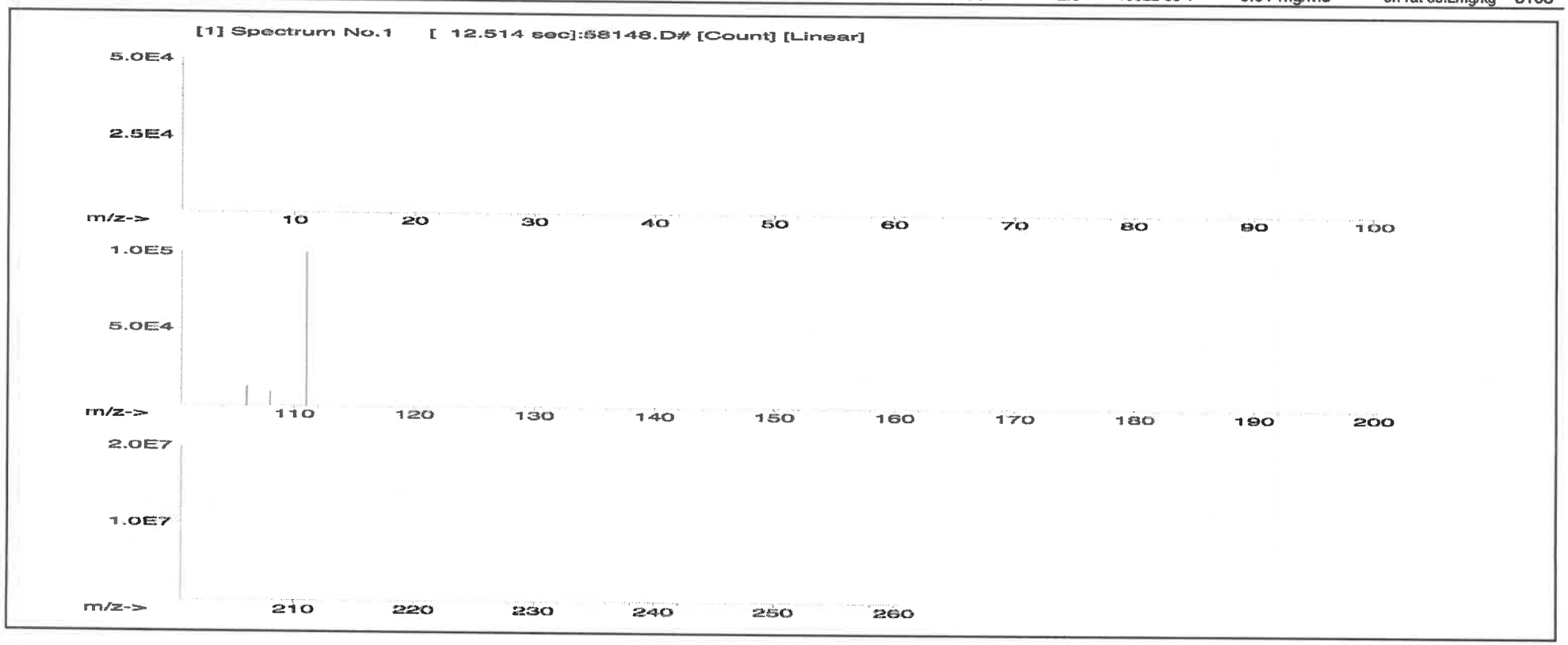
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady		
Formulated By:	Aleah O'Brady	070124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	070124

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	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	<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.
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* Standards are certifed (+/-) 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).

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Certified Reference Material CRM

M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

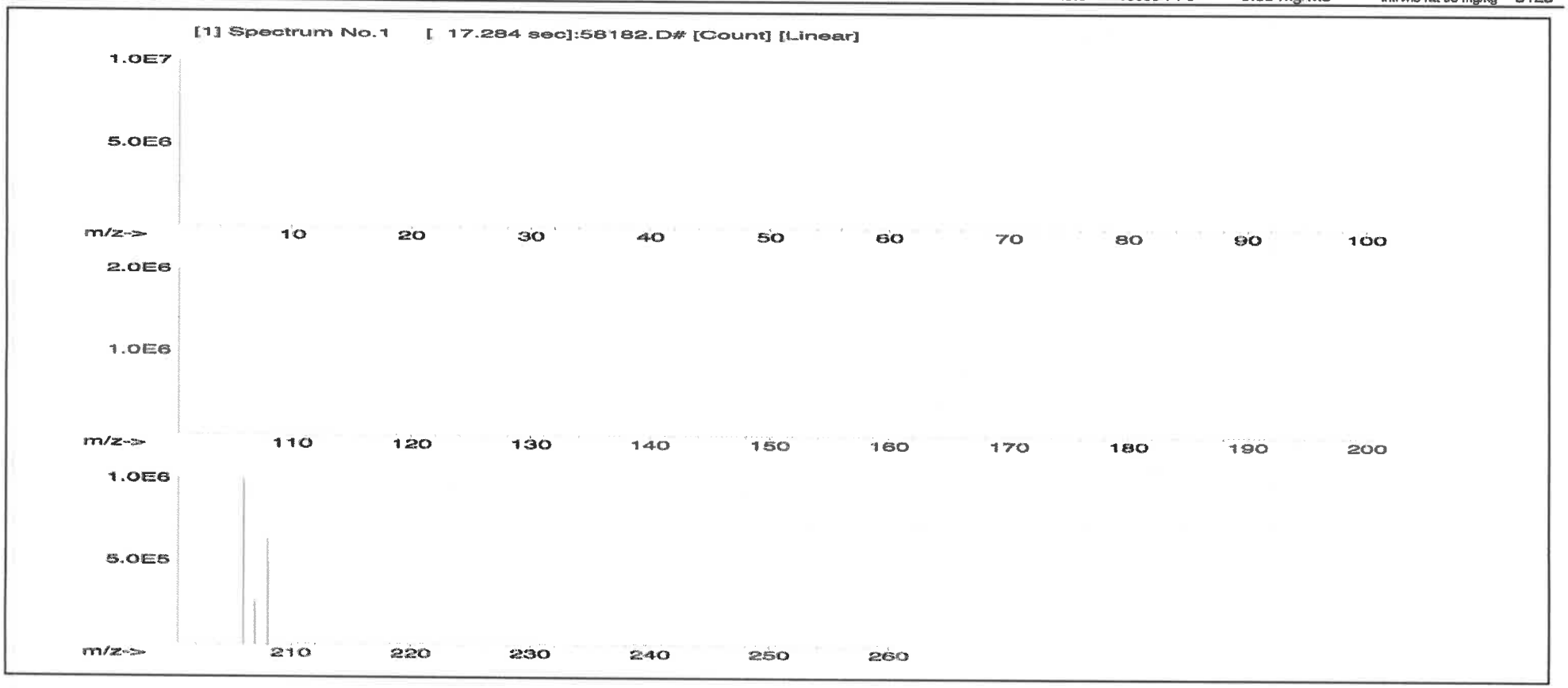
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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	<0.02	Au	<0.02	Pb	T	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:

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* 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).

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

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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.

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

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).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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 HNO_3. 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% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); 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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

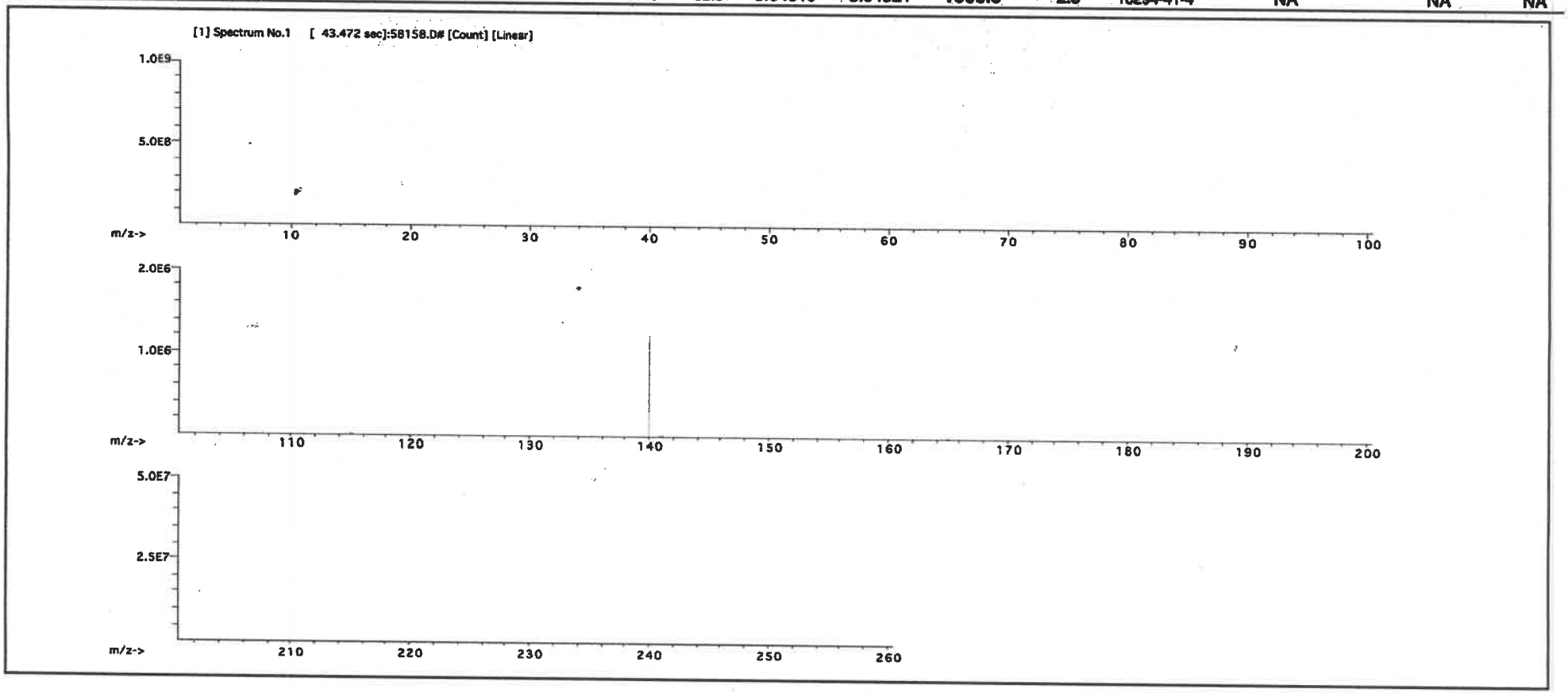
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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



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	T	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:

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 certifed (+/-) 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).

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

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

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
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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

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

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Certified Reference Material CRM

M5658 R! 8/25/23

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AR-1539 Certificate Number
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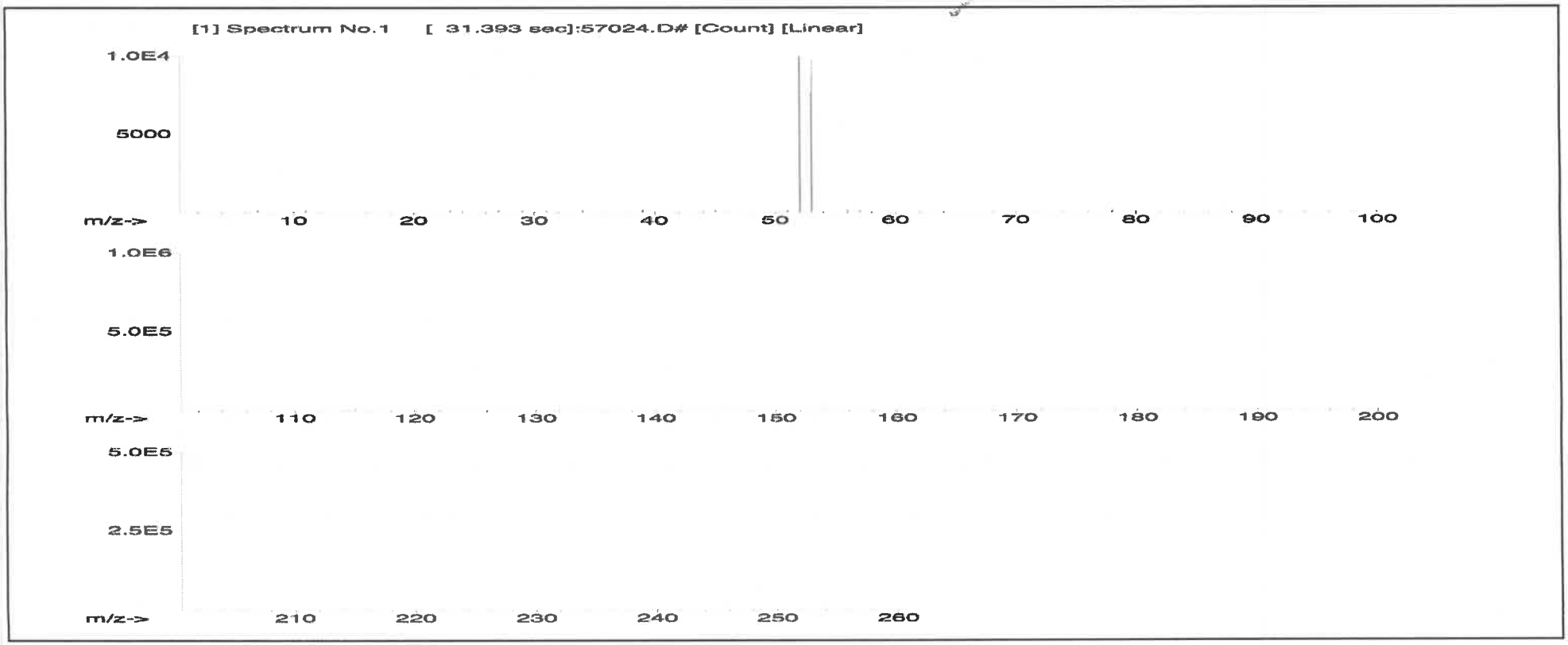
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
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:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

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. 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	orl-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:

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 certifed (+/-) 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).

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Certified Reference Material CRM

R: 12/20/23 M5748

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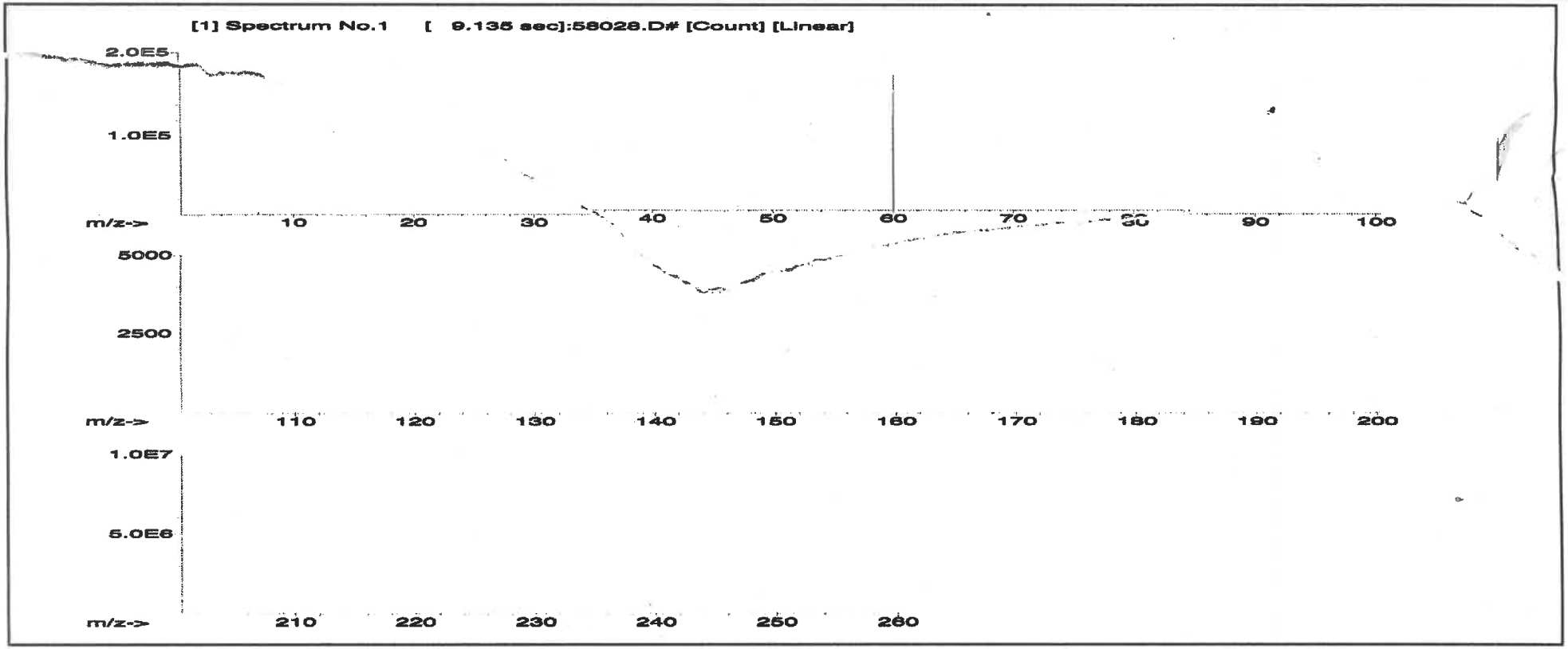
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
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:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

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. 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



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	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.
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* 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).

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Certified Reference Material CRM

R: 8/25/23 M5751

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AR-1539 Certificate Number
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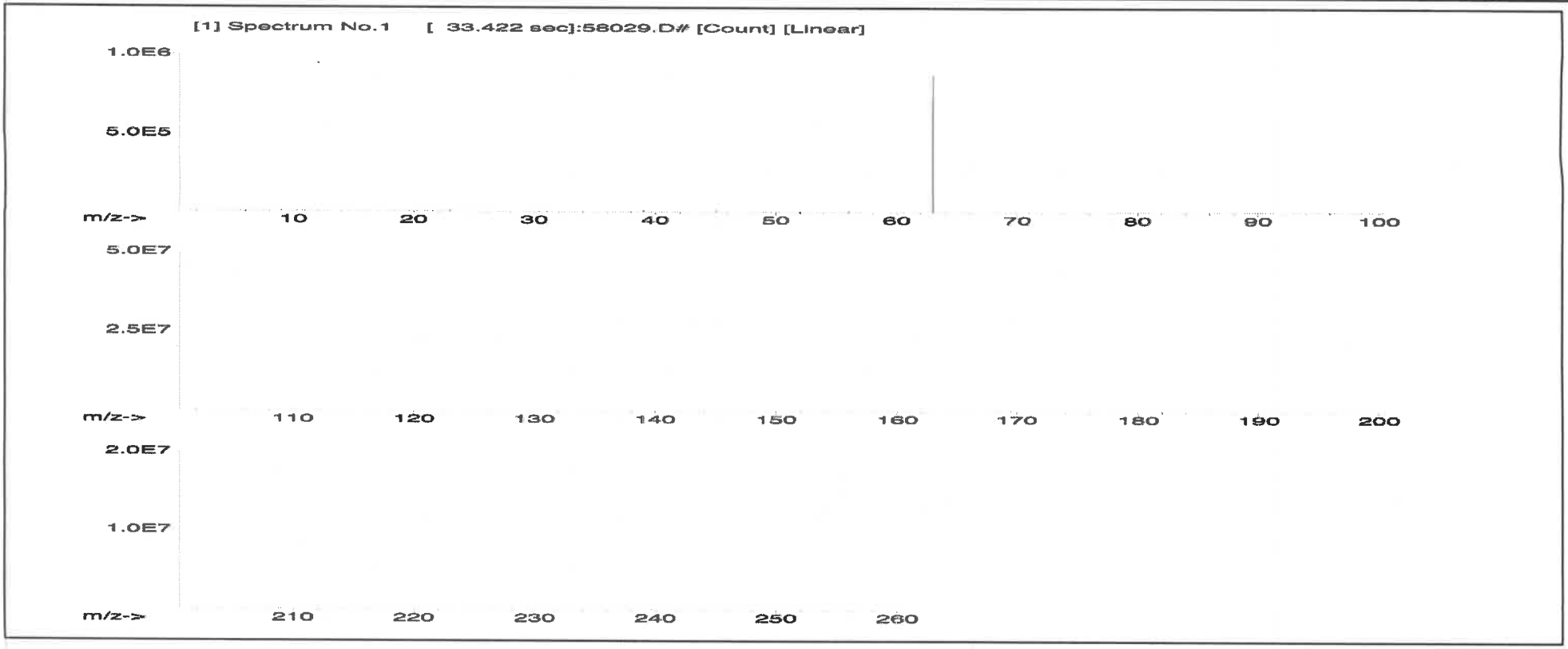
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
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	071723
Reviewed By:	Pedro L. Rentas	071723

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. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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.
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Certified Reference Material CRM

R: 02/09/24 M5798

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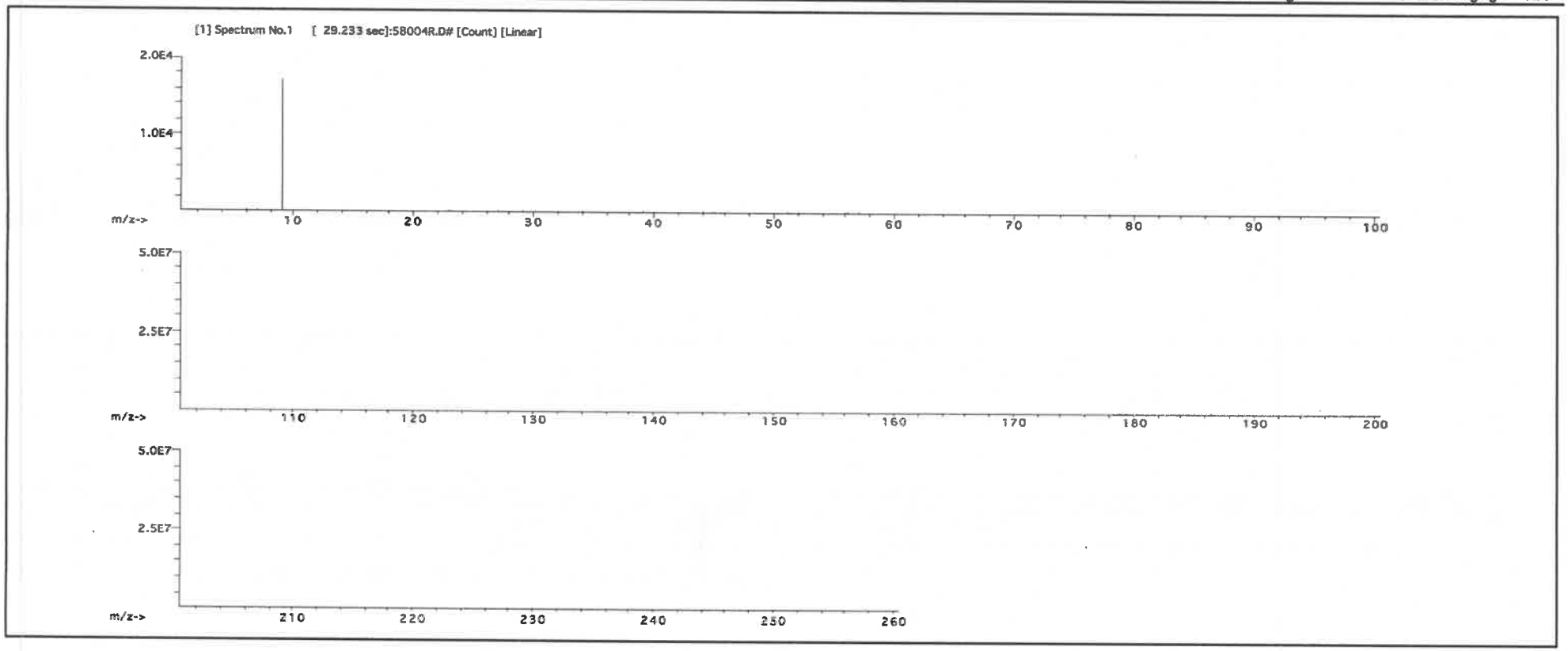
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
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 Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) 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	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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	T	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.

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* 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).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

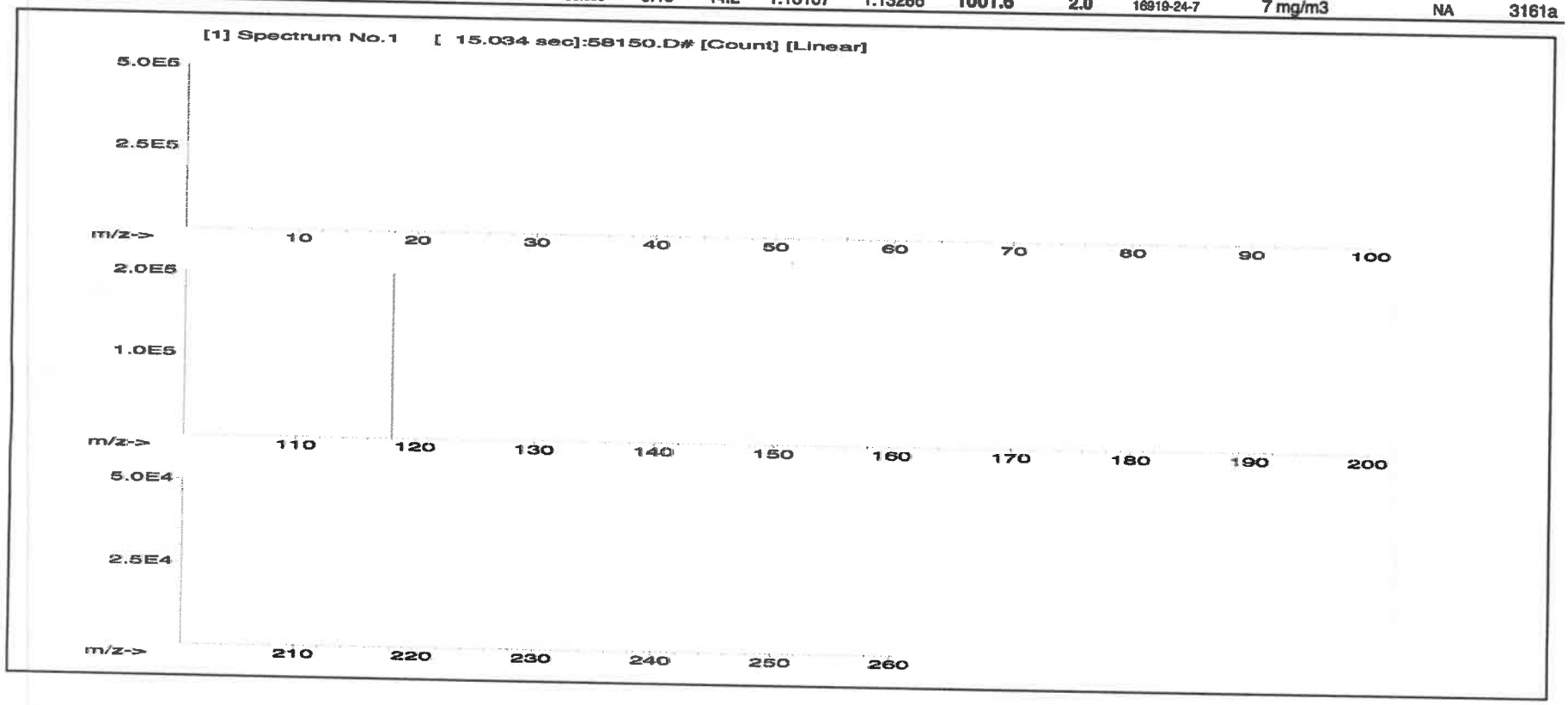
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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	<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	Sn	T	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:

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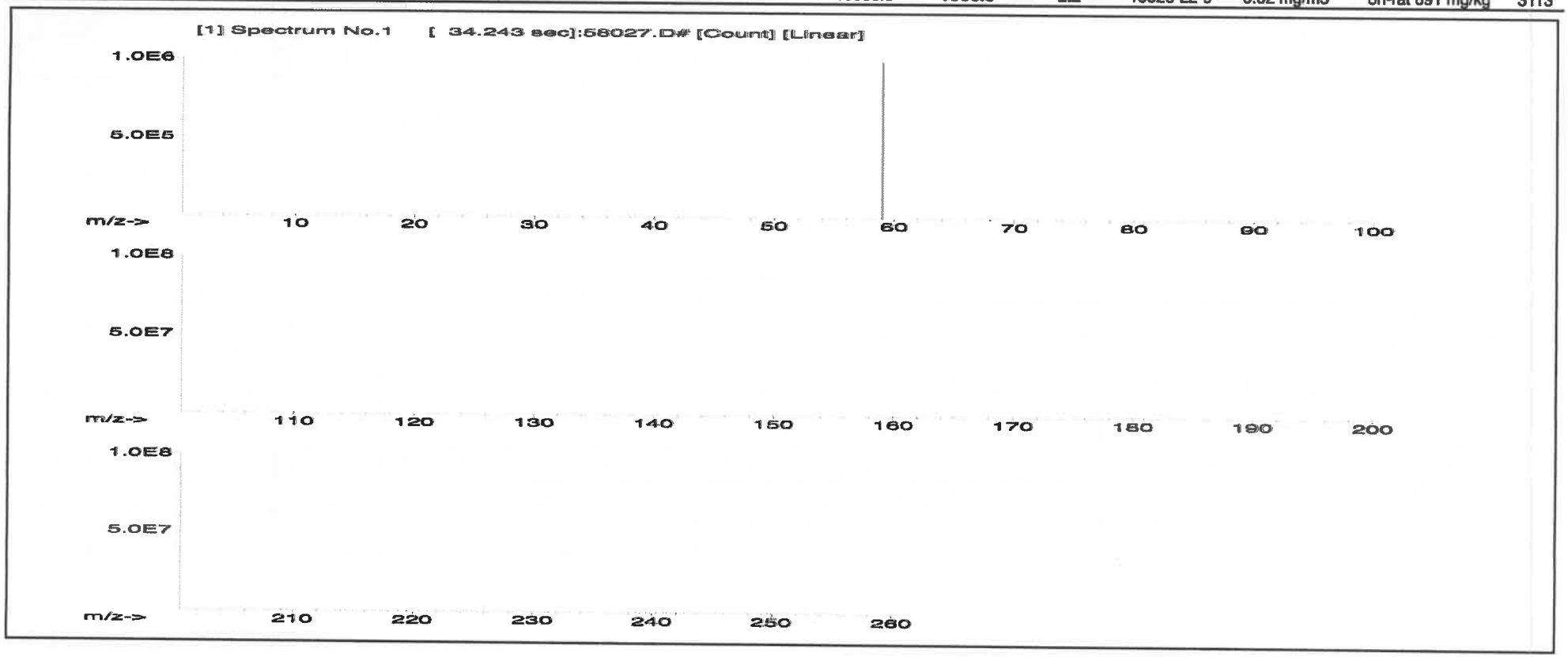
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
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:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

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. 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	<0.01	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	T	Gé	<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.

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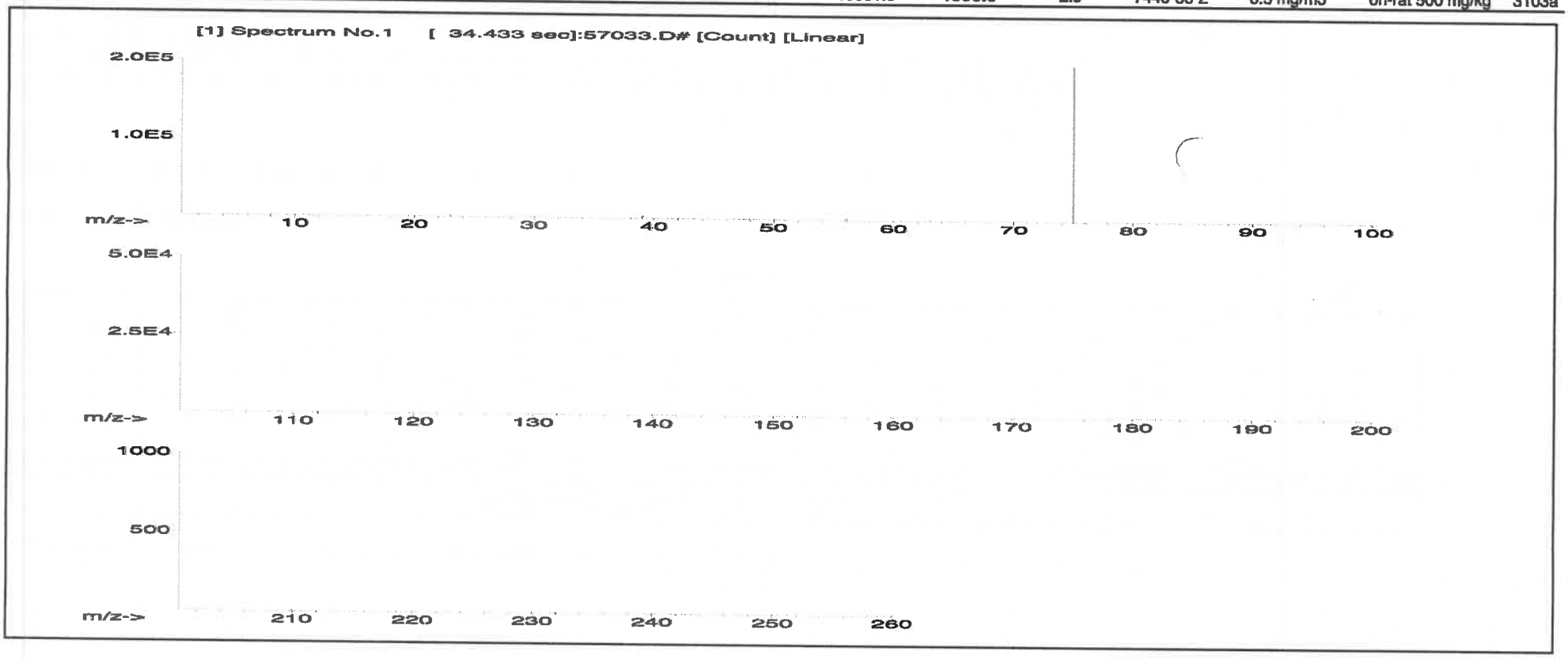
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
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):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	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	orl-rat 500 mg/kg	3103a



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	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	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.

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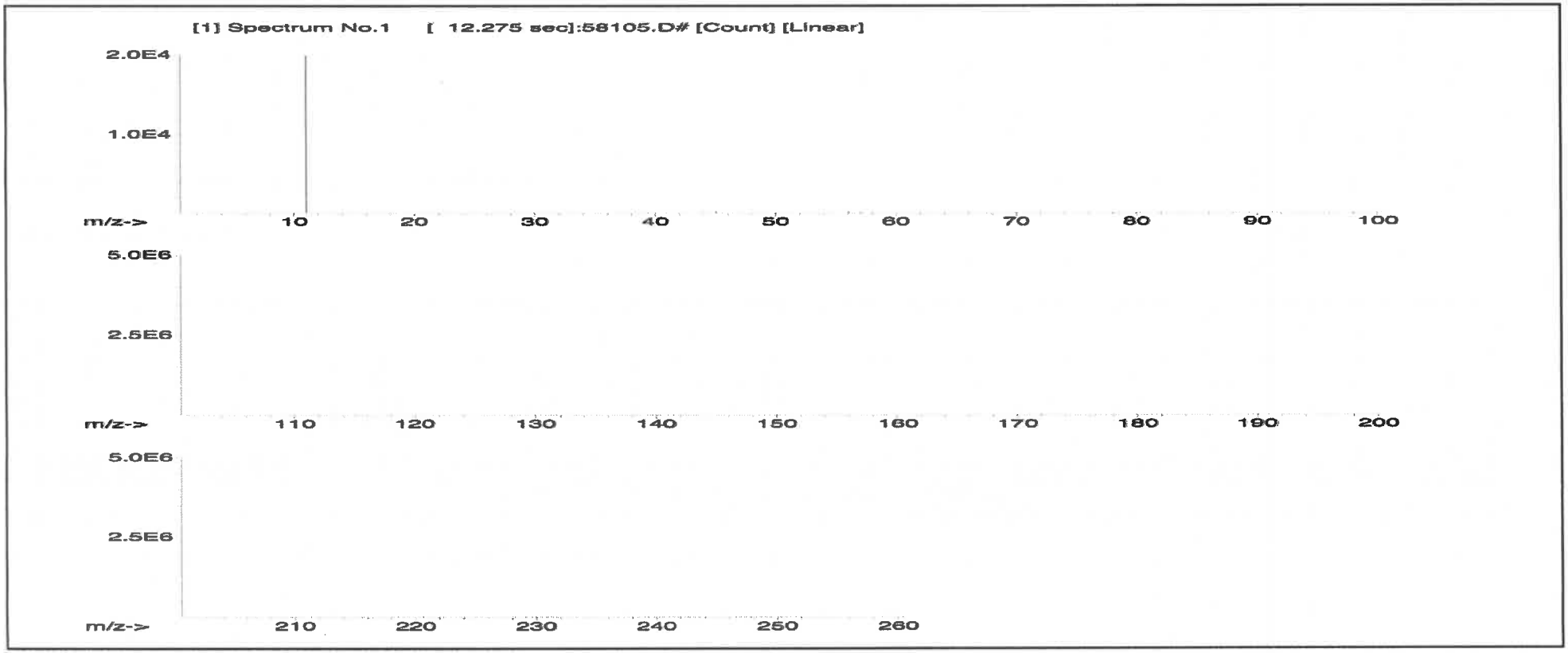
CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 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	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	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:

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Certified by:

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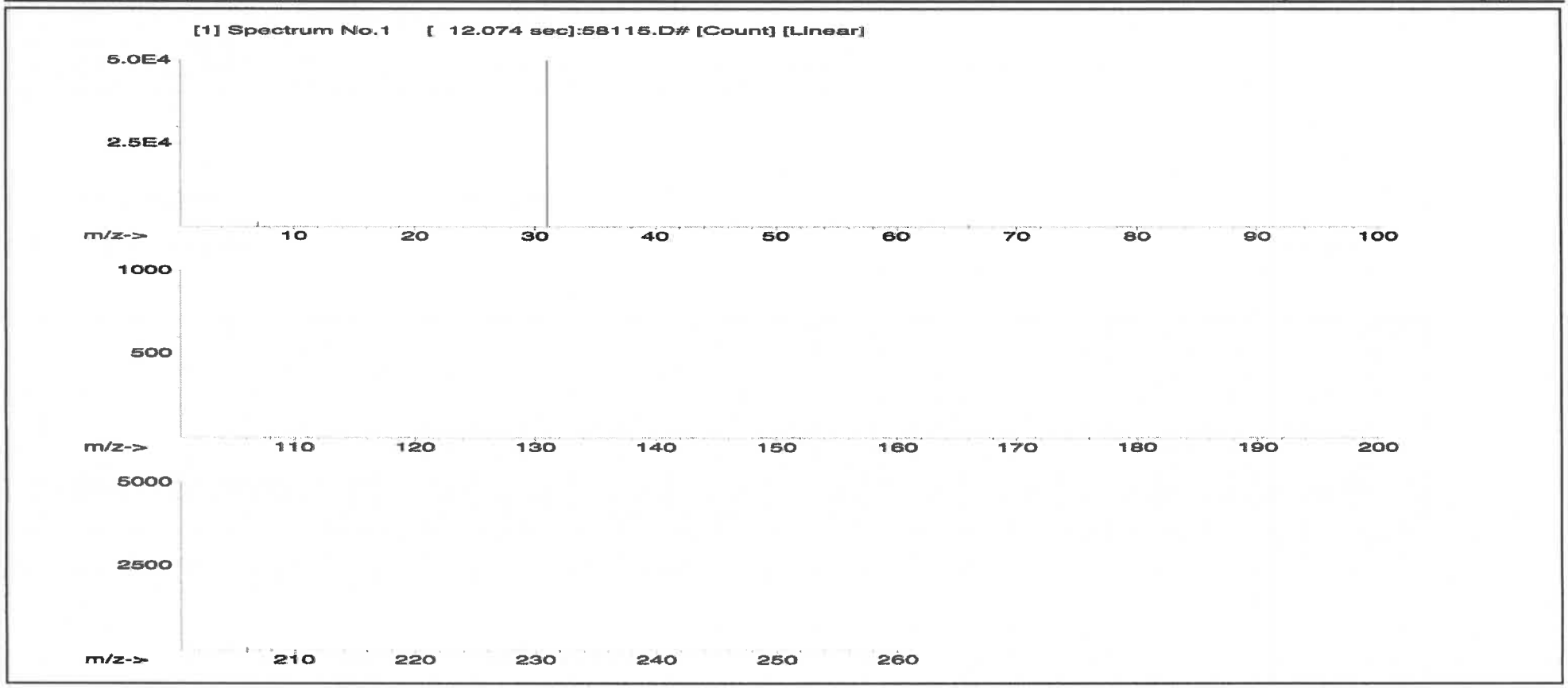
CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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	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	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:

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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)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 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

James T 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 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

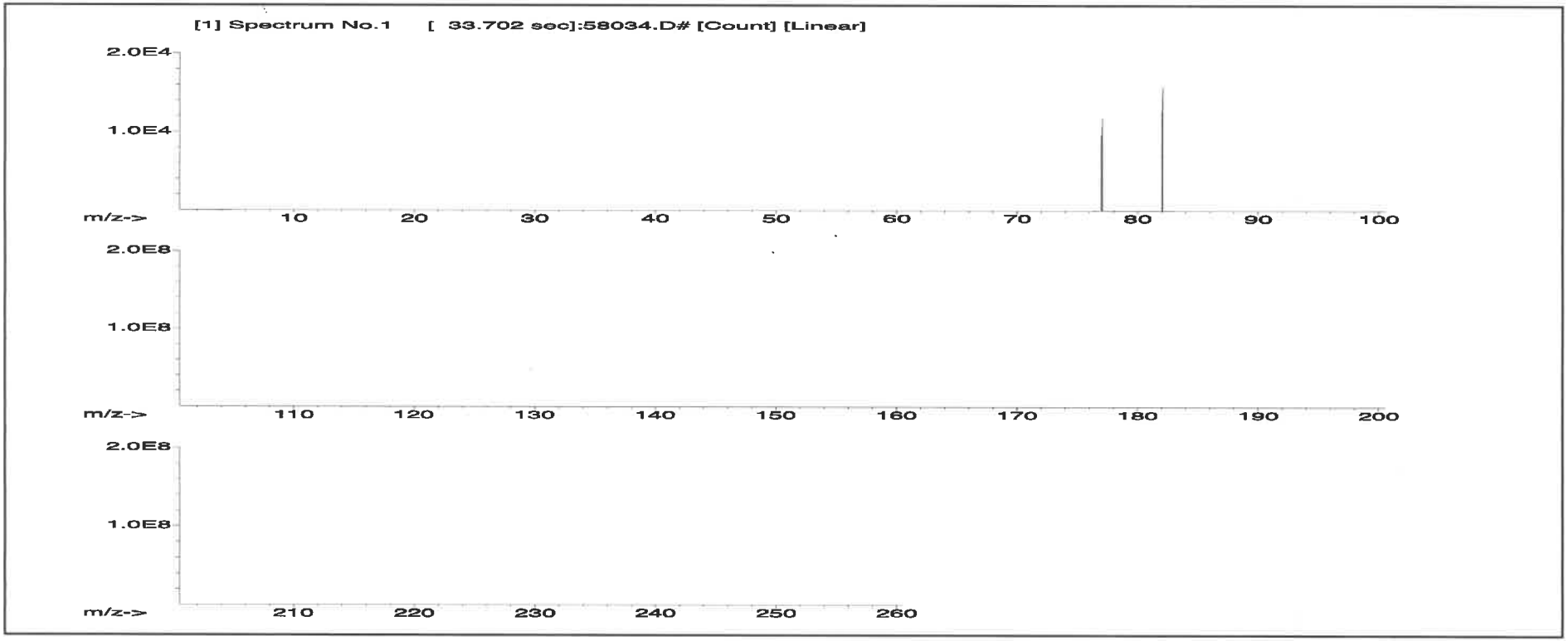
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
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	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

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. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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	T	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 certifed (+/-) 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).

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Certified Reference Material CRM

M5969 R: 06/11/24

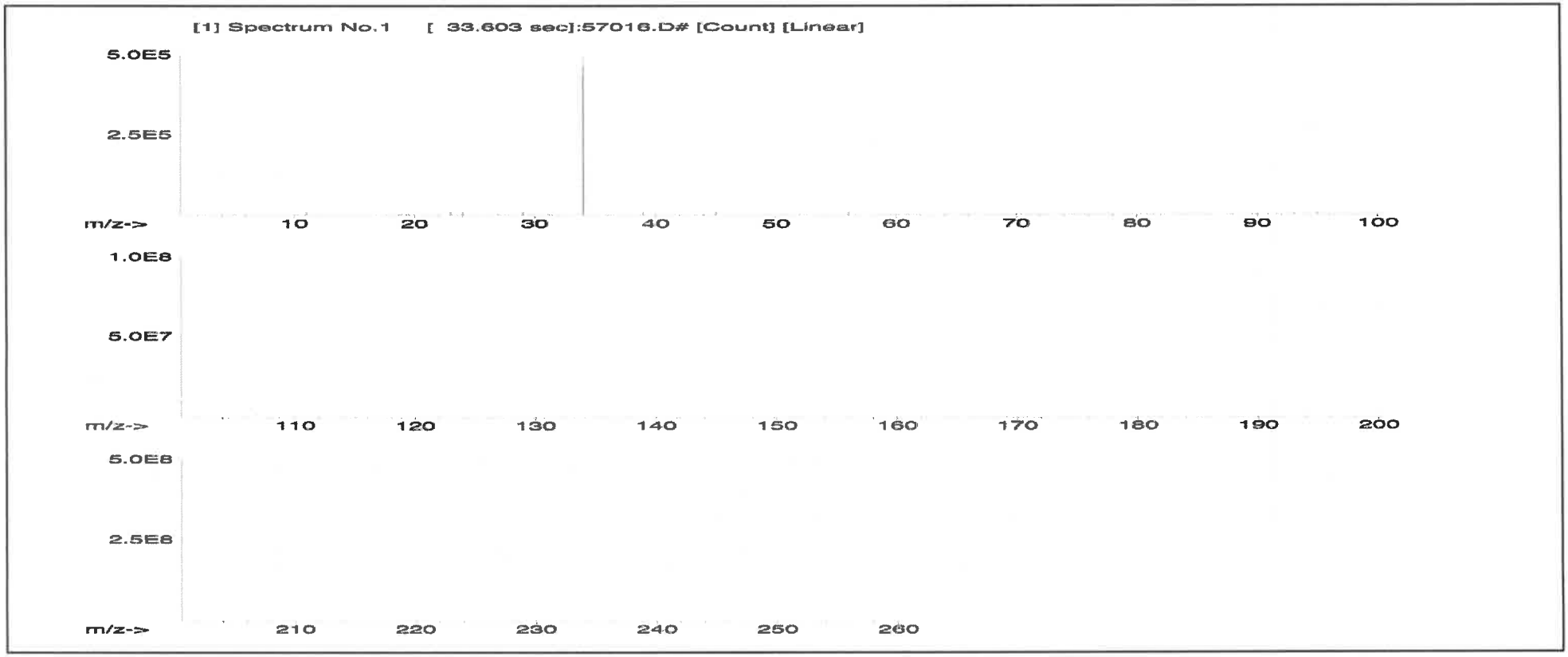
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

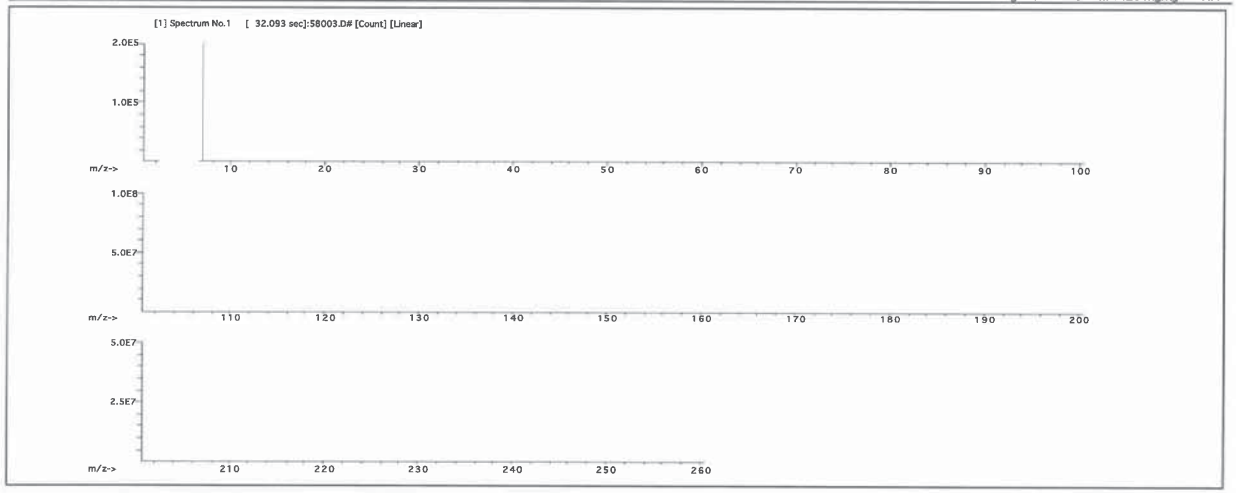
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

Reviewed By: Pedro L. Rentas 062124

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. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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	T	Ni	<0.02	Pr	<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	<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 certifed (+/-) 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).

M5978, M5979

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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).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: 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 Information:

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:

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = 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

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\,(u_{char\ i})^2)^{1/2}$ 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:

$X_{CRM/RM} = (\bar{x}_a)\ (u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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	<	0.000536	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		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
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	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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 - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. 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 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); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 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 crystalline form).

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 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

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 Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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info@inorganicventures.com

MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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 Pt0 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

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Certificate of Analysis

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/(u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i}^2)]^{1/2}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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. 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

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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

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{1/2}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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. 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

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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

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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).

ACCREDITED Testing Laboratory Certificate 883.01
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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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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. 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

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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

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Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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
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Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

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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
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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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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. 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.

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- 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

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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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

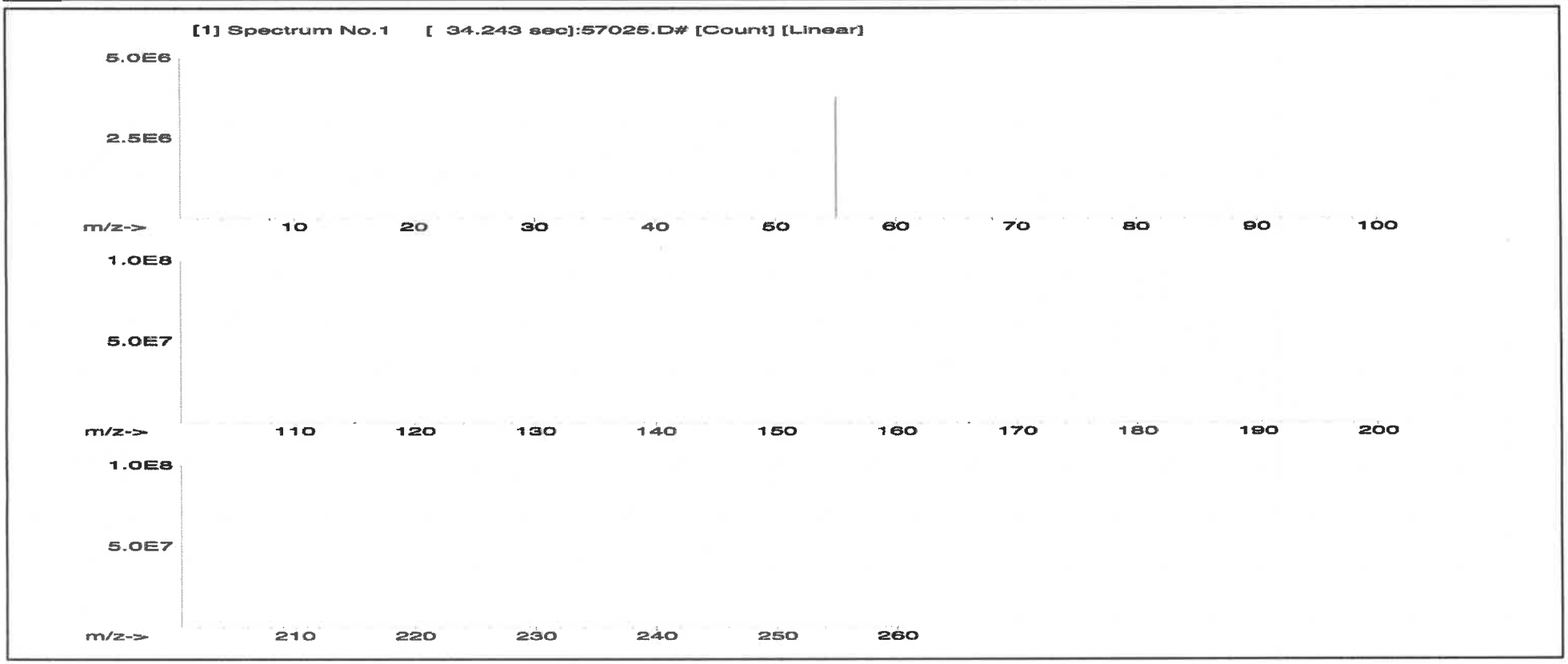
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

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)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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 certifed (+/-) 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).

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Certificate of Analysis

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

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k = coverage factor = 2

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- 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, amorphic (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; inorganicventures.com; 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

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M6138
R->1/13/25

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 121824
Description: Calcium (Ca)

Expiration Date: 121827
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

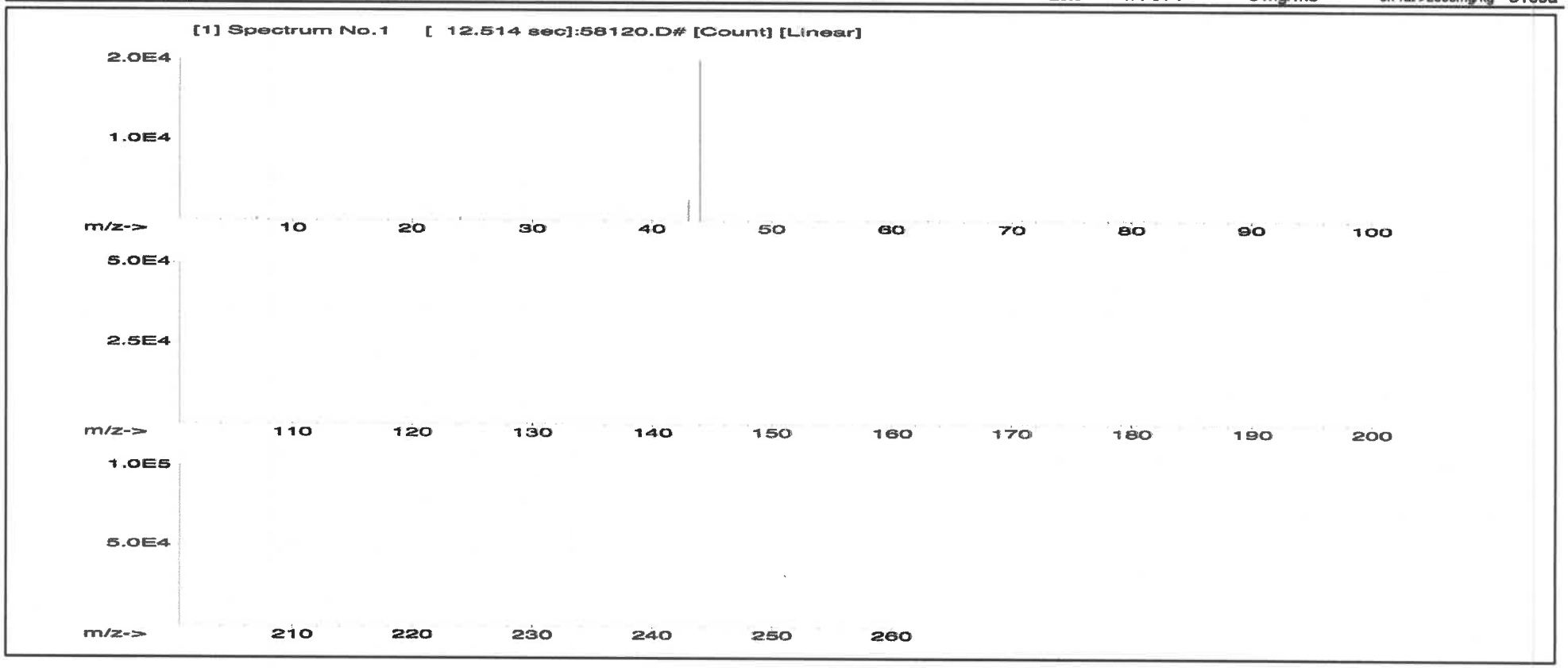
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 121824

Pedro Rentas
Reviewed By: Pedro L. Rentas 121824

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2677	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



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	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	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:

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 certifed (+/-) 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).

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CERTIFIED WEIGHT REPORT:

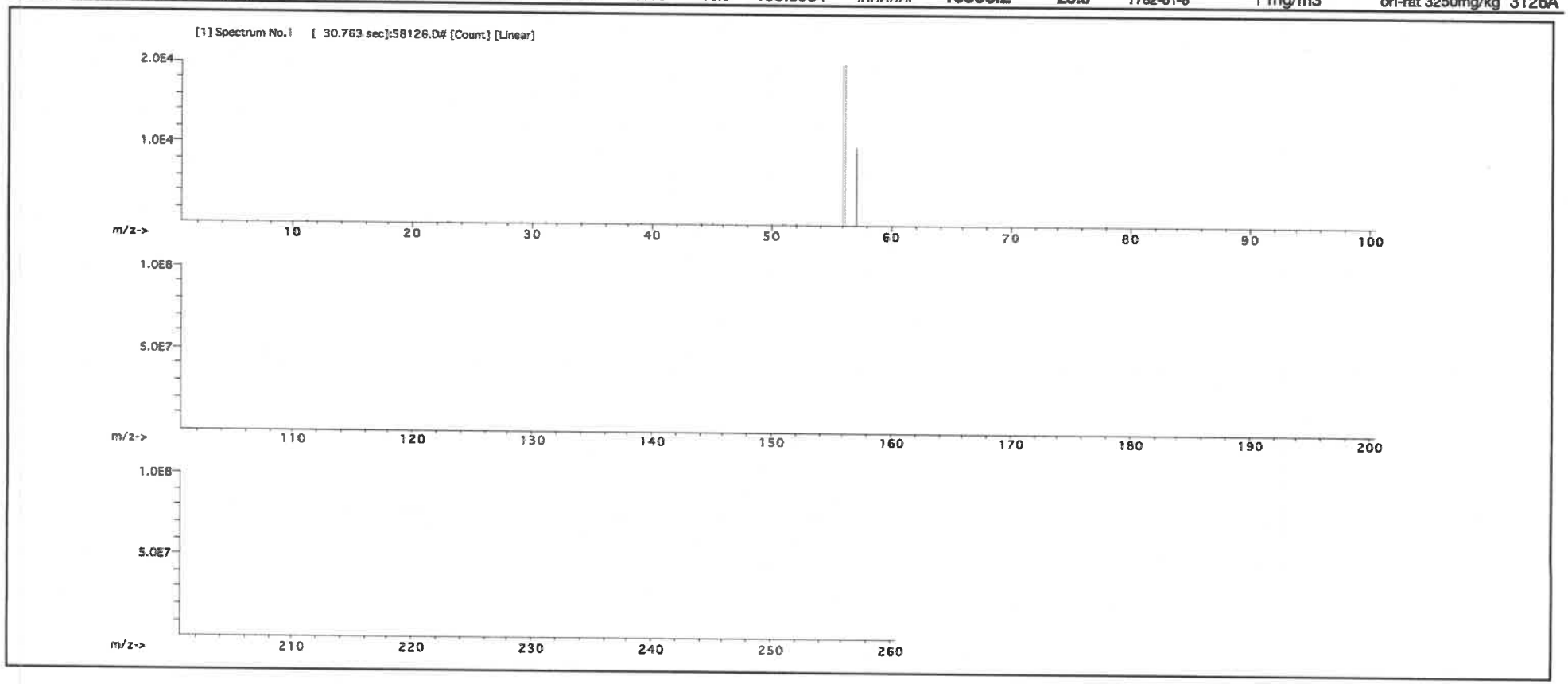
Part Number: 58126 R->1|B|2S
Lot Number: 011025
Description: Iron (Fe) M6140
Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Formulated By:	Benson Chan	011025
Reviewed By:	Pedro L. Rentas	011025

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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	orl-rat 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	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	T	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.
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* 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).

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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

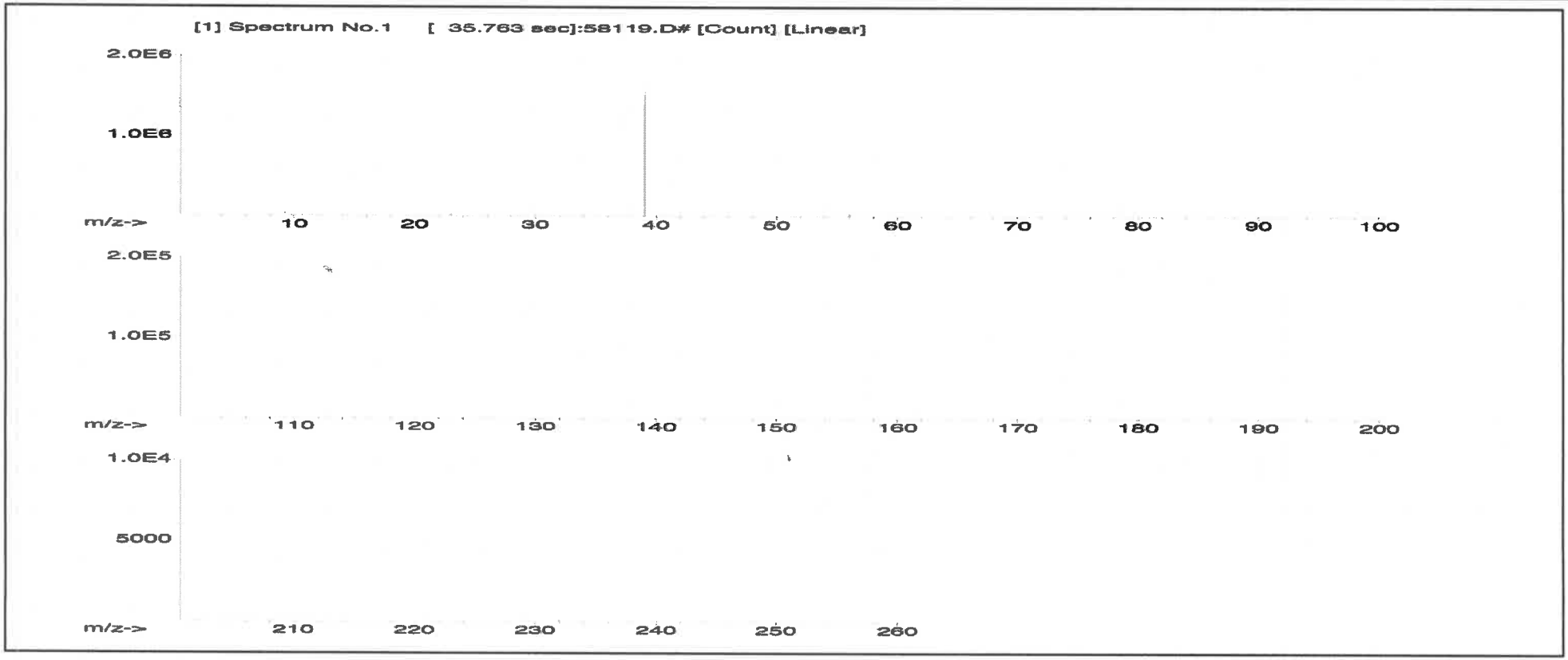
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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



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	<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:

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.
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CERTIFIED WEIGHT REPORT:

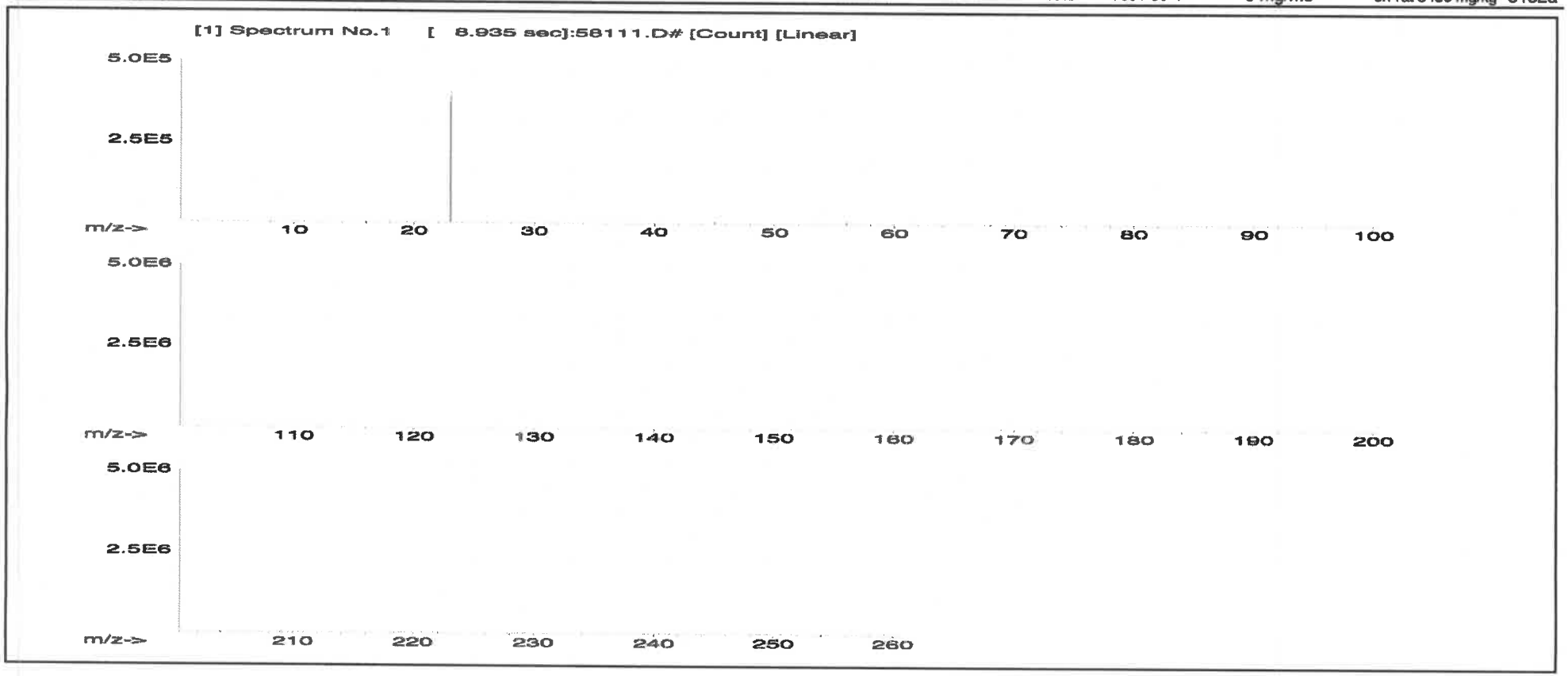
R->1/13/25

M6144

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**072424**			
Description:	**Sodium (Na)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	072427			
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. Rentas	072424

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	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



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	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	<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:

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.
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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

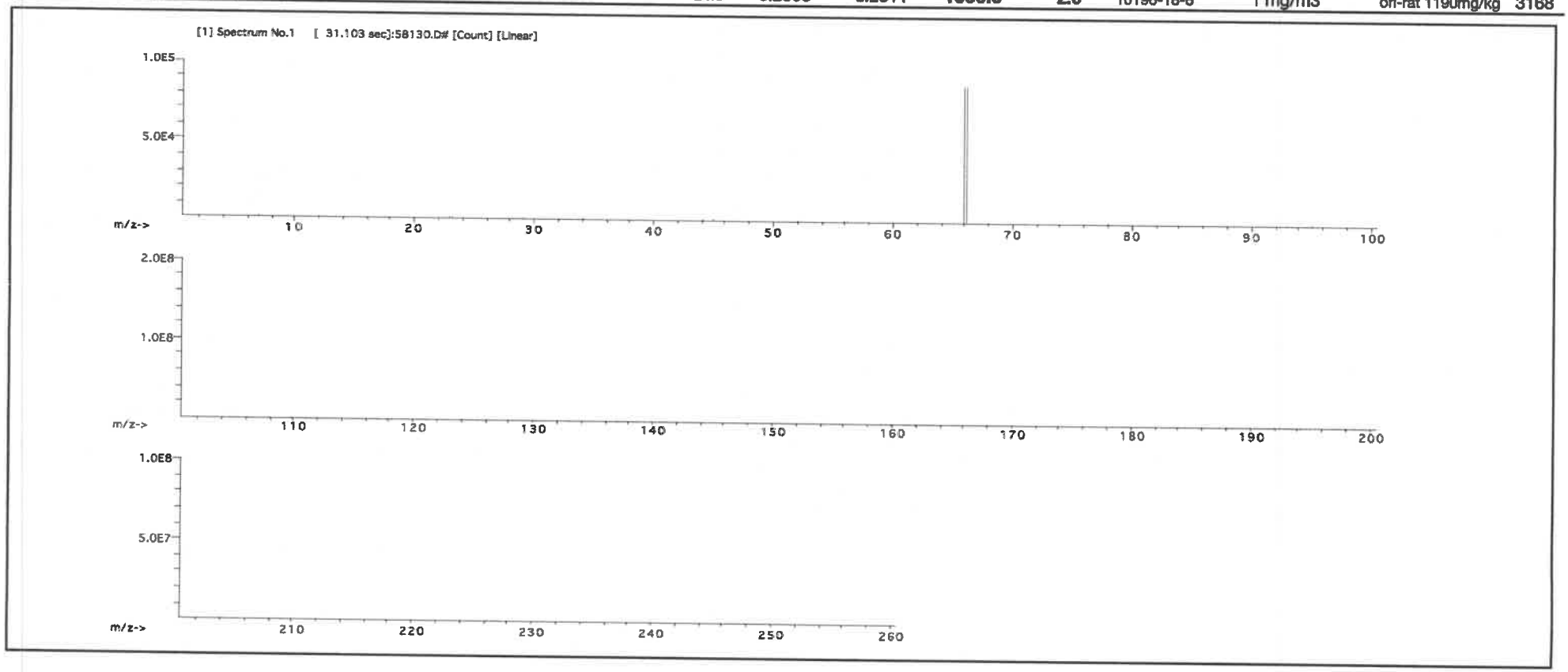
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.1 0.10 Flask Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

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)	SDS Information (Solvent Safety Info. On Attached pg.) 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	ori-rat 1190mg/kg	3168



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	T
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 certifed (+/-) 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™ | J.T.Baker®

M6151

R→ 1/15/25

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

avantor™ | J.T.Baker®

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™ | J.T.Baker®

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

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™ | J.T.Baker®

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™ | J.T.Baker®

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

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-1
Lot Number:	V2-MEB744107
Matrix:	7% (v/v) HNO3
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 ºC)

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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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.

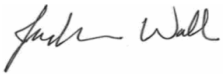
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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 ºC)

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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

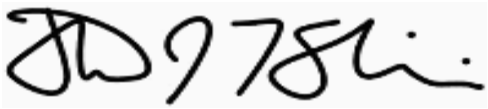
- Sealed TCT Bag Open Date: _____

- 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

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).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

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 ºC)

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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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.

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- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

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9.0 HOMOGENEITY

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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.

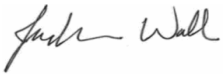
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

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

R.Date . 8-05/20/2025

avantor™ | J.T.Baker®

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™ | J.T.Baker®

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)

avantor™ | J.T.Baker®

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_2O_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 >>>

R -> 2/13/25

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

M 6171

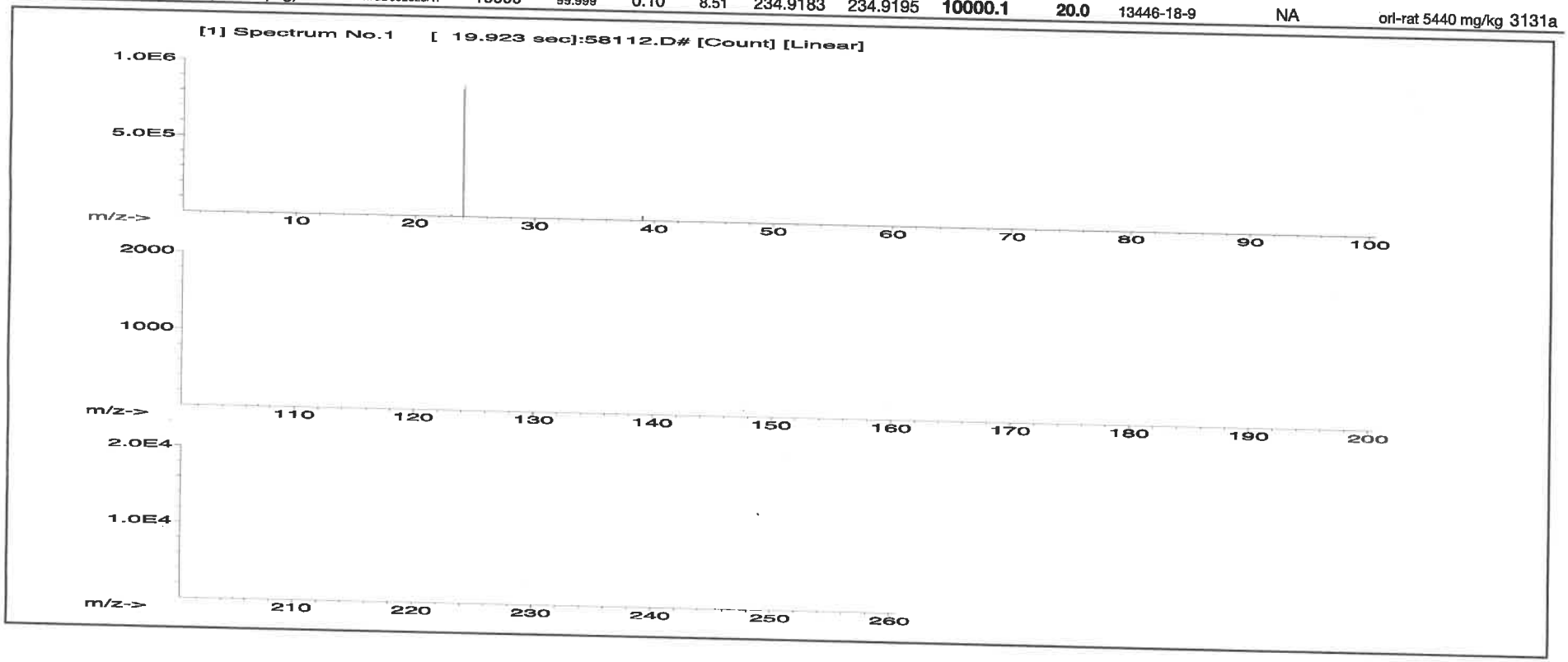
Part Number: 58112
Lot Number: 011525
Description: Magnesium (Mg)

Expiration Date: 011528
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	011525
Reviewed By:	Pedro L. Rentas	011525

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9195	**10000.1**	**20.0**	13446-18-9	NA	orl-rat 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	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 certifed (+/-) 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).

INORGANIC VENTURES
Refine your results. Redefine your industry.

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-> 5/5/24

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	V2-MEB742428
Matrix:	5% (v/v) HNO3
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.

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$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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

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

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
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https://Absolutestandards.com

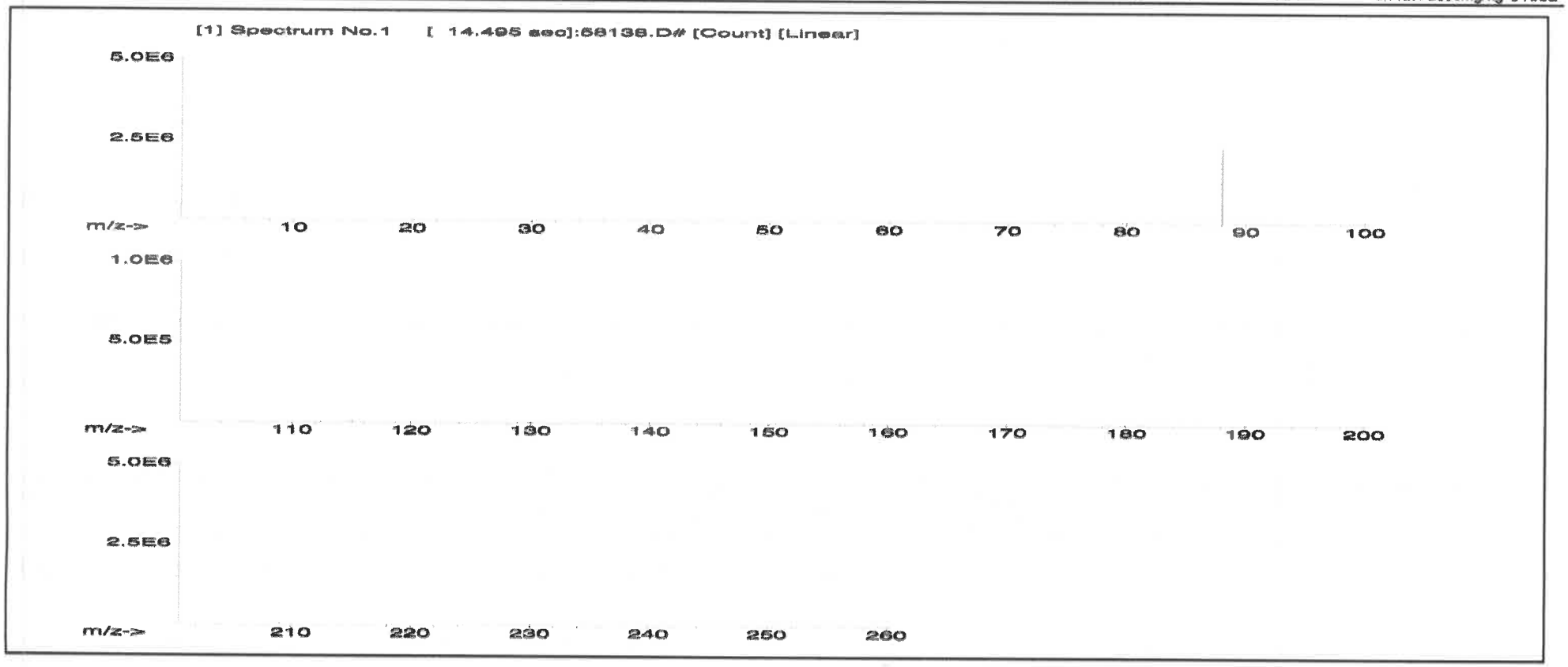
CERTIFIED WEIGHT REPORT:

R->8/6/29

Part Number:	57038		**Solvent:**	Lot # 24002546	Nitric Acid
Lot Number:	092724				
Description:	Strontium (Sr)		2%	40.0 (mL)	Nitric Acid
Expiration Date:	092727	M6176			
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	1000				
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	092724
Reviewed By:	Pedro L. Rentas	092724

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85481	**1000.0**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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	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:

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 certifed (+/-) 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).

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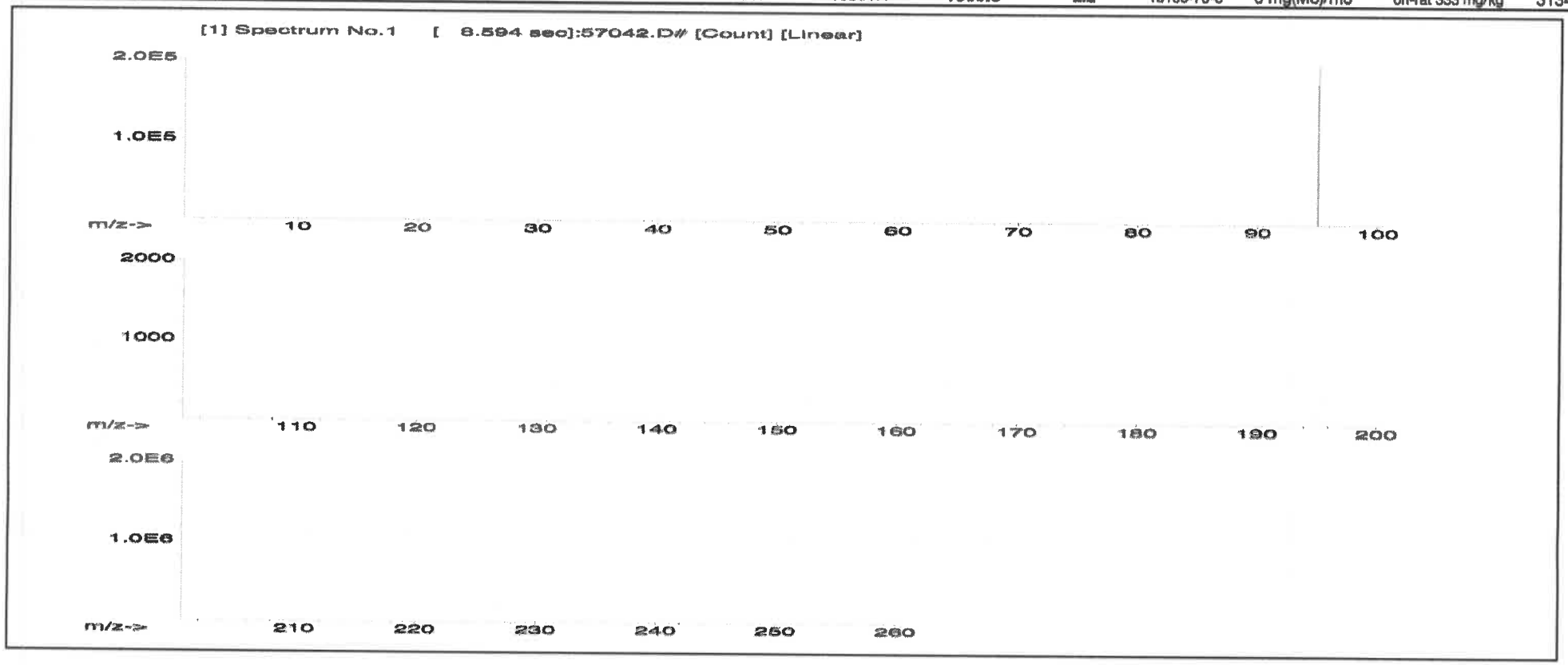
CERTIFIED WEIGHT REPORT:

R→ 8/6/25
M6177

		Lot #	Solvent:		
Part Number:	57042	MKBQ8597V	Ammonium hydroxide		
Lot Number:	080525	080525	ASTM Type 1 Water		
Description:	Molybdenum (Mo)	0.5%	10.0 (mL)	Ammonium hydroxide	
Expiration Date:	080528				
Recommended Storage:	Ambient (15 - 30 °C)				
Nominal Concentration (µg/mL):	1000				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	1999.41	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	080525
Reviewed By:	Pedro L. Rentas	080525

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. Ammonium molybdate (Mo)	58142	112322	0.1000	200.0	0.084	1000	10001.4	**1000.5**	**2.2**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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	T	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 by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
* Standards are certifed (+/-) 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

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R>8/6/28
M6178

Part Number:	57082		**Solvent:**	Lot # 24014457	Nitric Acid
Lot Number:	031525				
Description:	Lead (Pb)		2%	40.0 (mL)	Nitric Acid
Expiration Date:	031528				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	1000				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.07	0.10 Flask Uncertainty			

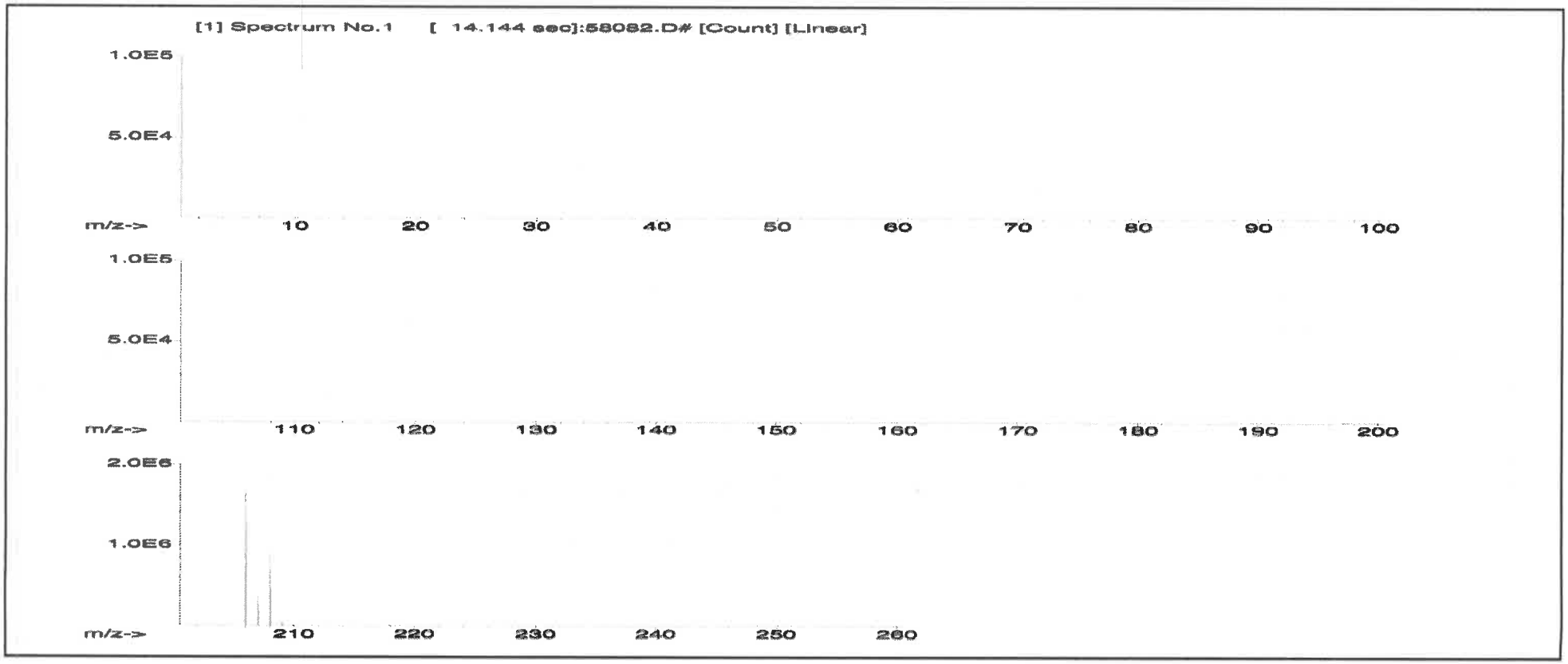
Giovanni Esposito

Formulated By:	Giovanni Esposito	031525

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031525

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)	SDS Information (Solvent Safety Info. On Attached pg.) 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	intrvns-rat 93 mg/kg	3128



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	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	<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	T	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 certifed (+/-) 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).

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

M6179
R -> 6/2/24

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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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 Pt0 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

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Certificate of Analysis

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	W2-MEB752149
Matrix:	5% (v/v) HNO3

M6180
R-7/22/23

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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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

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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

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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).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

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, SiO2	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
SiO2	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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ 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 Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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. 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

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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

R→03/06/24

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

APTIM

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

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(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,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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 HNO_3. 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 HNO_3. 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.

R→03/06/24

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.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

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,

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 HNO_3. 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 HNO_3. 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.

Nitric Acid 69%
CMOS

M6187
R.D :- 08/08/25

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
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	< 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™ | J.T.Baker®

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™ | J.T.Baker®

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6200
R.0 → 08/25/25

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
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	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 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	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 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	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

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 Croak
Director Quality Operations, Bioscience Production

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6027

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

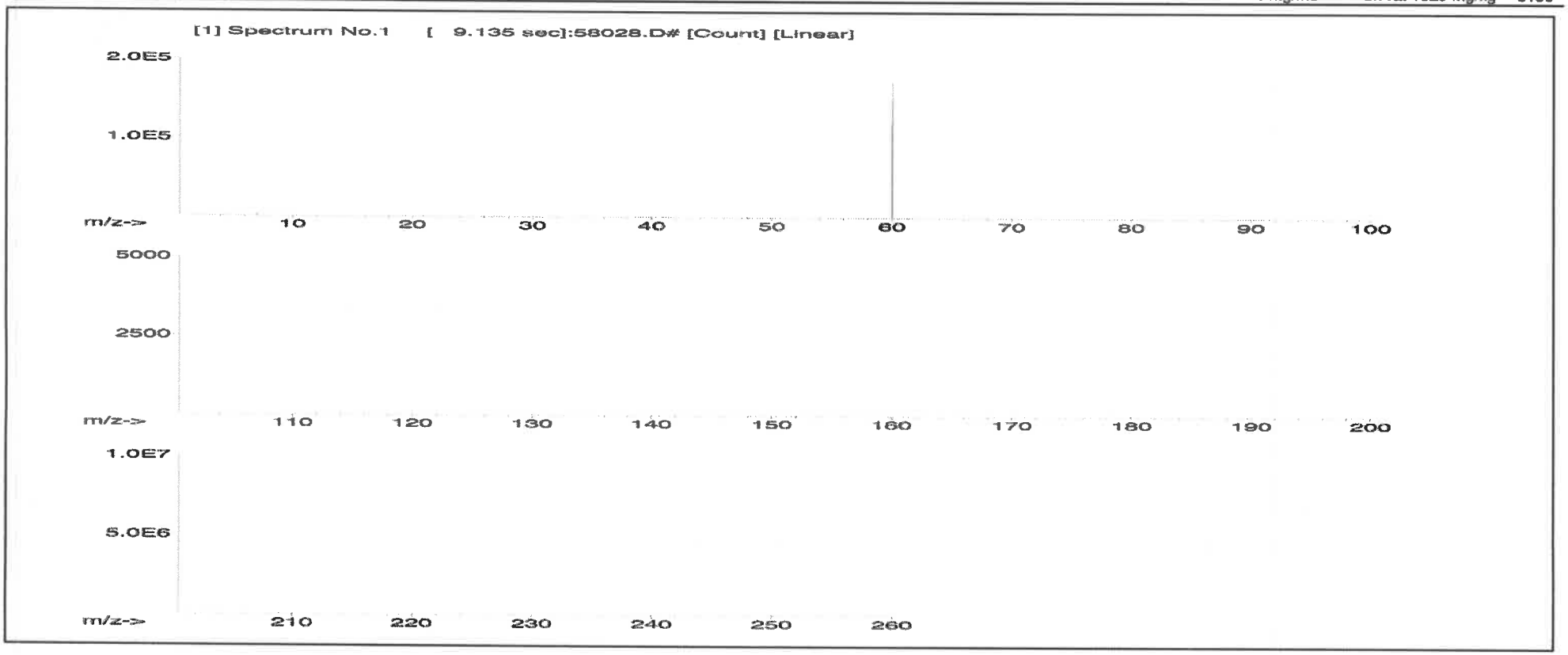
R 8/05/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**062024**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062027			
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	

Formulated **By:**	Benson Chan	062024
Reviewed By:	Pedro L. Rentas	062024

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. 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



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:

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 certifed (+/-) 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).

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Certified Reference Material CRM

M6030

R: 8/5/24

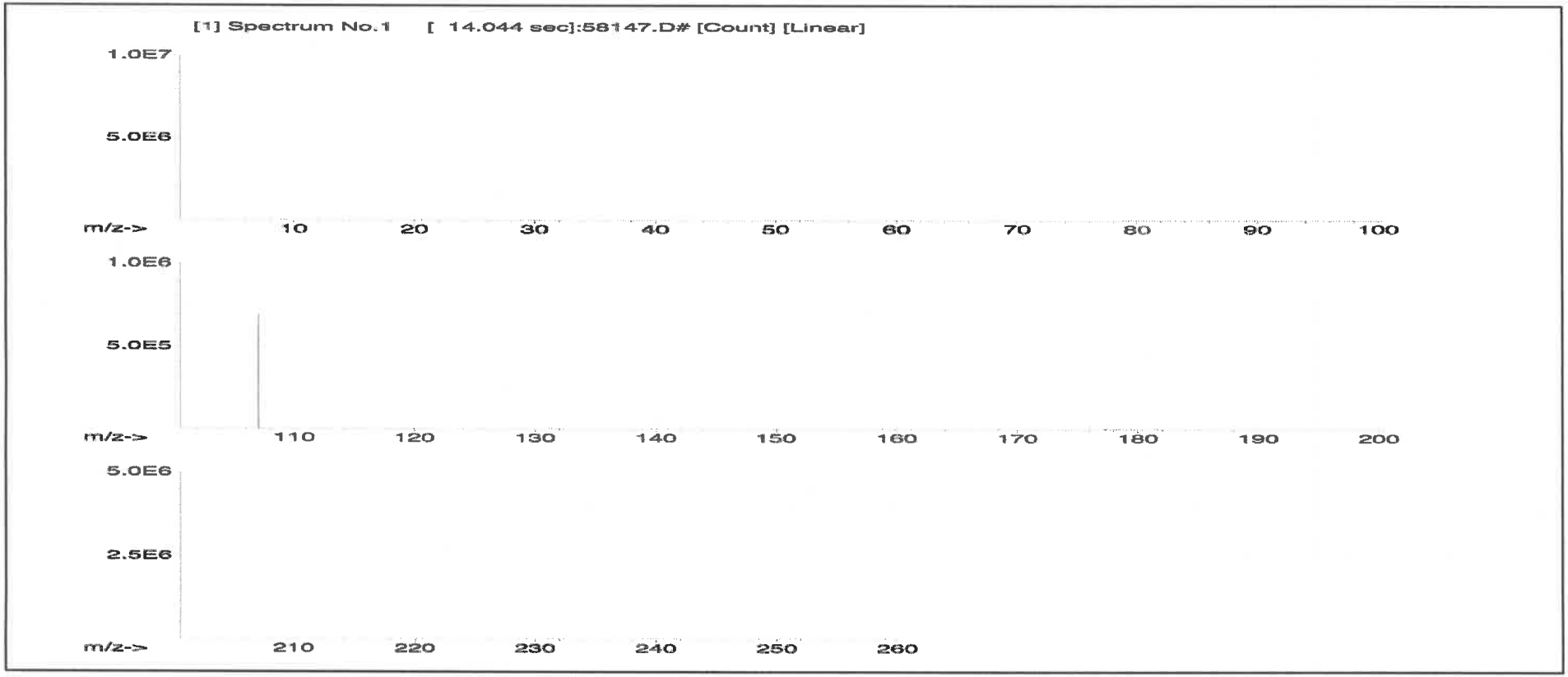
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**			**Lot #**	
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	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	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	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 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 certifed (+/-) 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).

opened : 3/24/25

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

M6160

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)

Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

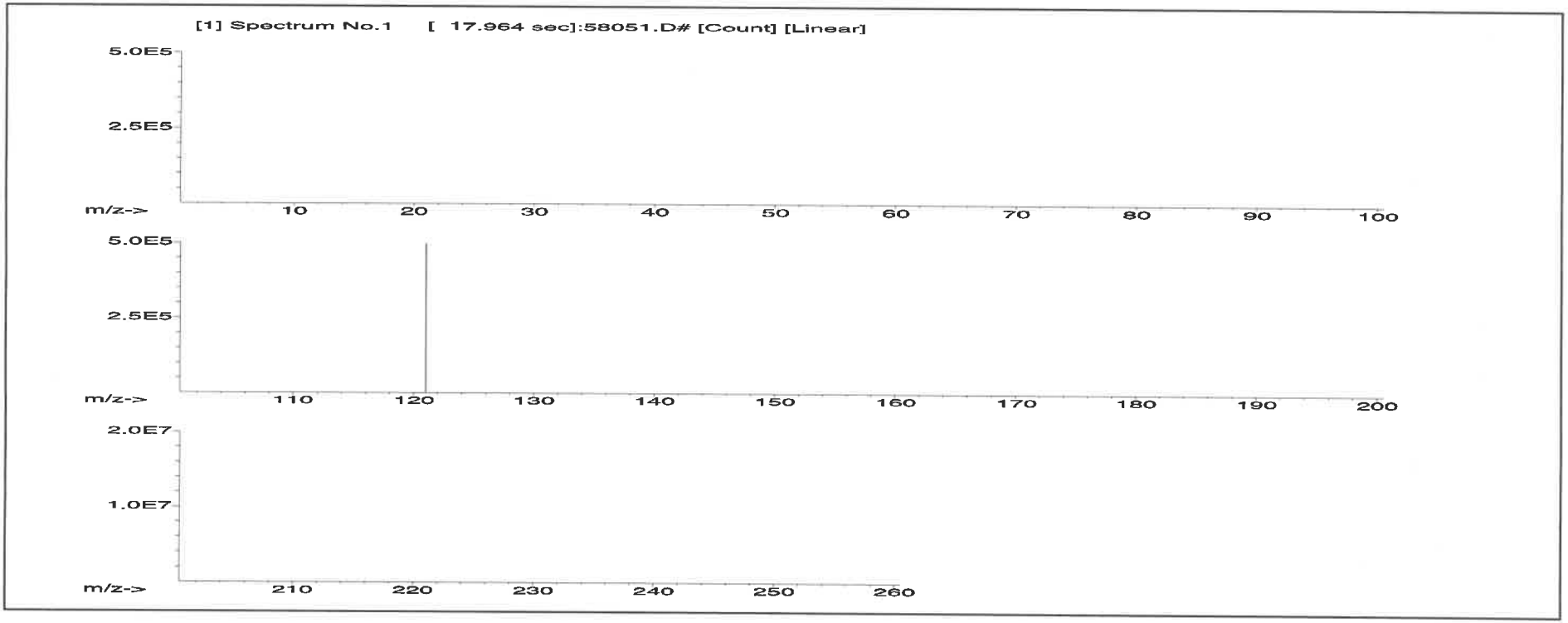
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

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. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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	T	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 certifed (+/-) 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).

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Certified Reference Material CRM

M6023

R ! 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

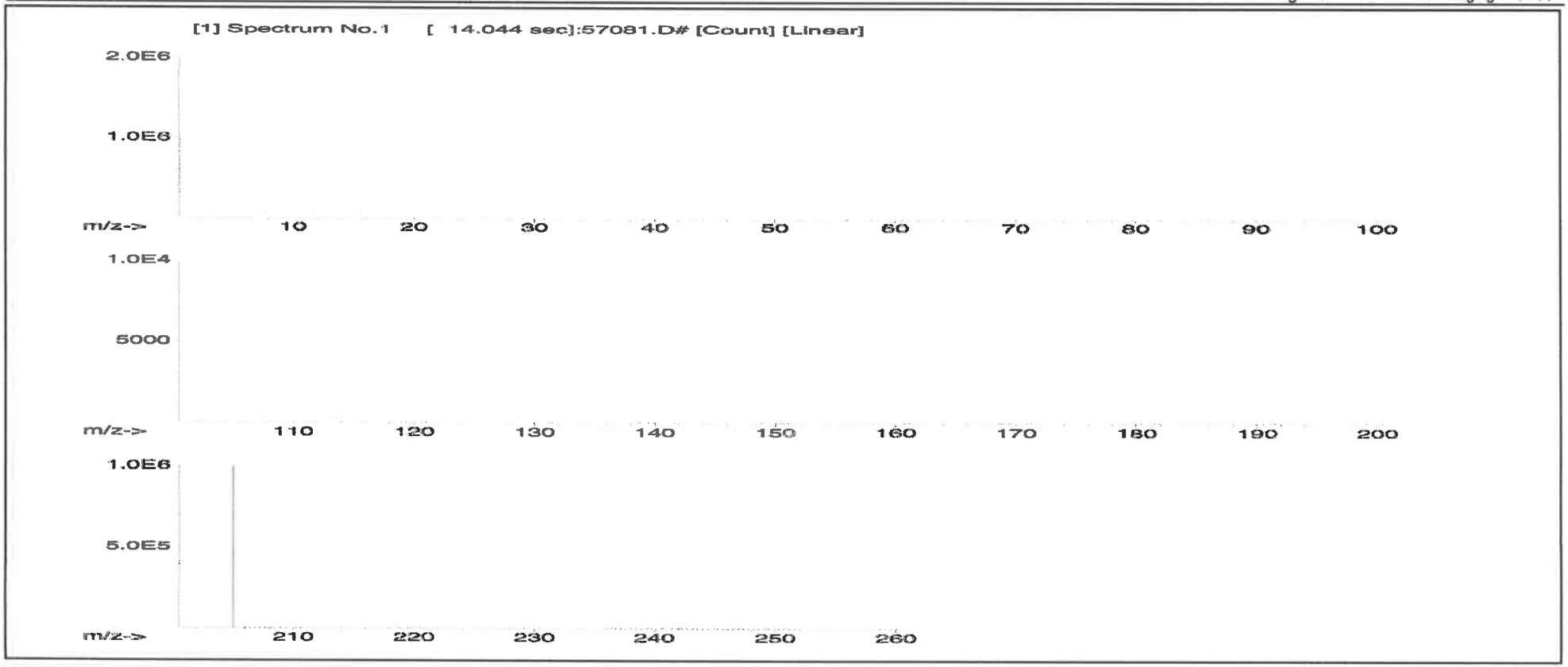
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

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)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	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



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	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	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:

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M6021

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Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
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):	2000.3	0.06	Flask Uncertainty	

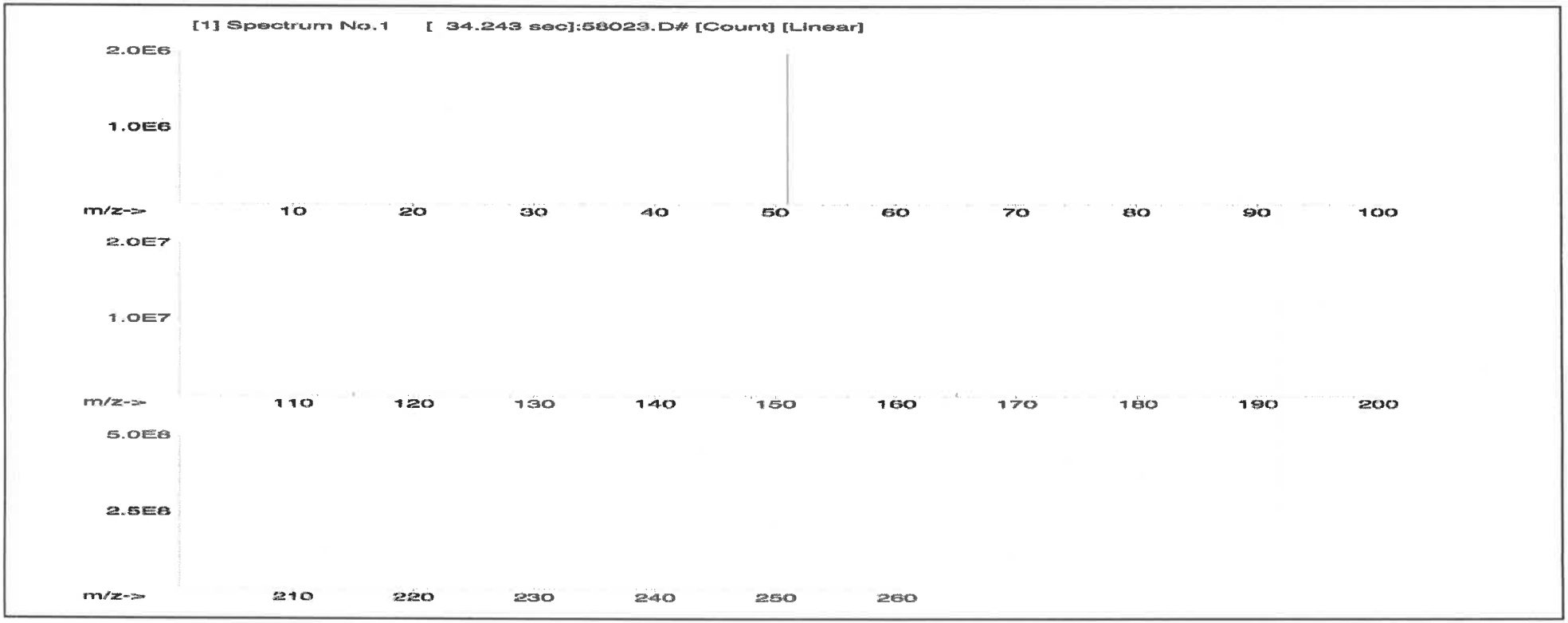
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

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. 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	orl-rat 58.1mg/kg	3165



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	T
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

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SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q3266
COC Number 2045358

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM Smith
ADDRESS: 110 Fieldcrest Ave., #8, 6th floor
CITY Edison STATE: NJ ZIP: 08837
ATTENTION: Marcie Encinas
PHONE: 908-642-5565 FAX: 732-225-7851

CLIENT PROJECT INFORMATION

PROJECT NAME: MECoCJOWTPPFAS- Geotech ENV
PROJECT NO.: 295110 LOCATION: Edison, NJ
PROJECT MANAGER: David Tanzi
e-mail: TANZIDJ@cdmsmith.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 Fieldcrest Ave, #8, 6th Floor
CITY Edison STATE: NJ ZIP:
ATTENTION: Marcie Encinas PHONE: 908-642-5565

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ 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 + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1. TCL VOC+10
2. TCL SVOC +20
3. TAL Metal
4. Mercury
5. PCB
6. TCL Pesticide
7. Herbicide
8. EPH
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	ENV-3 /6ft	Soil		X	10/1/25	7:50	4	X	X	X	X	X	X	X	X		
2.	ENV-4 /6ft	Soil		X	10/1/25	11:00	4	X	X	X	X	X	X	X	X		
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. M.H.	10/1/25 1410	1.
2.	DATE/TIME:	2.
3.	10/1/25 1500	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 4.7 °C
Comments:

Page ____ of

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3266 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 10/1/2025 3:15:00 PM
Project Name : MWCO CJO WTP Edison 2
Receive DateTime : 10/1/2025 3:00:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3266-01	ENV-3-6FT	Solid	10/01/2025	07:50	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3266-02	ENV~~4~~-6FT	Solid	~~10/01/2025~~ 10/01/2025	11:00	VOC-TCLVOA-10		8260D		10 Bus. Days

Tbl requested

Stored in VOA Refr #02 and Extract in Refr #06

Relinguished By :
Date / Time : 10/1/25 15:30

Received By :
Date / Time : 10-1-25 15:35

Storage Area : VOA Refridgerator Room