284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

METALS

PROJECT NAME : R37106

TETRA TECH, EMI

240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

ORDER ID : Q3764

ATTENTION : Ava Heiss

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3764

Project ID : R37106

Client : Tetra Tech, EMI

Lab Sample Number	Client Sample Number
Q3764-01	MC0KD3
Q3764-02	MC0KD4
Q3764-03	MC0KD5
Q3764-04	MC0KD6
Q3764-05	MC0KD8
Q3764-06	MC0KD9
Q3764-07	MC0KE0
Q3764-08	MC0KE1
Q3764-09	MC0KE2
Q3764-10	MC0KE4
Q3764-11	MC0KE4MS
Q3764-12	MC0KE4MSD
Q3764-13	MC0KF2
Q3764-14	MC0KF4

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:01 am, Dec 12, 2025

Date: 12/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech, EMI
Project Name: R37106
Project Manager : Ava Heiss
Order ID # Q3764
Test Name: Metals ICP-TAL

A. Number of Samples and Date of Receipt:
14 Water samples were received on 12/03/2025.

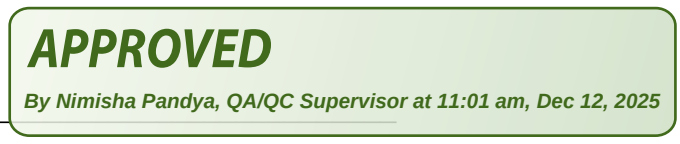
B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals ICP-TAL. This data package contains results for Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate analysis met criteria for all compounds.
The Matrix Spike (MC0KE4MS) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (MC0KE4MSD) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

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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

QA Control # A3040961

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3764 MATRIX: Water

METHOD: 6010D

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike (MC0KE4MS) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MC0KE4MSD) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion Process.			
7.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:54 am, Dec 12, 2025

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3764

	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:** 12/11/2025

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LAB CHRONICLE

OrderID:	Q3764	**OrderDate:**	12/3/2025 12:30:00 PM
Client:	Tetra Tech, EMI	**Project:**	R37106
Contact:	Ava Heiss	**Location:**	A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3764-01	**MC0KD3**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-02	**MC0KD4**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-03	**MC0KD5**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-04	**MC0KD6**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-05	**MC0KD8**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-06	**MC0KD9**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-07	**MC0KE0**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-08	**MC0KE1**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-09	**MC0KE2**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-10	**MC0KE4**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-13	**MC0KF2**	**Water**			**11/25/25**			**12/03/25**
			Metals ICP-TAL	6010D		12/04/25	12/09/25	
Q3764-14	**MC0KF4**	**Water**			**11/25/25**			**12/03/25**

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LAB CHRONICLE

Metals ICP-TAL	6010D	12/04/25	12/09/25

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MC0KD3								
Q3764-01	MC0KD3	Water	Aluminum	732		5.67	50.0	ug/L
Q3764-01	MC0KD3	Water	Antimony	77.5		3.38	25.0	ug/L
Q3764-01	MC0KD3	Water	Arsenic	22.5		2.56	10.0	ug/L
Q3764-01	MC0KD3	Water	Barium	66.1		7.28	50.0	ug/L
Q3764-01	MC0KD3	Water	Cadmium	12.8		0.25	3.00	ug/L
Q3764-01	MC0KD3	Water	Calcium	99300		117	1000	ug/L
Q3764-01	MC0KD3	Water	Chromium	7.34		1.06	5.00	ug/L
Q3764-01	MC0KD3	Water	Cobalt	4.12	J	1.13	15.0	ug/L
Q3764-01	MC0KD3	Water	Copper	160		2.30	10.0	ug/L
Q3764-01	MC0KD3	Water	Iron	3280		11.7	50.0	ug/L
Q3764-01	MC0KD3	Water	Lead	8490		1.15	6.00	ug/L
Q3764-01	MC0KD3	Water	Magnesium	17900		122	1000	ug/L
Q3764-01	MC0KD3	Water	Manganese	560		2.97	10.0	ug/L
Q3764-01	MC0KD3	Water	Nickel	12.2	J	1.53	20.0	ug/L
Q3764-01	MC0KD3	Water	Potassium	2850		459	1000	ug/L
Q3764-01	MC0KD3	Water	Sodium	19900		434	1000	ug/L
Q3764-01	MC0KD3	Water	Vanadium	3.39	J	3.13	20.0	ug/L
Q3764-01	MC0KD3	Water	Zinc	252		8.33	20.0	ug/L
Q3764-01	MC0KD3	Water	Hardness, Total	322000		795	6620	ug/L
Client ID : MC0KD4								
Q3764-02	MC0KD4	Water	Aluminum	29.7	J	5.67	50.0	ug/L
Q3764-02	MC0KD4	Water	Calcium	4560		117	1000	ug/L
Q3764-02	MC0KD4	Water	Chromium	1.28	J	1.06	5.00	ug/L
Q3764-02	MC0KD4	Water	Copper	3.15	J	2.30	10.0	ug/L
Q3764-02	MC0KD4	Water	Iron	53.7		11.7	50.0	ug/L
Q3764-02	MC0KD4	Water	Lead	11.1		1.15	6.00	ug/L
Q3764-02	MC0KD4	Water	Magnesium	381	J	122	1000	ug/L
Q3764-02	MC0KD4	Water	Zinc	591		8.33	20.0	ug/L
Q3764-02	MC0KD4	Water	Hardness, Total	13000		795	6620	ug/L
Client ID : MC0KD5								
Q3764-03	MC0KD5	Water	Aluminum	16.8	J	5.67	50.0	ug/L
Q3764-03	MC0KD5	Water	Barium	8.78	J	7.28	50.0	ug/L
Q3764-03	MC0KD5	Water	Calcium	8550		117	1000	ug/L
Q3764-03	MC0KD5	Water	Copper	2.88	J	2.30	10.0	ug/L
Q3764-03	MC0KD5	Water	Iron	29.1	J	11.7	50.0	ug/L
Q3764-03	MC0KD5	Water	Lead	25.4		1.15	6.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3764-03	MC0KD5	Water	Magnesium	1890		122	1000	ug/L
Q3764-03	MC0KD5	Water	Manganese	3.63	J	2.97	10.0	ug/L
Q3764-03	MC0KD5	Water	Potassium	562	J	459	1000	ug/L
Q3764-03	MC0KD5	Water	Sodium	2510		434	1000	ug/L
Q3764-03	MC0KD5	Water	Zinc	36.8		8.33	20.0	ug/L
Q3764-03	MC0KD5	Water	Hardness, Total	29100		795	6620	ug/L
Client ID :	**MC0KD6**							
Q3764-04	MC0KD6	Water	Aluminum	16.0	J	5.67	50.0	ug/L
Q3764-04	MC0KD6	Water	Antimony	12.2	J	3.38	25.0	ug/L
Q3764-04	MC0KD6	Water	Barium	20.8	J	7.28	50.0	ug/L
Q3764-04	MC0KD6	Water	Cadmium	0.84	J	0.25	3.00	ug/L
Q3764-04	MC0KD6	Water	Calcium	14200		117	1000	ug/L
Q3764-04	MC0KD6	Water	Copper	6.98	J	2.30	10.0	ug/L
Q3764-04	MC0KD6	Water	Iron	358		11.7	50.0	ug/L
Q3764-04	MC0KD6	Water	Lead	112		1.15	6.00	ug/L
Q3764-04	MC0KD6	Water	Magnesium	1610		122	1000	ug/L
Q3764-04	MC0KD6	Water	Manganese	12.6		2.97	10.0	ug/L
Q3764-04	MC0KD6	Water	Potassium	1100		459	1000	ug/L
Q3764-04	MC0KD6	Water	Selenium	5.69	J	4.82	10.0	ug/L
Q3764-04	MC0KD6	Water	Zinc	24.1		8.33	20.0	ug/L
Q3764-04	MC0KD6	Water	Hardness, Total	42100		795	6620	ug/L
Client ID :	**MC0KD8**							
Q3764-05	MC0KD8	Water	Aluminum	37.2	J	5.67	50.0	ug/L
Q3764-05	MC0KD8	Water	Antimony	26.5		3.38	25.0	ug/L
Q3764-05	MC0KD8	Water	Barium	17.9	J	7.28	50.0	ug/L
Q3764-05	MC0KD8	Water	Cadmium	66.8		0.25	3.00	ug/L
Q3764-05	MC0KD8	Water	Calcium	27100		117	1000	ug/L
Q3764-05	MC0KD8	Water	Copper	14.3		2.30	10.0	ug/L
Q3764-05	MC0KD8	Water	Iron	314		11.7	50.0	ug/L
Q3764-05	MC0KD8	Water	Lead	368		1.15	6.00	ug/L
Q3764-05	MC0KD8	Water	Magnesium	5220		122	1000	ug/L
Q3764-05	MC0KD8	Water	Manganese	23.8		2.97	10.0	ug/L
Q3764-05	MC0KD8	Water	Nickel	6.79	J	1.53	20.0	ug/L
Q3764-05	MC0KD8	Water	Potassium	1340		459	1000	ug/L
Q3764-05	MC0KD8	Water	Selenium	13.0		4.82	10.0	ug/L
Q3764-05	MC0KD8	Water	Sodium	3610		434	1000	ug/L
Q3764-05	MC0KD8	Water	Zinc	106		8.33	20.0	ug/L
Q3764-05	MC0KD8	Water	Hardness, Total	89200		795	6620	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MC0KD9								
Q3764-06	MC0KD9	Water	Aluminum	29.5	J	5.67	50.0	ug/L
Q3764-06	MC0KD9	Water	Antimony	5.60	J	3.38	25.0	ug/L
Q3764-06	MC0KD9	Water	Barium	18.0	J	7.28	50.0	ug/L
Q3764-06	MC0KD9	Water	Calcium	66600		117	1000	ug/L
Q3764-06	MC0KD9	Water	Iron	32.9	J	11.7	50.0	ug/L
Q3764-06	MC0KD9	Water	Lead	2.26	J	1.15	6.00	ug/L
Q3764-06	MC0KD9	Water	Magnesium	13000		122	1000	ug/L
Q3764-06	MC0KD9	Water	Manganese	14.5		2.97	10.0	ug/L
Q3764-06	MC0KD9	Water	Potassium	4670		459	1000	ug/L
Q3764-06	MC0KD9	Water	Sodium	12200		434	1000	ug/L
Q3764-06	MC0KD9	Water	Zinc	17.3	J	8.33	20.0	ug/L
Q3764-06	MC0KD9	Water	Hardness, Total	220000		795	6620	ug/L
Client ID : MC0KE0								
Q3764-07	MC0KE0	Water	Aluminum	71.5		5.67	50.0	ug/L
Q3764-07	MC0KE0	Water	Antimony	4.16	J	3.38	25.0	ug/L
Q3764-07	MC0KE0	Water	Arsenic	2.74	J	2.56	10.0	ug/L
Q3764-07	MC0KE0	Water	Barium	54.3		7.28	50.0	ug/L
Q3764-07	MC0KE0	Water	Cadmium	39.4		0.25	3.00	ug/L
Q3764-07	MC0KE0	Water	Calcium	11400		117	1000	ug/L
Q3764-07	MC0KE0	Water	Chromium	6.49		1.06	5.00	ug/L
Q3764-07	MC0KE0	Water	Copper	48.8		2.30	10.0	ug/L
Q3764-07	MC0KE0	Water	Iron	509		11.7	50.0	ug/L
Q3764-07	MC0KE0	Water	Lead	6400		1.15	6.00	ug/L
Q3764-07	MC0KE0	Water	Magnesium	502	J	122	1000	ug/L
Q3764-07	MC0KE0	Water	Manganese	150		2.97	10.0	ug/L
Q3764-07	MC0KE0	Water	Nickel	24.7		1.53	20.0	ug/L
Q3764-07	MC0KE0	Water	Potassium	2190		459	1000	ug/L
Q3764-07	MC0KE0	Water	Sodium	1260		434	1000	ug/L
Q3764-07	MC0KE0	Water	Thallium	2.40	J	2.19	20.0	ug/L
Q3764-07	MC0KE0	Water	Zinc	234		8.33	20.0	ug/L
Q3764-07	MC0KE0	Water	Hardness, Total	30500		795	6620	ug/L
Client ID : MC0KE1								
Q3764-08	MC0KE1	Water	Aluminum	968		5.67	50.0	ug/L
Q3764-08	MC0KE1	Water	Antimony	241		3.38	25.0	ug/L
Q3764-08	MC0KE1	Water	Arsenic	77.1		2.56	10.0	ug/L
Q3764-08	MC0KE1	Water	Barium	48.0	J	7.28	50.0	ug/L
Q3764-08	MC0KE1	Water	Cadmium	437		0.25	3.00	ug/L
Q3764-08	MC0KE1	Water	Calcium	15800		117	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3764-08	MC0KE1	Water	Chromium	39.3		1.06	5.00	ug/L
Q3764-08	MC0KE1	Water	Cobalt	1.79	J	1.13	15.0	ug/L
Q3764-08	MC0KE1	Water	Copper	535		2.30	10.0	ug/L
Q3764-08	MC0KE1	Water	Iron	7550		11.7	50.0	ug/L
Q3764-08	MC0KE1	Water	Lead	21100		1.15	6.00	ug/L
Q3764-08	MC0KE1	Water	Magnesium	6400		122	1000	ug/L
Q3764-08	MC0KE1	Water	Manganese	109		2.97	10.0	ug/L
Q3764-08	MC0KE1	Water	Nickel	46.4		1.53	20.0	ug/L
Q3764-08	MC0KE1	Water	Potassium	1590		459	1000	ug/L
Q3764-08	MC0KE1	Water	Selenium	11.9		4.82	10.0	ug/L
Q3764-08	MC0KE1	Water	Sodium	1270		434	1000	ug/L
Q3764-08	MC0KE1	Water	Thallium	5.09	J	2.19	20.0	ug/L
Q3764-08	MC0KE1	Water	Zinc	754		8.33	20.0	ug/L
Q3764-08	MC0KE1	Water	Hardness, Total	65800		795	6620	ug/L
Client ID :	**MC0KE2**							
Q3764-09	MC0KE2	Water	Aluminum	6.62	J	5.67	50.0	ug/L
Q3764-09	MC0KE2	Water	Antimony	16.1	J	3.38	25.0	ug/L
Q3764-09	MC0KE2	Water	Arsenic	4.68	J	2.56	10.0	ug/L
Q3764-09	MC0KE2	Water	Barium	13.5	J	7.28	50.0	ug/L
Q3764-09	MC0KE2	Water	Cadmium	24.6		0.25	3.00	ug/L
Q3764-09	MC0KE2	Water	Calcium	10500		117	1000	ug/L
Q3764-09	MC0KE2	Water	Cobalt	2.44	J	1.13	15.0	ug/L
Q3764-09	MC0KE2	Water	Copper	7.16	J	2.30	10.0	ug/L
Q3764-09	MC0KE2	Water	Iron	771		11.7	50.0	ug/L
Q3764-09	MC0KE2	Water	Lead	123		1.15	6.00	ug/L
Q3764-09	MC0KE2	Water	Magnesium	1320		122	1000	ug/L
Q3764-09	MC0KE2	Water	Manganese	895		2.97	10.0	ug/L
Q3764-09	MC0KE2	Water	Nickel	3.15	J	1.53	20.0	ug/L
Q3764-09	MC0KE2	Water	Potassium	2710		459	1000	ug/L
Q3764-09	MC0KE2	Water	Sodium	3270		434	1000	ug/L
Q3764-09	MC0KE2	Water	Thallium	2.94	J	2.19	20.0	ug/L
Q3764-09	MC0KE2	Water	Zinc	204		8.33	20.0	ug/L
Q3764-09	MC0KE2	Water	Hardness, Total	31700		795	6620	ug/L
Client ID :	**MC0KE4**							
Q3764-10	MC0KE4	Water	Aluminum	43.8	J	5.67	50.0	ug/L
Q3764-10	MC0KE4	Water	Antimony	18.7	J	3.38	25.0	ug/L
Q3764-10	MC0KE4	Water	Barium	18.6	J	7.28	50.0	ug/L
Q3764-10	MC0KE4	Water	Cadmium	10.2		0.25	3.00	ug/L
Q3764-10	MC0KE4	Water	Calcium	13200		117	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3764-10	MC0KE4	Water	Copper	5.46	J	2.30	10.0	ug/L
Q3764-10	MC0KE4	Water	Iron	249		11.7	50.0	ug/L
Q3764-10	MC0KE4	Water	Lead	209		1.15	6.00	ug/L
Q3764-10	MC0KE4	Water	Magnesium	5970		122	1000	ug/L
Q3764-10	MC0KE4	Water	Manganese	17.0		2.97	10.0	ug/L
Q3764-10	MC0KE4	Water	Nickel	3.85	J	1.53	20.0	ug/L
Q3764-10	MC0KE4	Water	Potassium	2350		459	1000	ug/L
Q3764-10	MC0KE4	Water	Sodium	925	J	434	1000	ug/L
Q3764-10	MC0KE4	Water	Thallium	2.26	J	2.19	20.0	ug/L
Q3764-10	MC0KE4	Water	Zinc	19.2	J	8.33	20.0	ug/L
Q3764-10	MC0KE4	Water	Hardness, Total	57500		795	6620	ug/L
Client ID :	**MC0KF2**							
Q3764-13	MC0KF2	Water	Aluminum	38.4	J	5.67	50.0	ug/L
Q3764-13	MC0KF2	Water	Antimony	25.5		3.38	25.0	ug/L
Q3764-13	MC0KF2	Water	Arsenic	2.89	J	2.56	10.0	ug/L
Q3764-13	MC0KF2	Water	Barium	31.3	J	7.28	50.0	ug/L
Q3764-13	MC0KF2	Water	Cadmium	50.5		0.25	3.00	ug/L
Q3764-13	MC0KF2	Water	Calcium	36900		117	1000	ug/L
Q3764-13	MC0KF2	Water	Copper	11.3		2.30	10.0	ug/L
Q3764-13	MC0KF2	Water	Iron	329		11.7	50.0	ug/L
Q3764-13	MC0KF2	Water	Lead	247		1.15	6.00	ug/L
Q3764-13	MC0KF2	Water	Magnesium	6900		122	1000	ug/L
Q3764-13	MC0KF2	Water	Manganese	65.5		2.97	10.0	ug/L
Q3764-13	MC0KF2	Water	Nickel	5.92	J	1.53	20.0	ug/L
Q3764-13	MC0KF2	Water	Potassium	1690		459	1000	ug/L
Q3764-13	MC0KF2	Water	Selenium	9.52	J	4.82	10.0	ug/L
Q3764-13	MC0KF2	Water	Sodium	6640		434	1000	ug/L
Q3764-13	MC0KF2	Water	Thallium	4.30	J	2.19	20.0	ug/L
Q3764-13	MC0KF2	Water	Zinc	90.8		8.33	20.0	ug/L
Q3764-13	MC0KF2	Water	Hardness, Total	121000		795	6620	ug/L
Client ID :	**MC0KF4**							
Q3764-14	MC0KF4	Water	Aluminum	70.8		5.67	50.0	ug/L
Q3764-14	MC0KF4	Water	Antimony	5.47	J	3.38	25.0	ug/L
Q3764-14	MC0KF4	Water	Barium	52.6		7.28	50.0	ug/L
Q3764-14	MC0KF4	Water	Cadmium	40.1		0.25	3.00	ug/L
Q3764-14	MC0KF4	Water	Calcium	11200		117	1000	ug/L
Q3764-14	MC0KF4	Water	Chromium	6.76		1.06	5.00	ug/L
Q3764-14	MC0KF4	Water	Cobalt	1.19	J	1.13	15.0	ug/L
Q3764-14	MC0KF4	Water	Copper	49.3		2.30	10.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3764 **Order ID:** Q3764

Client: Tetra Tech, EMI **Project ID:** R37106

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3764-14	MC0KF4	Water	Iron	506		11.7	50.0	ug/L
Q3764-14	MC0KF4	Water	Lead	6510		1.15	6.00	ug/L
Q3764-14	MC0KF4	Water	Magnesium	514	J	122	1000	ug/L
Q3764-14	MC0KF4	Water	Manganese	144		2.97	10.0	ug/L
Q3764-14	MC0KF4	Water	Nickel	25.2		1.53	20.0	ug/L
Q3764-14	MC0KF4	Water	Potassium	2280		459	1000	ug/L
Q3764-14	MC0KF4	Water	Sodium	1270		434	1000	ug/L
Q3764-14	MC0KF4	Water	Thallium	3.05	J	2.19	20.0	ug/L
Q3764-14	MC0KF4	Water	Zinc	243		8.33	20.0	ug/L
Q3764-14	MC0KF4	Water	Hardness, Total	30100		795	6620	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD3	SDG No.:	Q3764
Lab Sample ID:	Q3764-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	732		1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-36-0	Antimony	77.5		1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-38-2	Arsenic	22.5		1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-39-3	Barium	66.1		1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-43-9	Cadmium	12.8		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-70-2	Calcium	99300		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-47-3	Chromium	7.34		1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-48-4	Cobalt	4.12	J	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-50-8	Copper	160		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
Hardness	Hardness, Total	322000		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7439-89-6	Iron	3280		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7439-92-1	Lead	8490	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7439-95-4	Magnesium	17900		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7439-96-5	Manganese	560		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-02-0	Nickel	12.2	J	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-09-7	Potassium	2850		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-23-5	Sodium	19900		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-62-2	Vanadium	3.39	J	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A
7440-66-6	Zinc	252		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:00	6010D	M3010A

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD4	SDG No.:	Q3764
Lab Sample ID:	Q3764-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	29.7	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-36-0	Antimony	3.38	U	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-39-3	Barium	7.28	U	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-70-2	Calcium	4560		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-47-3	Chromium	1.28	J	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-50-8	Copper	3.15	J	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
Hardness	Hardness, Total	13000		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7439-89-6	Iron	53.7		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7439-92-1	Lead	11.1	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7439-95-4	Magnesium	381	J	1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7439-96-5	Manganese	2.97	U	1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-09-7	Potassium	459	U	1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-23-5	Sodium	434	U	1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A
7440-66-6	Zinc	591		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:04	6010D	M3010A

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD5	SDG No.:	Q3764
Lab Sample ID:	Q3764-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	16.8	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-36-0	Antimony	3.38	U	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-39-3	Barium	8.78	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-70-2	Calcium	8550		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-50-8	Copper	2.88	J	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
Hardness	Hardness, Total	29100		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7439-89-6	Iron	29.1	J	1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7439-92-1	Lead	25.4	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7439-95-4	Magnesium	1890		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7439-96-5	Manganese	3.63	J	1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-09-7	Potassium	562	J	1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-23-5	Sodium	2510		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A
7440-66-6	Zinc	36.8		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:17	6010D	M3010A

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD6	SDG No.:	Q3764
Lab Sample ID:	Q3764-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	16.0	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-36-0	Antimony	12.2	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-39-3	Barium	20.8	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-43-9	Cadmium	0.84	J	1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-70-2	Calcium	14200		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-50-8	Copper	6.98	J	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
Hardness	Hardness, Total	42100		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7439-89-6	Iron	358		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7439-92-1	Lead	112	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7439-95-4	Magnesium	1610		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7439-96-5	Manganese	12.6		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-09-7	Potassium	1100		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7782-49-2	Selenium	5.69	J	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-23-5	Sodium	434	U	1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A
7440-66-6	Zinc	24.1		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:22	6010D	M3010A

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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD8	SDG No.:	Q3764
Lab Sample ID:	Q3764-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	37.2	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-36-0	Antimony	26.5		1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-39-3	Barium	17.9	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-43-9	Cadmium	66.8		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-70-2	Calcium	27100		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-50-8	Copper	14.3		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
Hardness	Hardness, Total	89200		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7439-89-6	Iron	314		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7439-92-1	Lead	368	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7439-95-4	Magnesium	5220		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7439-96-5	Manganese	23.8		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-02-0	Nickel	6.79	J	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-09-7	Potassium	1340		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7782-49-2	Selenium	13.0		1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-23-5	Sodium	3610		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A
7440-66-6	Zinc	106		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:26	6010D	M3010A

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Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KD9	SDG No.:	Q3764
Lab Sample ID:	Q3764-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	29.5	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-36-0	Antimony	5.60	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-39-3	Barium	18.0	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-70-2	Calcium	66600		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-50-8	Copper	2.30	U	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
Hardness	Hardness, Total	220000		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7439-89-6	Iron	32.9	J	1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7439-92-1	Lead	2.26	JN	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7439-95-4	Magnesium	13000		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7439-96-5	Manganese	14.5		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-09-7	Potassium	4670		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-23-5	Sodium	12200		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A
7440-66-6	Zinc	17.3	J	1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:30	6010D	M3010A

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KE0	SDG No.:	Q3764
Lab Sample ID:	Q3764-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	71.5		1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-36-0	Antimony	4.16	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-38-2	Arsenic	2.74	J	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-39-3	Barium	54.3		1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-43-9	Cadmium	39.4		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-70-2	Calcium	11400		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-47-3	Chromium	6.49		1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-50-8	Copper	48.8		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
Hardness	Hardness, Total	30500		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7439-89-6	Iron	509		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7439-92-1	Lead	6400	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7439-95-4	Magnesium	502	J	1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7439-96-5	Manganese	150		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-02-0	Nickel	24.7		1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-09-7	Potassium	2190		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-23-5	Sodium	1260		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-28-0	Thallium	2.40	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A
7440-66-6	Zinc	234		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:34	6010D	M3010A

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KE1	SDG No.:	Q3764
Lab Sample ID:	Q3764-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	968		1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-36-0	Antimony	241		1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-38-2	Arsenic	77.1		1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-39-3	Barium	48.0	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-43-9	Cadmium	437		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-70-2	Calcium	15800		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-47-3	Chromium	39.3		1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-48-4	Cobalt	1.79	J	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-50-8	Copper	535		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
Hardness	Hardness, Total	65800		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7439-89-6	Iron	7550		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7439-92-1	Lead	21100	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7439-95-4	Magnesium	6400		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7439-96-5	Manganese	109		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-02-0	Nickel	46.4		1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-09-7	Potassium	1590		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7782-49-2	Selenium	11.9		1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-23-5	Sodium	1270		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-28-0	Thallium	5.09	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A
7440-66-6	Zinc	754		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:39	6010D	M3010A

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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KE2	SDG No.:	Q3764
Lab Sample ID:	Q3764-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6.62	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-36-0	Antimony	16.1	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-38-2	Arsenic	4.68	J	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-39-3	Barium	13.5	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-43-9	Cadmium	24.6		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-70-2	Calcium	10500		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-48-4	Cobalt	2.44	J	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-50-8	Copper	7.16	J	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
Hardness	Hardness, Total	31700		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7439-89-6	Iron	771		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7439-92-1	Lead	123	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7439-95-4	Magnesium	1320		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7439-96-5	Manganese	895		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-02-0	Nickel	3.15	J	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-09-7	Potassium	2710		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-23-5	Sodium	3270		1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-28-0	Thallium	2.94	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A
7440-66-6	Zinc	204		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:43	6010D	M3010A

U = Not Detected
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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KE4	SDG No.:	Q3764
Lab Sample ID:	Q3764-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	43.8	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-36-0	Antimony	18.7	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-39-3	Barium	18.6	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-43-9	Cadmium	10.2		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-70-2	Calcium	13200		1	117	1000	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-50-8	Copper	5.46	J	1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
Hardness	Hardness, Total	57500		1	795	6620	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7439-89-6	Iron	249		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7439-92-1	Lead	209	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7439-95-4	Magnesium	5970		1	122	1000	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7439-96-5	Manganese	17.0		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-02-0	Nickel	3.85	J	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-09-7	Potassium	2350		1	459	1000	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-23-5	Sodium	925	J	1	434	1000	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-28-0	Thallium	2.26	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A
7440-66-6	Zinc	19.2	J	1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 15:47	6010D	M3010A

U = Not Detected
LOQ = Limit of Quantitation
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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KF2	SDG No.:	Q3764
Lab Sample ID:	Q3764-13	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	38.4	J	1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-36-0	Antimony	25.5		1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-38-2	Arsenic	2.89	J	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-39-3	Barium	31.3	J	1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-43-9	Cadmium	50.5		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-70-2	Calcium	36900		1	117	1000	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-50-8	Copper	11.3		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
Hardness	Hardness, Total	121000		1	795	6620	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7439-89-6	Iron	329		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7439-92-1	Lead	247	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7439-95-4	Magnesium	6900		1	122	1000	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7439-96-5	Manganese	65.5		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-02-0	Nickel	5.92	J	1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-09-7	Potassium	1690		1	459	1000	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7782-49-2	Selenium	9.52	J	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-23-5	Sodium	6640		1	434	1000	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-28-0	Thallium	4.30	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A
7440-66-6	Zinc	90.8		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 16:21	6010D	M3010A

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech, EMI	Date Collected:	11/25/25
Project:	R37106	Date Received:	12/03/25
Client Sample ID:	MC0KF4	SDG No.:	Q3764
Lab Sample ID:	Q3764-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	70.8		1	5.67	50.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-36-0	Antimony	5.47	J	1	3.38	25.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-39-3	Barium	52.6		1	7.28	50.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-43-9	Cadmium	40.1		1	0.25	3.00	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-70-2	Calcium	11200		1	117	1000	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-47-3	Chromium	6.76		1	1.06	5.00	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-48-4	Cobalt	1.19	J	1	1.13	15.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-50-8	Copper	49.3		1	2.30	10.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
Hardness	Hardness, Total	30100		1	795	6620	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7439-89-6	Iron	506		1	11.7	50.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7439-92-1	Lead	6510	N	1	1.15	6.00	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7439-95-4	Magnesium	514	J	1	122	1000	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7439-96-5	Manganese	144		1	2.97	10.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-02-0	Nickel	25.2		1	1.53	20.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-09-7	Potassium	2280		1	459	1000	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-23-5	Sodium	1270		1	434	1000	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-28-0	Thallium	3.05	J	1	2.19	20.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A
7440-66-6	Zinc	243		1	8.33	20.0	ug/L	12/04/25 11:35	12/09/25 16:25	6010D	M3010A

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METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI

SDG No.: Q3764

Contract: TETR16

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	7590	8000	95	90 - 110	P	12/09/2025	12:15	LB138174
	Antimony	3970	4000	99	90 - 110	P	12/09/2025	12:15	LB138174
	Arsenic	3860	4000	96	90 - 110	P	12/09/2025	12:15	LB138174
	Barium	7460	8000	93	90 - 110	P	12/09/2025	12:15	LB138174
	Beryllium	189	200	94	90 - 110	P	12/09/2025	12:15	LB138174
	Cadmium	1900	2000	95	90 - 110	P	12/09/2025	12:15	LB138174
	Calcium	19000	20000	95	90 - 110	P	12/09/2025	12:15	LB138174
	Chromium	788	800	98	90 - 110	P	12/09/2025	12:15	LB138174
	Cobalt	1890	2000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Copper	975	1000	98	90 - 110	P	12/09/2025	12:15	LB138174
	Iron	3830	4000	96	90 - 110	P	12/09/2025	12:15	LB138174
	Lead	3750	4000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Magnesium	19000	20000	95	90 - 110	P	12/09/2025	12:15	LB138174
	Manganese	1870	2000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Nickel	1890	2000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Potassium	19100	20000	96	90 - 110	P	12/09/2025	12:15	LB138174
	Selenium	3930	4000	98	90 - 110	P	12/09/2025	12:15	LB138174
	Silver	938	1000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Sodium	18500	20000	92	90 - 110	P	12/09/2025	12:15	LB138174
	Thallium	3760	4000	94	90 - 110	P	12/09/2025	12:15	LB138174
	Vanadium	1930	2000	97	90 - 110	P	12/09/2025	12:15	LB138174
	Zinc	1980	2000	99	90 - 110	P	12/09/2025	12:15	LB138174

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI
SDG No.: Q3764
Contract: TETR16
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	99.7	100	100	80 - 120	P	12/09/2025	12:19	LB138174
	Antimony	55.1	50.0	110	80 - 120	P	12/09/2025	12:19	LB138174
	Arsenic	21.2	20.0	106	80 - 120	P	12/09/2025	12:19	LB138174
	Barium	99.5	100	100	80 - 120	P	12/09/2025	12:19	LB138174
	Beryllium	6.04	6.0	101	80 - 120	P	12/09/2025	12:19	LB138174
	Cadmium	5.98	6.0	100	80 - 120	P	12/09/2025	12:19	LB138174
	Calcium	2030	2000	102	80 - 120	P	12/09/2025	12:19	LB138174
	Chromium	10.0	10.0	100	80 - 120	P	12/09/2025	12:19	LB138174
	Cobalt	29.5	30.0	98	80 - 120	P	12/09/2025	12:19	LB138174
	Copper	21.1	20.0	106	80 - 120	P	12/09/2025	12:19	LB138174
	Iron	99.9	100	100	80 - 120	P	12/09/2025	12:19	LB138174
	Lead	10.6	12.0	88	80 - 120	P	12/09/2025	12:19	LB138174
	Magnesium	2100	2000	105	80 - 120	P	12/09/2025	12:19	LB138174
	Manganese	20.7	20.0	103	80 - 120	P	12/09/2025	12:19	LB138174
	Nickel	40.1	40.0	100	80 - 120	P	12/09/2025	12:19	LB138174
	Potassium	2050	2000	103	80 - 120	P	12/09/2025	12:19	LB138174
	Selenium	22.0	20.0	110	80 - 120	P	12/09/2025	12:19	LB138174
	Silver	10.4	10.0	104	80 - 120	P	12/09/2025	12:19	LB138174
	Sodium	2030	2000	101	80 - 120	P	12/09/2025	12:19	LB138174
	Thallium	43.8	40.0	110	80 - 120	P	12/09/2025	12:19	LB138174
	Vanadium	41.1	40.0	103	80 - 120	P	12/09/2025	12:19	LB138174
	Zinc	42.9	40.0	107	80 - 120	P	12/09/2025	12:19	LB138174

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI

SDG No.: Q3764

Contract: TETR16

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	9680	10000	97	90 - 110	P	12/09/2025	12:49	LB138174
	Antimony	4920	5000	98	90 - 110	P	12/09/2025	12:49	LB138174
	Arsenic	4920	5000	98	90 - 110	P	12/09/2025	12:49	LB138174
	Barium	9670	10000	97	90 - 110	P	12/09/2025	12:49	LB138174
	Beryllium	237	250	95	90 - 110	P	12/09/2025	12:49	LB138174
	Cadmium	2430	2500	97	90 - 110	P	12/09/2025	12:49	LB138174
	Calcium	24200	25000	97	90 - 110	P	12/09/2025	12:49	LB138174
	Chromium	990	1000	99	90 - 110	P	12/09/2025	12:49	LB138174
	Cobalt	2430	2500	97	90 - 110	P	12/09/2025	12:49	LB138174
	Copper	1230	1250	99	90 - 110	P	12/09/2025	12:49	LB138174
	Iron	5110	5000	102	90 - 110	P	12/09/2025	12:49	LB138174
	Lead	4870	5000	97	90 - 110	P	12/09/2025	12:49	LB138174
	Magnesium	24200	25000	97	90 - 110	P	12/09/2025	12:49	LB138174
	Manganese	2430	2500	97	90 - 110	P	12/09/2025	12:49	LB138174
	Nickel	2430	2500	97	90 - 110	P	12/09/2025	12:49	LB138174
	Potassium	25200	25000	101	90 - 110	P	12/09/2025	12:49	LB138174
	Selenium	4950	5000	99	90 - 110	P	12/09/2025	12:49	LB138174
	Silver	1250	1250	100	90 - 110	P	12/09/2025	12:49	LB138174
	Sodium	25100	25000	100	90 - 110	P	12/09/2025	12:49	LB138174
	Thallium	5110	5000	102	90 - 110	P	12/09/2025	12:49	LB138174
	Vanadium	2430	2500	97	90 - 110	P	12/09/2025	12:49	LB138174
	Zinc	2510	2500	100	90 - 110	P	12/09/2025	12:49	LB138174
CCV02	Aluminum	9650	10000	96	90 - 110	P	12/09/2025	13:41	LB138174
	Antimony	5030	5000	101	90 - 110	P	12/09/2025	13:41	LB138174
	Arsenic	5030	5000	100	90 - 110	P	12/09/2025	13:41	LB138174
	Barium	9370	10000	94	90 - 110	P	12/09/2025	13:41	LB138174
	Beryllium	235	250	94	90 - 110	P	12/09/2025	13:41	LB138174
	Cadmium	2440	2500	98	90 - 110	P	12/09/2025	13:41	LB138174
	Calcium	23700	25000	95	90 - 110	P	12/09/2025	13:41	LB138174
	Chromium	981	1000	98	90 - 110	P	12/09/2025	13:41	LB138174
	Cobalt	2450	2500	98	90 - 110	P	12/09/2025	13:41	LB138174
	Copper	1250	1250	100	90 - 110	P	12/09/2025	13:41	LB138174
	Iron	4830	5000	96	90 - 110	P	12/09/2025	13:41	LB138174
	Lead	4900	5000	98	90 - 110	P	12/09/2025	13:41	LB138174

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Fax : 908 789 8922

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI
SDG No.: Q3764
Contract: TETR16
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	23800	25000	95	90 - 110	P	12/09/2025	13:41	LB138174
	Manganese	2330	2500	93	90 - 110	P	12/09/2025	13:41	LB138174
	Nickel	2450	2500	98	90 - 110	P	12/09/2025	13:41	LB138174
	Potassium	24600	25000	98	90 - 110	P	12/09/2025	13:41	LB138174
	Selenium	5090	5000	102	90 - 110	P	12/09/2025	13:41	LB138174
	Silver	1230	1250	99	90 - 110	P	12/09/2025	13:41	LB138174
	Sodium	24400	25000	97	90 - 110	P	12/09/2025	13:41	LB138174
	Thallium	5160	5000	103	90 - 110	P	12/09/2025	13:41	LB138174
	Vanadium	2390	2500	96	90 - 110	P	12/09/2025	13:41	LB138174
	Zinc	2490	2500	100	90 - 110	P	12/09/2025	13:41	LB138174
CCV03	Aluminum	9660	10000	97	90 - 110	P	12/09/2025	15:09	LB138174
	Antimony	5000	5000	100	90 - 110	P	12/09/2025	15:09	LB138174
	Arsenic	4910	5000	98	90 - 110	P	12/09/2025	15:09	LB138174
	Barium	9800	10000	98	90 - 110	P	12/09/2025	15:09	LB138174
	Beryllium	226	250	90	90 - 110	P	12/09/2025	15:09	LB138174
	Cadmium	2410	2500	96	90 - 110	P	12/09/2025	15:09	LB138174
	Calcium	24200	25000	97	90 - 110	P	12/09/2025	15:09	LB138174
	Chromium	953	1000	95	90 - 110	P	12/09/2025	15:09	LB138174
	Cobalt	2430	2500	97	90 - 110	P	12/09/2025	15:09	LB138174
	Copper	1250	1250	100	90 - 110	P	12/09/2025	15:09	LB138174
	Iron	5110	5000	102	90 - 110	P	12/09/2025	15:09	LB138174
	Lead	4850	5000	97	90 - 110	P	12/09/2025	15:09	LB138174
	Magnesium	23800	25000	95	90 - 110	P	12/09/2025	15:09	LB138174
	Manganese	2450	2500	98	90 - 110	P	12/09/2025	15:09	LB138174
	Nickel	2430	2500	97	90 - 110	P	12/09/2025	15:09	LB138174
	Potassium	25300	25000	101	90 - 110	P	12/09/2025	15:09	LB138174
	Selenium	4990	5000	100	90 - 110	P	12/09/2025	15:09	LB138174
	Silver	1210	1250	97	90 - 110	P	12/09/2025	15:09	LB138174
	Sodium	25800	25000	103	90 - 110	P	12/09/2025	15:09	LB138174
	Thallium	4790	5000	96	90 - 110	P	12/09/2025	15:09	LB138174
	Vanadium	2440	2500	98	90 - 110	P	12/09/2025	15:09	LB138174
	Zinc	2410	2500	97	90 - 110	P	12/09/2025	15:09	LB138174
CCV04	Aluminum	9320	10000	93	90 - 110	P	12/09/2025	16:00	LB138174
	Antimony	4960	5000	99	90 - 110	P	12/09/2025	16:00	LB138174

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	4910	5000	98	90 - 110	P	12/09/2025	16:00	LB138174
	Barium	9210	10000	92	90 - 110	P	12/09/2025	16:00	LB138174
	Beryllium	228	250	91	90 - 110	P	12/09/2025	16:00	LB138174
	Cadmium	2400	2500	96	90 - 110	P	12/09/2025	16:00	LB138174
	Calcium	23100	25000	92	90 - 110	P	12/09/2025	16:00	LB138174
	Chromium	993	1000	99	90 - 110	P	12/09/2025	16:00	LB138174
	Cobalt	2410	2500	97	90 - 110	P	12/09/2025	16:00	LB138174
	Copper	1240	1250	99	90 - 110	P	12/09/2025	16:00	LB138174
	Iron	4980	5000	100	90 - 110	P	12/09/2025	16:00	LB138174
	Lead	4820	5000	96	90 - 110	P	12/09/2025	16:00	LB138174
	Magnesium	22900	25000	92	90 - 110	P	12/09/2025	16:00	LB138174
	Manganese	2300	2500	92	90 - 110	P	12/09/2025	16:00	LB138174
	Nickel	2410	2500	96	90 - 110	P	12/09/2025	16:00	LB138174
	Potassium	25100	25000	100	90 - 110	P	12/09/2025	16:00	LB138174
	Selenium	4990	5000	100	90 - 110	P	12/09/2025	16:00	LB138174
	Silver	1260	1250	101	90 - 110	P	12/09/2025	16:00	LB138174
	Sodium	25200	25000	101	90 - 110	P	12/09/2025	16:00	LB138174
	Thallium	4920	5000	98	90 - 110	P	12/09/2025	16:00	LB138174
	Vanadium	2330	2500	93	90 - 110	P	12/09/2025	16:00	LB138174
	Zinc	2510	2500	100	90 - 110	P	12/09/2025	16:00	LB138174
CCV05	Aluminum	9810	10000	98	90 - 110	P	12/09/2025	16:50	LB138174
	Antimony	4970	5000	99	90 - 110	P	12/09/2025	16:50	LB138174
	Arsenic	4940	5000	99	90 - 110	P	12/09/2025	16:50	LB138174
	Barium	9410	10000	94	90 - 110	P	12/09/2025	16:50	LB138174
	Beryllium	229	250	92	90 - 110	P	12/09/2025	16:50	LB138174
	Cadmium	2420	2500	97	90 - 110	P	12/09/2025	16:50	LB138174
	Calcium	24200	25000	97	90 - 110	P	12/09/2025	16:50	LB138174
	Chromium	987	1000	99	90 - 110	P	12/09/2025	16:50	LB138174
	Cobalt	2430	2500	97	90 - 110	P	12/09/2025	16:50	LB138174
	Copper	1240	1250	99	90 - 110	P	12/09/2025	16:50	LB138174
	Iron	4980	5000	100	90 - 110	P	12/09/2025	16:50	LB138174
	Lead	4840	5000	97	90 - 110	P	12/09/2025	16:50	LB138174
	Magnesium	24200	25000	97	90 - 110	P	12/09/2025	16:50	LB138174
	Manganese	2370	2500	95	90 - 110	P	12/09/2025	16:50	LB138174

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI
SDG No.: Q3764
Contract: TETR16
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	2420	2500	97	90 - 110	P	12/09/2025	16:50	LB138174
	Potassium	24700	25000	99	90 - 110	P	12/09/2025	16:50	LB138174
	Selenium	5000	5000	100	90 - 110	P	12/09/2025	16:50	LB138174
	Silver	1210	1250	97	90 - 110	P	12/09/2025	16:50	LB138174
	Sodium	24200	25000	97	90 - 110	P	12/09/2025	16:50	LB138174
	Thallium	4980	5000	100	90 - 110	P	12/09/2025	16:50	LB138174
	Vanadium	2450	2500	98	90 - 110	P	12/09/2025	16:50	LB138174
	Zinc	2450	2500	98	90 - 110	P	12/09/2025	16:50	LB138174
CCV06	Aluminum	9660	10000	97	90 - 110	P	12/09/2025	17:41	LB138174
	Antimony	5010	5000	100	90 - 110	P	12/09/2025	17:41	LB138174
	Arsenic	4970	5000	99	90 - 110	P	12/09/2025	17:41	LB138174
	Barium	9340	10000	93	90 - 110	P	12/09/2025	17:41	LB138174
	Beryllium	232	250	93	90 - 110	P	12/09/2025	17:41	LB138174
	Cadmium	2410	2500	97	90 - 110	P	12/09/2025	17:41	LB138174
	Calcium	23700	25000	95	90 - 110	P	12/09/2025	17:41	LB138174
	Chromium	986	1000	99	90 - 110	P	12/09/2025	17:41	LB138174
	Cobalt	2430	2500	97	90 - 110	P	12/09/2025	17:41	LB138174
	Copper	1250	1250	100	90 - 110	P	12/09/2025	17:41	LB138174
	Iron	4900	5000	98	90 - 110	P	12/09/2025	17:41	LB138174
	Lead	4840	5000	97	90 - 110	P	12/09/2025	17:41	LB138174
	Magnesium	23700	25000	95	90 - 110	P	12/09/2025	17:41	LB138174
	Manganese	2320	2500	93	90 - 110	P	12/09/2025	17:41	LB138174
	Nickel	2420	2500	97	90 - 110	P	12/09/2025	17:41	LB138174
	Potassium	24800	25000	99	90 - 110	P	12/09/2025	17:41	LB138174
	Selenium	5050	5000	101	90 - 110	P	12/09/2025	17:41	LB138174
	Silver	1240	1250	99	90 - 110	P	12/09/2025	17:41	LB138174
	Sodium	24400	25000	98	90 - 110	P	12/09/2025	17:41	LB138174
	Thallium	4800	5000	96	90 - 110	P	12/09/2025	17:41	LB138174
	Vanadium	2400	2500	96	90 - 110	P	12/09/2025	17:41	LB138174
	Zinc	2490	2500	100	90 - 110	P	12/09/2025	17:41	LB138174
CCV07	Aluminum	9570	10000	96	90 - 110	P	12/09/2025	18:31	LB138174
	Antimony	4890	5000	98	90 - 110	P	12/09/2025	18:31	LB138174
	Arsenic	4800	5000	96	90 - 110	P	12/09/2025	18:31	LB138174
	Barium	9690	10000	97	90 - 110	P	12/09/2025	18:31	LB138174

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	227	250	91	90 - 110	P	12/09/2025	18:31	LB138174
	Cadmium	2350	2500	94	90 - 110	P	12/09/2025	18:31	LB138174
	Calcium	23800	25000	95	90 - 110	P	12/09/2025	18:31	LB138174
	Chromium	951	1000	95	90 - 110	P	12/09/2025	18:31	LB138174
	Cobalt	2380	2500	95	90 - 110	P	12/09/2025	18:31	LB138174
	Copper	1220	1250	98	90 - 110	P	12/09/2025	18:31	LB138174
	Iron	5080	5000	102	90 - 110	P	12/09/2025	18:31	LB138174
	Lead	4730	5000	95	90 - 110	P	12/09/2025	18:31	LB138174
	Magnesium	23500	25000	94	90 - 110	P	12/09/2025	18:31	LB138174
	Manganese	2410	2500	96	90 - 110	P	12/09/2025	18:31	LB138174
	Nickel	2370	2500	95	90 - 110	P	12/09/2025	18:31	LB138174
	Potassium	25100	25000	100	90 - 110	P	12/09/2025	18:31	LB138174
	Selenium	4870	5000	97	90 - 110	P	12/09/2025	18:31	LB138174
	Silver	1220	1250	98	90 - 110	P	12/09/2025	18:31	LB138174
	Sodium	25500	25000	102	90 - 110	P	12/09/2025	18:31	LB138174
	Thallium	4650	5000	93	90 - 110	P	12/09/2025	18:31	LB138174
	Vanadium	2400	2500	96	90 - 110	P	12/09/2025	18:31	LB138174
	Zinc	2460	2500	98	90 - 110	P	12/09/2025	18:31	LB138174
CCV08	Aluminum	9450	10000	94	90 - 110	P	12/09/2025	19:30	LB138174
	Antimony	4850	5000	97	90 - 110	P	12/09/2025	19:30	LB138174
	Arsenic	4790	5000	96	90 - 110	P	12/09/2025	19:30	LB138174
	Barium	9180	10000	92	90 - 110	P	12/09/2025	19:30	LB138174
	Beryllium	225	250	90	90 - 110	P	12/09/2025	19:30	LB138174
	Cadmium	2350	2500	94	90 - 110	P	12/09/2025	19:30	LB138174
	Calcium	23400	25000	94	90 - 110	P	12/09/2025	19:30	LB138174
	Chromium	956	1000	96	90 - 110	P	12/09/2025	19:30	LB138174
	Cobalt	2370	2500	95	90 - 110	P	12/09/2025	19:30	LB138174
	Copper	1210	1250	97	90 - 110	P	12/09/2025	19:30	LB138174
	Iron	4910	5000	98	90 - 110	P	12/09/2025	19:30	LB138174
	Lead	4740	5000	95	90 - 110	P	12/09/2025	19:30	LB138174
	Magnesium	23300	25000	93	90 - 110	P	12/09/2025	19:30	LB138174
	Manganese	2320	2500	93	90 - 110	P	12/09/2025	19:30	LB138174
	Nickel	2360	2500	95	90 - 110	P	12/09/2025	19:30	LB138174
	Potassium	24300	25000	97	90 - 110	P	12/09/2025	19:30	LB138174

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI

SDG No.: Q3764

Contract: TETR16

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	4840	5000	97	90 - 110	P	12/09/2025	19:30	LB138174
	Silver	1200	1250	96	90 - 110	P	12/09/2025	19:30	LB138174
	Sodium	24100	25000	96	90 - 110	P	12/09/2025	19:30	LB138174
	Thallium	4690	5000	94	90 - 110	P	12/09/2025	19:30	LB138174
	Vanadium	2360	2500	94	90 - 110	P	12/09/2025	19:30	LB138174
	Zinc	2410	2500	96	90 - 110	P	12/09/2025	19:30	LB138174
CCV09	Aluminum	9360	10000	94	90 - 110	P	12/09/2025	20:37	LB138174
	Antimony	4880	5000	98	90 - 110	P	12/09/2025	20:37	LB138174
	Arsenic	4800	5000	96	90 - 110	P	12/09/2025	20:37	LB138174
	Barium	9610	10000	96	90 - 110	P	12/09/2025	20:37	LB138174
	Beryllium	241	250	96	90 - 110	P	12/09/2025	20:37	LB138174
	Cadmium	2350	2500	94	90 - 110	P	12/09/2025	20:37	LB138174
	Calcium	23200	25000	93	90 - 110	P	12/09/2025	20:37	LB138174
	Chromium	962	1000	96	90 - 110	P	12/09/2025	20:37	LB138174
	Cobalt	2380	2500	95	90 - 110	P	12/09/2025	20:37	LB138174
	Copper	1220	1250	98	90 - 110	P	12/09/2025	20:37	LB138174
	Iron	5130	5000	103	90 - 110	P	12/09/2025	20:37	LB138174
	Lead	4730	5000	95	90 - 110	P	12/09/2025	20:37	LB138174
	Magnesium	22900	25000	92	90 - 110	P	12/09/2025	20:37	LB138174
	Manganese	2320	2500	93	90 - 110	P	12/09/2025	20:37	LB138174
	Nickel	2370	2500	95	90 - 110	P	12/09/2025	20:37	LB138174
	Potassium	25300	25000	101	90 - 110	P	12/09/2025	20:37	LB138174
	Selenium	4850	5000	97	90 - 110	P	12/09/2025	20:37	LB138174
	Silver	1220	1250	98	90 - 110	P	12/09/2025	20:37	LB138174
	Sodium	25200	25000	101	90 - 110	P	12/09/2025	20:37	LB138174
	Thallium	5060	5000	101	90 - 110	P	12/09/2025	20:37	LB138174
	Vanadium	2360	2500	94	90 - 110	P	12/09/2025	20:37	LB138174
	Zinc	2460	2500	98	90 - 110	P	12/09/2025	20:37	LB138174
CCV10	Aluminum	9390	10000	94	90 - 110	P	12/09/2025	21:27	LB138174
	Antimony	4960	5000	99	90 - 110	P	12/09/2025	21:27	LB138174
	Arsenic	4890	5000	98	90 - 110	P	12/09/2025	21:27	LB138174
	Barium	9460	10000	95	90 - 110	P	12/09/2025	21:27	LB138174
	Beryllium	239	250	96	90 - 110	P	12/09/2025	21:27	LB138174
	Cadmium	2360	2500	94	90 - 110	P	12/09/2025	21:27	LB138174

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI
SDG No.: Q3764
Contract: TETR16
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
CCV10	Calcium	23100	25000	92	90 - 110	P	12/09/2025	21:27	LB138174
	Chromium	948	1000	95	90 - 110	P	12/09/2025	21:27	LB138174
	Cobalt	2380	2500	95	90 - 110	P	12/09/2025	21:27	LB138174
	Copper	1230	1250	98	90 - 110	P	12/09/2025	21:27	LB138174
	Iron	4950	5000	99	90 - 110	P	12/09/2025	21:27	LB138174
	Lead	4760	5000	95	90 - 110	P	12/09/2025	21:27	LB138174
	Magnesium	22900	25000	91	90 - 110	P	12/09/2025	21:27	LB138174
	Manganese	2280	2500	91	90 - 110	P	12/09/2025	21:27	LB138174
	Nickel	2370	2500	95	90 - 110	P	12/09/2025	21:27	LB138174
	Potassium	24600	25000	98	90 - 110	P	12/09/2025	21:27	LB138174
	Selenium	4990	5000	100	90 - 110	P	12/09/2025	21:27	LB138174
	Silver	1190	1250	95	90 - 110	P	12/09/2025	21:27	LB138174
	Sodium	24400	25000	98	90 - 110	P	12/09/2025	21:27	LB138174
	Thallium	5230	5000	105	90 - 110	P	12/09/2025	21:27	LB138174
	Vanadium	2330	2500	93	90 - 110	P	12/09/2025	21:27	LB138174
	Zinc	2430	2500	97	90 - 110	P	12/09/2025	21:27	LB138174
CCV11	Aluminum	9410	10000	94	90 - 110	P	12/09/2025	22:17	LB138174
	Antimony	4930	5000	99	90 - 110	P	12/09/2025	22:17	LB138174
	Arsenic	4850	5000	97	90 - 110	P	12/09/2025	22:17	LB138174
	Barium	9600	10000	96	90 - 110	P	12/09/2025	22:17	LB138174
	Beryllium	248	250	99	90 - 110	P	12/09/2025	22:17	LB138174
	Cadmium	2370	2500	95	90 - 110	P	12/09/2025	22:17	LB138174
	Calcium	23200	25000	93	90 - 110	P	12/09/2025	22:17	LB138174
	Chromium	963	1000	96	90 - 110	P	12/09/2025	22:17	LB138174
	Cobalt	2400	2500	96	90 - 110	P	12/09/2025	22:17	LB138174
	Copper	1230	1250	98	90 - 110	P	12/09/2025	22:17	LB138174
	Iron	4940	5000	99	90 - 110	P	12/09/2025	22:17	LB138174
	Lead	4760	5000	95	90 - 110	P	12/09/2025	22:17	LB138174
	Magnesium	23000	25000	92	90 - 110	P	12/09/2025	22:17	LB138174
	Manganese	2280	2500	91	90 - 110	P	12/09/2025	22:17	LB138174
	Nickel	2390	2500	95	90 - 110	P	12/09/2025	22:17	LB138174
	Potassium	24500	25000	98	90 - 110	P	12/09/2025	22:17	LB138174
	Selenium	4920	5000	98	90 - 110	P	12/09/2025	22:17	LB138174
	Silver	1190	1250	95	90 - 110	P	12/09/2025	22:17	LB138174

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI
SDG No.: Q3764
Contract: TETR16
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
CCV11	Sodium	24100	25000	96	90 - 110	P	12/09/2025	22:17	LB138174
	Thallium	5240	5000	105	90 - 110	P	12/09/2025	22:17	LB138174
	Vanadium	2350	2500	94	90 - 110	P	12/09/2025	22:17	LB138174
	Zinc	2440	2500	97	90 - 110	P	12/09/2025	22:17	LB138174
CCV12	Aluminum	9590	10000	96	90 - 110	P	12/09/2025	23:20	LB138174
	Antimony	4970	5000	100	90 - 110	P	12/09/2025	23:20	LB138174
	Arsenic	4830	5000	97	90 - 110	P	12/09/2025	23:20	LB138174
	Barium	9960	10000	100	90 - 110	P	12/09/2025	23:20	LB138174
	Beryllium	251	250	100	90 - 110	P	12/09/2025	23:20	LB138174
	Cadmium	2370	2500	95	90 - 110	P	12/09/2025	23:20	LB138174
	Calcium	23700	25000	95	90 - 110	P	12/09/2025	23:20	LB138174
	Chromium	943	1000	94	90 - 110	P	12/09/2025	23:20	LB138174
	Cobalt	2410	2500	96	90 - 110	P	12/09/2025	23:20	LB138174
	Copper	1240	1250	99	90 - 110	P	12/09/2025	23:20	LB138174
	Iron	5040	5000	101	90 - 110	P	12/09/2025	23:20	LB138174
	Lead	4790	5000	96	90 - 110	P	12/09/2025	23:20	LB138174
	Magnesium	23400	25000	94	90 - 110	P	12/09/2025	23:20	LB138174
	Manganese	2400	2500	96	90 - 110	P	12/09/2025	23:20	LB138174
	Nickel	2400	2500	96	90 - 110	P	12/09/2025	23:20	LB138174
	Potassium	25000	25000	100	90 - 110	P	12/09/2025	23:20	LB138174
	Selenium	4920	5000	98	90 - 110	P	12/09/2025	23:20	LB138174
	Silver	1220	1250	98	90 - 110	P	12/09/2025	23:20	LB138174
	Sodium	25500	25000	102	90 - 110	P	12/09/2025	23:20	LB138174
	Thallium	5030	5000	101	90 - 110	P	12/09/2025	23:20	LB138174
	Vanadium	2400	2500	96	90 - 110	P	12/09/2025	23:20	LB138174
	Zinc	2470	2500	99	90 - 110	P	12/09/2025	23:20	LB138174
CCV13	Aluminum	9730	10000	97	90 - 110	P	12/09/2025	23:41	LB138174
	Antimony	5110	5000	102	90 - 110	P	12/09/2025	23:41	LB138174
	Arsenic	5020	5000	100	90 - 110	P	12/09/2025	23:41	LB138174
	Barium	9690	10000	97	90 - 110	P	12/09/2025	23:41	LB138174
	Beryllium	252	250	101	90 - 110	P	12/09/2025	23:41	LB138174
	Cadmium	2440	2500	97	90 - 110	P	12/09/2025	23:41	LB138174
	Calcium	23800	25000	95	90 - 110	P	12/09/2025	23:41	LB138174
	Chromium	966	1000	97	90 - 110	P	12/09/2025	23:41	LB138174

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech, EMI

SDG No.: Q3764

Contract: TETR16

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
CCV13	Cobalt	2470	2500	99	90 - 110	P	12/09/2025	23:41	LB138174
	Copper	1270	1250	102	90 - 110	P	12/09/2025	23:41	LB138174
	Iron	4960	5000	99	90 - 110	P	12/09/2025	23:41	LB138174
	Lead	4900	5000	98	90 - 110	P	12/09/2025	23:41	LB138174
	Magnesium	23700	25000	95	90 - 110	P	12/09/2025	23:41	LB138174
	Manganese	2350	2500	94	90 - 110	P	12/09/2025	23:41	LB138174
	Nickel	2450	2500	98	90 - 110	P	12/09/2025	23:41	LB138174
	Potassium	24800	25000	99	90 - 110	P	12/09/2025	23:41	LB138174
	Selenium	5120	5000	102	90 - 110	P	12/09/2025	23:41	LB138174
	Silver	1220	1250	98	90 - 110	P	12/09/2025	23:41	LB138174
	Sodium	24800	25000	99	90 - 110	P	12/09/2025	23:41	LB138174
	Thallium	5350	5000	107	90 - 110	P	12/09/2025	23:41	LB138174
	Vanadium	2420	2500	97	90 - 110	P	12/09/2025	23:41	LB138174
	Zinc	2490	2500	100	90 - 110	P	12/09/2025	23:41	LB138174

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	104	100	104	65 - 135	P	12/09/2025	12:28	LB138174
	Antimony	54.0	50.0	108	65 - 135	P	12/09/2025	12:28	LB138174
	Arsenic	19.1	20.0	96	65 - 135	P	12/09/2025	12:28	LB138174
	Barium	96.1	100	96	65 - 135	P	12/09/2025	12:28	LB138174
	Beryllium	6.05	6.0	101	65 - 135	P	12/09/2025	12:28	LB138174
	Cadmium	5.84	6.0	97	65 - 135	P	12/09/2025	12:28	LB138174
	Calcium	2020	2000	101	65 - 135	P	12/09/2025	12:28	LB138174
	Chromium	10.4	10.0	104	65 - 135	P	12/09/2025	12:28	LB138174
	Cobalt	29.3	30.0	98	65 - 135	P	12/09/2025	12:28	LB138174
	Copper	21.5	20.0	107	65 - 135	P	12/09/2025	12:28	LB138174
	Iron	86.6	100	87	65 - 135	P	12/09/2025	12:28	LB138174
	Lead	12.0	12.0	100	65 - 135	P	12/09/2025	12:28	LB138174
	Magnesium	2090	2000	104	65 - 135	P	12/09/2025	12:28	LB138174
	Manganese	19.8	20.0	99	65 - 135	P	12/09/2025	12:28	LB138174
	Nickel	39.7	40.0	99	65 - 135	P	12/09/2025	12:28	LB138174
	Potassium	1970	2000	98	65 - 135	P	12/09/2025	12:28	LB138174
	Selenium	19.3	20.0	97	65 - 135	P	12/09/2025	12:28	LB138174
	Silver	10.0	10.0	100	65 - 135	P	12/09/2025	12:28	LB138174
	Sodium	1860	2000	93	65 - 135	P	12/09/2025	12:28	LB138174
	Thallium	44.4	40.0	111	65 - 135	P	12/09/2025	12:28	LB138174
	Vanadium	38.4	40.0	96	65 - 135	P	12/09/2025	12:28	LB138174
	Zinc	41.9	40.0	105	65 - 135	P	12/09/2025	12:28	LB138174

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	12:24	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	12:24	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	12:24	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	12:24	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	12:24	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	12:24	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	12:24	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	12:24	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	12:24	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	12:24	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	12:24	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	12:24	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	12:24	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	12:24	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	12:24	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	12:24	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	12:24	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	12:24	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	12:24	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	12:24	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	12:24	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	12:24	LB138174

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	12:53	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	12:53	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	12:53	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	12:53	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	12:53	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	12:53	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	12:53	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	12:53	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	12:53	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	12:53	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	12:53	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	12:53	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	12:53	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	12:53	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	12:53	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	12:53	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	12:53	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	12:53	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	12:53	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	12:53	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	12:53	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	12:53	LB138174
CCB02	Aluminum	11.3	+/-50	U	100	P	12/09/2025	13:45	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	13:45	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	13:45	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	13:45	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	13:45	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	13:45	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	13:45	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	13:45	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	13:45	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	13:45	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	13:45	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	13:45	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	13:45	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	13:45	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	13:45	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	13:45	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	13:45	LB138174

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	13:45	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	13:45	LB138174
	Thallium	5.85	+/-20	J	40.0	P	12/09/2025	13:45	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	13:45	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	13:45	LB138174
CCB03	Aluminum	11.3	+/-50	U	100	P	12/09/2025	15:13	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	15:13	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	15:13	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	15:13	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	15:13	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	15:13	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	15:13	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	15:13	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	15:13	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	15:13	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	15:13	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	15:13	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	15:13	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	15:13	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	15:13	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	15:13	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	15:13	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	15:13	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	15:13	LB138174
	Thallium	5.03	+/-20	J	40.0	P	12/09/2025	15:13	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	15:13	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	15:13	LB138174
CCB04	Aluminum	11.3	+/-50	U	100	P	12/09/2025	16:04	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	16:04	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	16:04	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	16:04	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	16:04	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	16:04	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	16:04	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	16:04	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	16:04	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	16:04	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	16:04	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	16:04	LB138174

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	16:04	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	16:04	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	16:04	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	16:04	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	16:04	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	16:04	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	16:04	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	16:04	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	16:04	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	16:04	LB138174
CCB05	Aluminum	11.3	+/-50	U	100	P	12/09/2025	16:54	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	16:54	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	16:54	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	16:54	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	16:54	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	16:54	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	16:54	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	16:54	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	16:54	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	16:54	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	16:54	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	16:54	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	16:54	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	16:54	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	16:54	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	16:54	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	16:54	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	16:54	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	16:54	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	16:54	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	16:54	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	16:54	LB138174
CCB06	Aluminum	11.3	+/-50	U	100	P	12/09/2025	17:45	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	17:45	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	17:45	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	17:45	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	17:45	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	17:45	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	17:45	LB138174

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	17:45	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	17:45	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	17:45	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	17:45	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	17:45	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	17:45	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	17:45	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	17:45	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	17:45	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	17:45	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	17:45	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	17:45	LB138174
	Thallium	5.28	+/-20	J	40.0	P	12/09/2025	17:45	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	17:45	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	17:45	LB138174
CCB07	Aluminum	11.3	+/-50	U	100	P	12/09/2025	18:36	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	18:36	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	18:36	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	18:36	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	18:36	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	18:36	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	18:36	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	18:36	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	18:36	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	18:36	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	18:36	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	18:36	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	18:36	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	18:36	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	18:36	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	18:36	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	18:36	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	18:36	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	18:36	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	18:36	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	18:36	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	18:36	LB138174
CCB08	Aluminum	11.3	+/-50	U	100	P	12/09/2025	19:34	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	19:34	LB138174

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	12/09/2025	19:34	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	19:34	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	19:34	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	19:34	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	19:34	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	19:34	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	19:34	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	19:34	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	19:34	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	19:34	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	19:34	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	19:34	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	19:34	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	19:34	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	19:34	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	19:34	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	19:34	LB138174
	Thallium	5.64	+/-20	J	40.0	P	12/09/2025	19:34	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	19:34	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	19:34	LB138174
CCB09	Aluminum	11.3	+/-50	U	100	P	12/09/2025	20:41	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	20:41	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	20:41	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	20:41	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	20:41	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	20:41	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	20:41	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	20:41	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	20:41	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	20:41	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	20:41	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	20:41	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	20:41	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	20:41	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	20:41	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	20:41	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	20:41	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	20:41	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	20:41	LB138174

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	7.51	+/-20	J	40.0	P	12/09/2025	20:41	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	20:41	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	20:41	LB138174
CCB10	Aluminum	11.3	+/-50	U	100	P	12/09/2025	21:31	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	21:31	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	21:31	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	21:31	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	21:31	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	21:31	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	21:31	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	21:31	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	21:31	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	21:31	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	21:31	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	21:31	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	21:31	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	21:31	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	21:31	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	21:31	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	21:31	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	21:31	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	21:31	LB138174
	Thallium	8.81	+/-20	J	40.0	P	12/09/2025	21:31	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	21:31	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	21:31	LB138174
CCB11	Aluminum	11.3	+/-50	U	100	P	12/09/2025	22:22	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	22:22	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	22:22	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	22:22	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	22:22	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	22:22	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	22:22	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	22:22	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	22:22	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	22:22	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	22:22	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	22:22	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	22:22	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	22:22	LB138174

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	22:22	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	22:22	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	22:22	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	22:22	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	22:22	LB138174
	Thallium	4.38	+/-20	U	40.0	P	12/09/2025	22:22	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	22:22	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	22:22	LB138174
CCB12	Aluminum	11.3	+/-50	U	100	P	12/09/2025	23:25	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	23:25	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	23:25	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	23:25	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	23:25	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	23:25	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	23:25	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	23:25	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	23:25	LB138174
	Copper	4.60	+/-10	U	20.0	P	12/09/2025	23:25	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	23:25	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	23:25	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	23:25	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	23:25	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	23:25	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	23:25	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	23:25	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	23:25	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	23:25	LB138174
	Thallium	5.46	+/-20	J	40.0	P	12/09/2025	23:25	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	23:25	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	23:25	LB138174
CCB13	Aluminum	11.3	+/-50	U	100	P	12/09/2025	23:45	LB138174
	Antimony	6.76	+/-25	U	50.0	P	12/09/2025	23:45	LB138174
	Arsenic	5.12	+/-10	U	20.0	P	12/09/2025	23:45	LB138174
	Barium	14.6	+/-50	U	100	P	12/09/2025	23:45	LB138174
	Beryllium	0.56	+/-3	U	6.00	P	12/09/2025	23:45	LB138174
	Cadmium	0.50	+/-3	U	6.00	P	12/09/2025	23:45	LB138174
	Calcium	234	+/-1000	U	2000	P	12/09/2025	23:45	LB138174
	Chromium	2.12	+/-5	U	10.0	P	12/09/2025	23:45	LB138174
	Cobalt	2.26	+/-15	U	30.0	P	12/09/2025	23:45	LB138174

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB13	Copper	4.60	+/-10	U	20.0	P	12/09/2025	23:45	LB138174
	Iron	23.4	+/-50	U	100	P	12/09/2025	23:45	LB138174
	Lead	2.30	+/-6	U	12.0	P	12/09/2025	23:45	LB138174
	Magnesium	244	+/-1000	U	2000	P	12/09/2025	23:45	LB138174
	Manganese	5.94	+/-10	U	20.0	P	12/09/2025	23:45	LB138174
	Nickel	3.06	+/-20	U	40.0	P	12/09/2025	23:45	LB138174
	Potassium	918	+/-1000	U	2000	P	12/09/2025	23:45	LB138174
	Selenium	9.64	+/-10	U	20.0	P	12/09/2025	23:45	LB138174
	Silver	1.62	+/-5	U	10.0	P	12/09/2025	23:45	LB138174
	Sodium	868	+/-1000	U	2000	P	12/09/2025	23:45	LB138174
	Thallium	10.7	+/-20	J	40.0	P	12/09/2025	23:45	LB138174
	Vanadium	6.26	+/-20	U	40.0	P	12/09/2025	23:45	LB138174
	Zinc	16.7	+/-20	U	40.0	P	12/09/2025	23:45	LB138174

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PREPARATION BLANK SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170827BL		**WATER**		**Batch Number:**	**PB170827**		**Prep Date:**	**12/04/2025**	
	Aluminum	5.67	<25	U	50.0	P	12/09/2025	14:52	LB138174
	Antimony	3.38	<12.5	U	25.0	P	12/09/2025	14:52	LB138174
	Arsenic	2.56	<5	U	10.0	P	12/09/2025	14:52	LB138174
	Barium	7.28	<25	U	50.0	P	12/09/2025	14:52	LB138174
	Beryllium	0.28	<1.5	U	3.00	P	12/09/2025	14:52	LB138174
	Cadmium	0.25	<1.5	U	3.00	P	12/09/2025	14:52	LB138174
	Calcium	117	<500	U	1000	P	12/09/2025	14:52	LB138174
	Chromium	1.06	<2.5	U	5.00	P	12/09/2025	14:52	LB138174
	Cobalt	1.13	<7.5	U	15.0	P	12/09/2025	14:52	LB138174
	Copper	2.30	<5	U	10.0	P	12/09/2025	14:52	LB138174
	Iron	11.7	<25	U	50.0	P	12/09/2025	14:52	LB138174
	Lead	1.15	<3	U	6.00	P	12/09/2025	14:52	LB138174
	Magnesium	122	<500	U	1000	P	12/09/2025	14:52	LB138174
	Manganese	2.97	<5	U	10.0	P	12/09/2025	14:52	LB138174
	Nickel	1.53	<10	U	20.0	P	12/09/2025	14:52	LB138174
	Potassium	459	<500	U	1000	P	12/09/2025	14:52	LB138174
	Selenium	4.82	<5	U	10.0	P	12/09/2025	14:52	LB138174
	Silver	0.81	<2.5	U	5.00	P	12/09/2025	14:52	LB138174
	Sodium	434	<500	U	1000	P	12/09/2025	14:52	LB138174
	Thallium	2.19	<10	U	20.0	P	12/09/2025	14:52	LB138174
	Vanadium	3.13	<10	U	20.0	P	12/09/2025	14:52	LB138174
	Zinc	8.33	<10	U	20.0	P	12/09/2025	14:52	LB138174

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	239000	255000	94	216000	294000	12/09/2025	12:32	LB138174
	Antimony	2.17			-50	50	12/09/2025	12:32	LB138174
	Arsenic	5.20			-20	20	12/09/2025	12:32	LB138174
	Barium	5.08	6.0	85	-94	106	12/09/2025	12:32	LB138174
	Beryllium	1.40			-6	6	12/09/2025	12:32	LB138174
	Cadmium	4.58	1.0	458	-5	7	12/09/2025	12:32	LB138174
	Calcium	225000	245000	92	208000	282000	12/09/2025	12:32	LB138174
	Chromium	45.9	52.0	88	42	62	12/09/2025	12:32	LB138174
	Cobalt	2.34			-30	30	12/09/2025	12:32	LB138174
	Copper	-2.36	2.0	118	-18	22	12/09/2025	12:32	LB138174
	Iron	94200	101000	93	85600	116500	12/09/2025	12:32	LB138174
	Lead	3.51			-12	12	12/09/2025	12:32	LB138174
	Magnesium	243000	255000	95	216000	294000	12/09/2025	12:32	LB138174
	Manganese	8.08	7.0	115	-13	27	12/09/2025	12:32	LB138174
	Nickel	6.00	2.0	300	-38	42	12/09/2025	12:32	LB138174
	Potassium	101			0	0	12/09/2025	12:32	LB138174
	Selenium	1.24			-20	20	12/09/2025	12:32	LB138174
	Silver	-1.30			-10	10	12/09/2025	12:32	LB138174
	Sodium	64.9			0	0	12/09/2025	12:32	LB138174
	Thallium	28.4			-40	40	12/09/2025	12:32	LB138174
	Vanadium	5.43			-40	40	12/09/2025	12:32	LB138174
	Zinc	5.79			-40	40	12/09/2025	12:32	LB138174
ICSAB01	Aluminum	239000	247000	97	209000	285000	12/09/2025	12:37	LB138174
	Antimony	595	618	96	525	711	12/09/2025	12:37	LB138174
	Arsenic	107	104	103	88.4	120	12/09/2025	12:37	LB138174
	Barium	456	537	85	437	637	12/09/2025	12:37	LB138174
	Beryllium	468	495	94	420	570	12/09/2025	12:37	LB138174
	Cadmium	979	972	101	826	1120	12/09/2025	12:37	LB138174
	Calcium	225000	235000	96	199000	271000	12/09/2025	12:37	LB138174
	Chromium	545	542	101	460	624	12/09/2025	12:37	LB138174
	Cobalt	487	476	102	404	548	12/09/2025	12:37	LB138174
	Copper	464	511	91	434	588	12/09/2025	12:37	LB138174
	Iron	95200	99300	96	84400	114500	12/09/2025	12:37	LB138174
	Lead	53.9	49.0	110	37	61	12/09/2025	12:37	LB138174
	Magnesium	243000	248000	98	210000	286000	12/09/2025	12:37	LB138174
	Manganese	457	507	90	430	584	12/09/2025	12:37	LB138174
	Nickel	965	954	101	810	1100	12/09/2025	12:37	LB138174
	Potassium	42.5			0	0	12/09/2025	12:37	LB138174
	Selenium	49.8	46.0	108	26	66	12/09/2025	12:37	LB138174
	Silver	180	201	90	170	232	12/09/2025	12:37	LB138174
	Sodium	87.5			0	0	12/09/2025	12:37	LB138174
	Thallium	148	108	137	68	148	12/09/2025	12:37	LB138174

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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	465	491	95	417	565	12/09/2025	12:37	LB138174
	Zinc	1040	952	109	809	1095	12/09/2025	12:37	LB138174

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech, EMI **level:** low **sdg no.:** Q3764

contract: TETR16 **lab code:** ACE

matrix: Water **sample id:** Q3764-10 **client id:** MC0KE4MS

Percent Solids for Sample: NA **Spiked ID:** Q3764-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	913		43.8	J	1000	87		P
Antimony	ug/L	75 - 125	381		18.7	J	400	90		P
Arsenic	ug/L	75 - 125	364		10.0	U	400	91		P
Barium	ug/L	75 - 125	102		18.6	J	100	84		P
Beryllium	ug/L	75 - 125	83.9		3.00	U	100	84		P
Cadmium	ug/L	75 - 125	92.0		10.2		100	82		P
Calcium	ug/L	75 - 125	12500		13200		500	-151		P
Chromium	ug/L	75 - 125	184		5.00	U	200	92		P
Cobalt	ug/L	75 - 125	86.2		15.0	U	100	86		P
Copper	ug/L	75 - 125	138		5.46	J	150	88		P
Iron	ug/L	75 - 125	1400		249		1500	76		P
Lead	ug/L	75 - 125	530		209		500	64	N	P
Magnesium	ug/L	75 - 125	6270		5970		1000	31		P
Manganese	ug/L	75 - 125	96.8		17.0		100	80		P
Nickel	ug/L	75 - 125	215		3.85	J	250	85		P
Potassium	ug/L	75 - 125	6560		2350		5000	84		P
Selenium	ug/L	75 - 125	889		10.0	U	1000	89		P
Silver	ug/L	75 - 125	32.6		5.00	U	37.5	87		P
Sodium	ug/L	75 - 125	2150		925	J	1500	81		P
Thallium	ug/L	75 - 125	891		2.26	J	1000	89		P
Vanadium	ug/L	75 - 125	136		20.0	U	150	91		P
Zinc	ug/L	75 - 125	104		19.2	J	100	85		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech, EMI **level:** low **sdg no.:** Q3764

contract: TETR16 **lab code:** ACE

matrix: Water **sample id:** Q3764-10 **client id:** MC0KE4MSD

Percent Solids for Sample: NA **Spiked ID:** Q3764-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	971		43.8	J	1000	93		P
Antimony	ug/L	75 - 125	415		18.7	J	400	99		P
Arsenic	ug/L	75 - 125	394		10.0	U	400	98		P
Barium	ug/L	75 - 125	111		18.6	J	100	92		P
Beryllium	ug/L	75 - 125	86.4		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	100		10.2		100	90		P
Calcium	ug/L	75 - 125	13600		13200		500	77		P
Chromium	ug/L	75 - 125	200		5.00	U	200	100		P
Cobalt	ug/L	75 - 125	93.9		15.0	U	100	94		P
Copper	ug/L	75 - 125	150		5.46	J	150	96		P
Iron	ug/L	75 - 125	1610		249		1500	91		P
Lead	ug/L	75 - 125	579		209		500	74	N	P
Magnesium	ug/L	75 - 125	6770		5970		1000	81		P
Manganese	ug/L	75 - 125	105		17.0		100	88		P
Nickel	ug/L	75 - 125	234		3.85	J	250	92		P
Potassium	ug/L	75 - 125	7430		2350		5000	101		P
Selenium	ug/L	75 - 125	971		10.0	U	1000	97		P
Silver	ug/L	75 - 125	36.1		5.00	U	37.5	96		P
Sodium	ug/L	75 - 125	2430		925	J	1500	100		P
Thallium	ug/L	75 - 125	952		2.26	J	1000	95		P
Vanadium	ug/L	75 - 125	145		20.0	U	150	97		P
Zinc	ug/L	75 - 125	115		19.2	J	100	96		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Matrix: Water **Level:** LOW **Client ID:** MC0KE4A

Sample ID: Q3764-10 **Spiked ID:** Q3764-10A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	634		209		500	85		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech, EMI **Level:** LOW **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3764-10 **Client ID:** MC0KE4DUP

Percent Solids for Sample: NA **Duplicate ID** Q3764-10DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	43.8	J	39.3	J	11		P
Antimony	ug/L	20	18.7	J	18.2	J	3		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	18.6	J	18.7	J	1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	10.2		10.2		0		P
Calcium	ug/L	20	13200		13400		2		P
Chromium	ug/L	20	5.00	U	5.00	U			P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	5.46	J	5.73	J	5		P
Iron	ug/L	20	249		256		3		P
Lead	ug/L	20	209		209		0		P
Magnesium	ug/L	20	5970		5990		0		P
Manganese	ug/L	20	17.0		17.4		2		P
Nickel	ug/L	20	3.85	J	3.72	J	3		P
Potassium	ug/L	20	2350		2380		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	925	J	965	J	4		P
Thallium	ug/L	20	2.26	J	20.0	U	200.0		P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	19.2	J	19.0	J	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: Tetra Tech, EMI **Level:** LOW **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3764-11 **Client ID:** MC0KE4MSD

Percent Solids for Sample: NA **Duplicate ID** Q3764-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	913		971		6		P
Antimony	ug/L	20	381		415		9		P
Arsenic	ug/L	20	364		394		8		P
Barium	ug/L	20	102		111		8		P
Beryllium	ug/L	20	83.9		86.4		3		P
Cadmium	ug/L	20	92.0		100		8		P
Calcium	ug/L	20	12500		13600		8		P
Chromium	ug/L	20	184		200		8		P
Cobalt	ug/L	20	86.2		93.9		9		P
Copper	ug/L	20	138		150		8		P
Iron	ug/L	20	1400		1610		14		P
Lead	ug/L	20	530		579		9		P
Magnesium	ug/L	20	6270		6770		8		P
Manganese	ug/L	20	96.8		105		8		P
Nickel	ug/L	20	215		234		8		P
Potassium	ug/L	20	6560		7430		12		P
Selenium	ug/L	20	889		971		9		P
Silver	ug/L	20	32.6		36.1		10		P
Sodium	ug/L	20	2150		2430		12		P
Thallium	ug/L	20	891		952		7		P
Vanadium	ug/L	20	136		145		6		P
Zinc	ug/L	20	104		115		10		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: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170827BS							
Aluminum	ug/L	1000	978		98	80 - 120	P
Antimony	ug/L	400	413		103	80 - 120	P
Arsenic	ug/L	400	408		102	80 - 120	P
Barium	ug/L	100	92.7		93	80 - 120	P
Beryllium	ug/L	100	97.2		97	80 - 120	P
Cadmium	ug/L	100	98.7		99	80 - 120	P
Calcium	ug/L	500	495	J	99	80 - 120	P
Chromium	ug/L	200	202		101	80 - 120	P
Cobalt	ug/L	100	98.6		99	80 - 120	P
Copper	ug/L	150	158		105	80 - 120	P
Iron	ug/L	1500	1460		97	80 - 120	P
Lead	ug/L	500	486		97	80 - 120	P
Magnesium	ug/L	1000	983	J	98	80 - 120	P
Manganese	ug/L	100	95.6		96	80 - 120	P
Nickel	ug/L	250	248		99	80 - 120	P
Potassium	ug/L	5000	4910		98	80 - 120	P
Selenium	ug/L	1000	1060		106	80 - 120	P
Silver	ug/L	37.5	38.3		102	80 - 120	P
Sodium	ug/L	1500	1500		100	80 - 120	P
Thallium	ug/L	1000	1010		101	80 - 120	P
Vanadium	ug/L	150	146		97	80 - 120	P
Zinc	ug/L	100	105		105	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

MC0KE4L

Lab Name: Alliance **Contract:** TETR16

Lab Code: ACE **Lb No.:** lb138174 **Lab Sample ID :** Q3764-10L **SDG No.:** Q3764

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	43.8	J	38.8	J	11		P
Antimony	18.7	J	20.4	J	9		P
Arsenic	10.0	U	50.0	U			P
Barium	18.6	J	250	U	100.0		P
Beryllium	3.00	U	15.0	U			P
Cadmium	10.2		10.1	J	1		P
Calcium	13200		13400		2		P
Chromium	5.00	U	25.0	U			P
Cobalt	15.0	U	75.0	U			P
Copper	5.46	J	50.0	U	100.0		P
Iron	249		258		4		P
Lead	209		208		0		P
Magnesium	5970		5970		0		P
Manganese	17.0		18.2	J	7		P
Nickel	3.85	J	100	U	100.0		P
Potassium	2350		2500	J	6		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	925	J	5000	U	100.0		P
Thallium	2.26	J	12.3	J	442		P
Vanadium	20.0	U	100	U			P
Zinc	19.2	J	100	U	100.0		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **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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Fax : 908 789 8922

Metals
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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech, EMI **SDG No.:** Q3764

Contract: TETR16 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB170827**						
PB170827BL	PB170827BL	MB	WATER	12/04/2025	50.0	25.0	
PB170827BS	PB170827BS	LCS	WATER	12/04/2025	50.0	25.0	
Q3764-01	MC0KD3	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-02	MC0KD4	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-03	MC0KD5	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-04	MC0KD6	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-05	MC0KD8	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-06	MC0KD9	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-07	MC0KE0	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-08	MC0KE1	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-09	MC0KE2	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-10	MC0KE4	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-10DUP	MC0KE4DUP	DUP	WATER	12/04/2025	50.0	25.0	
Q3764-11	MC0KE4MS	MS	WATER	12/04/2025	50.0	25.0	
Q3764-12	MC0KE4MSD	MSD	WATER	12/04/2025	50.0	25.0	
Q3764-13	MC0KF2	SAM	WATER	12/04/2025	50.0	25.0	
Q3764-14	MC0KF4	SAM	WATER	12/04/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: Tetra Tech, EMI **Contract:** TETR16

Lab code: ACE **Sdg no.:** Q3764

Instrument id number: **Method:** **Run number:** LB138174

Start date: 12/09/2025 **End date:** 12/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1138	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	1143	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	1147	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	1151	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	1155	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	1159	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	1215	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	1219	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	1224	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	1228	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	1232	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	1249	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	1253	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	1341	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	1345	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170827BL	PB170827BL	1	1452	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170827BS	PB170827BS	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-01	MC0KD3	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-02	MC0KD4	1	1504	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	1509	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	1513	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-03	MC0KD5	1	1517	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-04	MC0KD6	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-05	MC0KD8	1	1526	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-06	MC0KD9	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-07	MC0KE0	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-08	MC0KE1	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-09	MC0KE2	1	1543	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-10	MC0KE4	1	1547	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-10DUP	MC0KE4DUP	1	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-10L	MC0KE4L	5	1556	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
Q3764-11	MC0KE4MS	1	1608	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-12	MC0KE4MSD	1	1612	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-10A	MC0KE4A	1	1616	Pb
Q3764-13	MC0KF2	1	1621	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3764-14	MC0KF4	1	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1654	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: Tetra Tech, EMI **Contract:** TETR16

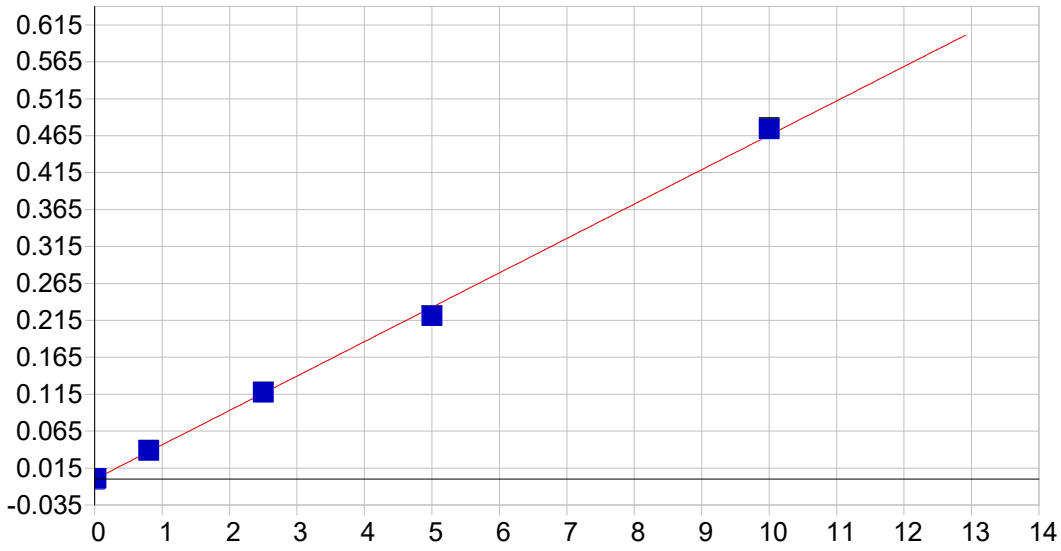
Lab code: ACE **Sdg no.:** Q3764

Instrument id number: **Method:** **Run number:** LB138174

Start date: 12/09/2025 **End date:** 12/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV06	CCV06	1	1741	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	1745	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	1831	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	1836	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	1930	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	1934	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2131	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	2320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	2325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV13	CCV13	1	2341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB13	CCB13	1	2345	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

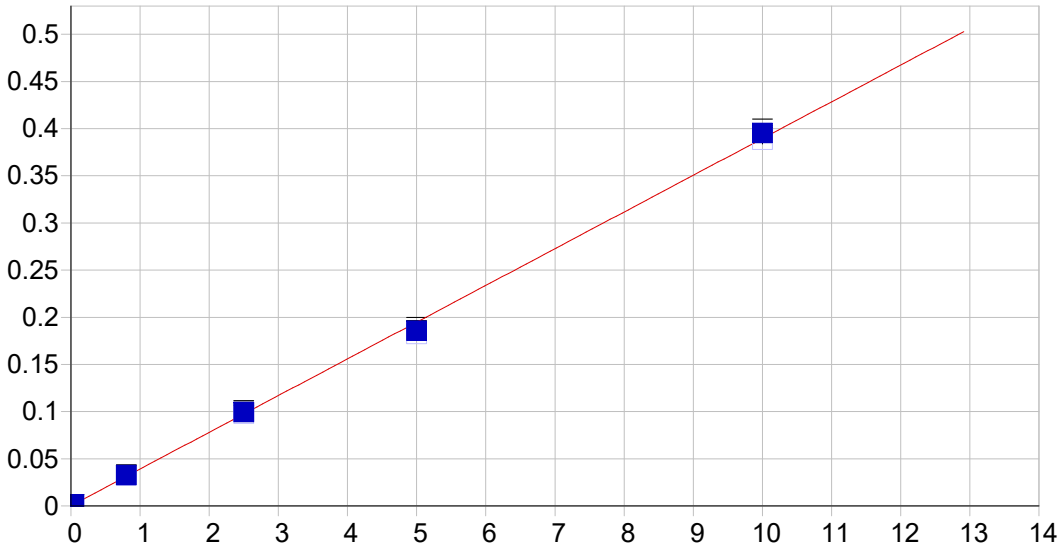


As 189.042 {479}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000147	Re-Slope:	1.000000
A1 (Gain):	0.046567	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999526	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.003858		
Predicted MQL:	0.012859		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00015	.000	1
S1	.02000	.02143	.001	7.16	.00085	.000	1
S3	2.5000	2.5238	.024	.953	.11727	.000	1
S4	5.0000	4.7540	-.246	-4.92	.22101	.000	1
S5	10.000	10.187	.187	1.87	.47378	.001	1
S2	.80000	.83373	.034	4.22	.03864	.000	1

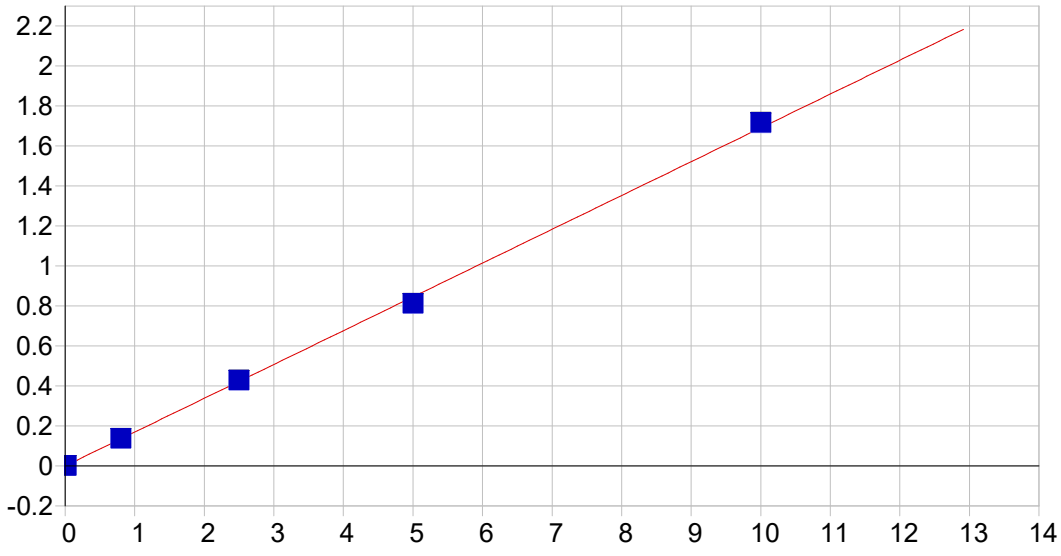


Tl 190.856 {477}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000204	Re-Slope:	1.000000
A1 (Gain):	0.038930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999511	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.005586		
Predicted MQL:	0.018621		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00020	.000	1
S1	.04000	.04742	.007	18.5	.00195	.000	1
S3	2.5000	2.5473	.047	1.89	.09760	.002	1
S4	5.0000	4.7623	-.238	-4.75	.18205	.004	1
S5	10.000	10.149	.149	1.49	.38819	.005	1
S2	.80000	.83477	.035	4.35	.03213	.000	1

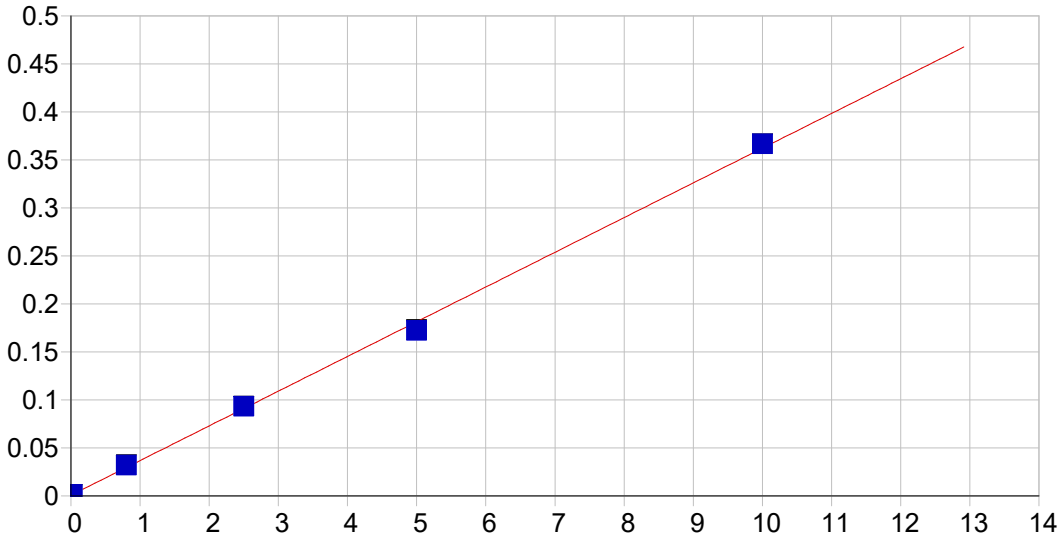


Pb 220.353 {453}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000226	Re-Slope:	1.000000
A1 (Gain):	0.169051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999712	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.002106		
Predicted MQL:	0.007019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.000	1
S1	.01200	.01150	-.000	-4.14	.00213	.000	1
S3	2.5000	2.5320	.032	1.28	.42779	.000	1
S4	5.0000	4.8049	-.195	-3.90	.81156	.001	1
S5	10.000	10.153	.153	1.53	1.7148	.002	1
S2	.80000	.81045	.010	1.31	.13708	.001	1

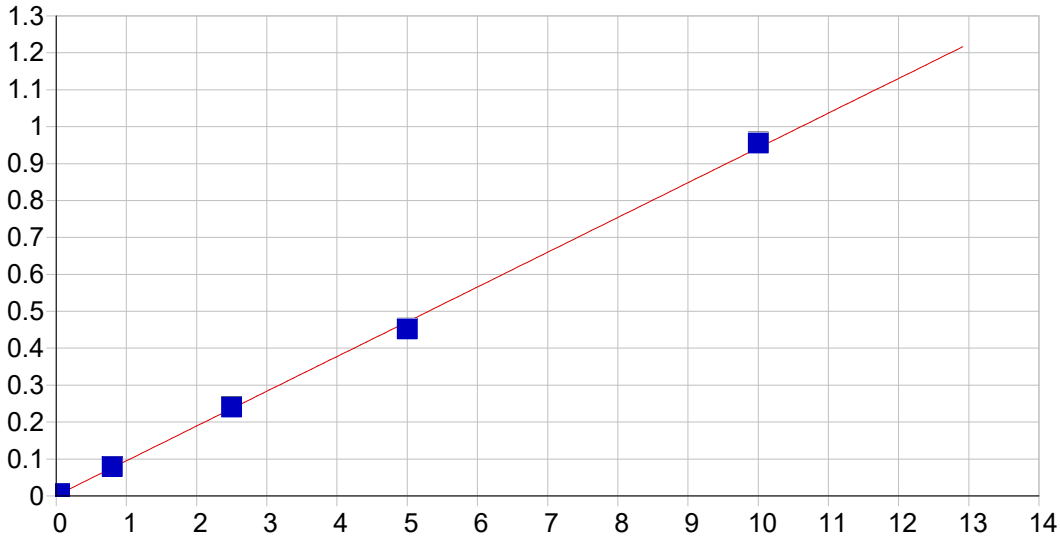


Se 196.090 {472}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000667	Re-Slope:	1.000000
A1 (Gain):	0.036155	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999414	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.005750		
Predicted MQL:	0.019168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00067	.000	1
S1	.02000	.02207	.002	10.3	.00147	.000	1
S3	2.5000	2.5619	.062	2.48	.09328	.000	1
S4	5.0000	4.7473	-.253	-5.05	.17227	.001	1
S5	10.000	10.123	.123	1.23	.36659	.000	1
S2	.80000	.86613	.066	8.27	.03198	.000	1

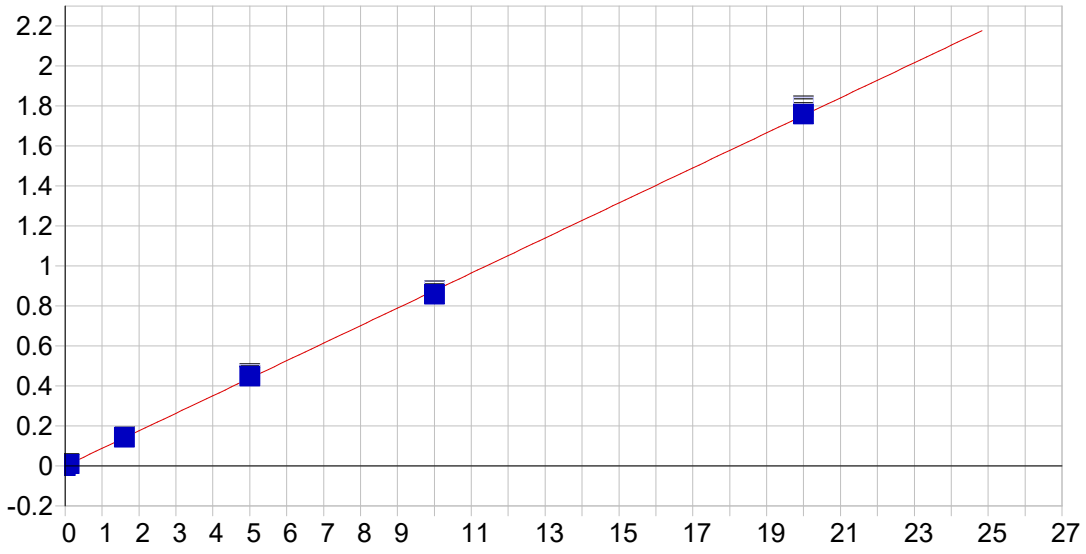


Sb 206.833 {463}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000888	Re-Slope:	1.000000
A1 (Gain):	0.094147	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999663	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.002807		
Predicted MQL:	0.009357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00089	.000	1
S1	.05000	.05258	.003	5.17	.00585	.000	1
S3	2.5000	2.5400	.040	1.60	.24066	.001	1
S4	5.0000	4.7908	-.209	-4.18	.45321	.001	1
S5	10.000	10.138	.138	1.38	.95794	.001	1
S2	.80000	.82827	.028	3.53	.07907	.001	1

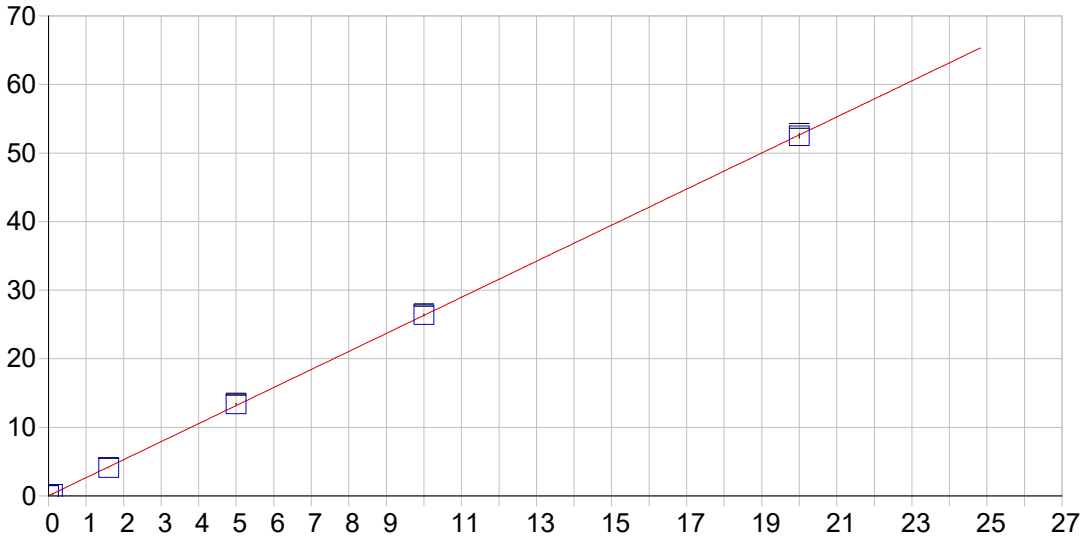


Al 396.152 { 85}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000246	Re-Slope:	1.000000
A1 (Gain):	0.087660	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.010752		
Predicted MQL:	0.035841		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00025	.000	1
S1	.10000	.10788	.008	7.88	.01038	.001	1
S3	5.0000	5.1020	.102	2.04	.45599	.005	1
S4	10.000	9.7928	-.207	-2.07	.87569	.002	1
S5	20.000	20.072	.072	.362	1.7938	.007	1
S2	1.6000	1.6245	.024	1.53	.14537	.001	1

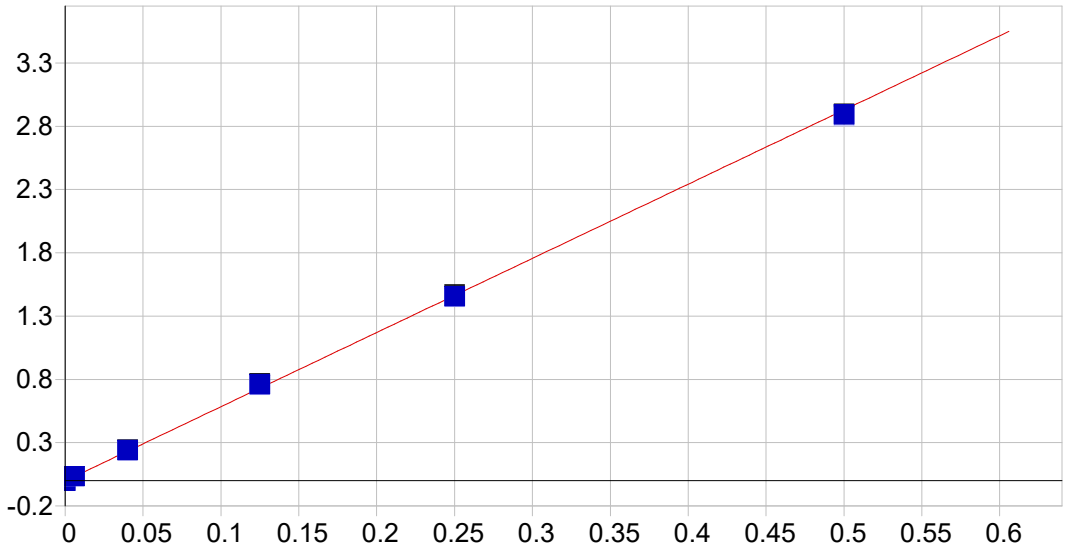


Ba 493.409 { 68}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.025069	Re-Slope:	1.000000
A1 (Gain):	2.630538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.001886		
Predicted MDL:	0.001055		
Predicted MQL:	0.003517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.02508	.002	1
S1	.10000	.09705	-.003	-2.95	.28036	.002	1
S3	5.0000	5.0797	.080	1.59	13.387	.155	1
S4	10.000	10.024	.024	.240	26.394	.175	1
S5	20.000	19.954	-.046	-.228	52.516	.357	1
S2	1.6000	1.5447	-.055	-3.45	4.0885	.031	1

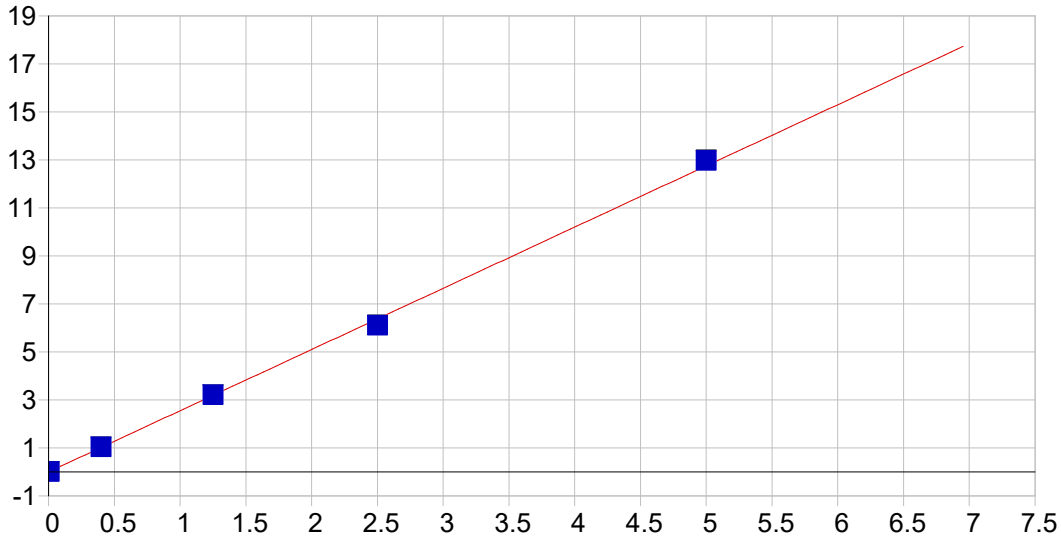


Be 234.861 {144}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002363	Re-Slope:	1.000000
A1 (Gain):	5.862273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000339		
Predicted MDL:	0.000092		
Predicted MQL:	0.000308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00237	.001	1
S1	.00600	.00647	.000	7.83	.03530	.000	1
S3	.12500	.13005	.005	4.04	.75677	.007	1
S4	.25000	.24903	-.001	-.390	1.4509	.011	1
S5	.50000	.49398	-.006	-1.20	2.8804	.004	1
S2	.04000	.04147	.001	3.67	.23968	.003	1

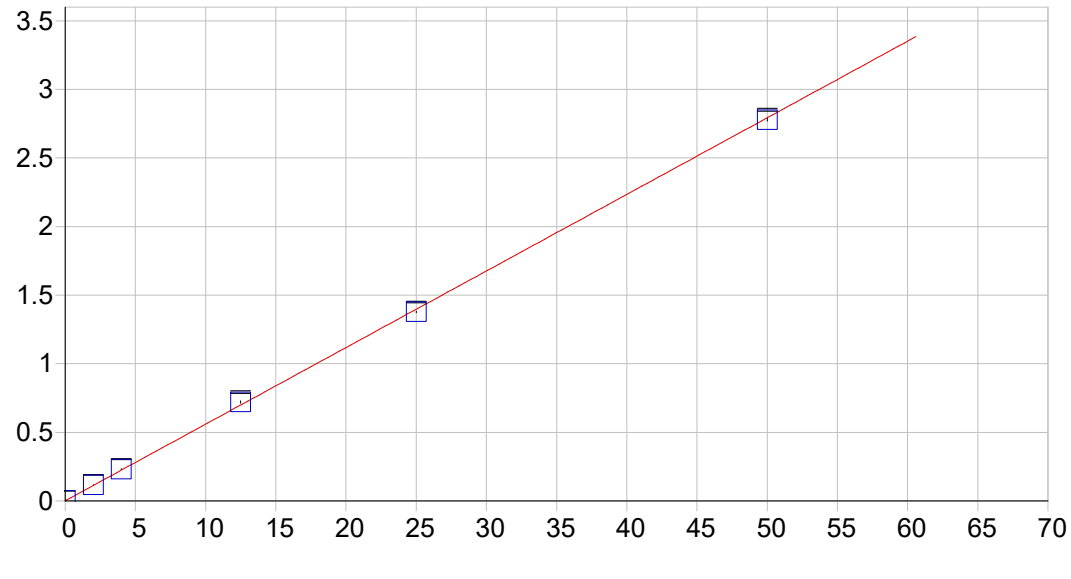


Cd 226.502 {449}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000796	Re-Slope:	1.000000
A1 (Gain):	2.550309	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999672	Status:	OK.
Std Error of Est:	0.000593		
Predicted MDL:	0.000118		
Predicted MQL:	0.000393		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00080	.000	1
S1	.00600	.00615	.000	2.45	.01493	.000	1
S3	1.2500	1.2583	.008	.665	3.2104	.002	1
S4	2.5000	2.3965	-.103	-4.14	6.1153	.005	1
S5	5.0000	5.0884	.088	1.77	12.984	.012	1
S2	.40000	.40663	.007	1.66	1.0369	.007	1

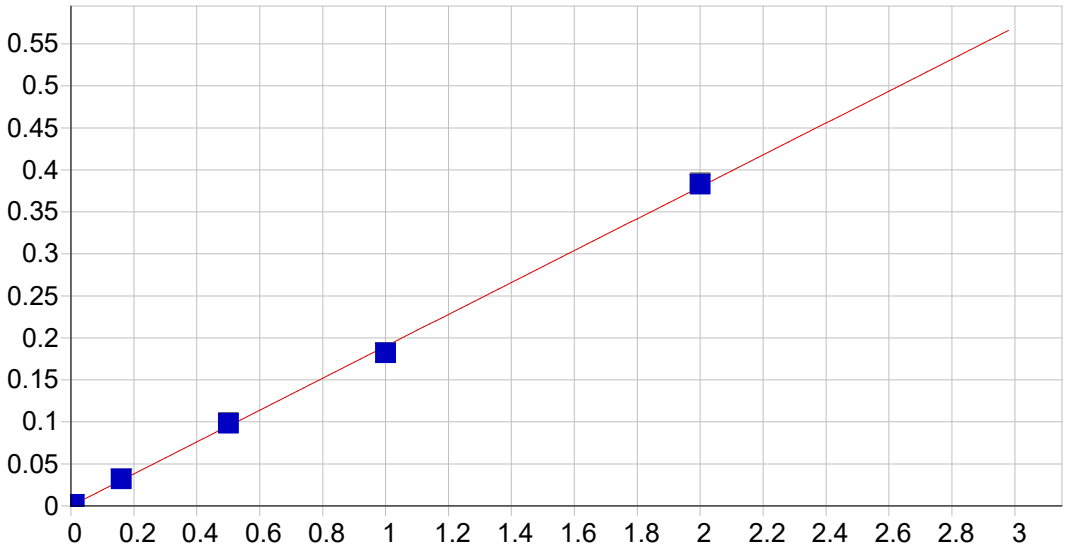


Ca 373.690 { 90}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001283	Re-Slope:	1.000000
A1 (Gain):	0.055838	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	0.000486		
Predicted MDL:	0.013444		
Predicted MQL:	0.044815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	.00127	.000	1
S2	4.0000	4.1310	.131	3.27	.23195	.003	1
S3	12.500	12.883	.383	3.06	.72062	.009	1
S4	25.000	24.656	-.344	-1.38	1.3780	.005	1
S5	50.000	49.749	-.251	-.502	2.7792	.011	1
S1	2.0000	2.0812	.081	4.06	.11749	.001	1

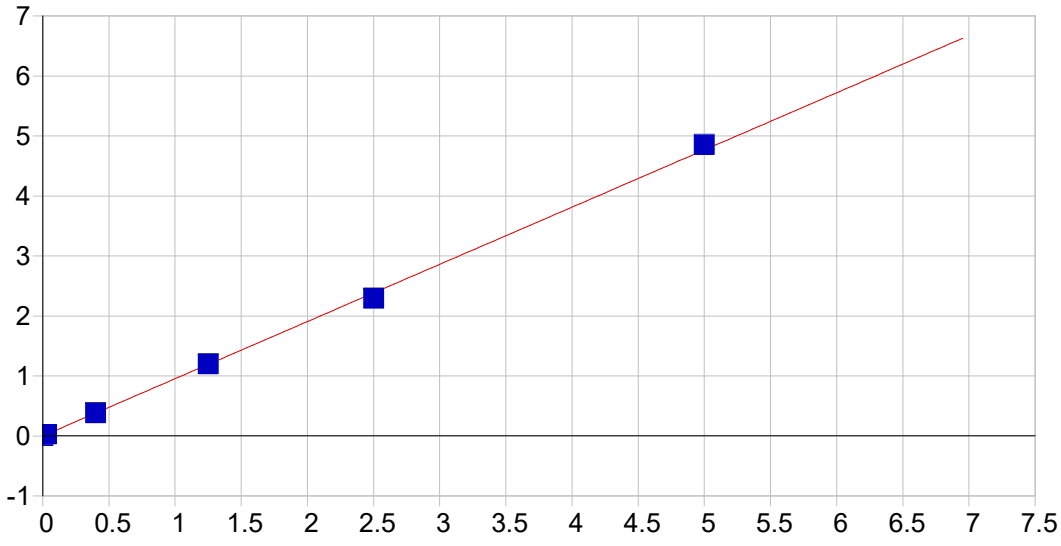


Cr 267.716 {126}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000131	Re-Slope:	1.000000
A1 (Gain):	0.189853	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999587	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.000486		
Predicted MQL:	0.001619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.01000	.01052	.001	5.22	.00213	.000	1
S3	.50000	.51720	.017	3.44	.09842	.000	1
S4	1.0000	.95745	-.043	-4.26	.18210	.000	1
S5	2.0000	2.0161	.016	.803	.38328	.001	1
S2	.16000	.16878	.009	5.49	.03221	.000	1

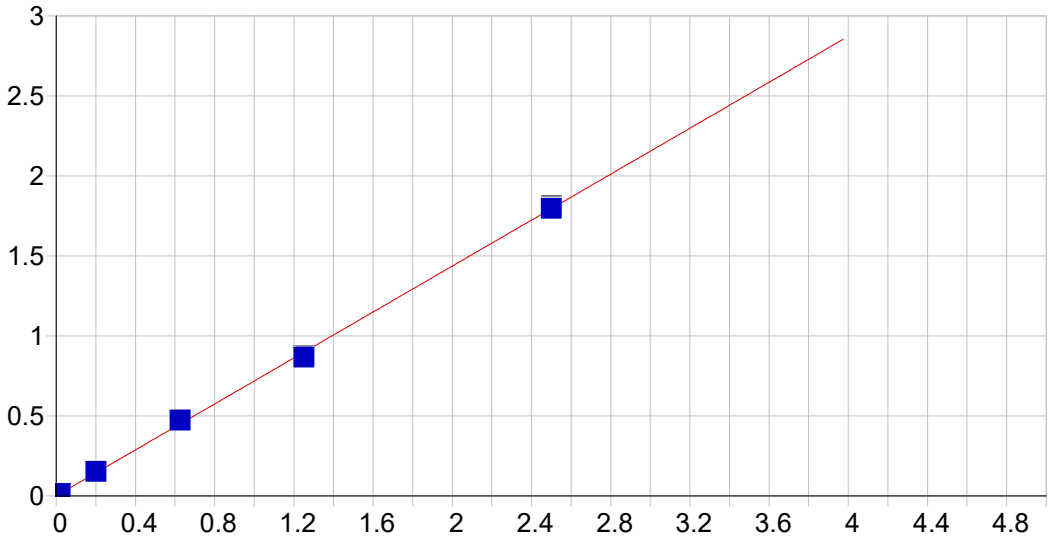


Co 228.616 {448}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000178	Re-Slope:	1.000000
A1 (Gain):	0.953255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999709	Status:	OK.
Std Error of Est:	0.000468		
Predicted MDL:	0.000278		
Predicted MQL:	0.000927		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.03000	.02985	-.000	-.502	.02816	.000	1
S3	1.2500	1.2549	.005	.393	1.1981	.001	1
S4	2.5000	2.4040	-.096	-3.84	2.2955	.002	1
S5	5.0000	5.0910	.091	1.82	4.8609	.003	1
S2	.40000	.40022	.000	.056	.38198	.003	1

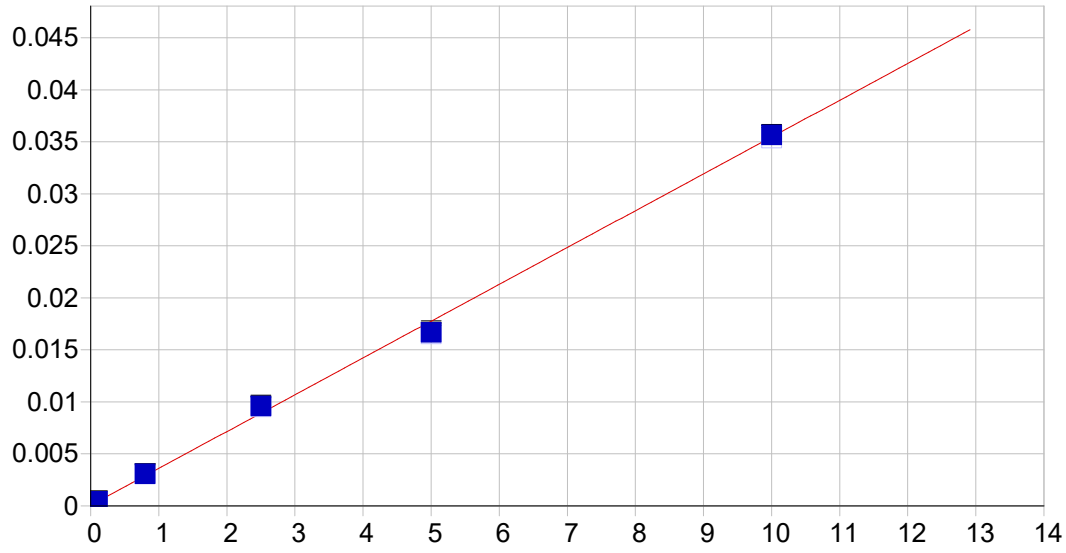


Cu 224.700 {450}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000574	Re-Slope:	1.000000
A1 (Gain):	0.717981	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999608	Status:	OK.
Std Error of Est:	0.000238		
Predicted MDL:	0.000562		
Predicted MQL:	0.001875		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00057	.000	1
S1	.02000	.02146	.001	7.29	.01615	.000	1
S3	.62500	.65571	.031	4.91	.47521	.001	1
S4	1.2500	1.2059	-.044	-3.52	.87411	.000	1
S5	2.5000	2.5019	.002	.076	1.8123	.001	1
S2	.20000	.20999	.010	4.99	.15257	.001	1

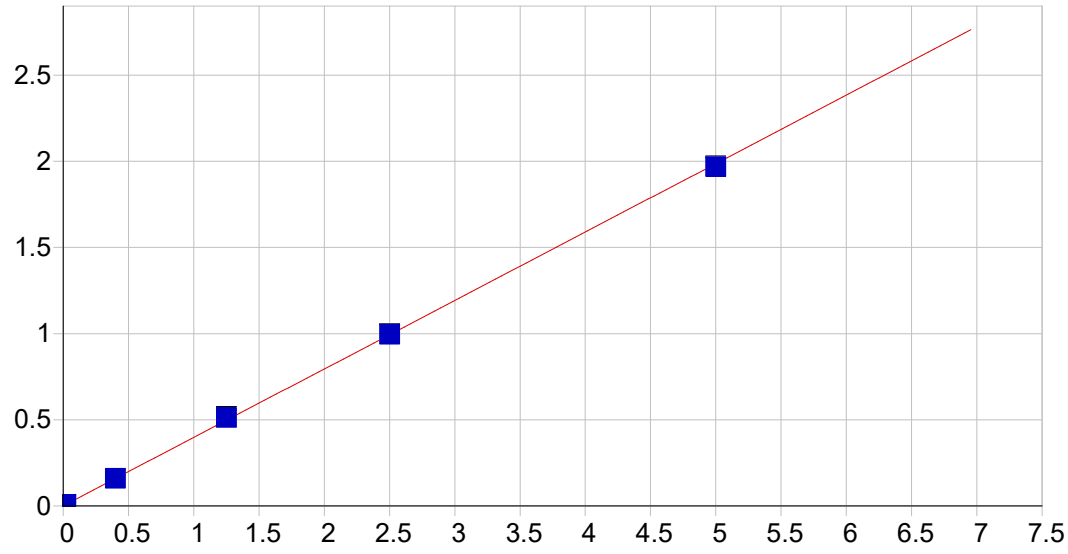


Fe 240.488 {140}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000067	Re-Slope:	1.000000
A1 (Gain):	0.003538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998961	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.008958		
Predicted MQL:	0.029860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00007	.000	1
S1	.10000	.10951	.010	9.51	.00045	.000	1
S3	2.5000	2.6924	.192	7.69	.00952	.000	1
S4	5.0000	4.6941	-.306	-6.12	.01653	.000	1
S5	10.000	10.056	.056	.558	.03535	.000	1
S2	.80000	.84832	.048	6.04	.00304	.000	1

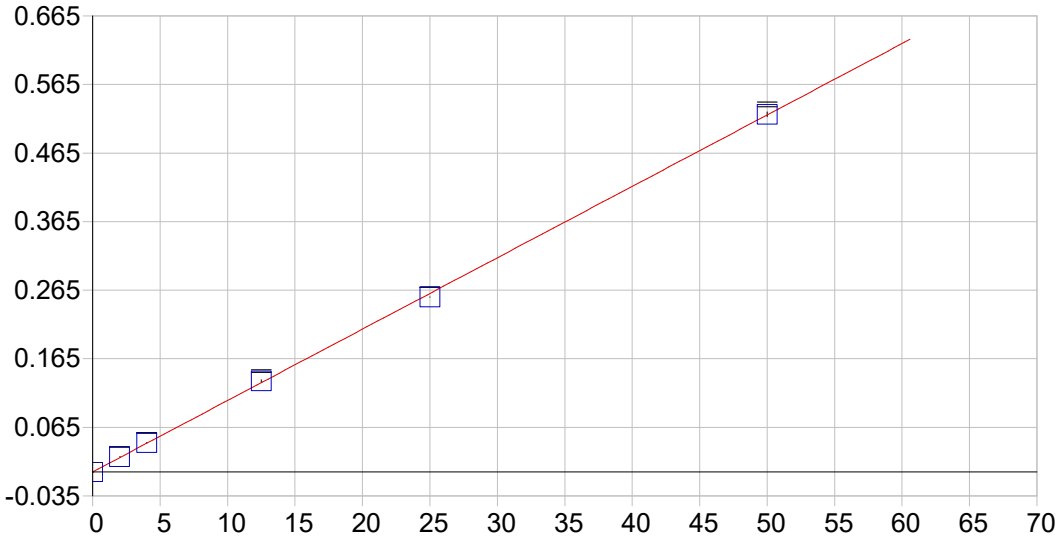


Mn 257.610 {131}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000193	Re-Slope:	1.000000
A1 (Gain):	0.397322	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000090		
Predicted MDL:	0.000687		
Predicted MQL:	0.002291		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00019	.000	1
S1	.02000	.02059	.001	2.97	.00838	.000	1
S3	1.2500	1.2894	.039	3.15	.51260	.006	1
S4	2.5000	2.5069	.007	.276	.99644	.004	1
S5	5.0000	4.9530	-.047	-.940	1.9685	.004	1
S2	.40000	.40009	.000	.022	.15919	.001	1

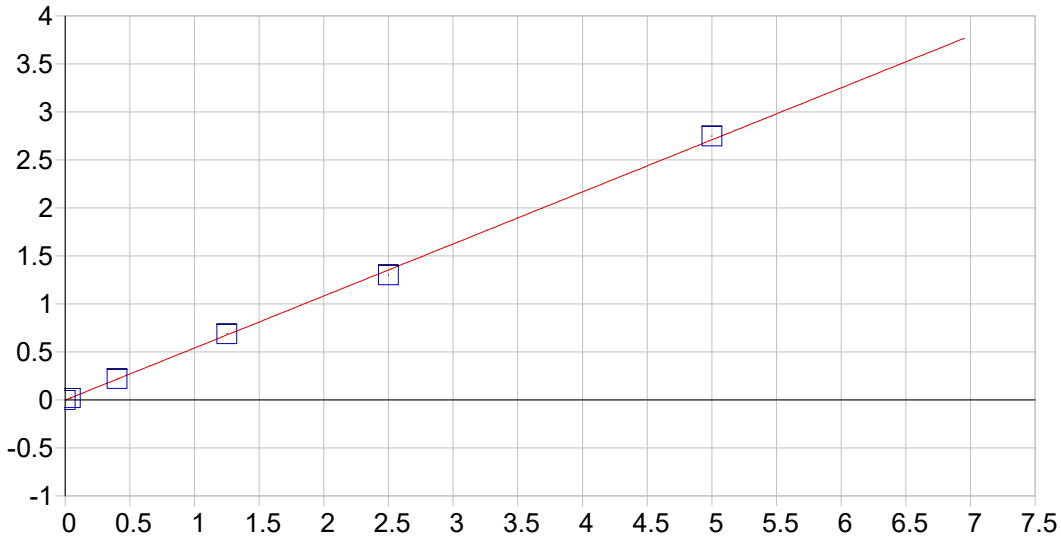


Mg 279.079 {121}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000016	Re-Slope:	1.000000
A1 (Gain):	0.010411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999884	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.033855		
Predicted MQL:	0.112851		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	-.00002	.000	1
S2	4.0000	4.0759	.076	1.90	.04242	.000	1
S3	12.500	12.733	.233	1.86	.13255	.002	1
S4	25.000	24.496	-.504	-2.01	.25501	.000	1
S5	50.000	50.089	.089	.177	.52145	.003	1
S1	2.0000	2.1062	.106	5.31	.02191	.000	1

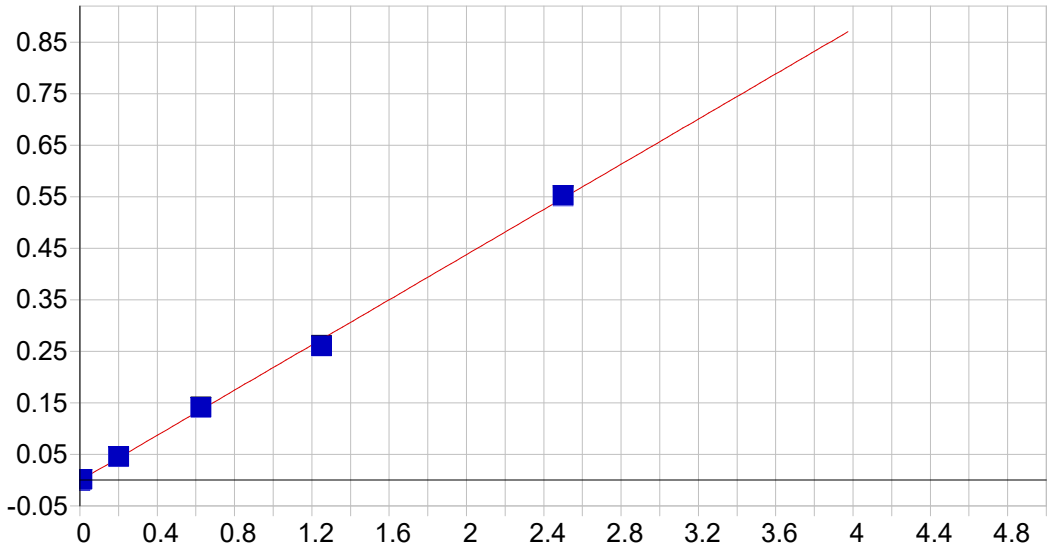


Ni 231.604 {446}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001178	Re-Slope:	1.000000
A1 (Gain):	0.541992	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999713	Status:	OK.
Std Error of Est:	0.000305		
Predicted MDL:	0.000526		
Predicted MQL:	0.001753		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00118	.000	1
S1	.04000	.04092	.001	2.31	.02100	.000	1
S3	1.2500	1.2702	.020	1.62	.68728	.000	1
S4	2.5000	2.4021	-.098	-3.92	1.3008	.001	1
S5	5.0000	5.0710	.071	1.42	2.7473	.001	1
S2	.40000	.40572	.006	1.43	.21872	.002	1

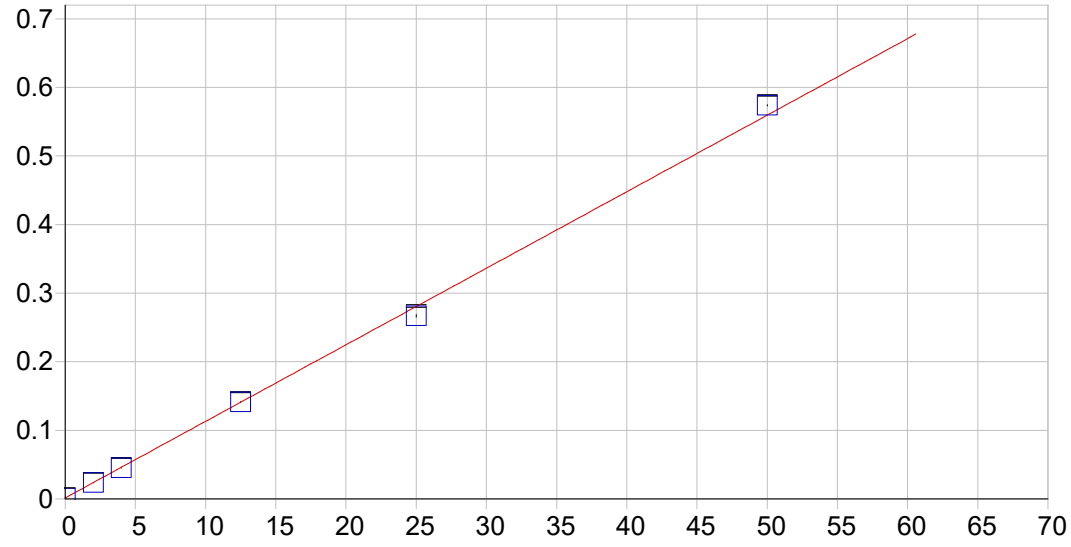


Ag 328.068 {103}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000705	Re-Slope:	1.000000
A1 (Gain):	0.219174	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999528	Status:	OK.
Std Error of Est:	0.000056		
Predicted MDL:	0.000667		
Predicted MQL:	0.002224		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00070	.000	1
S1	.01000	.01025	.000	2.54	.00152	.000	1
S3	.62500	.64887	.024	3.82	.14087	.001	1
S4	1.2500	1.1927	-.057	-4.58	.25943	.001	1
S5	2.5000	2.5227	.023	.909	.54964	.000	1
S2	.20000	.21044	.010	5.22	.04521	.000	1

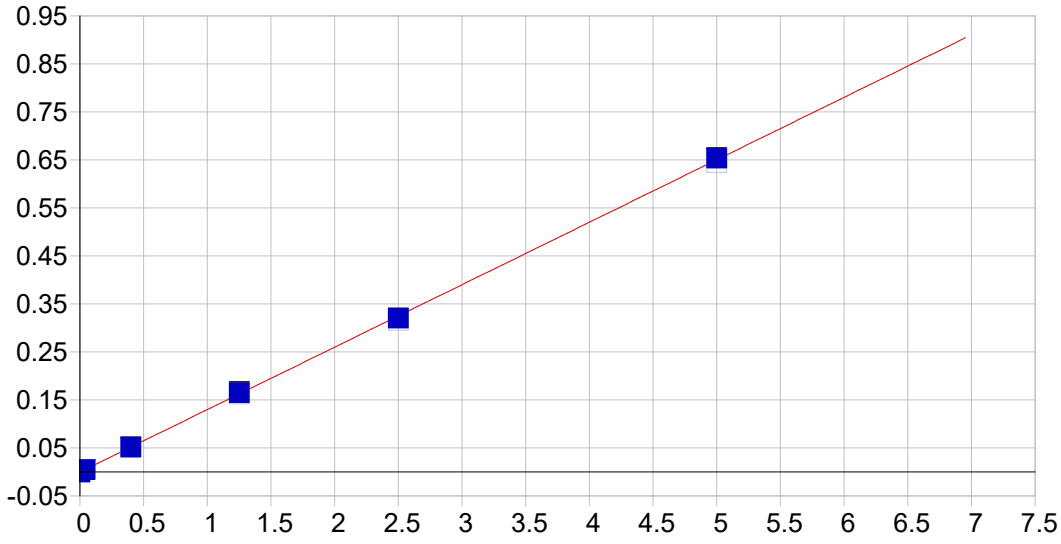


Na 589.592 { 57}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001541	Re-Slope:	1.000000
A1 (Gain):	0.011160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999497	Status:	OK.
Std Error of Est:	0.000187		
Predicted MDL:	0.019277		
Predicted MQL:	0.064255		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00154	.000	1
S2	4.0000	3.9250	-.075	-1.87	.04535	.000	1
S3	12.500	12.525	.025	.203	.14133	.001	1
S4	25.000	23.781	-1.22	-4.87	.26695	.002	1
S5	50.000	51.286	1.29	2.57	.57391	.001	1
S1	2.0000	1.9821	-.018	-.897	.02366	.000	1

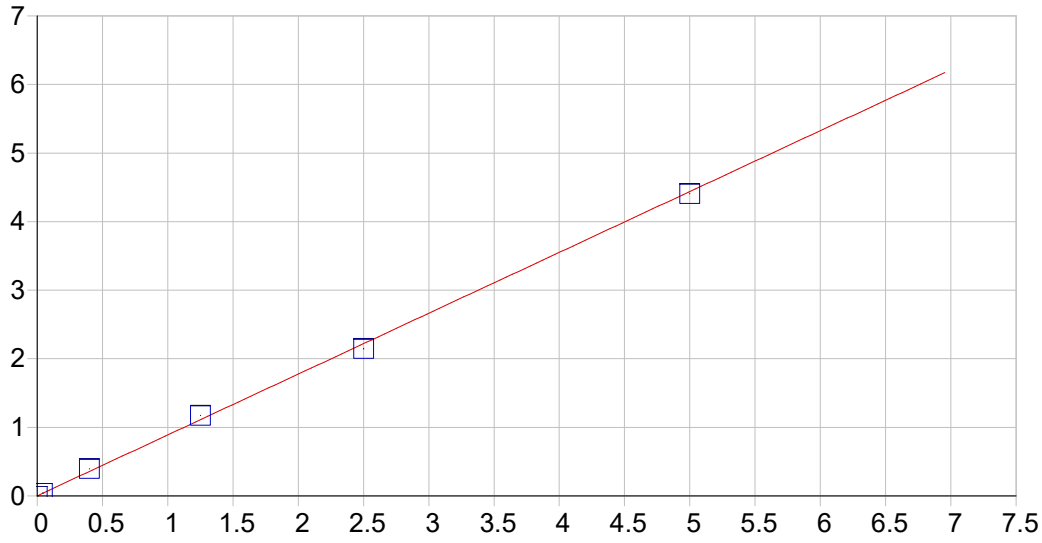


V 292.402 {115}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000336	Re-Slope:	1.000000
A1 (Gain):	0.130116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.003189		
Predicted MQL:	0.010628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.04000	.04049	.000	1.23	.00474	.000	1
S3	1.2500	1.2684	.018	1.47	.16233	.002	1
S4	2.5000	2.4607	-.039	-1.57	.31510	.001	1
S5	5.0000	5.0225	.023	.450	.64369	.002	1
S2	.40000	.39796	-.002	-.510	.05069	.000	1

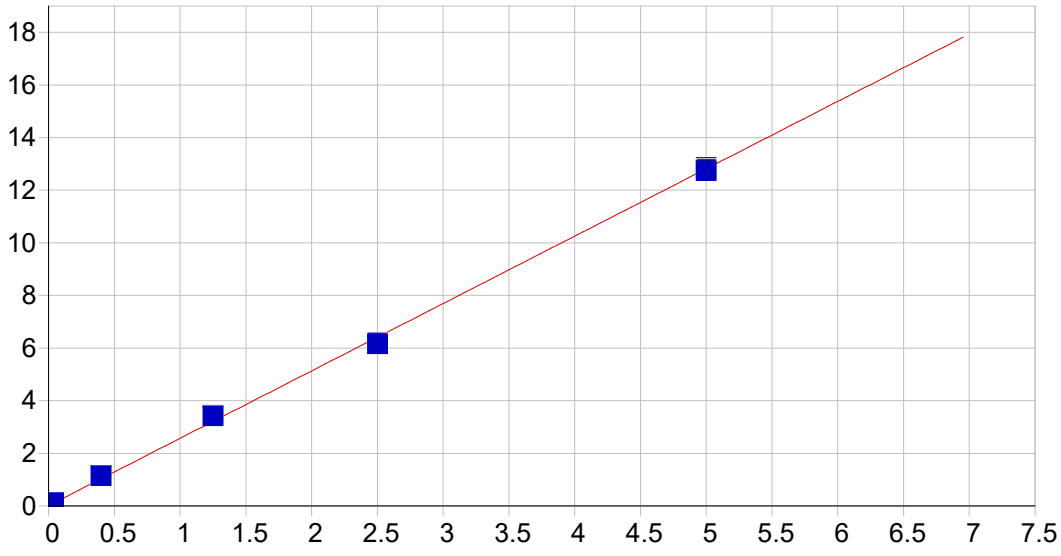


Zn 206.200 {464}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001964	Re-Slope:	1.000000
A1 (Gain):	0.887365	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999335	Status:	OK.
Std Error of Est:	0.000760		
Predicted MDL:	0.000271		
Predicted MQL:	0.000905		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00195	.000	1
S1	.04000	.04585	.006	14.6	.04265	.000	1
S3	1.2500	1.3200	.070	5.60	1.1733	.001	1
S4	2.5000	2.4186	-.081	-3.25	2.1482	.005	1
S5	5.0000	4.9630	-.037	-.741	4.4059	.002	1
S2	.40000	.44253	.043	10.6	.39465	.003	1

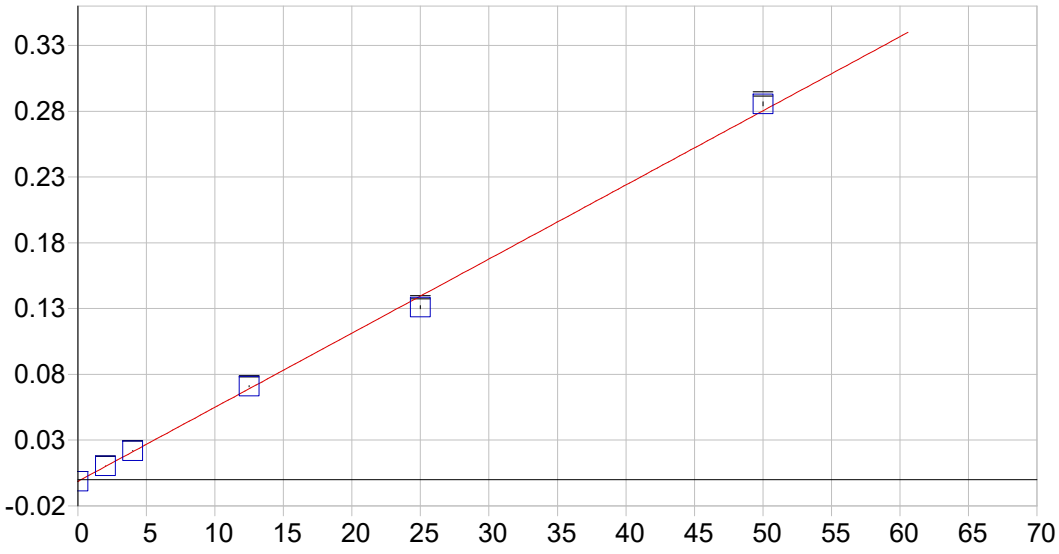


Zn 213.856 {158}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008657	Re-Slope:	1.000000
A1 (Gain):	2.561384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999206	Status:	OK.
Std Error of Est:	0.002414		
Predicted MDL:	0.000363		
Predicted MQL:	0.001211		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00863	.001	1
S1	.04000	.04640	.006	16.0	.12823	.001	1
S3	1.2500	1.3302	.080	6.41	3.4380	.006	1
S4	2.5000	2.4014	-.099	-3.94	6.2042	.014	1
S5	5.0000	4.9692	-.031	-.615	12.826	.027	1
S2	.40000	.44277	.043	10.7	1.1499	.003	1

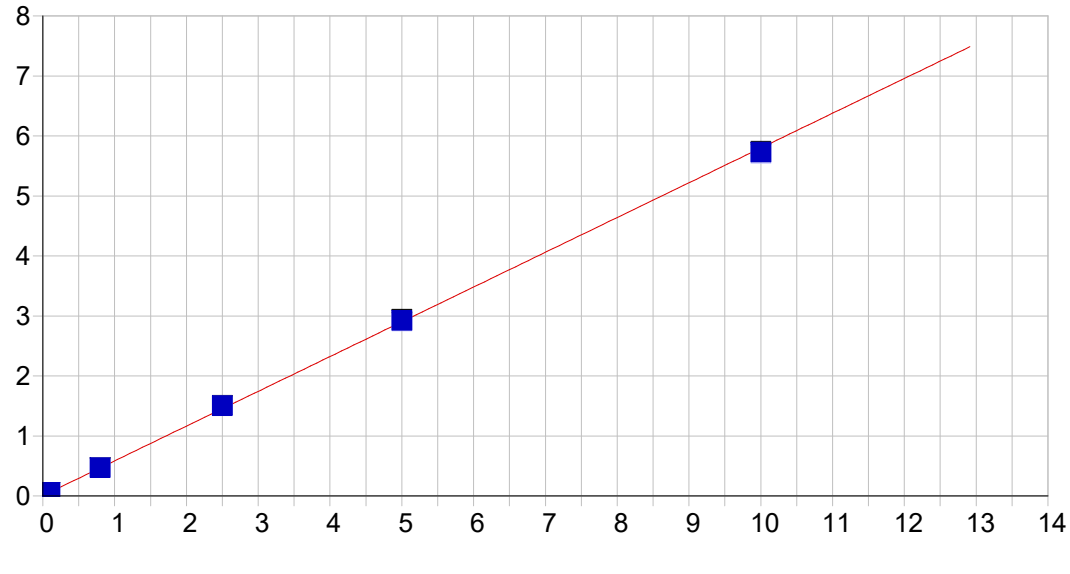


K 766.490 { 44}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001336	Re-Slope:	1.000000
A1 (Gain):	0.005634	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999350	Status:	OK.
Std Error of Est:	0.000108		
Predicted MDL:	0.047049		
Predicted MQL:	0.156829		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00011	-.000	.000	-.00134	.000	1
S2	4.0000	4.1320	.132	3.30	.02194	.000	1
S3	12.500	12.833	.333	2.66	.07096	.000	1
S4	25.000	23.519	-1.48	-5.93	.13116	.001	1
S5	50.000	50.940	.940	1.88	.28565	.002	1
S1	2.0000	2.0763	.076	3.82	.01036	.000	1

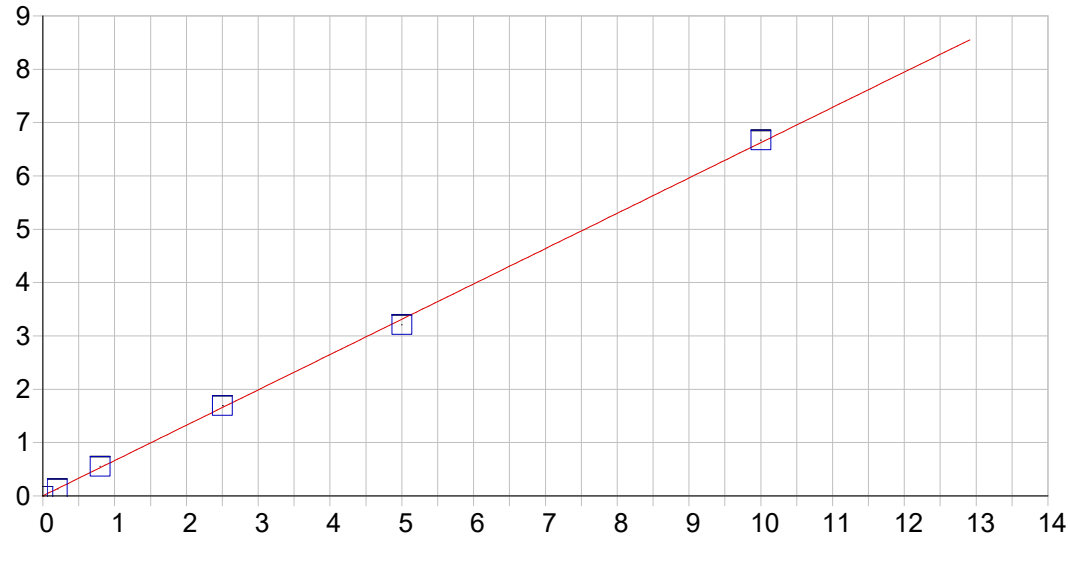


B 249.678 {135}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004743	Re-Slope:	1.000000
A1 (Gain):	0.579387	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.000478		
Predicted MDL:	0.000969		
Predicted MQL:	0.003232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00474	.000	1
S1	.10000	.10141	.001	1.41	.06316	.001	1
S3	2.5000	2.5845	.085	3.38	1.4970	.010	1
S4	5.0000	5.0319	.032	.638	2.9097	.024	1
S5	10.000	9.8794	-.121	-1.21	5.7078	.015	1
S2	.80000	.80279	.003	.349	.46820	.006	1

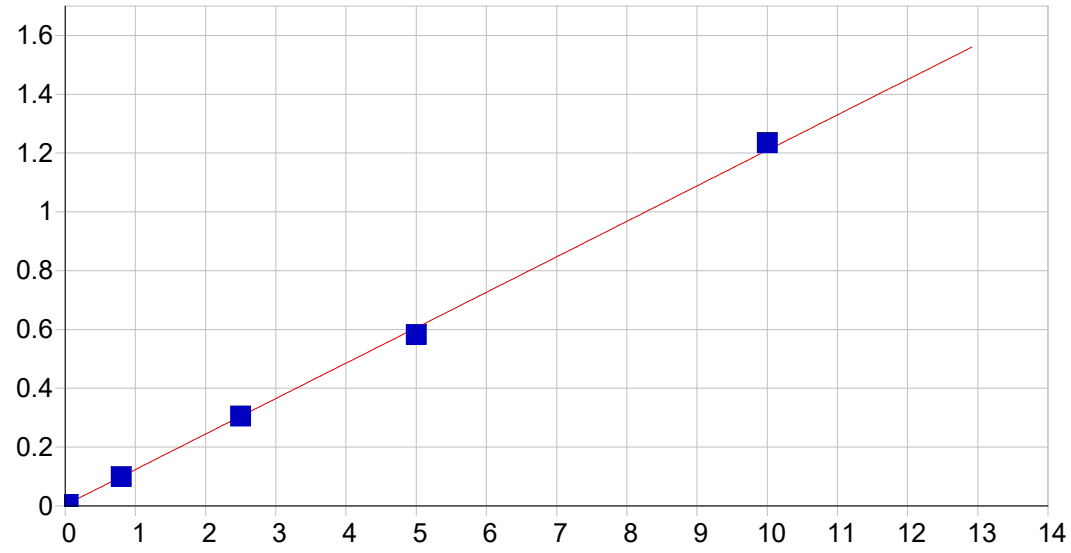


Mo 202.030 {467}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000756	Re-Slope:	1.000000
A1 (Gain):	0.662259	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000975		
Predicted MDL:	0.000379		
Predicted MQL:	0.001262		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00075	.000	1
S1	.20000	.20044	.000	.221	.13350	.001	1
S3	2.5000	2.5516	.052	2.06	1.6906	.001	1
S4	5.0000	4.8484	-.152	-3.03	3.2116	.006	1
S5	10.000	10.070	.070	.702	6.6698	.007	1
S2	.80000	.82938	.029	3.67	.55002	.005	1

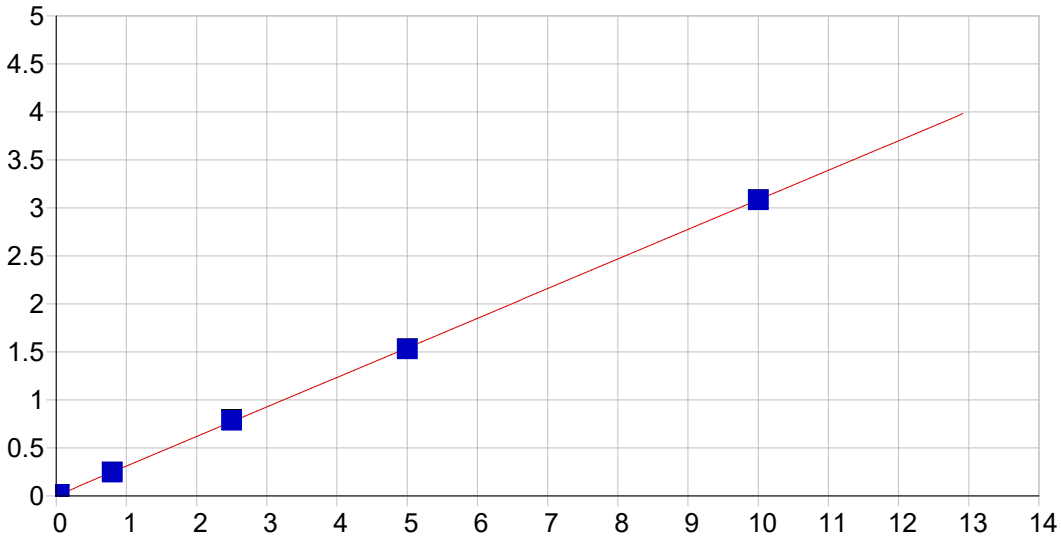


Sn 189.989 {478}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003122	Re-Slope:	1.000000
A1 (Gain):	0.120581	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999584	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.001094		
Predicted MQL:	0.003647		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00312	.000	1
S1	.04000	.02987	-.010	-25.3	.00672	.000	1
S3	2.5000	2.5025	.003	.100	.30457	.000	1
S4	5.0000	4.7985	-.201	-4.03	.58112	.001	1
S5	10.000	10.213	.213	2.13	1.2334	.001	1
S2	.80000	.79632	-.004	-.460	.09905	.001	1

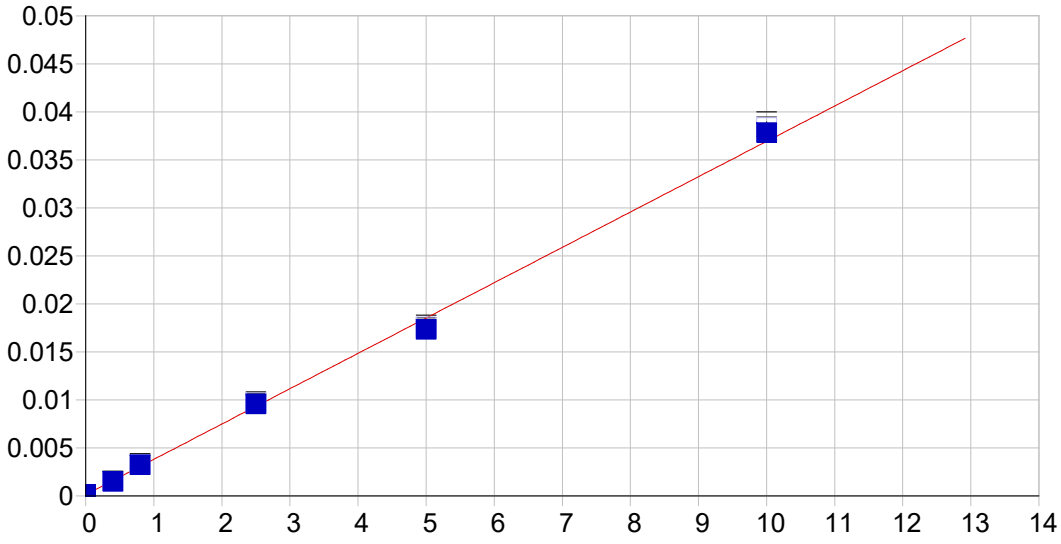


Ti 336.121 {100}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001490	Re-Slope:	1.000000
A1 (Gain):	0.308225	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000093		
Predicted MDL:	0.001738		
Predicted MQL:	0.005794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00149	.001	1
S1	.04000	.03839	-.002	-4.04	.01331	.000	1
S3	2.5000	2.5520	.052	2.08	.78781	.010	1
S4	5.0000	4.9595	-.041	-.811	1.5296	.004	1
S5	10.000	9.9948	-.005	-.052	3.0810	.001	1
S2	.80000	.79533	-.005	-.584	.24654	.002	1

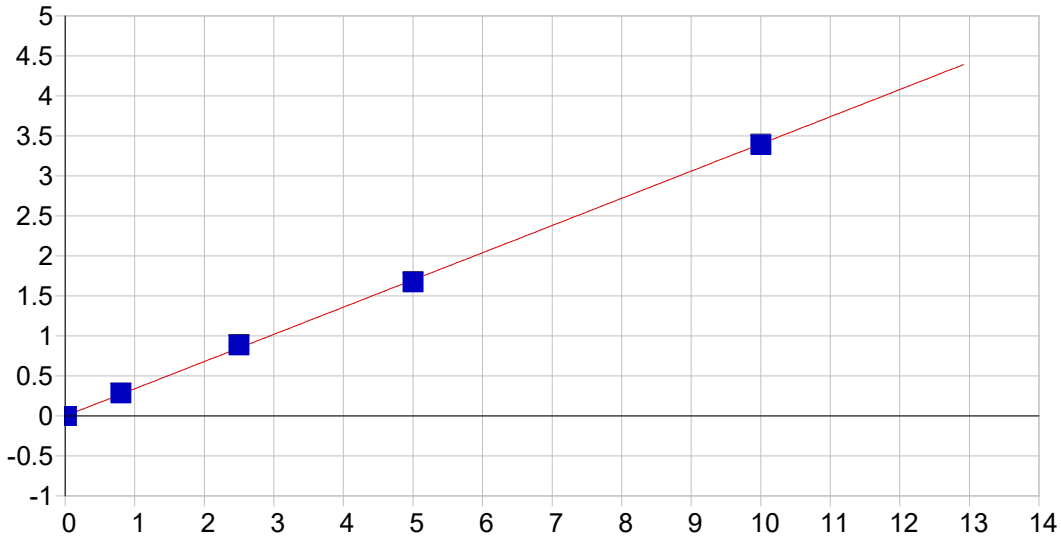


Si 288.158 {117}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000125	Re-Slope:	1.000000
A1 (Gain):	0.003681	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999123	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.015177		
Predicted MQL:	0.050588		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00012	.000	1
S1	.40000	.37185	-.028	-7.04	.00150	.000	1
S3	2.5000	2.5635	.064	2.54	.00970	.000	1
S4	5.0000	4.6722	-.328	-6.56	.01759	.000	1
S5	10.000	10.246	.246	2.46	.03838	.001	1
S2	.80000	.84605	.046	5.76	.00328	.000	1

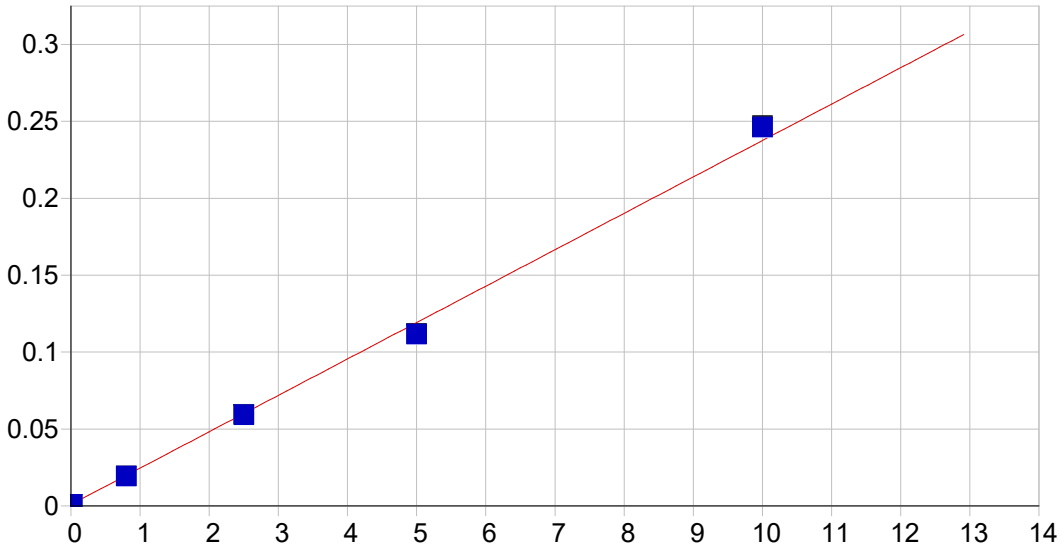


P 177.495 {490}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000855	Re-Slope:	1.000000
A1 (Gain):	0.340063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999373	Status:	OK.
Std Error of Est:	0.000282		
Predicted MDL:	0.000329		
Predicted MQL:	0.001098		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00085	.000	1
S1	.02000	.00228	-.018	-88.6	-.00007	.000	1
S3	2.5000	2.6042	.104	4.17	.88461	.006	1
S4	5.0000	4.9171	-.083	-1.66	1.6710	.006	1
S5	10.000	9.9627	-.037	-.373	3.3865	.008	1
S2	.80000	.83375	.034	4.22	.28263	.002	1

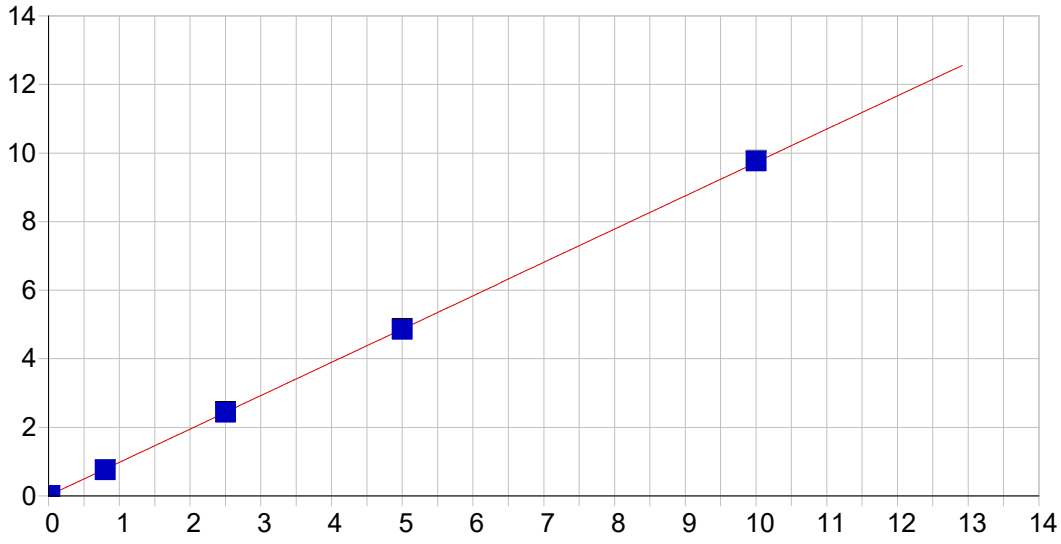


S 182.034 {485}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000875	Re-Slope:	1.000000
A1 (Gain):	0.023669	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999029	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.005176		
Predicted MQL:	0.017254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00088	.000	1
S1	.02000	.01794	-.002	-10.3	.00128	.000	1
S3	2.5000	2.4680	-.032	-1.28	.05914	.000	1
S4	5.0000	4.6815	-.319	-6.37	.11137	.000	1
S5	10.000	10.374	.374	3.74	.24579	.001	1
S2	.80000	.77869	-.021	-2.66	.01926	.000	1

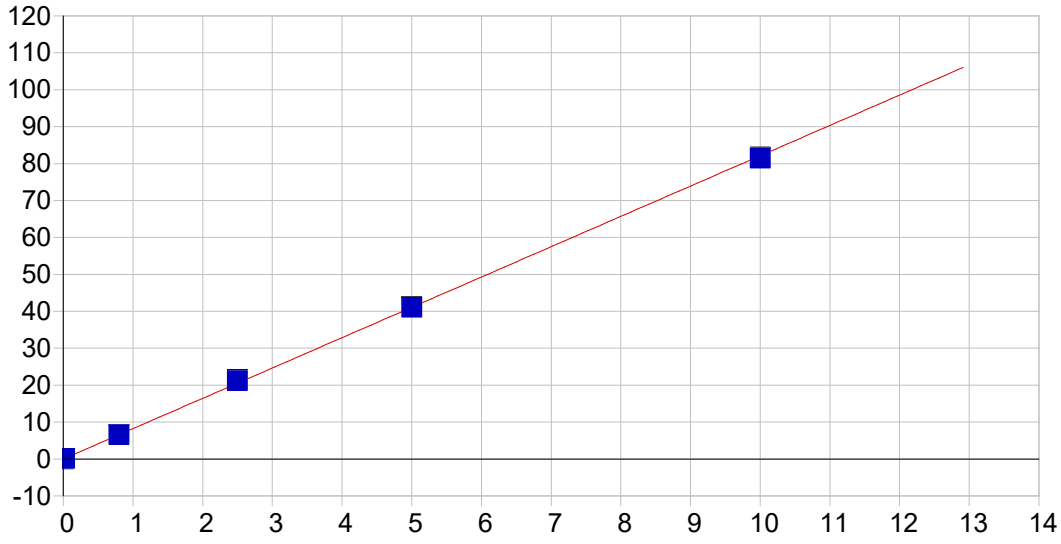


Li 670.784 { 50}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007214	Re-Slope:	1.000000
A1 (Gain):	0.971762	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000205		
Predicted MDL:	0.001767		
Predicted MQL:	0.005890		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00721	.002	1
S5	10.000	10.039	.039	.393	9.7708	.021	1
S4	5.0000	4.9873	-.013	-.254	4.8576	.020	1
S3	2.5000	2.4966	-.003	-.137	2.4352	.026	1
S1	.02000	.02294	.003	14.7	.02985	.001	1
S2	.80000	.77385	-.026	-3.27	.75983	.007	1

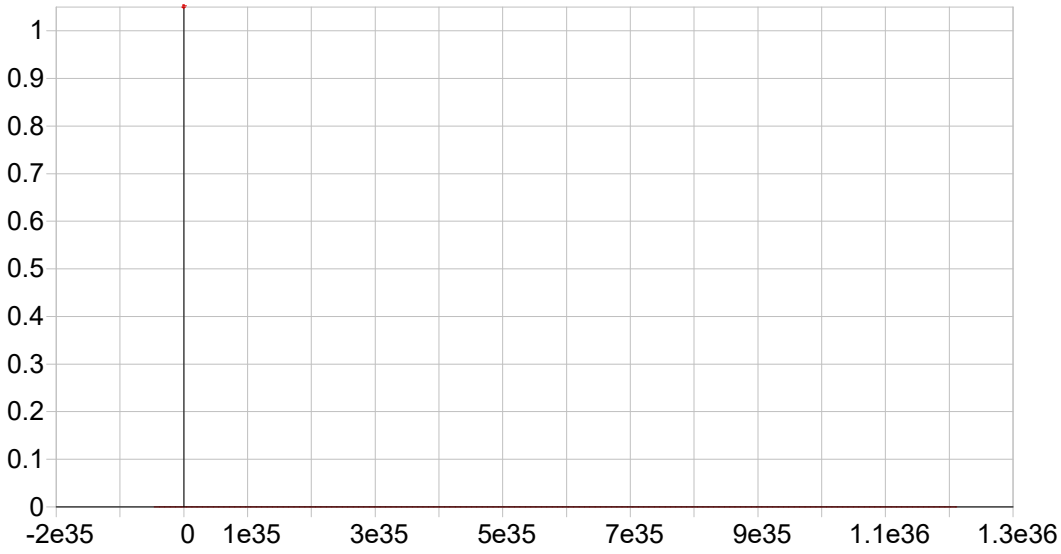


Sr 407.771 { 83}

Date of Fit:	12/9/2025 14:18:19	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000397	Re-Slope:	1.000000
A1 (Gain):	8.212514	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.002589		
Predicted MDL:	0.000110		
Predicted MQL:	0.000367		

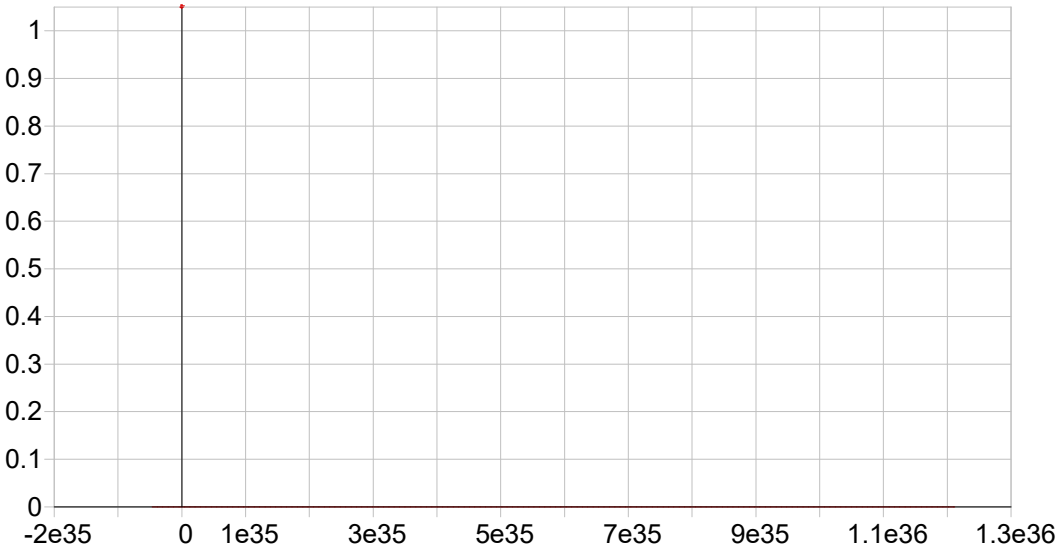
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00039	.001	1
S1	.02000	.02085	.001	4.23	.17239	.001	1
S3	2.5000	2.5811	.081	3.25	21.218	.253	1
S4	5.0000	4.9994	-.001	-.011	41.098	.249	1
S5	10.000	9.9196	-.080	-.804	81.544	.198	1
S2	.80000	.79899	-.001	-.127	6.5684	.056	1



Y 224.306 {450}*

Date of Fit:	12/9/2025 14:18:19	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				

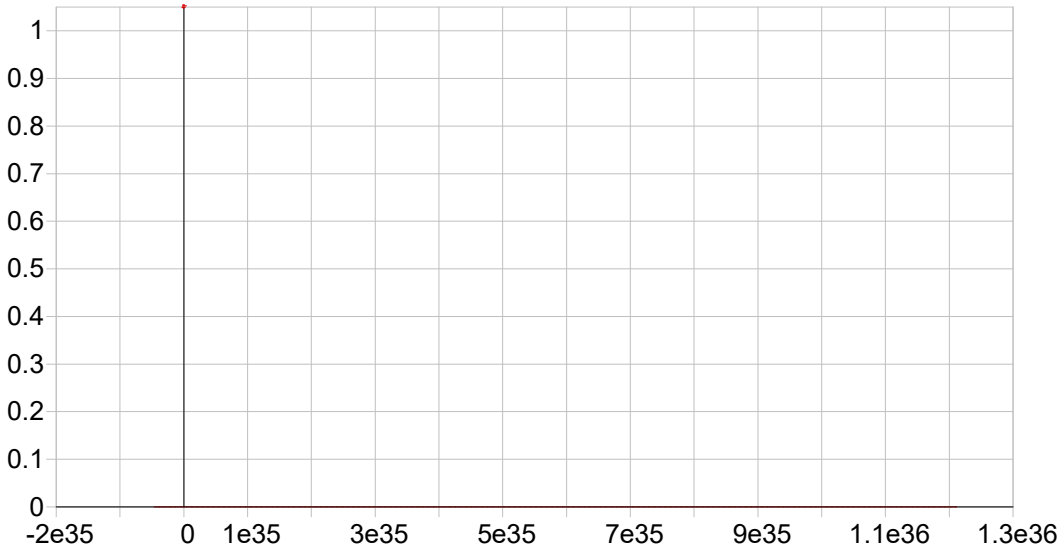
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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		
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					

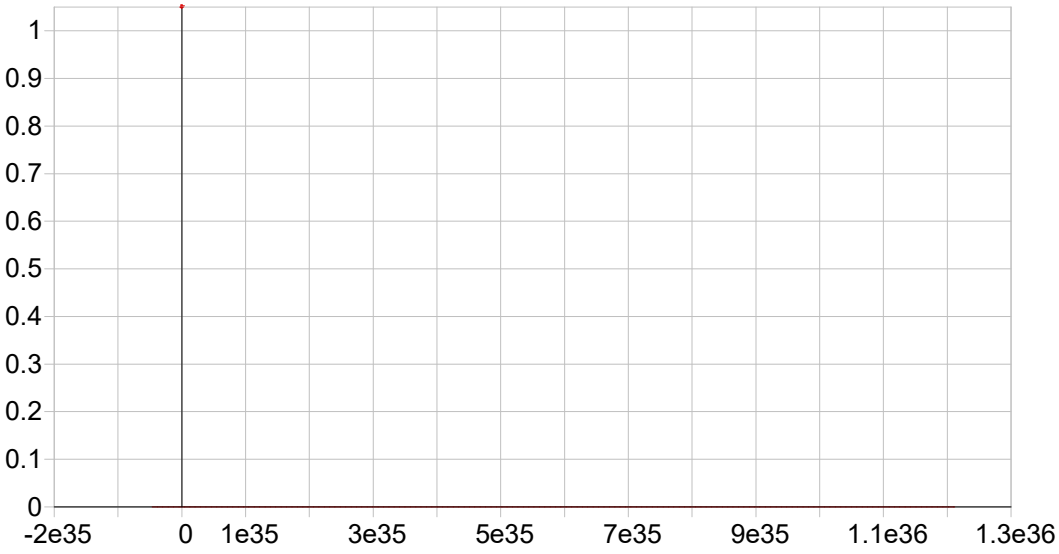
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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					

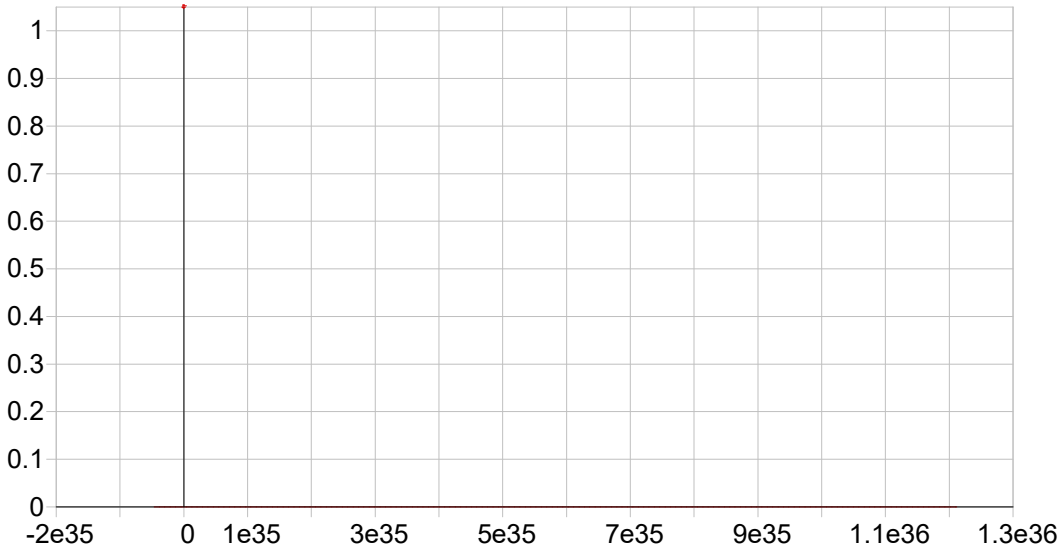
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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		
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:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S0 Acquired: 12/9/2025 11:38:27 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**-.00015**	**.00020**	**.00023**	**.00067**	**.00089**	**.00025**	**.02508**	**-.00237**
Stddev	.00009	.00012	.00033	.00009	.00032	.00027	.00172	.00055
%RSD	60.515	60.394	146.46	14.083	35.644	109.88	6.8626	23.426
#1	-.00024	.00011	.00025	.00064	.00123	.00055	.02318	-.00278
#2	-.00007	.00015	.00055	.00059	.00081	.00014	.02553	-.00174
#3	-.00013	.00034	-.00012	.00077	.00061	.00004	.02653	-.00259

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	**-.00080**	**.00127**	**.00013**	**-.00018**	**.00057**	**.00007**	**.00019**	**-.00002**
Stddev	.00005	.00027	.00004	.00027	.00028	.00001	.00015	.00021
%RSD	6.5750	21.013	31.729	152.53	48.163	19.493	77.256	1208.3
#1	-.00081	.00157	.00008	-.00043	.00078	.00007	.00016	.00021
#2	-.00074	.00120	.00016	.00011	.00026	.00005	.00036	-.00005
#3	-.00084	.00105	.00015	-.00020	.00068	.00007	.00007	-.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	**-.00118**	**-.00070**	**.00154**	**-.00034**	**.00863**	**-.00134**	**.00474**	**.00075**
Stddev	.00017	.00007	.00027	.00025	.00055	.00013	.00014	.00012
%RSD	14.297	9.8605	17.437	74.568	6.3389	9.7363	3.0116	15.698
#1	-.00137	-.00072	.00126	-.00005	.00804	-.00148	.00490	.00087
#2	-.00113	-.00076	.00158	-.00053	.00912	-.00129	.00464	.00075
#3	-.00104	-.00063	.00179	-.00043	.00872	-.00123	.00468	.00064

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	**.00312**	**.00149**	**.00012**	**-.00085**	**.00088**	**.00721**	**.00039**
Stddev	.00007	.00067	.00003	.00012	.00014	.00202	.00060
%RSD	2.3021	44.901	23.446	13.852	15.434	27.978	153.95
#1	.00315	.00085	.00016	-.00092	.00079	.00813	-.00018
#2	.00318	.00143	.00011	-.00091	.00080	.00861	.00101
#3	.00304	.00219	.00011	-.00071	.00103	.00490	.00033

Sample Name: S0 Acquired: 12/9/2025 11:38:27 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**2980.4**	**57120.**	**7234.2**	**2199.0**	**4152.5**
Stddev	3.3	59.	8.7	15.8	6.4
%RSD	.11209	.10310	.12086	.71965	.15459
#1	2984.2	57067.	7242.7	2180.8	4156.0
#2	2977.8	57110.	7234.7	2209.3	4145.1
#3	2979.3	57183.	7225.2	2207.0	4156.4

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S1 Acquired: 12/9/2025 11:43:16 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**.00085**	**.00195**	**.00213**	**.00147**	**.00585**	**.01038**	**.28036**	**.03530**
Stddev	.00003	.00007	.00035	.00011	.00009	.00053	.00227	.00013
%RSD	3.6244	3.5443	16.328	7.2798	1.6068	5.1297	.80965	.37209
#1	.00082	.00202	.00234	.00149	.00596	.01021	.28251	.03515
#2	.00088	.00195	.00232	.00135	.00578	.00996	.28058	.03539
#3	.00084	.00188	.00173	.00156	.00581	.01098	.27799	.03536

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	**.01493**	**.11749**	**.00213**	**.02816**	**.01615**	**.00045**	**.00838**	**.02191**
Stddev	.00033	.00111	.00006	.00023	.00026	.00003	.00035	.00021
%RSD	2.1972	.94758	2.7957	.81249	1.6028	5.7080	4.1927	.93952
#1	.01529	.11645	.00210	.02826	.01640	.00042	.00827	.02207
#2	.01486	.11866	.00210	.02832	.01616	.00046	.00877	.02168
#3	.01464	.11736	.00220	.02789	.01588	.00047	.00809	.02198

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	**.02100**	**.00152**	**.02366**	**.00474**	**.12823**	**.01036**	**.06316**	**.13350**
Stddev	.00011	.00014	.00036	.00027	.00088	.00013	.00056	.00067
%RSD	.51895	9.3088	1.5237	5.6096	.68571	1.2854	.89049	.50532
#1	.02095	.00143	.02330	.00448	.12923	.01045	.06273	.13289
#2	.02093	.00169	.02366	.00501	.12787	.01021	.06295	.13339
#3	.02113	.00145	.02402	.00473	.12758	.01043	.06379	.13422

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	**.00672**	**.01331**	**.00150**	**-.00007**	**.00128**	**.02985**	**.17239**
Stddev	.00012	.00038	.00004	.00011	.00003	.00052	.00116
%RSD	1.7270	2.8610	2.6030	153.67	2.1814	1.7297	.67465
#1	.00666	.01315	.00154	-.00005	.00130	.03045	.17105
#2	.00664	.01375	.00146	-.00019	.00125	.02958	.17305
#3	.00685	.01304	.00148	.00003	.00129	.02952	.17308

Sample Name: S1 Acquired: 12/9/2025 11:43:16 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**2980.3**	**56195.**	**7058.7**	**2182.2**	**4124.8**
Stddev	10.5	76.	13.4	4.1	10.0
%RSD	.35323	.13506	.18921	.18872	.24273
#1	2988.9	56112.	7070.9	2186.1	4129.8
#2	2983.5	56261.	7044.4	2182.5	4131.2
#3	2968.6	56213.	7060.8	2177.9	4113.2

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S2 Acquired: 12/9/2025 11:47:39 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**.03864**	**.03213**	**.13708**	**.03198**	**.07907**	**.14537**	**4.0885**	**.23968**	**1.0369**
Stddev	.00025	.00033	.00089	.00044	.00055	.00115	.0308	.00266	.0069
%RSD	.64072	1.0221	.64805	1.3883	.69512	.79083	.75310	1.1088	.66319
#1	.03891	.03194	.13808	.03233	.07970	.14536	4.0680	.23848	1.0448
#2	.03843	.03195	.13637	.03212	.07866	.14652	4.1239	.24273	1.0321
#3	.03858	.03251	.13680	.03148	.07886	.14423	4.0737	.23784	1.0339

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	**.23195**	**.03221**	**.38198**	**.15257**	**.00304**	**.15919**	**.04242**	**.21872**	**.04521**
Stddev	.00344	.00018	.00286	.00128	.00005	.00117	.00039	.00162	.00032
%RSD	1.4829	.54384	.74955	.83650	1.5450	.73269	.92354	.73979	.71271
#1	.22936	.03240	.38520	.15405	.00308	.15874	.04200	.22032	.04558
#2	.23585	.03216	.37971	.15187	.00299	.16051	.04278	.21708	.04496
#3	.23062	.03206	.38104	.15180	.00306	.15832	.04248	.21877	.04510

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	**.04535**	**.05069**	**1.1499**	**.02194**	**.46820**	**.55002**	**.09905**	**.24654**	**.00328**
Stddev	.00038	.00042	.0029	.00021	.00630	.00518	.00081	.00170	.00008
%RSD	.83290	.82682	.25483	.94739	1.3449	.94201	.81550	.68847	2.3590
#1	.04551	.05059	1.1526	.02185	.46568	.55600	.09993	.24556	.00322
#2	.04491	.05114	1.1468	.02180	.47536	.54700	.09835	.24850	.00337
#3	.04562	.05032	1.1503	.02218	.46355	.54706	.09885	.24556	.00325

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.28263**	**.01926**	**.75983**	**6.5684**
Stddev	.00203	.00009	.00654	.0565
%RSD	.71917	.48391	.86079	.86012
#1	.28482	.01928	.75528	6.5419
#2	.28080	.01915	.76733	6.6333
#3	.28227	.01933	.75688	6.5300

Sample Name: S2 Acquired: 12/9/2025 11:47:39 Type: Cal
Method: 6010-200.7 NEW(v394) 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	2953.6	55952.	7144.3	2159.7	4021.9
Stddev	27.0	368.	72.2	11.3	32.7
%RSD	.91456	.65735	1.0100	.52205	.81272
#1	2922.9	55535.	7180.5	2147.6	3986.2
#2	2973.7	56230.	7061.2	2169.8	4050.3
#3	2964.3	56093.	7191.2	2161.9	4029.1

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S3 Acquired: 12/9/2025 11:51:43 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**.11727**	**.09760**	**.42779**	**.09328**	**.24066**	**.45599**	**13.387**	**.75677**	**3.2104**
Stddev	.00043	.00173	.00012	.00012	.00073	.00534	.155	.00690	.0017
%RSD	.36455	1.7746	.02848	.13296	.30233	1.1718	1.1574	.91209	.05311
#1	.11762	.09702	.42788	.09341	.24150	.45513	13.439	.75962	3.2122
#2	.11739	.09954	.42765	.09317	.24027	.45112	13.213	.74890	3.2089
#3	.11679	.09623	.42784	.09325	.24021	.46171	13.510	.76179	3.2101

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	**.72062**	**.09842**	**1.1981**	**.47521**	**.00952**	**.51260**	**.13255**	**.68728**	**.14087**
Stddev	.00871	.00039	.0013	.00079	.00009	.00570	.00181	.00050	.00051
%RSD	1.2085	.39519	.10796	.16572	.89706	1.1115	1.3686	.07205	.35955
#1	.72098	.09844	1.1969	.47602	.00950	.51268	.13269	.68690	.14072
#2	.71174	.09802	1.1979	.47445	.00944	.50686	.13067	.68710	.14045
#3	.72915	.09880	1.1995	.47515	.00961	.51825	.13429	.68784	.14143

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	**.14133**	**.16233**	**3.4380**	**.07096**	**1.4970**	**1.6906**	**.30457**	**.78781**	**.00970**
Stddev	.00066	.00238	.0057	.00039	.0095	.0010	.00027	.00982	.00009
%RSD	.46464	1.4652	.16468	.55053	.63581	.06238	.08815	1.2470	.95864
#1	.14115	.16235	3.4441	.07074	1.5025	1.6909	.30488	.78911	.00966
#2	.14078	.15994	3.4369	.07074	1.4860	1.6894	.30445	.77740	.00962
#3	.14206	.16469	3.4329	.07141	1.5024	1.6915	.30438	.79692	.00980

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.88461**	**.05914**	**2.4352**	**21.218**
Stddev	.00566	.00020	.0262	.253
%RSD	.63940	.34552	1.0781	1.1908
#1	.87826	.05894	2.4385	21.312
#2	.88648	.05935	2.4075	20.931
#3	.88910	.05912	2.4597	21.409

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S3 Acquired: 12/9/2025 11:51:43 Type: Cal
Method: 6010-200.7 NEW(v394) 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	2912.7	55062.	6853.1	2181.3	3869.1
Stddev	7.1	160.	70.6	10.8	5.3
%RSD	.24437	.29103	1.0298	.49309	.13824
#1	2907.2	55044.	6820.5	2173.3	3863.7
#2	2920.8	55230.	6934.1	2193.5	3874.4
#3	2910.2	54911.	6804.7	2177.1	3869.2

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S4 Acquired: 12/9/2025 11:55:46 Type: Cal
Method: 6010-200.7 NEW(v394) 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	.22101	.18205	.81156	.17227	.45321	.87569	26.394	1.4509	6.1153
Stddev	.00044	.00388	.00071	.00077	.00102	.00188	.175	.0107	.0048
%RSD	.19925	2.1299	.08723	.44422	.22550	.21507	.66228	.73758	.07809
#1	.22138	.18646	.81210	.17287	.45408	.87776	26.586	1.4621	6.1208
#2	.22052	.18051	.81181	.17255	.45345	.87409	26.245	1.4498	6.1121
#3	.22113	.17918	.81076	.17141	.45209	.87521	26.349	1.4408	6.1131

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	1.3780	.18210	2.2955	.87411	.01653	.99644	.25501	1.3008	.25943
Stddev	.0050	.00025	.0023	.00038	.00014	.00423	.00043	.0014	.00073
%RSD	.36458	.13735	.10154	.04369	.86539	.42403	.16938	.10420	.28317
#1	1.3838	.18238	2.2982	.87450	.01641	1.0005	.25491	1.3022	.25892
#2	1.3753	.18188	2.2941	.87410	.01648	.99207	.25465	1.2995	.25909
#3	1.3750	.18206	2.2943	.87374	.01669	.99674	.25549	1.3006	.26027

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	.26695	.31510	6.2042	.13116	2.9097	3.2116	.58112	1.5296	.01759
Stddev	.00197	.00056	.0140	.00122	.0244	.0061	.00105	.0044	.00022
%RSD	.73750	.17755	.22575	.92794	.83731	.19031	.18059	.28698	1.2235
#1	.26663	.31573	6.2068	.13008	2.9367	3.2172	.58226	1.5343	.01738
#2	.26516	.31467	6.1890	.13093	2.9031	3.2126	.58089	1.5257	.01758
#3	.26906	.31489	6.2167	.13248	2.8894	3.2051	.58020	1.5287	.01781

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6710	.11137	4.8576	41.098
Stddev	.0059	.00035	.0203	.249
%RSD	.34986	.31365	.41829	.60686
#1	1.6769	.11177	4.8799	41.374
#2	1.6652	.11116	4.8402	40.889
#3	1.6709	.11118	4.8526	41.030

Sample Name: S4 Acquired: 12/9/2025 11:55:46 Type: Cal
Method: 6010-200.7 NEW(v394) 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	2897.0	56677.	6632.5	2226.0	3781.8
Stddev	5.6	155.	64.1	12.1	7.3
%RSD	.19412	.27353	.96692	.54452	.19382
#1	2894.3	56580.	6559.2	2216.5	3776.1
#2	2893.3	56855.	6659.7	2239.6	3779.3
#3	2903.5	56595.	6678.5	2221.8	3790.1

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S5 Acquired: 12/9/2025 11:59:52 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**.47378**	**.38819**	**1.7148**	**.36659**	**.95794**	**1.7938**	**52.516**	**2.8804**	**12.984**
Stddev	.00145	.00454	.0020	.00050	.00094	.0074	.357	.0038	.012
%RSD	.30532	1.1683	.11494	.13561	.09784	.41184	.67983	.13251	.09127
#1	.47480	.39057	1.7164	.36715	.95708	1.7853	52.366	2.8848	12.985
#2	.47441	.39104	1.7153	.36638	.95894	1.7981	52.924	2.8786	12.996
#3	.47212	.38296	1.7126	.36622	.95780	1.7980	52.258	2.8778	12.972

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	**2.7792**	**.38328**	**4.8609**	**1.8123**	**.03535**	**1.9685**	**.52145**	**2.7473**	**.54964**
Stddev	.0108	.00089	.0027	.0010	.00007	.0036	.00345	.0011	.00038
%RSD	.39020	.23267	.05534	.05296	.18987	.18129	.66100	.03942	.06896
#1	2.7740	.38323	4.8608	1.8112	.03529	1.9689	.51757	2.7474	.55008
#2	2.7718	.38242	4.8637	1.8130	.03533	1.9648	.52263	2.7483	.54943
#3	2.7916	.38420	4.8583	1.8127	.03542	1.9719	.52416	2.7461	.54941

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	**.57391**	**.64369**	**12.826**	**.28565**	**5.7078**	**6.6698**	**1.2334**	**3.0810**	**.03838**
Stddev	.00110	.00178	.027	.00162	.0149	.0070	.0012	.0014	.00060
%RSD	.19230	.27594	.21244	.56757	.26117	.10560	.09502	.04630	1.5629
#1	.57416	.64176	12.857	.28407	5.7248	6.6749	1.2342	3.0799	.03773
#2	.57271	.64525	12.809	.28559	5.6966	6.6728	1.2338	3.0805	.03849
#3	.57487	.64405	12.812	.28731	5.7021	6.6618	1.2320	3.0826	.03891

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3865**	**.24579**	**9.7708**	**81.544**
Stddev	.0084	.00071	.0211	.198
%RSD	.24772	.28683	.21593	.24324
#1	3.3928	.24652	9.7769	81.319
#2	3.3898	.24574	9.7473	81.619
#3	3.3770	.24512	9.7881	81.694

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: S5 Acquired: 12/9/2025 11:59:52 Type: Cal
Method: 6010-200.7 NEW(v394) 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	**2744.8**	**53370.**	**6732.9**	**2037.9**	**3502.8**
Stddev	4.8	112.	28.6	5.4	11.8
%RSD	.17545	.20929	.42465	.26693	.33690
#1	2739.3	53278.	6700.0	2033.0	3490.1
#2	2746.9	53494.	6751.5	2043.7	3504.6
#3	2748.2	53339.	6747.2	2037.0	3513.5

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICV01 Acquired: 12/9/2025 12:15:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**3.856149**	**3.761979**	**3.752447**	**3.934050**	**3.965272**	**7.590139**
Stddev	.021209	.051084	.018702	.028942	.017938	.020385
%RSD	.5499980	1.357890	.4984057	.7356905	.4523730	.2685668
#1	3.876948	3.820260	3.760028	3.964496	3.972172	7.566624
#2	3.856947	3.740717	3.766168	3.930762	3.978736	7.600973
#3	3.834553	3.724961	3.731144	3.906892	3.944909	7.602818

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.456266**	**.1887452**	**1.897798**	**18.98653**	**.7878617**	**1.890109**
Stddev	.065392	.0007684	.008530	.07233	.0032847	.007771
%RSD	.8770011	.4070913	.4494450	.3809580	.4169111	.4111593
#1	7.394344	.1883748	1.903406	18.92393	.7849353	1.895520
#2	7.449806	.1882322	1.902007	18.96996	.7914145	1.893603
#3	7.524648	.1896286	1.887982	19.06571	.7872354	1.881204

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9747614**	**3.830360**	**1.869262**	**19.02904**	**1.890808**	**.9380323**
Stddev	.0016551	.046299	.018675	.14881	.006984	.0026614
%RSD	.1697950	1.208735	.9990342	.7819978	.3693700	.2837211
#1	.9756377	3.781508	1.852659	18.85914	1.893861	.9349695
#2	.9757941	3.873593	1.865647	19.13621	1.895746	.9393464
#3	.9728524	3.835978	1.889480	19.09177	1.882817	.9397811

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.46908**	**1.934225**	**1.984083**	**19.13264**	F **.0058745**	F **.0034296**
Stddev	.23873	.006672	.011185	.17359	.0002995	.0000926
%RSD	1.292583	.3449379	.5637358	.9072927	5.098719	2.700338
#1	18.19346	1.926523	1.983976	18.93696	.0056716	.0033944
#2	18.60286	1.937941	1.995321	19.19283	.0057333	.0035346
#3	18.61092	1.938213	1.972952	19.26811	.0062185	.0033597

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICV01 Acquired: 12/9/2025 12:15:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.012988	F -.002031	F -.031388	F .0004302	F .0044426	F -.003719
Stddev	.000449	.001291	.007057	.0003337	.0042870	.000532
%RSD	3.455100	63.55844	22.48257	77.58004	96.49646	14.31701
#1	-.012477	-.002511	-.030925	.0000485	.0068588	-.004159
#2	-.013168	-.003012	-.024574	.0006668	.0069761	-.003871
#3	-.013319	-.000569	-.038665	.0005752	-.000507	-.003127

Elem	Sr4077
Units	ppm
Avg	F -.003361
Stddev	.000047
%RSD	1.405772
#1	-.003307
#2	-.003394
#3	-.003383

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2959.510	56451.30	7287.196	2165.026	3938.829
Stddev	7.707	253.31	18.702	16.193	12.922
%RSD	.2604078	.4487234	.2566368	.7479288	.3280752
#1	2957.087	56685.89	7297.714	2173.751	3934.013
#2	2953.306	56182.70	7298.270	2146.342	3929.007
#3	2968.137	56485.32	7265.604	2174.984	3953.468

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LLICV01 Acquired: 12/9/2025 12:19:56 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0211535**	**.0438045**	**.0105972**	**.0219744**	**.0551232**	**.0997475**
Stddev	.0043638	.0012154	.0007194	.0044817	.0020451	.0019628
%RSD	20.62907	2.774489	6.788663	20.39500	3.710122	1.967801
#1	.0214856	.0448241	.0107110	.0218067	.0546936	.0974842
#2	.0253417	.0424596	.0098277	.0175789	.0533270	.1007766
#3	.0166331	.0441297	.0112530	.0265376	.0573490	.1009818

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0994903**	**.0060443**	**.0059766**	**2.029792**	**.0100485**	**.0294941**
Stddev	.0004722	.0000303	.0001119	.020380	.0004165	.0002223
%RSD	.4746085	.5013981	1.871706	1.004045	4.145112	.7536612
#1	.0990009	.0060773	.0060334	2.022433	.0104652	.0297233
#2	.0995266	.0060377	.0060488	2.014114	.0100483	.0294794
#3	.0999432	.0060178	.0058478	2.052830	.0096321	.0292795

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211057**	**.0999099**	**.0206672**	**2.096024**	**.0401148**	**.0103900**
Stddev	.0003683	.0050913	.0009785	.042429	.0000270	.0000781
%RSD	1.745062	5.095932	4.734548	2.024268	.0673343	.7512165
#1	.0211956	.1053758	.0201902	2.095915	.0401364	.0103053
#2	.0207008	.0990517	.0200187	2.053649	.0401236	.0104590
#3	.0214207	.0953022	.0217927	2.138507	.0400845	.0104059

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.025158**	**.0410757**	**.0429350**	**2.051995**	**.1007022**	**.1982713**
Stddev	.012590	.0011567	.0001307	.040702	.0014555	.0004172
%RSD	.6216623	2.816046	.3043841	1.983554	1.445320	.2104452
#1	2.011054	.0421873	.0430508	2.010655	.1001871	.1985799
#2	2.029162	.0411611	.0429609	2.092028	.0995744	.1977965
#3	2.035259	.0398786	.0427933	2.053303	.1023452	.1984374

Sample Name: LLICV01 Acquired: 12/9/2025 12:19:56 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0219533	.0403315	.3652408	F .0023723	F .0257444	.0223526
Stddev	.0001885	.0014117	.0102192	.0001516	.0021405	.0009881
%RSD	.8586913	3.500316	2.797942	6.391522	8.314585	4.420579
#1	.0221634	.0419214	.3571300	.0022746	.0268280	.0220152
#2	.0217991	.0398483	.3618736	.0025470	.0271265	.0234653
#3	.0218973	.0392248	.3767187	.0022953	.0232787	.0215774

Elem	Sr4077
Units	ppm
Avg	.0214213
Stddev	.0001679
%RSD	.7838676
#1	.0212547
#2	.0214188
#3	.0215905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.520	56830.50	7151.152	2252.949	4132.785
Stddev	7.242	166.94	46.531	9.194	4.246
%RSD	.2419307	.2937514	.6506787	.4080768	.1027409
#1	3001.154	56655.20	7165.643	2244.038	4137.687
#2	2992.659	56848.71	7188.714	2252.408	4130.228
#3	2986.746	56987.58	7099.100	2262.401	4130.441

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICB01 Acquired: 12/9/2025 12:24:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001607**	**-.001493**	**.0014904**	**.0023813**	**.0015821**	**-.014491**	**-.000521**
Stddev	.002472	.000844	.0020123	.0006338	.0009177	.006773	.000783
%RSD	153.8886	56.52080	135.0199	26.61697	58.00626	46.73847	150.4727
#1	.000432	-.001677	.0005718	.0019897	.0017997	-.008083	-.000508
#2	-.000895	-.002229	.0001013	.0020416	.0005751	-.013812	-.001310
#3	-.004356	-.000572	.0037980	.0031125	.0023713	-.021577	.000256

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000076**	**-.000036**	**.0006948**	**-.000087**	**-.000237**	**-.000177**	**-.008327**
Stddev	.000075	.000026	.0111452	.000435	.000153	.000390	.006452
%RSD	99.18761	71.01352	1604.093	499.4546	64.57184	220.5278	77.48733
#1	-.000006	-.000027	.0108468	.000073	-.000089	-.000618	-.011936
#2	-.000155	-.000017	-.011231	.000245	-.000394	-.000033	-.000878
#3	-.000066	-.000066	.002469	-.000580	-.000228	.000121	-.012167

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000323**	**.0146163**	**.0002011**	**-.000436**	**-.025934**	**.0011593**	**-.000375**
Stddev	.000634	.0131738	.0003148	.000666	.011655	.0009960	.000161
%RSD	196.2870	90.13083	156.5750	152.7487	44.94102	85.91092	43.01372
#1	-.000901	.0298087	.0004540	-.001046	-.038760	.0013737	-.000254
#2	.000355	.0063564	.0003007	-.000536	-.023049	.0020307	-.000313
#3	-.000423	.0076837	-.000152	.000274	-.015992	.0000736	-.000558

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166059**	**-.001131**	**-.000255**	**-.016026**	**.0008405**	**-.008655**	**.0001112**
Stddev	.0268714	.000477	.000223	.001022	.0008307	.004602	.0001168
%RSD	161.8183	42.13888	87.35603	6.379901	98.83572	53.17537	105.0308
#1	.0331426	-.001362	-.000223	-.015069	.0000329	-.011747	-.000002
#2	-.014400	-.001448	-.000050	-.015906	.0007960	-.003366	.000232
#3	.031075	-.000583	-.000492	-.017103	.0016926	-.010850	.000104

Sample Name: ICB01 Acquired: 12/9/2025 12:24:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.013701	.0004738	-.000079
Stddev	.003843	.0012480	.000054
%RSD	28.04633	263.4249	68.44123
#1	-.015440	.0017873	-.000017
#2	-.016368	.0003305	-.000114
#3	-.009297	-.000696	-.000105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2998.963	57853.29	6981.997	2257.496	4239.508
Stddev	47.645	68.44	37.597	12.346	68.796
%RSD	1.588718	.1183009	.5384802	.5468986	1.622744
#1	2968.223	57925.29	6963.376	2271.547	4190.055
#2	3053.847	57845.51	6957.345	2252.560	4318.074
#3	2974.818	57789.07	7025.270	2248.382	4210.394

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CRI01 Acquired: 12/9/2025 12:28:33 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0191382**	**.0443714**	**.0119829**	**.0193385**	**.0539713**	**.1038261**
Stddev	.0029282	.0023121	.0005272	.0011311	.0030905	.0078588
%RSD	15.30000	5.210725	4.399391	5.848970	5.726197	7.569178
#1	.0189665	.0433440	.0117370	.0181174	.0565426	.0997737
#2	.0162997	.0470191	.0125880	.0195476	.0505426	.1128839
#3	.0221485	.0427511	.0116235	.0203504	.0548286	.0988206

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0961419**	**.0060463**	**.0058390**	**2.021548**	**.0104385**	**.0292622**
Stddev	.0007459	.0000577	.0001386	.006560	.0002530	.0002525
%RSD	.7758587	.9541959	2.374031	.3244852	2.423409	.8628932
#1	.0968906	.0060768	.0057705	2.018655	.0105415	.0291107
#2	.0961361	.0059797	.0057479	2.016931	.0101503	.0295537
#3	.0953988	.0060823	.0059985	2.029056	.0106238	.0291223

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0214672**	**.0866207**	**.0197755**	**2.087622**	**.0397335**	**.0100098**
Stddev	.0003781	.0019474	.0009591	.026240	.0003344	.0002123
%RSD	1.761363	2.248236	4.849731	1.256930	.8417035	2.120890
#1	.0217563	.0886699	.0200651	2.059092	.0398397	.0097945
#2	.0210393	.0847941	.0187051	2.093052	.0400020	.0100160
#3	.0216059	.0863981	.0205565	2.110723	.0393589	.0102190

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.855506**	**.0383929**	**.0418805**	**1.968677**	**.0952379**	**.2017457**
Stddev	.034281	.0021329	.0006221	.077681	.0007584	.0002746
%RSD	1.847529	5.555427	1.485336	3.945846	.7963640	.1360921
#1	1.819102	.0407281	.0412213	1.916717	.0944953	.2016000
#2	1.860246	.0379031	.0419631	1.931337	.0960113	.2015747
#3	1.887171	.0365476	.0424572	2.057977	.0952070	.2020624

Sample Name: CRI01 Acquired: 12/9/2025 12:28:33 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0205617	.0369797	.3603578	F .0020163	F .0119294	.0201717
Stddev	.0010736	.0010757	.0128056	.0000822	.0043482	.0002738
%RSD	5.221225	2.908769	3.553590	4.076933	36.44992	1.357407
#1	.0193440	.0382210	.3468784	.0019817	.0069125	.0199148
#2	.0209695	.0363219	.3723619	.0021101	.0142622	.0201406
#3	.0213716	.0363961	.3618332	.0019570	.0146133	.0204597

Elem	Sr4077
Units	ppm
Avg	.0205048
Stddev	.0000285
%RSD	.1387500
#1	.0204741
#2	.0205302
#3	.0205101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3003.569	57614.84	7235.614	2192.723	4239.464
Stddev	3.944	141.62	14.673	6.722	5.041
%RSD	.1312961	.2457965	.2027909	.3065586	.1189033
#1	3008.090	57775.56	7220.825	2195.788	4244.059
#2	3001.782	57508.38	7235.849	2197.366	4240.261
#3	3000.835	57560.58	7250.168	2185.015	4234.072

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSA01 Acquired: 12/9/2025 12:32:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0051950**	**.0283786**	**.0035082**	**.0012384**	**.0021721**	**239.4946**	**.0050814**
Stddev	.0074682	.0068356	.0033060	.0068731	.0014846	.5186	.0013555
%RSD	143.7576	24.08725	94.23731	555.0106	68.35046	.2165382	26.67569
#1	-.000619	.0269432	.0056847	.0065086	.0025305	239.0986	.0037080
#2	.002587	.0358179	-.000296	.0037422	.0034448	239.3037	.0051179
#3	.013618	.0223746	.005136	-.006536	.0005411	240.0816	.0064183

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014037**	**.0045761**	**225.1127**	**.0459086**	**.0023440**	**-.002362**	**94.16817**
Stddev	.0001199	.0000875	.5855	.0006493	.0000598	.000163	.35680
%RSD	8.537658	1.911242	.2601069	1.414355	2.551267	6.886959	.3788932
#1	.0012653	.0045454	224.5638	.0451589	.0024119	-.002184	93.75811
#2	.0014729	.0046748	225.0452	.0462749	.0023211	-.002503	94.33865
#3	.0014729	.0045082	225.7290	.0462920	.0022990	-.002399	94.40774

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080757**	**243.2521**	**.0060013**	**-.001302**	**.0648921**	**.0054329**	**.0057942**
Stddev	.0004486	1.0661	.0003630	.000342	.0165487	.0020600	.0005010
%RSD	5.554822	.4382560	6.048284	26.25175	25.50188	37.91723	8.645745
#1	.0075586	242.1306	.0059524	-.001486	.0460595	.0060438	.0054855
#2	.0083614	243.3733	.0063863	-.000908	.0771119	.0031365	.0063722
#3	.0083069	244.2524	.0056653	-.001512	.0715049	.0071182	.0055250

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1005887**	**.0485458**	**.0011668**	**-.020649**	**-.006116**	**.0541726**	**.0005916**
Stddev	.0224786	.0007950	.0001597	.000838	.000775	.0197408	.0002008
%RSD	22.34702	1.637664	13.68646	4.058758	12.66956	36.44054	33.94231
#1	.0747222	.0485431	.0011579	-.021517	-.006268	.0598411	.0006416
#2	.1153868	.0493422	.0010117	-.019845	-.006804	.0704591	.0003705
#3	.1116572	.0477521	.0013307	-.020585	-.005277	.0322177	.0007627

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSA01 Acquired: 12/9/2025 12:32:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.007643	F -.027921	.0035056
Stddev	.001859	.001244	.0000829
%RSD	24.32143	4.456506	2.365019
#1	-.007308	-.029353	.0034785
#2	-.005974	-.027299	.0034397
#3	-.009646	-.027110	.0035987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2697.602	51698.00	7105.601	1943.046	3379.036
Stddev	3.045	94.67	23.667	5.306	1.749
%RSD	.1128859	.1831220	.3330796	.2730993	.0517694
#1	2695.639	51800.14	7131.851	1948.152	3377.515
#2	2701.110	51613.19	7099.058	1937.560	3378.646
#3	2696.056	51680.68	7085.893	1943.426	3380.948

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSAB01 Acquired: 12/9/2025 12:37:08 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1074168**	**.1478016**	**.0539337**	**.0498192**	**.5951952**	**239.4393**
Stddev	.0048434	.0079257	.0004157	.0008452	.0027999	2.4354
%RSD	4.508973	5.362418	.7707713	1.696625	.4704263	1.017131
#1	.1071548	.1424850	.0544136	.0507389	.5962340	240.0578
#2	.1027098	.1440088	.0536993	.0496423	.5973273	236.7543
#3	.1123859	.1569111	.0536881	.0490764	.5920243	241.5059

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4558694**	**.4683365**	**.9785546**	**224.8189**	**.5445794**	**.4871689**
Stddev	.0044331	.0053071	.0007641	2.5920	.0022536	.0006992
%RSD	.9724538	1.133176	.0780840	1.152926	.4138307	.1435307
#1	.4569824	.4678956	.9777117	225.4287	.5432368	.4864630
#2	.4509859	.4632636	.9787505	221.9764	.5471813	.4871824
#3	.4596400	.4738502	.9792017	227.0516	.5433202	.4878613

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4637141**	**95.15579**	**.4570796**	**242.9683**	**.9653930**	**.1796224**
Stddev	.0012247	.23611	.0040957	2.6077	.0009329	.0006156
%RSD	.2641040	.2481308	.8960671	1.073252	.0966310	.3427335
#1	.4623575	95.26744	.4575245	243.6193	.9647925	.1789740
#2	.4640466	95.31538	.4527795	240.0968	.9664677	.1801989
#3	.4647383	94.88456	.4609347	245.1888	.9649188	.1796943

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0874573**	**.4646508**	**1.039046**	**.0425035**	**.9184317**	**.9628951**
Stddev	.0098850	.0049825	.007733	.0176343	.0053954	.0020596
%RSD	11.30266	1.072312	.7442144	41.48905	.5874542	.2138937
#1	.0787854	.4675279	1.034577	.0405499	.9192385	.9642011
#2	.0982207	.4588975	1.047975	.0610333	.9126784	.9605209
#3	.0853658	.4675270	1.034585	.0259274	.9233783	.9639633

Sample Name: ICSAB01 Acquired: 12/9/2025 12:37:08 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.9471530	.8889790	.9943536	F .0005130	F .0045424	F -.026680
Stddev	.0024809	.0092807	.0148641	.0003102	.0030179	.001697
%RSD	.2619323	1.043977	1.494846	60.46854	66.43892	6.362035
#1	.9463652	.8914133	.9877750	.0007851	.0010807	-.028120
#2	.9499322	.8787236	.9839140	.0005785	.0059264	-.027113
#3	.9451617	.8967999	1.011372	.0001753	.0066201	-.024809

Elem	Sr4077
Units	ppm
Avg	F .0029215
Stddev	.0012585
%RSD	43.07841
#1	.0032348
#2	.0015359
#3	.0039938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2700.265	51257.71	7122.223	1931.030	3394.734
Stddev	5.164	95.85	88.756	13.866	3.454
%RSD	.1912306	.1870000	1.246184	.7180717	.1017367
#1	2700.318	51239.98	7102.932	1931.374	3391.072
#2	2705.401	51171.96	7219.038	1916.996	3395.198
#3	2695.074	51361.19	7044.698	1944.722	3397.932

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSADLX20 Acquired: 12/9/2025 12:41:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0023639**	**.0072743**	**.0002650**	**-.000301**	**.0008819**	**12.12995**	**.0003959**
Stddev	.0007134	.0015872	.0024291	.002001	.0029545	.11858	.0002175
%RSD	30.17875	21.81874	916.5057	665.8888	335.0030	.9776029	54.95594
#1	.0021127	.0090806	.0014465	-.001320	.0039398	12.25929	.0001447
#2	.0018100	.0066398	.0018774	-.001586	.0006628	12.10419	.0005196
#3	.0031689	.0061026	-.002529	.002005	-.001957	12.02636	.0005232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000882**	**.0001030**	**11.82473**	**.0015358**	**-.000129**	**-.000034**	**4.626201**
Stddev	.0000152	.0000816	.07392	.0001570	.000141	.000620	.076818
%RSD	17.24807	79.24461	.6251529	10.22187	109.5711	1820.766	1.660493
#1	.0000708	.0000723	11.90528	.0016151	-.000102	.000636	4.538706
#2	.0000944	.0001955	11.75999	.0013549	-.000003	-.000588	4.682577
#3	.0000992	.0000412	11.80892	.0016372	-.000282	-.000150	4.657319

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001607**	**12.31004**	**.0006988**	**-.000527**	**-.017634**	**.0017273**	**.0003080**
Stddev	.0003335	.03943	.0004535	.000315	.020577	.0018219	.0003835
%RSD	207.4534	.3203448	64.89339	59.64234	116.6882	105.4783	124.5244
#1	-.000164	12.34788	.0001792	-.000169	-.041371	.0038271	.0007357
#2	.000503	12.26918	.0009021	-.000653	-.004863	.0005653	-.000005
#3	.000143	12.31305	.0010151	-.000760	-.006668	.0007895	.000193

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0129459**	**.0006250**	**.0000842**	**-.016301**	**-.000304**	**.0043701**	**.0002105**
Stddev	.0261334	.0007265	.0001207	.000347	.000542	.0109098	.0002063
%RSD	201.8671	116.2394	143.3853	2.129613	178.5650	249.6439	97.99727
#1	-.014388	.0014265	.0000598	-.015936	-.000291	-.003966	-.000019
#2	.037685	.0004384	-.000022	-.016338	.000232	.000358	.000380
#3	.015541	.0000100	.000215	-.016628	-.000852	.016718	.000271

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSADLX20 Acquired: 12/9/2025 12:41:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.008826	-.002148	.0004827
Stddev	.005520	.000102	.0001365
%RSD	62.53930	4.761176	28.26847
#1	-.009776	-.002265	.0006401
#2	-.002893	-.002076	.0003992
#3	-.013810	-.002103	.0004087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2941.540	56988.23	7090.528	2189.786	3986.653
Stddev	7.802	853.09	44.576	30.646	9.904
%RSD	.2652494	1.496959	.6286667	1.399485	.2484394
#1	2935.230	57941.02	7039.925	2220.700	3977.020
#2	2950.264	56295.26	7123.986	2159.416	3996.808
#3	2939.126	56728.40	7107.673	2189.241	3986.130

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSABDLX20 Acquired: 12/9/2025 12:45:29 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0068007**	**.0105700**	**.0032701**	**.0040871**	**.0312348**	**11.93569**	**.0239477**
Stddev	.0030466	.0006547	.0016671	.0021680	.0003869	.14621	.0010910
%RSD	44.79870	6.193669	50.98008	53.04511	1.238694	1.224981	4.555891
#1	.0033824	.0106552	.0050604	.0018380	.0307994	11.84456	.0227039
#2	.0077900	.0098769	.0029874	.0061637	.0313657	11.85818	.0243962
#3	.0092297	.0111779	.0017624	.0042597	.0315392	12.10434	.0247430

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0244309**	**.0472021**	**11.81982**	**.0259205**	**.0235758**	**.0239051**	**4.657687**
Stddev	.0003346	.0001486	.16274	.0005974	.0001832	.0004811	.013454
%RSD	1.369426	.3148892	1.376880	2.304758	.7771377	2.012454	.2888642
#1	.0240934	.0473309	11.69761	.0257809	.0234857	.0234539	4.663881
#2	.0244368	.0472359	11.75729	.0265753	.0237867	.0244113	4.642251
#3	.0247624	.0470394	12.00455	.0254052	.0234552	.0238500	4.666929

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0250315**	**12.16475**	**.0477854**	**.0079422**	**-.014583**	**.0217828**	**.0495999**
Stddev	.0001705	.18505	.0001586	.0002311	.008484	.0015834	.0003229
%RSD	.6811539	1.521164	.3319394	2.910133	58.17384	7.269269	.6509114
#1	.0248348	12.00282	.0476057	.0076973	-.019648	.0221333	.0493795
#2	.0251370	12.12497	.0479059	.0081566	-.019312	.0231617	.0499705
#3	.0251228	12.36644	.0478447	.0079728	-.004789	.0200535	.0494496

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028921**	**.0450217**	**.0469908**	**.0285671**	**.0474547**	**.0496990**	**.0000742**
Stddev	.0230703	.0001261	.0002263	.0010304	.0022762	.0098208	.0002656
%RSD	797.7025	.2800104	.4814944	3.607064	4.796624	19.76048	357.8355
#1	-.017740	.0450401	.0467500	.0297183	.0480231	.0604579	.0000837
#2	-.001386	.0451375	.0470234	.0282519	.0449481	.0474229	.0003349
#3	.027802	.0448874	.0471990	.0277310	.0493929	.0412161	-.000196

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: ICSABDLX20 Acquired: 12/9/2025 12:45:29 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.006173	-.002150	.0004312
Stddev	.003628	.000990	.0000751
%RSD	58.76759	46.03314	17.41826
#1	-.003048	-.003089	.0004095
#2	-.010151	-.001116	.0005147
#3	-.005319	-.002245	.0003693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2964.444	57665.27	7044.011	2272.853	4008.760
Stddev	4.024	95.78	88.828	12.845	9.502
%RSD	.1357477	.1660957	1.261041	.5651467	.2370303
#1	2959.855	57771.96	7115.876	2286.544	4002.378
#2	2966.103	57586.70	7071.458	2261.066	4004.223
#3	2967.373	57637.15	6944.699	2270.950	4019.681

Sample Name: CCV01 Acquired: 12/9/2025 12:49:46 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.916837**	**5.105675**	**4.868019**	**4.945526**	**4.924109**	**9.678151**	**9.671605**
Stddev	.055471	.190606	.060668	.069775	.055789	.160274	.081225
%RSD	1.128189	3.733227	1.246255	1.410877	1.132975	1.656041	.8398284
#1	4.853164	4.960921	4.798572	4.865111	4.861486	9.544753	9.661542
#2	4.942646	5.034472	4.910706	4.990050	4.968504	9.633759	9.595880
#3	4.954702	5.321633	4.894780	4.981418	4.942335	9.855943	9.757392

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2370447**	**2.425878**	**24.20147**	**.9902965**	**2.430644**	**1.233896**	**5.113119**
Stddev	.0025607	.029997	.38310	.0056403	.028337	.013076	.043995
%RSD	1.080275	1.236529	1.582956	.5695523	1.165827	1.059738	.8604262
#1	.2345320	2.391305	23.89964	.9838555	2.397987	1.218946	5.075917
#2	.2369513	2.444991	24.07231	.9926817	2.448750	1.243200	5.101760
#3	.2396509	2.441337	24.63245	.9943523	2.445194	1.239542	5.161679

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.434811**	**24.18761**	**2.430224**	**1.246191**	**25.06404**	**2.432140**	**2.505174**
Stddev	.037008	.44938	.028765	.006908	.20900	.044936	.007010
%RSD	1.519935	1.857891	1.183655	.5543519	.8338700	1.847577	.2798202
#1	2.406111	23.78598	2.397055	1.238280	24.87459	2.396837	2.497611
#2	2.421743	24.10389	2.448324	1.251030	25.02929	2.416859	2.506456
#3	2.476580	24.67296	2.445293	1.249264	25.28824	2.482723	2.511454

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.21115**	**4.714933**	**4.939555**	**4.886614**	**4.855398**	**5.119280**	**4.990867**
Stddev	.26379	.049992	.055902	.049445	.071946	.053954	.059420
%RSD	1.046306	1.060299	1.131717	1.011848	1.481783	1.053942	1.190575
#1	24.93501	4.664866	4.875411	4.829642	4.809323	5.057205	4.922486
#2	25.23791	4.715083	4.977887	4.918333	4.818569	5.145734	5.020181
#3	25.46054	4.764850	4.965367	4.911867	4.938303	5.154903	5.029934

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV01 Acquired: 12/9/2025 12:49:46 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.851597**	**4.749580**	**4.939351**
Stddev	.063023	.070074	.104907
%RSD	1.299013	1.475379	2.123903
#1	4.779795	4.692537	4.868328
#2	4.877237	4.728401	4.889879
#3	4.897758	4.827800	5.059847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2838.262**	**54062.25**	**7068.739**	**2096.810**	**3720.833**
Stddev	22.602	130.08	63.244	10.567	29.766
%RSD	.7963194	.2406148	.8946968	.5039523	.7999952
#1	2863.447	54212.39	7116.457	2095.725	3755.014
#2	2819.745	53983.35	7092.755	2107.878	3700.618
#3	2831.592	53991.00	6997.005	2086.828	3706.865

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB01 Acquired: 12/9/2025 12:53:56 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.002037**	**.0035659**	**-.000567**	**.0008397**	**.0005350**	**-.010187**	**-.000127**
Stddev	.003233	.0041765	.000705	.0024360	.0030733	.009052	.000622
%RSD	158.7442	117.1220	124.3025	290.1176	574.4056	88.85616	488.5059
#1	-.002290	-.000007	-.000353	-.001794	.0037641	-.016990	-.000675
#2	-.005136	.002547	-.001354	.003011	.0001953	-.013657	-.000256
#3	.001315	.008158	.000006	.001302	-.002354	.000086	.000549

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000043**	**.0000041**	**-.007097**	**-.000086**	**-.000081**	**-.000464**	**-.007649**
Stddev	.000039	.0001045	.006185	.000225	.000166	.000053	.006574
%RSD	90.70582	2582.682	87.15526	262.5865	205.5852	11.45239	85.94000
#1	-.000043	-.000091	.000029	-.000262	.000110	-.000513	-.013445
#2	-.000004	.000116	-.011072	.000168	-.000193	-.000471	-.000506
#3	-.000081	-.000013	-.010248	-.000163	-.000159	-.000408	-.008998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000842**	**.0031276**	**.0002677**	**-.000329**	**-.016899**	**.0009373**	**-.000410**
Stddev	.000595	.0108354	.0003236	.000307	.008868	.0023302	.000111
%RSD	70.68739	346.4423	120.8763	93.46548	52.47590	248.6179	27.16644
#1	-.000182	-.009355	.0003705	-.000515	-.016441	-.000463	-.000361
#2	-.001339	.008628	.0005274	.000026	-.025987	-.000352	-.000332
#3	-.001004	.010110	-.000095	-.000498	-.008269	.003627	-.000538

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.034513**	**.0020746**	**-.000181**	**-.015448**	**.0003969**	**.0028895**	**.0001095**
Stddev	.035844	.0009057	.000236	.001174	.0021294	.0104819	.0002472
%RSD	103.8577	43.65663	130.3147	7.600794	536.5305	362.7644	225.7737
#1	-.068357	.0024258	-.000113	-.016671	-.001999	.0139001	.0001573
#2	.003043	.0010459	.000013	-.014330	.001116	.0017368	-.000158
#3	-.038225	.0027522	-.000444	-.015343	.002074	-.006968	.000329

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB01 Acquired: 12/9/2025 12:53:56 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.013296	-.001269	.0000331
Stddev	.002474	.000137	.0000617
%RSD	18.60605	10.80460	186.1146
#1	-.016003	-.001427	-.000024
#2	-.011154	-.001198	.000024
#3	-.012730	-.001182	.000099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.651	55704.28	7327.477	2140.349	4128.012
Stddev	1.560	262.81	91.122	12.729	2.110
%RSD	.0530406	.4717861	1.243568	.5947096	.0511137
#1	2939.729	55810.18	7279.524	2140.925	4125.650
#2	2939.772	55897.62	7432.562	2152.781	4129.709
#3	2942.452	55405.05	7270.345	2127.342	4128.679

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170843BL Acquired: 12/9/2025 12:58:16 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000498**	**.0071379**	**-.000104**	**-.000550**	**.0006341**	**-.007210**	**-.000207**
Stddev	.002908	.0030061	.000378	.003472	.0019335	.004782	.000361
%RSD	584.2719	42.11460	363.9343	631.5257	304.8975	66.32547	174.1857
#1	-.003176	.0045277	.000310	-.002748	.0023085	-.012491	-.000472
#2	.002595	.0064614	-.000192	.003453	-.001482	-.003170	.000204
#3	-.000912	.0104246	-.000430	-.002355	.001076	-.005971	-.000354

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000462**	**.0000842**	**.0032858**	**-.000027**	**-.000148**	**-.000137**	**-.017446**
Stddev	.0000349	.0000760	.0059647	.000160	.000316	.000379	.006794
%RSD	75.49494	90.19010	181.5277	595.5133	214.2828	277.8760	38.94163
#1	.0000762	.0001706	-.001763	.000117	.000074	-.000488	-.009903
#2	.0000079	.0000278	.001753	-.000200	-.000007	-.000187	-.019351
#3	.0000547	.0000543	.009867	.000002	-.000510	.000266	-.023083

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000706**	**-.008166**	**.0001373**	**-.000493**	**-.010131**	**-.000815**	**-.000263**
Stddev	.000752	.022704	.0003539	.000094	.030760	.002420	.000310
%RSD	106.5241	278.0287	257.7737	19.09970	303.6136	297.0236	117.6296
#1	-.000494	-.001749	.0005234	-.000524	-.045092	.001485	-.000499
#2	-.000083	-.033388	-.000172	-.000388	.001919	-.003339	-.000379
#3	-.001542	.010639	.000060	-.000568	.012779	-.000591	.000088

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.019503**	**-.001227**	**-.000387**	**-.016311**	**-.000122**	**.0015204**	**.0003075**
Stddev	.036717	.000551	.000046	.000322	.000528	.0080526	.0001230
%RSD	188.2654	44.88266	11.78496	1.971874	434.6492	529.6201	39.99123
#1	.012718	-.001182	-.000431	-.016536	-.000034	.0019678	.0002986
#2	-.059478	-.001798	-.000389	-.016456	-.000688	.0093400	.0001893
#3	-.011748	-.000700	-.000340	-.015943	.000357	-.006746	.0004348

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170843BL Acquired: 12/9/2025 12:58:16 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.009670	-.000309	-.000018
Stddev	.002462	.001874	.000084
%RSD	25.45891	606.1139	465.8372
#1	-.008537	-.001081	-.000101
#2	-.007979	-.001674	-.000021
#3	-.012494	.001828	.000067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2944.977	56353.39	7342.848	2127.357	4136.326
Stddev	2.594	313.65	38.453	14.444	8.096
%RSD	.0880948	.5565704	.5236745	.6789431	.1957333
#1	2942.233	56186.91	7301.039	2143.756	4127.715
#2	2945.307	56158.09	7350.807	2116.529	4137.478
#3	2947.390	56715.18	7376.699	2121.784	4143.784

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170843BS Acquired: 12/9/2025 13:02:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7997161**	**2.035066**	**.9599954**	**2.053612**	**.8178880**	**1.934748**
Stddev	.0022036	.166980	.0010790	.018022	.0029817	.008436
%RSD	.2755520	8.205150	.1123951	.8775930	.3645630	.4360292
#1	.8018775	2.141297	.9592877	2.069965	.8145628	1.931449
#2	.7974725	2.121302	.9612372	2.056582	.8203237	1.944335
#3	.7997984	1.842600	.9594611	2.034289	.8187776	1.928460

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1856938**	**.1921178**	**.1954066**	**1.007714**	**.4156867**	**.1940812**
Stddev	.0013728	.0007507	.0002061	.005945	.0027262	.0002108
%RSD	.7392761	.3907532	.1054589	.5899666	.6558307	.1085902
#1	.1861319	.1916836	.1955659	1.001734	.4136211	.1943229
#2	.1841554	.1929847	.1951739	1.013623	.4187767	.1939362
#3	.1867940	.1916852	.1954802	1.007784	.4146623	.1939844

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3073292**	**3.041982**	**.1918267**	**1.963168**	**.4906936**	**.0766910**
Stddev	.0018389	.015034	.0010725	.003336	.0006076	.0011502
%RSD	.5983407	.4942090	.5590974	.1699095	.1238310	1.499739
#1	.3077088	3.024916	.1916020	1.961912	.4906143	.0753634
#2	.3053301	3.053268	.1908844	1.966950	.4913370	.0773234
#3	.3089486	3.047761	.1929938	1.960643	.4901295	.0773861

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.884665**	**.2922174**	**.2159917**	**9.929810**	**.2803782**	**.4147403**
Stddev	.055237	.0013275	.0010844	.066885	.0013464	.0019938
%RSD	1.914846	.4542792	.5020766	.6735784	.4801980	.4807304
#1	2.831297	.2908073	.2150643	9.869208	.2807806	.4168420
#2	2.881099	.2934429	.2157267	9.918648	.2814774	.4145035
#3	2.941598	.2924021	.2171841	10.00157	.2788765	.4128756

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170843BS Acquired: 12/9/2025 13:02:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6743158**	**.1923704**	**.9410670**	F **.5906208**	F **-.011718**	**.1904952**
Stddev	.0042651	.0006847	.0025994	.0042839	.003314	.0009996
%RSD	.6325059	.3559350	.2762136	.7253143	28.28311	.5247511
#1	.6778519	.1923843	.9394093	.5955449	-.010123	.1895237
#2	.6755166	.1916789	.9397290	.5885663	-.015529	.1904413
#3	.6695791	.1930481	.9440628	.5877511	-.009503	.1915207

Elem	Sr4077
Units	ppm
Avg	**.1892011**
Stddev	.0005888
%RSD	.3112169
#1	.1887740
#2	.1889565
#3	.1898728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2943.917**	**55561.94**	**7407.565**	**2101.302**	**4058.221**
Stddev	8.895	205.04	35.496	15.367	6.398
%RSD	.3021646	.3690232	.4791826	.7313156	.1576535
#1	2945.814	55761.33	7403.119	2114.135	4057.725
#2	2951.710	55351.68	7374.502	2084.273	4064.852
#3	2934.226	55572.80	7445.075	2105.498	4052.085

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3781-01 Acquired: 12/9/2025 13:06:42 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0339112**	**.0046208**	**.2445628**	**-.033829**	**-.014130**	**105.7830**	**.4555078**
Stddev	.0042055	.0041573	.0019990	.002787	.000545	.6176	.0038298
%RSD	12.40134	89.97012	.8173922	8.238453	3.859077	.5838518	.8407722
#1	.0344652	.0084013	.2424467	-.035385	-.013508	105.4993	.4542577
#2	.0294563	.0001684	.2448222	-.030612	-.014355	105.3582	.4524593
#3	.0378122	.0052927	.2464195	-.035491	-.014526	106.4915	.4598065

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0073391**	**.0144274**	**81.50532**	**.2463121**	**.1449005**	**.4010065**	**250.8979**
Stddev	.0001237	.0003368	.47606	.0037969	.0007887	.0027758	4.6417
%RSD	1.685103	2.334288	.5840839	1.541495	.5442873	.6922069	1.850039
#1	.0073769	.0148114	81.35818	.2433649	.1440236	.4039665	245.6610
#2	.0074395	.0141820	81.12021	.2505967	.1455517	.3984618	254.5045
#3	.0072010	.0142890	82.03758	.2449746	.1451262	.4005910	252.5282

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.992306**	**62.02939**	**.2530692**	**-.000341**	**4.593509**	**.4497432**	**.5178700**
Stddev	.020324	.43497	.0003803	.001061	.099598	.0030280	.0085642
%RSD	.6792111	.7012337	.1502927	311.2050	2.168228	.6732760	1.653739
#1	2.980091	61.78282	.2526749	-.001044	4.478673	.4462522	.5119797
#2	2.981059	61.77373	.2530988	-.000858	4.656330	.4516575	.5276944
#3	3.015767	62.53163	.2534339	.000880	4.645525	.4513199	.5139360

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.28268**	**.2194025**	**.0119564**	**-.004537**	**7.749384**	**3.667441**	**1.397244**
Stddev	.39907	.0126435	.0002380	.000876	.051764	.095780	.001605
%RSD	1.875087	5.762710	1.990801	19.31276	.6679781	2.611627	.1148517
#1	20.82412	.2064136	.0122304	-.005296	7.724019	3.558414	1.395414
#2	21.55131	.2316698	.0118001	-.004737	7.715194	3.738037	1.397910
#3	21.47261	.2201241	.0118388	-.003578	7.808939	3.705872	1.398409

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3781-01 Acquired: 12/9/2025 13:06:42 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**6.915972**	**.1522773**	**-.022489**
Stddev	.027553	.0009545	.004619
%RSD	.3983953	.6267810	20.54013
#1	6.887695	.1512742	-.018254
#2	6.942738	.1523835	-.027415
#3	6.917484	.1531742	-.021797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3495.128**	**67901.80**	**9120.909**	**2580.450**	**3605.465**
Stddev	3.801	931.41	54.435	41.059	9.647
%RSD	.1087646	1.371709	.5968206	1.591162	.2675784
#1	3492.967	68837.99	9083.212	2606.351	3609.976
#2	3499.517	66975.23	9183.317	2533.109	3612.030
#3	3492.899	67892.17	9096.199	2601.889	3594.388

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-01 Acquired: 12/9/2025 13:10:46 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.3869195**	**.0192342**	**.2108501**	**-.066213**	**.0191075**	**60.16028**
Stddev	.0025367	.0085960	.0015013	.012264	.0027442	.27565
%RSD	.6556224	44.69148	.7120392	18.52229	14.36177	.4581905
#1	.3898432	.0288851	.2093813	-.052539	.0174611	60.15352
#2	.3856129	.0123995	.2123820	-.069862	.0222754	59.88808
#3	.3853024	.0164180	.2107868	-.076239	.0175860	60.43925

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.201575**	**.0042727**	**.0207085**	F **2525.570**	**.0533919**	**.0360528**
Stddev	.003067	.0000652	.0002309	19.168	.0009290	.0004246
%RSD	.2552582	1.525129	1.115175	.7589487	1.739939	1.177747
#1	1.199154	.0042037	.0209115	2526.278	.0534115	.0355647
#2	1.200548	.0042813	.0207570	2506.058	.0543109	.0362567
#3	1.205024	.0043331	.0204573	2544.374	.0524532	.0363371

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0230335**	**247.2646**	**10.87757**	**287.2887**	**.0793413**	**-.001805**
Stddev	.0013814	1.8399	.05001	1.4664	.0013155	.001157
%RSD	5.997284	.7441066	.4597220	.5104304	1.657998	64.09962
#1	.0242119	245.4564	10.83657	287.0296	.0796481	-.002611
#2	.0215133	249.1346	10.86286	285.9692	.0804763	-.000479
#3	.0233752	247.2027	10.93328	288.8674	.0778995	-.002323

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.152040**	**.1173491**	**1.210479**	**15.98663**	**.3658000**	**.0047392**
Stddev	.044105	.0043535	.005175	.10631	.0049106	.0002916
%RSD	1.062254	3.709875	.4275468	.6649695	1.342443	6.153001
#1	4.101202	.1220926	1.207358	15.89373	.3666701	.0045001
#2	4.180084	.1164186	1.207626	16.10256	.3702175	.0050640
#3	4.174835	.1135360	1.216453	15.96358	.3605125	.0046535

Sample Name: Q3782-01 Acquired: 12/9/2025 13:10:46 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.004819	2.450857	F 13.77524	.3197864	F 39.82025	-.313138
Stddev	.002907	.005298	.03287	.0031097	.29065	.004500
%RSD	60.32210	.2161545	.2386301	.9724374	.7299068	1.436920
#1	-.002293	2.450357	13.78021	.3171381	39.53679	-.312106
#2	-.007996	2.445827	13.80535	.3232106	40.11760	-.309245
#3	-.004168	2.456387	13.74017	.3190104	39.80638	-.318064

Elem	Sr4077
Units	ppm
Avg	F 10.00836
Stddev	.08631
%RSD	.8623872
#1	10.05204
#2	9.90894
#3	10.06410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.686	53145.18	7424.186	2034.520	2738.113
Stddev	7.505	132.40	39.488	3.078	9.976
%RSD	.2862812	.2491357	.5318889	.1512671	.3643475
#1	2629.652	53260.24	7410.724	2032.765	2749.632
#2	2620.656	53000.46	7468.646	2032.722	2732.396
#3	2614.748	53174.83	7393.190	2038.074	2732.310

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-02 Acquired: 12/9/2025 13:15:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1025493**	**.0335405**	**.1335177**	**-.043348**	**.0269710**	**82.99104**
Stddev	.0011890	.0048224	.0034670	.005393	.0044901	.38585
%RSD	1.159448	14.37773	2.596631	12.44115	16.64789	.4649295
#1	.1039005	.0279865	.1360322	-.037751	.0289493	83.41679
#2	.1016630	.0366640	.1295627	-.043781	.0218315	82.89188
#3	.1020844	.0359710	.1349583	-.048511	.0301323	82.66445

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6906805**	**.0052844**	**.0068293**	F **5740.324**	**.1834260**	**.0359432**
Stddev	.0054637	.0001575	.0003008	64.968	.0016166	.0007799
%RSD	.7910618	2.980125	4.404099	1.131775	.8813277	2.169940
#1	.6954543	.0052539	.0070377	5704.696	.1840215	.0354534
#2	.6918656	.0054549	.0069658	5815.311	.1815962	.0355336
#3	.6847214	.0051444	.0064845	5700.965	.1846604	.0368426

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0686264**	**87.78815**	**2.671911**	**1361.477**	**.1053029**	**-.007823**
Stddev	.0009672	.67523	.033083	8.024	.0013910	.000296
%RSD	1.409315	.7691638	1.238181	.5893601	1.320942	3.787482
#1	.0680825	87.81071	2.696510	1369.888	.1044513	-.007879
#2	.0680536	87.10191	2.684923	1360.635	.1045494	-.007503
#3	.0697431	88.45182	2.634301	1353.907	.1069081	-.008087

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.353596**	**.1332668**	**.3095761**	**6.273285**	**.1754854**	**.0451047**
Stddev	.091802	.0033428	.0033304	.177624	.0016480	.0004578
%RSD	2.737412	2.508319	1.075778	2.831436	.9391118	1.015061
#1	3.267550	.1368418	.3087887	6.123901	.1741611	.0445822
#2	3.343002	.1302188	.3067100	6.226266	.1749639	.0454359
#3	3.450235	.1327398	.3132296	6.469688	.1773310	.0452959

Sample Name: Q3782-02 Acquired: 12/9/2025 13:15:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0151582	3.017567	4.315053	.4555379	F 72.58357	-.780010
Stddev	.0018303	.017254	.061788	.0025636	.77112	.013765
%RSD	12.07483	.5717742	1.431911	.5627622	1.062384	1.764685
#1	.0156842	3.030831	4.340012	.4554850	71.92527	-.773823
#2	.0131225	3.023810	4.244690	.4530013	72.39350	-.795782
#3	.0166680	2.998061	4.360457	.4581276	73.43195	-.770424

Elem	Sr4077
Units	ppm
Avg	8.787450
Stddev	.113511
%RSD	1.291744
#1	8.840742
#2	8.864509
#3	8.657098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2151.446	44857.20	6510.874	1654.961	2242.895
Stddev	19.156	351.45	70.604	16.014	20.541
%RSD	.8903753	.7834920	1.084403	.9676449	.9158255
#1	2166.139	44793.67	6454.222	1656.622	2257.711
#2	2158.418	45236.08	6488.427	1670.079	2251.527
#3	2129.780	44541.85	6589.972	1638.180	2219.446

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03 Acquired: 12/9/2025 13:19:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0281613**	**.0173833**	**.1010315**	**-.034002**	**.0166619**	**96.89391**
Stddev	.0043512	.0076627	.0028746	.005161	.0030286	2.09522
%RSD	15.45092	44.08072	2.845229	15.17746	18.17649	2.162387
#1	.0327424	.0088846	.0989638	-.039446	.0195226	94.69185
#2	.0276575	.0237648	.1043140	-.029182	.0134896	97.12708
#3	.0240839	.0195005	.0998166	-.033377	.0169734	98.86278

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6099127**	**.0049612**	**.0079030**	F **2438.263**	**.2218801**	**.0312632**
Stddev	.0146562	.0000547	.0001706	34.345	.0014424	.0003830
%RSD	2.403001	1.103287	2.158427	1.408590	.6500669	1.224969
#1	.5944715	.0049373	.0077597	2399.846	.2231559	.0316735
#2	.6116348	.0049225	.0078576	2448.945	.2221694	.0312007
#3	.6236318	.0050238	.0080917	2465.997	.2203150	.0309153

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1349142**	**99.54566**	**2.572098**	**857.3291**	**.0942607**	**-.004696**
Stddev	.0017459	.77417	.062181	18.1448	.0007482	.000508
%RSD	1.294066	.7776999	2.417529	2.116429	.7937055	10.80913
#1	.1358665	98.65185	2.508604	839.2261	.0943807	-.005030
#2	.1359769	99.97955	2.574813	857.2460	.0934597	-.004112
#3	.1328992	100.0056	2.632877	875.5153	.0949415	-.004945

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.99006**	**.1342011**	**.6873027**	**36.42008**	**.2106799**	**.0149019**
Stddev	.12495	.0055130	.0060710	.36953	.0007455	.0004980
%RSD	1.136896	4.108024	.8833007	1.014637	.3538323	3.341580
#1	10.84578	.1281294	.6942509	35.99499	.2102937	.0153193
#2	11.06267	.1388935	.6830238	36.66471	.2115392	.0150356
#3	11.06171	.1355803	.6846332	36.60053	.2102067	.0143507

Sample Name: Q3782-03 Acquired: 12/9/2025 13:19:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.002627	4.030418	F 21.31369	.5986347	F 52.05418	-.273234
Stddev	.002430	.087998	.20303	.0043586	.30389	.002166
%RSD	92.48419	2.183348	.9525867	.7280845	.5838008	.7926204
#1	-.002525	3.934553	21.07929	.5974467	51.96941	-.270989
#2	-.000250	4.049176	21.42707	.6034642	52.39146	-.275311
#3	-.005106	4.107524	21.43470	.5949934	51.80167	-.273402

Elem	Sr4077
Units	ppm
Avg	5.979061
Stddev	.108025
%RSD	1.806717
#1	5.868863
#2	5.983547
#3	6.084773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.676	49085.48	7098.607	1791.352	2638.773
Stddev	21.573	195.91	84.069	11.214	19.425
%RSD	.8875160	.3991163	1.184296	.6260059	.7361313
#1	2442.497	48877.83	7172.824	1778.652	2644.853
#2	2405.776	49111.56	7115.688	1799.888	2617.036
#3	2443.754	49267.04	7007.310	1795.517	2654.431

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03DUP Acquired: 12/9/2025 13:23:56 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0281338**	**.0103127**	**.1032786**	**-.040655**	**.0155119**	**99.75860**
Stddev	.0025441	.0170209	.0090986	.005344	.0010367	1.73496
%RSD	9.042686	165.0485	8.809767	13.14495	6.683146	1.739154
#1	.0302038	.0256295	.1028840	-.034921	.0143657	98.59765
#2	.0252937	.0133198	.1125682	-.045496	.0157860	101.7530
#3	.0289040	-.008011	.0943838	-.041547	.0163840	98.9251

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6162187**	**.0052661**	**.0082514**	F **2469.668**	**.2223913**	**.0318681**
Stddev	.0089239	.0001476	.0002633	36.983	.0028580	.0001151
%RSD	1.448170	2.803514	3.191376	1.497508	1.285119	.3611486
#1	.6090293	.0052611	.0083745	2433.687	.2190944	.0319593
#2	.6262064	.0054162	.0084306	2507.579	.2239135	.0317388
#3	.6134204	.0051210	.0079491	2467.737	.2241661	.0319063

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1410722**	**96.21473**	**2.582094**	**875.9075**	**.0954298**	**-.006189**
Stddev	.0008828	1.54109	.040158	15.1230	.0002951	.000369
%RSD	.6257547	1.601721	1.555262	1.726552	.3092148	5.961322
#1	.1420434	94.43537	2.546849	865.6360	.0953625	-.005800
#2	.1408549	97.08577	2.625813	893.2734	.0951743	-.006235
#3	.1403185	97.12307	2.573620	868.8131	.0957528	-.006533

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.65363**	**.1391211**	**.6738425**	**36.26511**	**.2007012**	**.0156146**
Stddev	.21202	.0067561	.0066448	.62598	.0041192	.0004297
%RSD	1.990129	4.856264	.9861102	1.726127	2.052378	2.751908
#1	10.41220	.1376955	.6662406	35.54617	.1963622	.0160241
#2	10.73917	.1464762	.6767424	36.55988	.2011835	.0151672
#3	10.80951	.1331916	.6785445	36.68930	.2045580	.0156524

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03DUP Acquired: 12/9/2025 13:23:56 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.006120	4.130825	F 23.42062	.6008348	F 52.90530	-.273071
Stddev	.002346	.069964	.30278	.0040155	.43321	.004187
%RSD	38.33452	1.693714	1.292772	.6683165	.8188358	1.533127
#1	-.008194	4.078968	23.07332	.5962129	52.47639	-.269471
#2	-.003574	4.210402	23.62909	.6034662	53.34268	-.277665
#3	-.006592	4.103105	23.55944	.6028253	52.89682	-.272077

Elem	Sr4077
Units	ppm
Avg	5.998264
Stddev	.065355
%RSD	1.089561
#1	5.931312
#2	6.061895
#3	6.001584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2409.434	49516.20	6902.782	1792.369	2618.287
Stddev	3.749	532.51	81.539	19.630	4.301
%RSD	.1555991	1.075423	1.181255	1.095196	.1642801
#1	2413.753	50121.15	6941.038	1812.536	2623.006
#2	2407.017	49309.03	6809.148	1791.248	2614.586
#3	2407.533	49118.40	6958.159	1773.324	2617.269

Sample Name: Q3782-03LX5 Acquired: 12/9/2025 13:28:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0054706**	**.0087953**	**.0183793**	**-.012988**	**.0016813**	**20.28600**	**.1281428**
Stddev	.0056290	.0042897	.0020955	.008458	.0016458	.38000	.0013636
%RSD	102.8947	48.77248	11.40146	65.12511	97.89407	1.873211	1.064127
#1	.0016383	.0127862	.0187476	-.019254	.0011693	20.50137	.1295831
#2	.0119333	.0042590	.0161240	-.016343	.0003522	19.84723	.1268717
#3	.0028404	.0093405	.0202662	-.003367	.0035223	20.50938	.1279736

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011145**	**.0008690**	**558.3673**	**.0496426**	**.0059469**	**.0313809**	**20.86967**
Stddev	.0001326	.0000504	7.3849	.0003179	.0002821	.0005390	.06088
%RSD	11.89401	5.802760	1.322592	.6404069	4.743182	1.717631	.2917295
#1	.0012568	.0008109	564.3423	.0496899	.0058620	.0319480	20.87594
#2	.0009944	.0009012	550.1108	.0493036	.0062616	.0308753	20.80590
#3	.0010925	.0008948	560.6487	.0499341	.0057170	.0313194	20.92718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5725435**	**184.7734**	**.0184804**	**-.001467**	**2.150930**	**.0297547**	**.1396886**
Stddev	.0079840	3.0630	.0008238	.000178	.053791	.0021991	.0008193
%RSD	1.394476	1.657704	4.457714	12.12295	2.500806	7.390719	.5865292
#1	.5736363	186.4701	.0194300	-.001605	2.110564	.0298048	.1387894
#2	.5640694	181.2375	.0180541	-.001266	2.130230	.0275310	.1398832
#3	.5799247	186.6126	.0179570	-.001528	2.211995	.0319284	.1403930

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.771784**	**.0459377**	**.0031008**	**-.018611**	**.8790047**	**4.467969**	**.1074050**
Stddev	.093638	.0009281	.0001142	.000934	.0159513	.029102	.0005426
%RSD	1.382760	2.020452	3.681140	5.020617	1.814704	.6513393	.5052315
#1	6.667303	.0449919	.0031057	-.019472	.8847082	4.472513	.1071077
#2	6.799922	.0468471	.0032124	-.017618	.8609856	4.436863	.1080313
#3	6.848125	.0459741	.0029843	-.018744	.8913203	4.494531	.1070759

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03LX5 Acquired: 12/9/2025 13:28:20 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**9.438134**	**-.067434**	**1.282270**
Stddev	.037926	.001249	.018689
%RSD	.4018338	1.852481	1.457493
#1	9.475851	-.066905	1.290350
#2	9.438548	-.066537	1.260900
#3	9.400004	-.068861	1.295559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2631.523**	**51675.78**	**6945.940**	**1931.257**	**3253.102**
Stddev	4.191	149.90	102.530	4.262	6.572
%RSD	.1592667	.2900730	1.476112	.2206813	.2020303
#1	2626.695	51508.13	6867.210	1927.951	3246.737
#2	2633.647	51722.33	7061.879	1929.753	3252.704
#3	2634.227	51796.88	6908.731	1936.067	3259.864

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03MS Acquired: 12/9/2025 13:32:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.8368045**	**1.897927**	**1.022202**	**1.906071**	**.2722222**	**107.6032**
Stddev	.0029895	.068431	.004997	.006700	.0019210	1.1263
%RSD	.3572498	3.605588	.4888414	.3515159	.7056581	1.046673
#1	.8333568	1.898074	1.020281	1.911502	.2701397	108.8727
#2	.8386772	1.829422	1.027875	1.898584	.2739249	106.7240
#3	.8383794	1.966284	1.018451	1.908129	.2726021	107.2129

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8676677**	**.1726479**	**.1980298**	F **3628.428**	**.5010068**	**.2314746**
Stddev	.0067903	.0019897	.0004370	43.819	.0009292	.0004814
%RSD	.7825960	1.152449	.2206512	1.207660	.1854698	.2079900
#1	.8750884	.1749449	.1977543	3673.460	.5019683	.2311996
#2	.8617644	.1714572	.1985337	3585.933	.5001137	.2320305
#3	.8661504	.1715416	.1978015	3625.891	.5009382	.2311937

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3376950**	**107.4076**	**3.738646**	**1629.491**	**.5682650**	**.0734407**
Stddev	.0019347	.0625	.020269	15.036	.0023902	.0008420
%RSD	.5729241	.0581867	.5421497	.9227591	.4206211	1.146508
#1	.3361165	107.3542	3.761845	1646.323	.5666616	.0742375
#2	.3398534	107.4763	3.724366	1617.387	.5710122	.0725598
#3	.3371151	107.3924	3.729728	1624.763	.5671211	.0735248

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.76093**	**.3969268**	**.6617106**	**46.98382**	**.4562060**	**.3663001**
Stddev	.10924	.0073813	.0010126	.24724	.0005462	.0004970
%RSD	.9288473	1.859609	.1530290	.5262146	.1197203	.1356896
#1	11.64576	.4045759	.6624214	46.73720	.4568350	.3657319
#2	11.77397	.3898462	.6605512	46.98258	.4559316	.3666542
#3	11.86307	.3963582	.6621593	47.23167	.4558515	.3665141

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03MS Acquired: 12/9/2025 13:32:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6316200**	**4.477351**	F **27.00450**	**1.437987**	F **57.57078**	**-.241800**
Stddev	.0044472	.037077	.05573	.003768	.11699	.004372
%RSD	.7040873	.8281016	.2063683	.2619995	.2032184	1.807963
#1	.6271204	4.519466	27.04986	1.435196	57.55105	-.245934
#2	.6360128	4.449625	26.94229	1.442272	57.46491	-.237224
#3	.6317269	4.462962	27.02135	1.436492	57.69639	-.242241

Elem	Sr4077
Units	ppm
Avg	**6.131451**
Stddev	.059941
%RSD	.9776039
#1	6.193939
#2	6.074431
#3	6.125982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2321.067**	**48621.79**	**6841.969**	**1788.704**	**2405.011**
Stddev	5.303	205.61	90.789	5.702	7.510
%RSD	.2284548	.4228843	1.326946	.3187586	.3122489
#1	2318.921	48386.51	6737.285	1788.844	2404.398
#2	2317.173	48711.84	6889.453	1794.334	2397.826
#3	2327.106	48767.02	6899.170	1782.933	2412.808

Sample Name: Q3782-03MSD Acquired: 12/9/2025 13:36:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.8545457**	**1.881761**	**1.040275**	**1.931535**	**.2701217**	**109.5885**
Stddev	.0043240	.057874	.016091	.019401	.0028047	.8791
%RSD	.5059939	3.075515	1.546800	1.004453	1.038317	.8022213
#1	.8583327	1.940927	1.046184	1.928524	.2717543	108.6459
#2	.8498343	1.825272	1.022065	1.913816	.2668831	110.3862
#3	.8554702	1.879085	1.052576	1.952266	.2717276	109.7335

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8942163**	**.1792407**	**.2004784**	F **3682.047**	**.5113868**	**.2350877**
Stddev	.0047190	.0018604	.0026559	33.117	.0023097	.0033500
%RSD	.5277279	1.037923	1.324789	.8994081	.4516592	1.425023
#1	.8930427	.1789913	.2014184	3648.391	.5140432	.2373871
#2	.8994114	.1812132	.1974804	3714.597	.5098526	.2312440
#3	.8901949	.1775177	.2025365	3683.152	.5102645	.2366319

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3554377**	**109.1725**	**3.835835**	**1649.182**	**.5791380**	**.0733428**
Stddev	.0046632	.4356	.028678	12.449	.0078183	.0009544
%RSD	1.311954	.3989774	.7476322	.7548480	1.349981	1.301340
#1	.3588861	109.5465	3.827114	1636.017	.5820184	.0734017
#2	.3501321	109.2767	3.867861	1660.763	.5702881	.0723603
#3	.3572949	108.6942	3.812530	1650.766	.5851074	.0742664

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.96127**	**.4041294**	**.7029562**	**46.95856**	**.4655848**	**.3764721**
Stddev	.01313	.0026844	.0060708	.13947	.0034165	.0045906
%RSD	.1097707	.6642485	.8636112	.2969978	.7338124	1.219366
#1	11.97189	.4071415	.7078127	47.11140	.4686207	.3780716
#2	11.96535	.4019895	.7049058	46.92606	.4662486	.3712957
#3	11.94659	.4032574	.6961502	46.83821	.4618851	.3800489

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03MSD Acquired: 12/9/2025 13:36:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.6341300	4.503071	F 27.08048	1.487383	F 58.01976	-.241083
Stddev	.0107884	.032080	.04046	.020387	.85950	.000968
%RSD	1.701285	.7124097	.1494231	1.370692	1.481392	.4014221
#1	.6389509	4.470795	27.11010	1.499400	58.51071	-.240165
#2	.6217718	4.534952	27.09698	1.463843	57.02731	-.242094
#3	.6416673	4.503466	27.03438	1.498906	58.52126	-.240991

Elem	Sr4077
Units	ppm
Avg	6.262916
Stddev	.043285
%RSD	.6911348
#1	6.216892
#2	6.302808
#3	6.269049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2287.940	47645.35	6647.122	1771.332	2378.119
Stddev	18.669	392.11	49.442	13.764	22.189
%RSD	.8159565	.8229671	.7438166	.7770432	.9330338
#1	2283.439	47264.42	6644.569	1755.439	2369.820
#2	2308.447	47623.87	6599.005	1779.206	2403.261
#3	2271.933	48047.75	6697.791	1779.351	2361.277

Sample Name: CCV02 Acquired: 12/9/2025 13:41:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**5.026939**	**5.161510**	**4.904686**	**5.090318**	**5.030762**	**9.646446**	**9.367750**
Stddev	.011256	.175848	.021125	.012269	.021869	.317536	.333304
%RSD	.2239234	3.406901	.4307208	.2410329	.4347087	3.291736	3.557991
#1	5.031842	5.012569	4.927195	5.100140	5.055954	9.314185	9.074185
#2	5.014062	5.116462	4.885289	5.076565	5.019687	9.946856	9.730070
#3	5.034912	5.355500	4.901574	5.094248	5.016646	9.678299	9.298996

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2348945**	**2.442285**	**23.72031**	**.9807991**	**2.449058**	**1.252836**	**4.825879**
Stddev	.0044429	.013240	.77514	.0377075	.015084	.005116	.138495
%RSD	1.891460	.5421072	3.267833	3.844566	.6159262	.4083851	2.869833
#1	.2316837	2.456940	22.96426	1.016165	2.465983	1.258500	4.919914
#2	.2399651	2.431188	24.51322	.941121	2.437034	1.251457	4.666840
#3	.2330346	2.438726	23.68346	.985112	2.444155	1.248550	4.890884

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.333843**	**23.81299**	**2.449840**	**1.232505**	**24.35325**	**2.394104**	**2.487908**
Stddev	.080754	.76821	.014599	.046734	.63934	.080389	.101126
%RSD	3.460133	3.225998	.5958997	3.791772	2.625289	3.357780	4.064693
#1	2.250045	23.00227	2.466312	1.278806	24.76364	2.311827	2.581902
#2	2.411163	24.53010	2.438501	1.185350	23.61660	2.472462	2.380909
#3	2.340321	23.90660	2.444707	1.233358	24.67950	2.398024	2.500913

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.58745**	**4.667651**	**5.021542**	**4.938422**	**4.754148**	**5.216948**	**4.964634**
Stddev	.65166	.096233	.015987	.031690	.161563	.102847	.037282
%RSD	2.650357	2.061704	.3183630	.6417076	3.398358	1.971411	.7509483
#1	25.06142	4.592373	5.039758	4.967267	4.600258	5.275966	5.001124
#2	23.84433	4.776077	5.009841	4.904499	4.922422	5.098190	4.926608
#3	24.85660	4.634505	5.015028	4.943499	4.739764	5.276686	4.966170

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV02 Acquired: 12/9/2025 13:41:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.937406**	**4.676751**	**4.803920**
Stddev	.025694	.160639	.199886
%RSD	.5203917	3.434838	4.160885
#1	4.944496	4.515880	4.656510
#2	4.908911	4.837156	5.031433
#3	4.958810	4.677218	4.723818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2790.072**	**55016.92**	**7164.893**	**2076.135**	**3674.141**
Stddev	13.827	1924.98	176.019	79.035	24.763
%RSD	.4955914	3.498889	2.456683	3.806845	.6739691
#1	2775.928	53213.87	7301.119	2002.343	3645.756
#2	2790.730	57044.20	6966.149	2159.535	3685.350
#3	2803.559	54792.70	7227.412	2066.528	3691.317

Sample Name: CCB02 Acquired: 12/9/2025 13:45:37 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0018847**	**.0058463**	**-.001596**	**.0036253**	**.0009431**	**-.007742**	**-.000745**
Stddev	.0017882	.0035485	.001105	.0044563	.0009140	.001472	.000225
%RSD	94.87805	60.69740	69.24808	122.9207	96.91064	19.00873	30.23667
#1	.0010064	.0039225	-.001161	.0060151	.0008458	-.006102	-.000547
#2	.0007055	.0036751	-.002853	.0063769	.0000817	-.008948	-.000990
#3	.0039421	.0099413	-.000775	-.001516	.0019018	-.008177	-.000697

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000841**	**.0000637**	**.0033317**	**-.000087**	**-.000031**	**.0000471**	**-.006969**
Stddev	.0000781	.0001225	.0078087	.000098	.000165	.0003004	.002973
%RSD	92.93315	192.4601	234.3746	112.5901	537.2397	637.2524	42.66237
#1	.0000506	.0001203	.0085109	-.000181	-.000178	-.000124	-.003582
#2	.0000282	-.000077	.0071341	.000015	.000147	.000394	-.008176
#3	.0001734	.000148	-.005650	-.000096	-.000061	-.000129	-.009149

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000882**	**.0125642**	**.0002974**	**-.000462**	**.0542597**	**.0001777**	**-.000194**
Stddev	.000112	.0172787	.0003288	.000416	.0138958	.0008090	.000071
%RSD	12.71148	137.5232	110.5440	90.02405	25.60975	455.3436	36.84028
#1	-.000764	.0273383	.0000462	-.000213	.0403075	-.000470	-.000275
#2	-.000987	.0167895	.0001765	-.000942	.0543730	-.000081	-.000164
#3	-.000894	-.006435	.0006696	-.000231	.0680984	.001084	-.000142

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.013368**	**.0013117**	**-.000053**	**-.015718**	**-.000028**	**.0166920**	**.0005412**
Stddev	.046211	.0007774	.000070	.000721	.001580	.0082343	.0001719
%RSD	345.6703	59.26842	133.1865	4.589762	5740.489	49.33095	31.77051
#1	-.022958	.0011499	-.000112	-.014966	.001795	.0259698	.0007045
#2	-.054032	.0006279	-.000072	-.016405	-.000866	.0102513	.0003617
#3	.036885	.0021572	.000025	-.015783	-.001011	.0138549	.0005573

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB02 Acquired: 12/9/2025 13:45:37 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F **-.011564**	**-.000482**	**.0000579**
Stddev	.003629	.000978	.0001224
%RSD	31.38098	202.8900	211.4103
#1	-.009912	-.000973	.0001720
#2	-.009056	-.001118	-.000071
#3	-.015726	.000644	.000073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2920.286**	**56123.48**	**7441.892**	**2103.564**	**4102.132**
Stddev	11.782	495.93	64.099	31.979	14.573
%RSD	.4034642	.8836438	.8613209	1.520253	.3552448
#1	2920.574	55693.65	7423.064	2069.379	4103.609
#2	2908.363	56010.71	7389.317	2108.564	4086.877
#3	2931.922	56666.09	7513.296	2132.749	4115.910

Sample Name: LR-1 Acquired: 12/9/2025 14:16:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0085206**	**.0281155**	**.0326464**	**-.023750**	**.0273580**	**.4274482**	**.0033211**
Stddev	.0063763	.0019829	.0055384	.008655	.0047208	.0494874	.0011934
%RSD	74.83396	7.052595	16.96482	36.44329	17.25580	11.57739	35.93409
#1	.0141879	.0283114	.0384156	-.022950	.0219188	.4272247	.0044733
#2	.0097576	.0260419	.0321515	-.015522	.0303898	.4770469	.0020904
#3	.0016165	.0299931	.0273720	-.032777	.0297654	.3780729	.0033996

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006433**	**.0027810**	**2133.012**	**.0638696**	**.0019333**	**.0129924**	**.8853963**
Stddev	.0001881	.0002157	17.115	.0016929	.0003199	.0000999	.0132406
%RSD	29.24322	7.755306	.8024007	2.650582	16.54744	.7685084	1.495448
#1	.0008359	.0029406	2151.432	.0628726	.0017362	.0130862	.8772324
#2	.0006341	.0025356	2117.600	.0629119	.0017613	.0128875	.8782833
#3	.0004600	.0028667	2130.003	.0658243	.0023024	.0130035	.9006732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0268992**	**2271.592**	**.0448909**	**.0052819**	**2294.904**	**.0039610**	**.0684991**
Stddev	.0005585	16.233	.0006012	.0007839	66.679	.0016160	.0015474
%RSD	2.076305	.7145902	1.339313	14.84058	2.905539	40.79881	2.258959
#1	.0272786	2287.826	.0443395	.0060793	2234.737	.0057305	.0676097
#2	.0271612	2255.361	.0455319	.0045123	2283.381	.0025633	.0676019
#3	.0262579	2271.588	.0448013	.0052540	2366.594	.0035891	.0702859

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.649291**	**.0087851**	**.0154134**	**-.024145**	**-.089129**	**-.004628**	**.0009880**
Stddev	.319758	.0008058	.0006822	.001921	.001156	.005378	.0008379
%RSD	19.38762	9.172309	4.426232	7.954977	1.297149	116.2025	84.80268
#1	1.310807	.0093502	.0147645	-.024653	-.090250	-.004492	.0005076
#2	1.690799	.0078624	.0153508	-.025761	-.089197	-.010072	.0005009
#3	1.946269	.0091428	.0161247	-.022021	-.087941	.000681	.0019555

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LR-1 Acquired: 12/9/2025 14:16:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.2259655	-.334029	.0578977
Stddev	.0178238	.002918	.0005344
%RSD	7.887835	.8736909	.9229632
#1	.2063351	-.337373	.0579729
#2	.2304259	-.331995	.0573297
#3	.2411354	-.332719	.0583905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1996.658	40678.84	6529.090	1476.861	2336.289
Stddev	22.744	607.89	42.921	18.504	31.509
%RSD	1.139110	1.494357	.6573769	1.252935	1.348675
#1	2015.293	41092.69	6482.990	1482.885	2362.704
#2	1971.314	40962.91	6567.896	1491.602	2301.414
#3	2003.367	39980.92	6536.385	1456.095	2344.751

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LR-2 Acquired: 12/9/2025 14:21:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.005729**	**.0000836**	**.1766661**	**-.267015**	**-.137811**	**1832.042**	**.0306528**
Stddev	.006888	.0139071	.0044227	.005508	.010652	32.953	.0014346
%RSD	120.2356	16642.55	2.503405	2.062800	7.729486	1.798708	4.680207
#1	.002199	.0125371	.1721330	-.264241	-.143159	1803.397	.0301639
#2	-.010246	.0026369	.1809693	-.263445	-.125545	1868.056	.0295265
#3	-.009139	-.014923	.1768959	-.273358	-.144730	1824.674	.0322680

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0409203**	**.0992729**	**10.26825**	**-.346035**	**.0727710**	**-.058515**	**2440.716**
Stddev	.0005049	.0006086	.05863	.006073	.0010587	.017107	37.316
%RSD	1.233929	.6130195	.5710015	1.755048	1.454837	29.23574	1.528892
#1	.0408823	.0995167	10.20059	-.342500	.0720366	-.047972	2420.284
#2	.0414432	.0997217	10.29999	-.342558	.0722917	-.049320	2418.078
#3	.0404355	.0985802	10.30417	-.353048	.0739845	-.078253	2483.786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.186186**	**1.454258**	**.0564065**	**^ *****	**4.745243**	**.0541515**	**.1445938**
Stddev	.003551	.018904	.0009407	-----	.096775	.0034675	.0053931
%RSD	1.907318	1.299904	1.667707	-----	2.039420	6.403338	3.729838
#1	-.183778	1.445893	.0574907	^ -----	4.643039	.0508611	.1457117
#2	-.190264	1.475901	.0559205	^ -----	4.757213	.0577724	.1493403
#3	-.184516	1.440979	.0558081	^ -----	4.835476	.0538209	.1387293

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1806.279**	**^ *****	**-.013568**	**.0148625**	**.0047020**	**1.467798**	**.0113182**
Stddev	21.793	-----	.000721	.0015299	.0007156	.006329	.0012284
%RSD	1.206533	-----	5.311502	10.29377	15.21825	.4312077	10.85335
#1	1786.986	^ -----	-.013278	.0130959	.0051482	1.469814	.0103980
#2	1801.934	^ -----	-.014388	.0157401	.0038767	1.460706	.0127131
#3	1829.918	^ -----	-.013037	.0157515	.0050812	1.472874	.0108434

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LR-2 Acquired: 12/9/2025 14:21:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.424735**	**.2445471**	**-2.33919**
Stddev	.015002	.0051974	.03581
%RSD	3.532083	2.125325	1.531005
#1	-.424416	.2411675	-2.31965
#2	-.409895	.2419419	-2.31741
#3	-.439894	.2505319	-2.38053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2486.774**	**48425.33**	**6643.578**	**1903.631**	**2986.311**
Stddev	13.038	203.89	41.979	8.713	15.317
%RSD	.5243095	.4210353	.6318736	.4577296	.5129025
#1	2487.907	48574.82	6685.082	1913.671	2991.348
#2	2499.208	48508.09	6601.139	1898.051	2998.476
#3	2473.206	48193.08	6644.512	1899.169	2969.110

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LR-3 Acquired: 12/9/2025 14:26:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0918069**	**.0369004**	**216.3125**	**-.003857**	**.0805087**	**.0841799**	**.0002863**
Stddev	.0029536	.0060990	.8170	.007027	.0059286	.0092563	.0011251
%RSD	3.217189	16.52838	.3777097	182.1751	7.363879	10.99585	392.9424
#1	.0898062	.0306473	215.5462	-.000647	.0771324	.0852579	.0006104
#2	.0904153	.0372210	216.2192	.000991	.0873542	.0744318	.0012138
#3	.0951993	.0428328	217.1722	-.011916	.0770395	.0928499	-.000965

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003989**	**-.001388**	**.2478718**	**23.33294**	**.0065236**	**46.93738**	**.2718937**
Stddev	.000093	.000045	.0119381	.13514	.0002368	.19298	.0073098
%RSD	2.324409	3.261678	4.816231	.5791616	3.629632	.4111361	2.688466
#1	-.003983	-.001431	.2616449	23.26973	.0065867	46.82076	.2778946
#2	-.003900	-.001392	.2404916	23.24099	.0062617	46.83125	.2637528
#3	-.004085	-.001341	.2414787	23.48810	.0067225	47.16013	.2740339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.00887**	**-.193324**	**23.24938**	**.0023317**	**.5375027**	**-.021345**	**27.58010**
Stddev	.38194	.005674	.08955	.0000344	.0778389	.003489	.07143
%RSD	.7955661	2.935024	.3851807	1.476723	14.48158	16.34652	.2590009
#1	47.57293	-.199226	23.16411	.0023143	.4529985	-.017319	27.59460
#2	48.28469	-.192834	23.24137	.0023094	.5532374	-.023491	27.64317
#3	48.16898	-.187910	23.34267	.0023713	.6062722	-.023224	27.50253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6855285**	**-.001721**	**-.008824**	**-.020292**	**-.041901**	**-.104292**	**-.009373**
Stddev	.0914061	.000427	.000255	.001057	.000649	.015005	.000320
%RSD	13.33366	24.79490	2.884413	5.209105	1.549897	14.38791	3.412970
#1	.5915258	-.001234	-.008791	-.020192	-.042569	-.096668	-.009466
#2	.6909644	-.001898	-.008588	-.019288	-.041862	-.094630	-.009016
#3	.7740953	-.002031	-.009094	-.021395	-.041271	-.121579	-.009636

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: LR-3 Acquired: 12/9/2025 14:26:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0290481	.0030495	.0004277
Stddev	.0031866	.0027311	.0000907
%RSD	10.97005	89.56096	21.21575
#1	.0253689	.0018251	.0003295
#2	.0308482	.0011447	.0005084
#3	.0309273	.0061785	.0004452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2768.081	56568.26	7179.117	2119.010	3977.446
Stddev	6.724	183.87	38.748	8.867	8.134
%RSD	.2429230	.3250488	.5397263	.4184737	.2045151
#1	2772.441	56390.93	7218.825	2113.998	3986.663
#2	2771.465	56758.04	7141.407	2129.249	3974.406
#3	2760.337	56555.80	7177.119	2113.783	3971.270

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3782-03A Acquired: 12/9/2025 14:39:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.8375946**	**1.909997**	**1.032805**	**1.974177**	**.8187381**	**98.83028**
Stddev	.0182926	.079943	.026842	.048483	.0207613	.24687
%RSD	2.183943	4.185526	2.598894	2.455876	2.535765	.2497876
#1	.8557054	1.992110	1.060937	2.022708	.8426331	98.75063
#2	.8379530	1.832416	1.030004	1.974081	.8084643	99.10714
#3	.8191255	1.905465	1.007474	1.925742	.8051169	98.63307

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7831453**	**.1727066**	**.1959865**	F **2420.496**	**.5517401**	**.2212579**
Stddev	.0027704	.0005668	.0053490	28.520	.0059610	.0051744
%RSD	.3537524	.3281607	2.729255	1.178288	1.080410	2.338607
#1	.7800605	.1731434	.2014368	2402.766	.5456009	.2266050
#2	.7839540	.1720661	.1957777	2405.327	.5575054	.2208931
#3	.7854213	.1729102	.1907450	2453.396	.5521140	.2162756

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3823635**	**102.3555**	**2.718715**	**854.4667**	**.5578955**	**.0734565**
Stddev	.0110245	1.6079	.002506	.5649	.0138907	.0016878
%RSD	2.883264	1.570937	.0921781	.0661090	2.489840	2.297617
#1	.3939201	100.5937	2.715986	854.6500	.5721490	.0718923
#2	.3812084	103.7439	2.720913	854.9171	.5571389	.0752453
#3	.3719619	102.7288	2.719246	853.8329	.5443985	.0732320

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.17069**	**.3924270**	**.8699849**	**47.78539**	**.4524105**	**.3834858**
Stddev	.28744	.0048438	.0101281	.91576	.0042257	.0087745
%RSD	2.028422	1.234312	1.164170	1.916409	.9340400	2.288096
#1	13.84071	.3904750	.8604734	46.79232	.4478370	.3925697
#2	14.36657	.3888637	.8806336	48.59654	.4561700	.3828303
#3	14.30481	.3979421	.8688477	47.96732	.4532245	.3750574

Sample Name: Q3782-03A Acquired: 12/9/2025 14:39:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.7008551	4.255621	F 24.87197	1.292785	F 51.17625	-.072295
Stddev	.0220311	.013473	.37301	.032904	1.24337	.005794
%RSD	3.143462	.3165871	1.499736	2.545186	2.429589	8.014503
#1	.7236347	4.242521	24.50339	1.327669	52.58000	-.070528
#2	.6992730	4.254906	25.24927	1.288382	50.73532	-.067591
#3	.6796577	4.269438	24.86326	1.262305	50.21343	-.078768

Elem	Sr4077
Units	ppm
Avg	6.124464
Stddev	.083909
%RSD	1.370068
#1	6.138233
#2	6.034522
#3	6.200638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2439.077	49148.31	7129.884	1790.090	2662.368
Stddev	46.946	486.50	41.224	18.874	58.123
%RSD	1.924734	.9898655	.5781852	1.054336	2.183113
#1	2392.494	49600.49	7082.307	1803.711	2604.412
#2	2438.359	48633.55	7154.991	1768.546	2662.038
#3	2486.377	49210.89	7152.355	1798.013	2720.655

Sample Name: Q3779-01 Acquired: 12/9/2025 14:43:37 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0207892**	**.0464232**	**.0492127**	**-.028754**	**-.017941**	**517.1640**	**.6577119**
Stddev	.0053839	.0004026	.0043808	.011045	.001888	7.5690	.0072573
%RSD	25.89758	.8671337	8.901779	38.41282	10.52073	1.463565	1.103415
#1	.0198901	.0464269	.0481712	-.033633	-.016192	508.7132	.6501409
#2	.0265661	.0460188	.0454464	-.016110	-.017689	523.3203	.6583863
#3	.0159115	.0468238	.0540204	-.036521	-.019942	519.4585	.6646084

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080754**	**.0201333**	**282.8433**	**.5703175**	**.3655675**	**1.623743**	**447.7889**
Stddev	.0002784	.0003026	3.2776	.0039758	.0009349	.008506	3.7834
%RSD	3.447000	1.503045	1.158789	.6971273	.2557516	.5238686	.8449075
#1	.0077837	.0203952	279.2454	.5657580	.3659596	1.632125	443.8713
#2	.0083382	.0202026	283.6253	.5730618	.3662427	1.623986	448.0733
#3	.0081042	.0198020	285.6591	.5721327	.3645004	1.615117	451.4221

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.728138**	**282.6684**	**.7729620**	**.0037879**	**82.23183**	**.5461766**	**.6822275**
Stddev	.048962	3.5962	.0010487	.0004169	.60249	.0048780	.0051825
%RSD	1.313304	1.272229	.1356713	11.00744	.7326753	.8931202	.7596439
#1	3.681024	278.7430	.7719437	.0033785	81.66411	.5405439	.6776945
#2	3.724630	283.4581	.7740386	.0042120	82.16746	.5489875	.6811107
#3	3.778759	285.8041	.7729038	.0037730	82.86392	.5489983	.6878774

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.06083**	**.3979015**	**.0016483**	**.0845515**	**6.512087**	**3.226543**	**1.266131**
Stddev	.13131	.0035822	.0007751	.0014927	.067352	.029999	.001168
%RSD	.6889009	.9002850	47.02394	1.765395	1.034260	.9297521	.0922885
#1	18.91860	.4013646	.0012862	.0847723	6.436243	3.216410	1.265075
#2	19.08643	.3942110	.0025382	.0859214	6.535108	3.260297	1.267387
#3	19.17745	.3981289	.0011205	.0829607	6.564910	3.202923	1.265931

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3779-01 Acquired: 12/9/2025 14:43:37 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.246895**	**.2725681**	**2.852965**
Stddev	.013214	.0022341	.064307
%RSD	.5881081	.8196303	2.254048
#1	2.249592	.2710370	2.778799
#2	2.232541	.2715356	2.893210
#3	2.258553	.2751316	2.886886

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2821.090**	**55500.49**	**7713.301**	**2134.504**	**3210.455**
Stddev	8.299	322.00	82.216	11.246	7.283
%RSD	.2941861	.5801797	1.065904	.5268773	.2268428
#1	2813.616	55867.10	7802.694	2142.567	3210.104
#2	2819.633	55370.88	7696.285	2139.289	3203.354
#3	2830.022	55263.49	7640.924	2121.657	3217.906

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3780-01 Acquired: 12/9/2025 14:48:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0137642**	**.0038260**	**.0335715**	**.0000383**	**-.005971**	**18.77186**	**.0317931**
Stddev	.0011622	.0020603	.0009384	.0018349	.000596	.21199	.0004552
%RSD	8.443870	53.84908	2.795236	4796.125	9.982489	1.129282	1.431820
#1	.0145519	.0034829	.0345352	-.002077	-.006123	18.52947	.0313165
#2	.0143112	.0019588	.0326606	.001198	-.005314	18.86346	.0318394
#3	.0124294	.0060363	.0335186	.000994	-.006477	18.92263	.0322234

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000002**	**.0003727**	**3.202260**	**.0131972**	**.1732112**	**.0103668**	**2.207006**
Stddev	.000019	.0000631	.033228	.0005619	.0031149	.0002793	.039108
%RSD	877.5025	16.93861	1.037653	4.257922	1.798320	2.693773	1.771997
#1	.000020	.0003454	3.167594	.0127578	.1699545	.0105766	2.168749
#2	-.000015	.0004448	3.205352	.0130035	.1761616	.0100498	2.205356
#3	-.000011	.0003278	3.233834	.0138304	.1735173	.0104739	2.246913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0397852**	**1.019269**	**.0063290**	**.0014613**	**9.775738**	**.0060219**	**29.94578**
Stddev	.0001820	.048030	.0001206	.0002591	.171093	.0042444	.59548
%RSD	.4573951	4.712222	1.906084	17.73275	1.750178	70.48120	1.988515
#1	.0395789	.964252	.0062649	.0012309	9.586899	.0032978	29.29343
#2	.0399228	1.040718	.0064682	.0014112	9.819882	.0038557	30.08374
#3	.0398540	1.052838	.0062540	.0017418	9.920433	.0109123	30.46017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.242296**	**.0073439**	**-.012266**	**.2973295**	**.4662450**	**5.183175**	**.0342311**
Stddev	.134835	.0006327	.000276	.0055971	.0054499	.103268	.0006842
%RSD	2.160022	8.614541	2.247122	1.882459	1.168886	1.992374	1.998687
#1	6.101391	.0075029	-.012024	.2917758	.4633503	5.095665	.0335290
#2	6.255393	.0066470	-.012566	.3029690	.4628533	5.156782	.0348958
#3	6.370105	.0078820	-.012208	.2972436	.4725315	5.297079	.0342684

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3780-01 Acquired: 12/9/2025 14:48:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.3735610	.0038746	.0118163
Stddev	.0055817	.0010681	.0001455
%RSD	1.494194	27.56674	1.231088
#1	.3671609	.0029241	.0116547
#2	.3761021	.0036693	.0118573
#3	.3774201	.0050305	.0119368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2984.404	59497.91	7533.698	2306.831	4045.770
Stddev	45.072	1033.85	47.170	38.309	62.741
%RSD	1.510245	1.737624	.6261207	1.660656	1.550790
#1	3026.457	60362.24	7571.445	2334.832	4108.257
#2	2936.823	59778.86	7548.829	2322.487	3982.777
#3	2989.931	58352.62	7480.819	2263.174	4046.277

Sample Name: PB170827BL Acquired: 12/9/2025 14:52:22 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0007904**	**.0035656**	**-.000114**	**.0010018**	**.0002532**	**-.008804**	**-.001869**
Stddev	.0015352	.0013442	.001793	.0076069	.0016318	.001533	.000281
%RSD	194.2327	37.69756	1574.389	759.2912	644.5838	17.41041	15.05297
#1	-.000417	.0046390	-.001516	-.006642	.0006823	-.008668	-.001552
#2	.002518	.0039999	-.000732	.008571	.0016275	-.010400	-.002089
#3	.000270	.0020580	.001906	.001077	-.001550	-.007344	-.001967

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000006**	**.0000151**	**-.002901**	**-.000138**	**.0000142**	**-.000200**	**-.011701**
Stddev	.000066	.0000185	.009742	.000107	.0001083	.000076	.008272
%RSD	1086.747	122.3611	335.7448	77.49279	762.0387	38.24719	70.69877
#1	-.000051	.0000252	-.002691	-.000057	.0000891	-.000286	-.018606
#2	.000070	-.000006	.006733	-.000259	-.000110	-.000141	-.013963
#3	-.000037	.000026	-.012747	-.000098	.000064	-.000172	-.002533

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000185**	**.0026199**	**.0002739**	**-.000362**	**.1594231**	**.0011778**	**.0001696**
Stddev	.000115	.0085392	.0005502	.000088	.0408461	.0024844	.0001652
%RSD	61.81203	325.9321	200.8748	24.34508	25.62118	210.9259	97.37412
#1	-.000282	-.006876	-.000355	-.000462	.1135123	-.000161	.0003148
#2	-.000059	.009668	.000509	-.000330	.1730218	.004044	-.000010
#3	-.000216	.005068	.000667	-.000294	.1917353	-.000350	.000204

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1231491**	**-.005532**	**-.000215**	**-.016300**	**.0006863**	**.0293105**	**.0003085**
Stddev	.0359866	.000823	.000181	.000692	.0004497	.0182736	.0002977
%RSD	29.22198	14.87885	84.35009	4.245711	65.52340	62.34479	96.50817
#1	.0841696	-.005711	-.000391	-.016772	.0001841	.0477134	.0005775
#2	.1301695	-.004634	-.000225	-.016624	.0008230	.0111690	-.000011
#3	.1551082	-.006250	-.000029	-.015506	.0010517	.0290491	.000359

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170827BL Acquired: 12/9/2025 14:52:22 Type: Unk
Method: 6010-200.7 NEW(v394) 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 -.013177	-.000507	-.000040
Stddev	.005487	.001362	.000061
%RSD	41.64117	268.8124	155.2709
#1	-.006883	-.001641	-.000075
#2	-.015693	-.000882	.000031
#3	-.016956	.001004	-.000075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3028.589	57845.71	7408.694	2186.739	4346.066
Stddev	12.800	988.64	49.473	29.394	17.467
%RSD	.4226337	1.709093	.6677750	1.344174	.4018933
#1	3038.331	58392.08	7426.512	2211.846	4354.876
#2	3033.344	56704.47	7352.779	2154.407	4357.374
#3	3014.093	58440.58	7446.790	2193.964	4325.949

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170827BS Acquired: 12/9/2025 14:56:42 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.8151345**	**2.020949**	**.9718529**	**2.110187**	**.8267862**	**1.955003**
Stddev	.0046155	.056326	.0028995	.019032	.0091751	.018058
%RSD	.5662237	2.787082	.2983482	.9019149	1.109726	.9236663
#1	.8204385	1.957950	.9749319	2.131096	.8373767	1.956400
#2	.8120313	2.066446	.9714520	2.105591	.8217431	1.972321
#3	.8129337	2.038451	.9691747	2.093874	.8212390	1.936287

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1854859**	**.1943381**	**.1973729**	**.9908588**	**.4049697**	**.1971392**
Stddev	.0015610	.0020297	.0013728	.0057283	.0053629	.0013514
%RSD	.8415671	1.044442	.6955269	.5781166	1.324282	.6855199
#1	.1872869	.1962615	.1989123	.9911737	.4034526	.1986766
#2	.1846490	.1945365	.1969307	.9964232	.4109278	.1966022
#3	.1845218	.1922165	.1962757	.9849796	.4005288	.1961388

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3152035**	**2.926342**	**.1911284**	**1.966766**	**.4969586**	**.0766155**
Stddev	.0028871	.041539	.0014895	.020387	.0035490	.0003302
%RSD	.9159535	1.419478	.7792914	1.036562	.7141471	.4310086
#1	.3185197	2.884634	.1905885	1.973399	.5009619	.0763993
#2	.3138412	2.967710	.1928125	1.983010	.4957154	.0769956
#3	.3132496	2.926682	.1899842	1.943888	.4941984	.0764515

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.003680**	**.2929740**	**.2097893**	**9.810102**	**.2823158**	**.4156677**
Stddev	.064451	.0037030	.0031923	.138548	.0027952	.0032130
%RSD	2.145731	1.263925	1.521648	1.412303	.9901048	.7729617
#1	2.929282	.2901983	.2092339	9.665901	.2851759	.4193425
#2	3.039247	.2971785	.2132228	9.942204	.2821813	.4142720
#3	3.042510	.2915452	.2069111	9.822202	.2795903	.4133887

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170827BS Acquired: 12/9/2025 14:56:42 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.6719932	.1903195	.8989058	F .6049936	F -.017227	.1960304
Stddev	.0049660	.0016323	.0239436	.0045359	.004465	.0017020
%RSD	.7389915	.8576493	2.663642	.7497488	25.91647	.8682393
#1	.6750182	.1913250	.9150344	.6096535	-.020758	.1966653
#2	.6746996	.1911974	.9102888	.6047345	-.018714	.1941023
#3	.6662620	.1884362	.8713941	.6005928	-.012208	.1973238

Elem	Sr4077
Units	ppm
Avg	.1905205
Stddev	.0015797
%RSD	.8291482
#1	.1920935
#2	.1905338
#3	.1889342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2919.439	57316.03	7392.267	2160.666	4029.274
Stddev	24.877	460.41	73.661	24.449	29.853
%RSD	.8520996	.8032808	.9964595	1.131572	.7408949
#1	2892.686	57381.48	7324.682	2166.546	3998.247
#2	2923.757	56826.41	7381.337	2133.813	4031.782
#3	2941.874	57740.22	7470.783	2181.640	4057.794

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-01 Acquired: 12/9/2025 15:00:47 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0450652**	**.0025881**	**16.98982**	**.0009955**	**.1549426**	**1.464988**
Stddev	.0052152	.0052263	.07477	.0111713	.0031764	.005853
%RSD	11.57256	201.9374	.4400685	1122.193	2.050084	.3995525
#1	.0452542	-.001603	17.03031	.0043478	.1516667	1.469997
#2	.0501834	.000924	16.90354	.0101068	.1551519	1.466414
#3	.0397581	.008444	17.03561	-.011468	.1580092	1.458554

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1321493**	**-.000038**	**.0256688**	**198.5597**	**.0146864**	**.0082401**
Stddev	.0014734	.000049	.0002432	1.1593	.0002973	.0004606
%RSD	1.114931	127.8332	.9475697	.5838563	2.024523	5.589107
#1	.1329457	-.000052	.0257383	199.3671	.0144195	.0081582
#2	.1330531	.000016	.0253984	199.0807	.0146327	.0078259
#3	.1304491	-.000079	.0258697	197.2313	.0150069	.0087361

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3200286**	**6.552240**	**1.120468**	**35.85184**	**.0244371**	**-.000359**
Stddev	.0023646	.022008	.006438	.04905	.0005263	.000106
%RSD	.7388810	.3358779	.5746037	.1368027	2.153768	29.52949
#1	.3218645	6.550434	1.125642	35.87264	.0242587	-.000389
#2	.3173603	6.531190	1.122504	35.88706	.0250294	-.000448
#3	.3208609	6.575094	1.113258	35.79583	.0240231	-.000242

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.78616**	**.0067870**	**.5037066**	**5.695163**	**.0619651**	**.0032155**
Stddev	.05545	.0030918	.0031517	.011680	.0013837	.0001900
%RSD	.1393819	45.55532	.6257045	.2050841	2.232962	5.908589
#1	39.81291	.0101871	.5001631	5.706623	.0635392	.0033521
#2	39.82317	.0060298	.5047600	5.683275	.0614150	.0032959
#3	39.72240	.0041440	.5061967	5.695591	.0609410	.0029986

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-01 Acquired: 12/9/2025 15:00:47 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0345360	.0225861	F 14.34681	.0411398	F 67.52558	-.027727
Stddev	.0006304	.0016547	.03085	.0005718	.28895	.000512
%RSD	1.825281	7.326048	.2150248	1.389904	.4279159	1.847205
#1	.0352198	.0244833	14.31799	.0411079	67.61072	-.027818
#2	.0339780	.0214419	14.37935	.0405846	67.20362	-.027175
#3	.0344102	.0218330	14.34307	.0417269	67.76239	-.028187

Elem	Sr4077
Units	ppm
Avg	.7071470
Stddev	.0052343
%RSD	.7402002
#1	.7114159
#2	.7087180
#3	.7013071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2756.735	55863.02	7264.866	2018.221	3719.384
Stddev	17.382	75.26	51.597	8.295	17.175
%RSD	.6305257	.1347169	.7102200	.4109957	.4617591
#1	2737.316	55786.33	7223.561	2027.534	3703.146
#2	2770.839	55865.97	7248.334	2011.627	3737.363
#3	2762.051	55936.76	7322.702	2015.502	3717.644

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-02 Acquired: 12/9/2025 15:04:58 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.005712**	**.0017954**	**.0222061**	**.0030415**	**.0056133**	**.0593942**	**.0060328**
Stddev	.002263	.0002873	.0013921	.0035577	.0014844	.0052146	.0004677
%RSD	39.62202	16.00277	6.268992	116.9726	26.44465	8.779631	7.752384
#1	-.008243	.0016525	.0209264	.0026866	.0064699	.0585233	.0065528
#2	-.005009	.0021262	.0220036	-.000325	.0038992	.0649894	.0058988
#3	-.003884	.0016077	.0236884	.006763	.0064707	.0546698	.0056467

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000142**	**.0000545**	**9.126368**	**.0025503**	**-.000174**	**.0063031**	**.1074413**
Stddev	.000017	.0001110	.054677	.0001541	.000089	.0005349	.0023215
%RSD	11.98735	203.7414	.5991060	6.043859	51.21801	8.486103	2.160681
#1	-.000123	-.000058	9.069676	.0024382	-.000275	.0056877	.1100757
#2	-.000145	.000164	9.178777	.0027260	-.000140	.0065654	.1065532
#3	-.000156	.000057	9.130653	.0024866	-.000106	.0066561	.1056949

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052877**	**.7612191**	**.0009706**	**-.000718**	**.4204891**	**.0011499**	**1.181898**
Stddev	.0005148	.0100273	.0002360	.000325	.0061720	.0006439	.035562
%RSD	9.734846	1.317271	24.31265	45.30818	1.467813	55.99771	3.008932
#1	.0055742	.7498949	.0007507	-.000885	.4146751	.0017103	1.140834
#2	.0055953	.7689713	.0009411	-.000926	.4198266	.0012931	1.202360
#3	.0046934	.7647912	.0012199	-.000343	.4269656	.0004465	1.202499

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2690290**	**-.000961**	**.0011155**	**-.024054**	**.0027912**	**.2868471**	**.0029300**
Stddev	.0244344	.000902	.0000614	.000964	.0014952	.0063229	.0003176
%RSD	9.082422	93.93005	5.507415	4.007784	53.56971	2.204274	10.84027
#1	.2408172	-.000351	.0011302	-.023549	.0034556	.2858680	.0030874
#2	.2828055	-.000533	.0010481	-.023448	.0010789	.2810709	.0031382
#3	.2834643	-.001997	.0011683	-.025166	.0038391	.2936024	.0025644

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-02 Acquired: 12/9/2025 15:04:58 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.8551305	-.004149	.0258272
Stddev	.0085060	.002080	.0002101
%RSD	.9947025	50.11906	.8136540
#1	.8649345	-.001889	.0255849
#2	.8507410	-.005982	.0259596
#3	.8497160	-.004576	.0259370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2960.623	57803.86	7247.780	2185.250	4195.193
Stddev	27.070	1933.34	30.234	51.537	37.194
%RSD	.9143288	3.344651	.4171496	2.358416	.8865960
#1	2929.480	60031.64	7245.361	2244.624	4153.926
#2	2978.505	56814.63	7218.828	2159.047	4226.131
#3	2973.885	56565.30	7279.151	2152.078	4205.523

Sample Name: CCV03 Acquired: 12/9/2025 15:09:13 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.911523**	**4.785758**	**4.848177**	**4.991838**	**5.002473**	**9.661709**	**9.795646**
Stddev	.012002	.131922	.009203	.015432	.021720	.015954	.038523
%RSD	.2443541	2.756547	.1898289	.3091521	.4341851	.1651236	.3932647
#1	4.899474	4.653236	4.848400	4.979924	5.013642	9.644315	9.755786
#2	4.911617	4.786969	4.838864	4.986319	4.977442	9.665153	9.798476
#3	4.923476	4.917071	4.857267	5.009271	5.016336	9.675659	9.832675

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2262620**	**2.405327**	**24.15959**	**.9527342**	**2.434799**	**1.249147**	**5.108350**
Stddev	.0011728	.004788	.07373	.0025559	.005077	.004217	.016514
%RSD	.5183461	.1990386	.3051797	.2682726	.2085097	.3376113	.3232689
#1	.2276097	2.404208	24.21425	.9511747	2.435599	1.249503	5.095302
#2	.2257040	2.401197	24.18878	.9513441	2.429370	1.244763	5.126916
#3	.2254724	2.410574	24.07573	.9556839	2.439429	1.253175	5.102831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.449607**	**23.80171**	**2.425980**	**1.209136**	**25.83839**	**2.439727**	**2.413848**
Stddev	.018640	.04080	.005812	.002267	.10559	.001294	.008081
%RSD	.7609304	.1714025	.2395673	.1875114	.4086641	.0530347	.3347866
#1	2.462253	23.76602	2.425949	1.209287	25.80771	2.438276	2.418506
#2	2.458367	23.79294	2.420183	1.206797	25.95592	2.440761	2.404517
#3	2.428201	23.84618	2.431807	1.211324	25.75153	2.440144	2.418522

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.27338**	**4.563671**	**4.962973**	**4.847690**	**4.886506**	**5.232268**	**4.948696**
Stddev	.09805	.021210	.015950	.006998	.029474	.059819	.013032
%RSD	.3879435	.4647607	.3213750	.1443471	.6031811	1.143264	.2633480
#1	25.17398	4.586135	4.959732	4.841487	4.904427	5.194151	4.937737
#2	25.27617	4.560888	4.948893	4.855275	4.902604	5.201441	4.945244
#3	25.37001	4.543990	4.980295	4.846308	4.852488	5.301213	4.963107

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV03 Acquired: 12/9/2025 15:09:13 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.854856**	**4.776515**	**4.962619**
Stddev	.036981	.032795	.054730
%RSD	.7617422	.6865827	1.102835
#1	4.812265	4.790717	4.957842
#2	4.873477	4.799814	5.019581
#3	4.878825	4.739013	4.910435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2831.416**	**56575.75**	**7384.892**	**2175.779**	**3721.083**
Stddev	9.987	73.59	31.819	8.759	8.026
%RSD	.3527347	.1300750	.4308688	.4025752	.2156960
#1	2826.882	56637.84	7358.039	2179.668	3713.937
#2	2842.866	56594.94	7376.602	2181.921	3729.767
#3	2824.499	56494.46	7420.036	2165.749	3719.545

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB03 Acquired: 12/9/2025 15:13:25 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0011358**	**.0050341**	**-.000861**	**-.001409**	**.0008879**	**-.011651**	**-.001873**
Stddev	.0007644	.0023628	.001125	.003543	.0016988	.003215	.000314
%RSD	67.29770	46.93626	130.5953	251.4108	191.3180	27.59734	16.78595
#1	.0012484	.0077094	-.001511	-.005378	-.000214	-.008217	-.002190
#2	.0003214	.0041599	-.001511	.001435	.002844	-.014591	-.001867
#3	.0018376	.0032329	.000438	-.000285	.000033	-.012145	-.001561

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000015**	**.0000416**	**.0051915**	**-.000108**	**-.000041**	**-.000221**	**-.005646**
Stddev	.0000689	.0000152	.0096746	.000339	.000042	.000636	.002933
%RSD	4496.875	36.50010	186.3546	314.7847	102.6956	288.2197	51.93606
#1	-.000068	.0000257	.0160828	-.000196	-.000060	-.000939	-.003019
#2	.000069	.0000433	-.002407	.000267	.000007	.000008	-.005110
#3	.000004	.0000559	.001899	-.000393	-.000070	.000269	-.008810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000268**	**.0068213**	**.0001360**	**-.000640**	**.1868576**	**.0008220**	**-.000481**
Stddev	.000668	.0339677	.0002011	.000369	.0328612	.0007964	.000398
%RSD	248.8117	497.9648	147.9122	57.57091	17.58622	96.88824	82.73037
#1	-.000086	-.019299	.0003352	-.000966	.1574444	.0000179	-.000022
#2	.000289	-.005458	-.000067	-.000240	.1808036	.0008375	-.000687
#3	-.001009	.045221	.000140	-.000714	.2223249	.0016106	-.000733

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1242430**	**.0003563**	**.0001805**	**-.016979**	**.0002205**	**.0134689**	**.0004033**
Stddev	.0426541	.0003755	.0002316	.000536	.0023788	.0081205	.0001767
%RSD	34.33116	105.3755	128.3374	3.159467	1078.783	60.29070	43.81646
#1	.1231345	.0007878	-.000076	-.016378	.0009639	.0057738	.0005420
#2	.0821540	.0001036	.000373	-.017410	-.002441	.0219567	.0002044
#3	.1674405	.0001776	.000245	-.017149	.002139	.0126763	.0004635

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB03 Acquired: 12/9/2025 15:13:25 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.011542	.0002541	.0000440
Stddev	.001752	.0011428	.0000213
%RSD	15.18160	449.8091	48.49508
#1	-.013557	-.001050	.0000227
#2	-.010694	.000730	.0000653
#3	-.010376	.001082	.0000439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2948.389	58551.11	7646.315	2221.641	4151.757
Stddev	5.664	76.52	85.151	4.083	10.578
%RSD	.1921127	.1306893	1.113627	.1837859	.2547722
#1	2941.877	58593.06	7719.120	2216.928	4140.010
#2	2952.171	58597.48	7552.682	2223.892	4160.527
#3	2951.119	58462.79	7667.144	2224.103	4154.735

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-03 Acquired: 12/9/2025 15:17:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000195**	**.0031605**	**.0508981**	**.0050206**	**.0053033**	**.0336257**	**.0175655**
Stddev	.003674	.0040189	.0013221	.0036897	.0030767	.0055118	.0001978
%RSD	1888.659	127.1593	2.597454	73.49013	58.01582	16.39169	1.126086
#1	.003790	.0049869	.0496106	.0010561	.0084207	.0272876	.0173495
#2	-.000925	.0059418	.0508316	.0056516	.0052201	.0372959	.0176091
#3	-.003448	-.001447	.0522522	.0083540	.0022690	.0362937	.0177378

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000174**	**.0002456**	**17.09067**	**.0008197**	**-.000195**	**.0057591**	**.0582512**
Stddev	.000032	.0000485	.13048	.0001664	.000196	.0002508	.0028150
%RSD	18.21121	19.75081	.7634743	20.30204	100.5243	4.355207	4.832440
#1	-.000146	.0003012	16.99257	.0006619	.000017	.0059342	.0599252
#2	-.000169	.0002239	17.04070	.0009936	-.000233	.0054717	.0598271
#3	-.000208	.0002118	17.23876	.0008037	-.000370	.0058713	.0550012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072621**	**3.787292**	**.0006936**	**-.000441**	**5.012812**	**.0011478**	**.0736643**
Stddev	.0003120	.057280	.0003722	.000225	.068698	.0030239	.0002088
%RSD	4.295915	1.512432	53.66002	51.07795	1.370454	263.4575	.2834115
#1	.0073348	3.721210	.0008332	-.000442	5.091206	.0045384	.0736630
#2	.0075314	3.822745	.0002718	-.000215	4.963113	.0001748	.0738737
#3	.0069202	3.817922	.0009757	-.000665	4.984118	-.001270	.0734562

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.124922**	**.0259576**	**.0013805**	**-.022490**	**.0020577**	**1.422190**	**.0021582**
Stddev	.043570	.0011857	.0001545	.001073	.0018468	.008289	.0003570
%RSD	3.873187	4.567937	11.19597	4.770366	89.74995	.5828575	16.54386
#1	1.174840	.0268359	.0013508	-.022077	.0012291	1.431357	.0021146
#2	1.094532	.0246088	.0012429	-.023707	.0007704	1.415222	.0025351
#3	1.105394	.0264280	.0015477	-.021684	.0041738	1.419990	.0018250

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-03 Acquired: 12/9/2025 15:17:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.457760**	**-.004923**	**.0815001**
Stddev	.013270	.000880	.0005275
%RSD	.5399237	17.86630	.6472718
#1	2.451862	-.004022	.0811426
#2	2.448460	-.004967	.0812517
#3	2.472956	-.005780	.0821060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2900.586**	**56654.90**	**7293.817**	**2085.634**	**4105.787**
Stddev	2.217	401.43	66.827	20.952	3.286
%RSD	.0764332	.7085599	.9162117	1.004579	.0800220
#1	2901.888	56215.43	7327.867	2062.840	4109.577
#2	2901.844	57002.30	7336.761	2104.054	4103.748
#3	2898.026	56746.98	7216.823	2090.007	4104.035

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-04 Acquired: 12/9/2025 15:22:04 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000586**	**-.000388**	**.2242239**	**.0113728**	**.0243796**	**.0320743**	**.0415492**
Stddev	.003946	.002784	.0026108	.0023563	.0010253	.0035972	.0010775
%RSD	673.2307	716.5227	1.164378	20.71907	4.205733	11.21511	2.593271
#1	-.004820	-.003465	.2272349	.0087807	.0255633	.0309861	.0412484
#2	.000071	.001956	.2225887	.0133851	.0237668	.0291469	.0406541
#3	.002990	.000344	.2228481	.0119527	.0238087	.0360899	.0427452

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000059**	**.0016865**	**28.36525**	**.0005090**	**-.000152**	**.0139510**	**.7169475**
Stddev	.000058	.0000628	.41793	.0002842	.000189	.0003270	.0180346
%RSD	99.04326	3.722386	1.473404	55.83237	124.4793	2.343738	2.515472
#1	-.000022	.0017560	27.93872	.0005414	-.000143	.0142763	.7220787
#2	-.000029	.0016340	28.38300	.0007755	-.000345	.0136223	.6969033
#3	-.000126	.0016694	28.77402	.0002100	.000033	.0139544	.7318604

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0252021**	**3.227425**	**.0015572**	**-.001113**	**.5554449**	**.0016133**	**.0482588**
Stddev	.0008674	.050341	.0001429	.000303	.0065237	.0005103	.0004844
%RSD	3.441717	1.559793	9.173536	27.26156	1.174493	31.63118	1.003662
#1	.0245714	3.179908	.0016997	-.001383	.5530482	.0017962	.0482933
#2	.0248437	3.222187	.0015580	-.000785	.5504586	.0020070	.0477582
#3	.0261913	3.280181	.0014140	-.001170	.5628279	.0010368	.0487250

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.194494**	**.0058250**	**.0015262**	**-.023404**	**-.000957**	**.6679415**	**.0038793**
Stddev	.061540	.0006401	.0002298	.000667	.000698	.0054496	.0002156
%RSD	2.804288	10.98831	15.05365	2.850916	72.93723	.8158754	5.557895
#1	2.131744	.0051097	.0017572	-.023195	-.000653	.6619493	.0041262
#2	2.196991	.0060215	.0015237	-.022866	-.000462	.6692737	.0037281
#3	2.254748	.0063437	.0012977	-.024151	-.001755	.6726013	.0037836

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-04 Acquired: 12/9/2025 15:22:04 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.193233**	**-.007627**	**.1790683**
Stddev	.062245	.000662	.0031846
%RSD	1.484407	8.677668	1.778406
#1	4.265066	-.006884	.1756112
#2	4.159428	-.008154	.1797118
#3	4.155206	-.007842	.1818821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2896.525**	**56460.91**	**7294.398**	**2072.532**	**4088.477**
Stddev	27.739	495.78	65.530	10.727	40.296
%RSD	.9576500	.8780985	.8983592	.5175826	.9855951
#1	2871.421	56158.51	7361.570	2062.597	4046.509
#2	2891.849	57033.08	7290.981	2083.906	4092.060
#3	2926.304	56191.13	7230.644	2071.092	4126.861

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-05 Acquired: 12/9/2025 15:26:23 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0027465**	**.0034729**	**.7354110**	**.0259272**	**.0529961**	**.0744870**
Stddev	.0029507	.0029098	.0054034	.0065724	.0023199	.0064157
%RSD	107.4342	83.78533	.7347465	25.34960	4.377393	8.613216
#1	.0054141	.0001190	.7298530	.0202997	.0509088	.0816811
#2	.0032484	.0053238	.7406453	.0243313	.0525857	.0693585
#3	-.000423	.0049760	.7357349	.0331507	.0554938	.0724214

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0358796**	**-.000071**	**.1335011**	**54.20460**	**.0018668**	**.0005621**
Stddev	.0006429	.000061	.0011854	.20957	.0003199	.0002109
%RSD	1.791702	85.74727	.8879518	.3866246	17.13400	37.52171
#1	.0351379	-.000051	.1321344	54.39559	.0021617	.0003997
#2	.0362758	-.000139	.1342515	54.23780	.0019120	.0008005
#3	.0362252	-.000022	.1341172	53.98042	.0015268	.0004862

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0286904**	**.6289129**	**.0476345**	**10.44686**	**.0135798**	**-.000315**
Stddev	.0007870	.0079541	.0003848	.07154	.0002666	.000212
%RSD	2.743236	1.264740	.8078423	.6848020	1.963379	67.37819
#1	.0283736	.6338891	.0480498	10.51728	.0137393	-.000141
#2	.0295865	.6331103	.0472899	10.44906	.0137281	-.000551
#3	.0281111	.6197392	.0475638	10.37425	.0132720	-.000253

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.219591**	**.0021933**	**.2115849**	**2.678696**	**.0272151**	**.0024449**
Stddev	.053413	.0017293	.0014675	.035259	.0007053	.0003149
%RSD	.7398290	78.84531	.6935871	1.316290	2.591424	12.88054
#1	7.220945	.0017375	.2113665	2.639871	.0271612	.0021739
#2	7.272314	.0041048	.2102389	2.687492	.0279457	.0023704
#3	7.165514	.0007376	.2131494	2.708724	.0265383	.0027904

Sample Name: Q3764-05 Acquired: 12/9/2025 15:26:23 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.023634	-.000396	3.268414	.0043544	F 22.19085	-.007771
Stddev	.000816	.000261	.010959	.0005474	.21791	.001683
%RSD	3.452113	66.09484	.3353097	12.57163	.9819840	21.65300
#1	-.024571	-.000130	3.255815	.0037277	21.94637	-.005959
#2	-.023251	-.000405	3.273683	.0045963	22.36464	-.008071
#3	-.023080	-.000652	3.275744	.0047391	22.26153	-.009284

Elem	Sr4077
Units	ppm
Avg	.1149972
Stddev	.0005909
%RSD	.5138379
#1	.1156129
#2	.1149441
#3	.1144347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.980	59173.15	7182.002	2170.387	4001.336
Stddev	24.179	85.74	33.836	9.685	31.097
%RSD	.8395668	.1448981	.4711186	.4462149	.7771572
#1	2907.608	59227.26	7153.529	2167.319	4037.101
#2	2862.676	59217.90	7219.408	2181.235	3986.223
#3	2869.657	59074.29	7173.068	2162.609	3980.684

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-06 Acquired: 12/9/2025 15:30:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.002344**	**-.004064**	**.0045252**	**-.004700**	**.0112057**	**.0589524**
Stddev	.001729	.002623	.0017208	.000636	.0012832	.0108533
%RSD	73.75177	64.55432	38.02671	13.53788	11.45105	18.41035
#1	-.004240	-.001084	.0043129	-.005351	.0105500	.0677864
#2	-.000857	-.006027	.0063422	-.004669	.0126843	.0622337
#3	-.001934	-.005080	.0029203	-.004080	.0103830	.0468370

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0359020**	**-.000260**	**-.000000**	**133.1341**	**.0011277**	**-.000334**
Stddev	.0015528	.000065	.000039	5.3981	.0003014	.000214
%RSD	4.325216	24.85460	8800.539	4.054660	26.72953	64.08738
#1	.0376329	-.000210	.000004	138.0254	.0012197	-.000580
#2	.0346314	-.000238	.000036	127.3424	.0007910	-.000192
#3	.0354415	-.000333	-.000041	134.0344	.0013724	-.000230

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017714**	**.0658649**	**.0290715**	**25.96844**	**.0020927**	**-.000553**
Stddev	.0000330	.0086047	.0009756	1.07905	.0000552	.000393
%RSD	1.862479	13.06419	3.355938	4.155240	2.636225	71.20294
#1	.0018000	.0680200	.0298202	26.93767	.0020482	-.000104
#2	.0017353	.0563875	.0279682	24.80574	.0020755	-.000837
#3	.0017789	.0731873	.0294261	26.16191	.0021545	-.000717

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.38705**	**.0013029**	**.0346706**	**9.335413**	**.0856659**	**.0015712**
Stddev	.17983	.0013031	.0006961	.041415	.0041915	.0002558
%RSD	.7374138	100.0219	2.007753	.4436288	4.892863	16.28335
#1	24.45586	.0011460	.0353867	9.382257	.0891869	.0016575
#2	24.52231	.0000852	.0346288	9.303662	.0810295	.0017727
#3	24.18297	.0026773	.0339964	9.320319	.0867811	.0012834

Sample Name: Q3764-06 Acquired: 12/9/2025 15:30:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.026057	-.005218	F 25.06501	.0019165	F 49.24320	-.014559
Stddev	.000979	.002230	.18214	.0001255	.54549	.002280
%RSD	3.758863	42.73568	.7266607	6.545975	1.107744	15.66173
#1	-.025180	-.007701	25.23211	.0020504	49.53762	-.016203
#2	-.025878	-.004565	25.09206	.0018973	49.57822	-.011956
#3	-.027114	-.003387	24.87086	.0018017	48.61376	-.015518

Elem	Sr4077
Units	ppm
Avg	.3574718
Stddev	.0133168
%RSD	3.725280
#1	.3697978
#2	.3433470
#3	.3592705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2832.867	55915.58	7035.264	2137.090	3825.800
Stddev	.719	480.13	302.756	28.917	10.408
%RSD	.0253739	.8586653	4.303407	1.353106	.2720443
#1	2832.156	55419.54	6758.479	2104.387	3820.393
#2	2833.594	55949.17	7358.599	2147.603	3819.208
#3	2832.850	56378.03	6988.713	2159.280	3837.798

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-07 Acquired: 12/9/2025 15:34:51 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0054728**	**.0047935**	**12.79486**	**-.001605**	**.0083180**	**.1430219**
Stddev	.0017074	.0026275	.13724	.002529	.0014568	.0073730
%RSD	31.19737	54.81449	1.072591	157.5902	17.51429	5.155189
#1	.0037120	.0017623	12.95046	-.002110	.0092806	.1497311
#2	.0055853	.0064219	12.74299	.001139	.0090314	.1442062
#3	.0071212	.0061962	12.69111	-.003844	.0066419	.1351284

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1086366**	**-.000157**	**.0788930**	**22.70668**	**.0129760**	**.0021018**
Stddev	.0032344	.000090	.0008760	.52021	.0006199	.0001802
%RSD	2.977237	57.38549	1.110305	2.291012	4.777699	8.572946
#1	.1101664	-.000236	.0798828	22.94064	.0130191	.0022113
#2	.1108222	-.000176	.0785785	23.06884	.0135732	.0022003
#3	.1049211	-.000059	.0782177	22.11057	.0123356	.0018939

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0976482**	**1.017659**	**.2994669**	**1.004312**	**.0494415**	**-.000165**
Stddev	.0014062	.022790	.0073961	.047129	.0006571	.000312
%RSD	1.440064	2.239465	2.469755	4.692659	1.328987	189.2608
#1	.0991970	1.008195	.3022383	.982450	.0499313	-.000275
#2	.0972959	1.043657	.3050770	1.058402	.0496985	-.000406
#3	.0964517	1.001127	.2910853	.972085	.0486948	.000187

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.521338**	**.0000648**	**.4679077**	**4.377073**	**.0320187**	**.0000723**
Stddev	.050844	.0015576	.0091239	.039793	.0014464	.0000798
%RSD	2.016564	2404.321	1.949944	.9091217	4.517421	110.3549
#1	2.522577	-.001607	.4627865	4.374365	.0323205	.0001576
#2	2.571551	.000325	.4784418	4.418150	.0332903	.0000597
#3	2.469885	.001476	.4624949	4.338703	.0304451	-.000000

Sample Name: Q3764-07 Acquired: 12/9/2025 15:34:51 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.023428	-.001163	2.304883	.0090597	F 21.20825	-.001956
Stddev	.000185	.001364	.034015	.0001589	.27010	.001041
%RSD	.7910786	117.3484	1.475801	1.754059	1.273561	53.20679
#1	-.023280	-.002224	2.291888	.0092409	21.49004	-.000760
#2	-.023369	.000376	2.343480	.0089944	21.18311	-.002657
#3	-.023636	-.001639	2.279281	.0089439	20.95160	-.002451

Elem	Sr4077
Units	ppm
Avg	.1109528
Stddev	.0027564
%RSD	2.484298
#1	.1124072
#2	.1126774
#3	.1077738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2971.844	60225.03	7302.719	2260.684	4200.557
Stddev	29.452	874.94	175.016	42.488	45.817
%RSD	.9910414	1.452781	2.396592	1.879418	1.090726
#1	2939.503	60736.03	7225.245	2284.438	4149.149
#2	2978.906	59214.76	7179.811	2211.631	4215.440
#3	2997.124	60724.31	7503.100	2285.982	4237.081

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-08 Acquired: 12/9/2025 15:39:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1541946**	**.0101719**	**42.28464**	**.0237602**	**.4825362**	**1.936321**	**.0959544**
Stddev	.0032139	.0068171	.29906	.0024281	.0053944	.017237	.0014004
%RSD	2.084343	67.01860	.7072428	10.21906	1.117933	.8901762	1.459394
#1	.1578965	.0174506	42.59925	.0251777	.4855559	1.926300	.0947598
#2	.1525701	.0091284	42.00406	.0209566	.4763082	1.956224	.0974955
#3	.1521172	.0039368	42.25061	.0251463	.4857445	1.926439	.0956080

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002671**	**.8746374**	**31.69338**	**.0786634**	**.0035762**	**1.070070**	**15.09982**
Stddev	.0001126	.0063493	.31783	.0004590	.0000988	.008856	.02450
%RSD	42.14625	.7259372	1.002818	.5835118	2.763333	.8276050	.1622657
#1	.0003813	.8816439	31.62632	.0782715	.0036444	1.078561	15.07193
#2	.0001562	.8692644	32.03938	.0785503	.0036214	1.060890	15.10966
#3	.0002638	.8730041	31.41443	.0791684	.0034629	1.070759	15.11787

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2184009**	**12.79950**	**.0928858**	**-.000415**	**2.531680**	**.0060919**	**1.507059**
Stddev	.0020448	.16291	.0003602	.000739	.021797	.0024972	.003697
%RSD	.9362786	1.272820	.3878240	178.0284	.8609720	40.99136	.2453435
#1	.2177526	12.76584	.0931681	-.000828	2.510886	.0036167	1.502822
#2	.2206912	12.97662	.0924801	-.000856	2.529798	.0086104	1.508725
#3	.2167587	12.65605	.0930093	.000438	2.554358	.0060487	1.509631

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.173998**	**.0295223**	**.0071060**	**.1579765**	**.0642238**	**3.959643**	**.0353672**
Stddev	.019801	.0003253	.0002988	.0018110	.0012390	.009100	.0000158
%RSD	.6238590	1.102025	4.204380	1.146393	1.929257	.2298118	.0447731
#1	3.160040	.0294238	.0072526	.1591648	.0639013	3.952202	.0353855
#2	3.196661	.0298855	.0073032	.1558922	.0655923	3.969788	.0353577
#3	3.165295	.0292576	.0067623	.1588727	.0631779	3.956939	.0353584

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-08 Acquired: 12/9/2025 15:39:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.054647	-.002629	.0958383
Stddev	.083004	.000331	.0009569
%RSD	1.370919	12.59093	.9984422
#1	6.148055	-.002360	.0958221
#2	5.989344	-.002528	.0968031
#3	6.026541	-.002999	.0948895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2950.117	57703.54	7649.102	2145.111	4119.213
Stddev	21.449	160.53	105.303	3.373	28.307
%RSD	.7270390	.2781935	1.376678	.1572645	.6872056
#1	2928.562	57841.99	7674.478	2147.304	4087.834
#2	2971.458	57527.58	7533.429	2141.227	4142.830
#3	2950.332	57741.06	7739.398	2146.803	4126.975

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-09 Acquired: 12/9/2025 15:43:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0093556**	**.0058819**	**.2459383**	**.0057639**	**.0322952**	**.0132358**	**.0270363**
Stddev	.0025156	.0032113	.0021223	.0019563	.0018146	.0076459	.0008615
%RSD	26.88877	54.59639	.8629246	33.94109	5.618860	57.76668	3.186545
#1	.0068247	.0023821	.2482768	.0058221	.0335413	.0148452	.0261260
#2	.0118556	.0086929	.2441347	.0076905	.0302133	.0199489	.0271438
#3	.0093863	.0065709	.2454033	.0037791	.0331311	.0049134	.0278389

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000258**	**.0492864**	**20.99557**	**.0004904**	**.0048803**	**.0143138**	**1.541155**
Stddev	.000068	.0003152	.26326	.0002993	.0001623	.0002020	.012802
%RSD	26.35261	.6396258	1.253898	61.03327	3.324932	1.410958	.8306578
#1	-.000216	.0494046	20.70154	.0001616	.0049526	.0141052	1.541562
#2	-.000336	.0489291	21.20941	.0005624	.0046944	.0143279	1.528154
#3	-.000221	.0495254	21.07577	.0007471	.0049938	.0145084	1.553748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.789096**	**2.638316**	**.0062956**	**-.000625**	**6.540855**	**.0018362**	**.4087686**
Stddev	.014308	.024334	.0001048	.000629	.011473	.0019652	.0013413
%RSD	.7997248	.9223398	1.663908	100.7154	.1754018	107.0246	.3281229
#1	1.774850	2.612816	.0063876	-.000611	6.545115	-.000431	.4073518
#2	1.803465	2.640846	.0061816	-.001261	6.527862	.003051	.4089352
#3	1.788972	2.661287	.0063176	-.000002	6.549589	.002889	.4100187

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.418225**	**.0223616**	**.0009666**	**-.024326**	**-.000431**	**2.118705**	**.0041032**
Stddev	.029312	.0006244	.0002055	.000331	.000847	.011529	.0001228
%RSD	.5409959	2.792106	21.26459	1.359938	196.4041	.5441487	2.991873
#1	5.384494	.0217588	.0012005	-.024504	.000215	2.115904	.0042381
#2	5.437518	.0223205	.0008151	-.024530	-.000119	2.108835	.0039979
#3	5.432664	.0230055	.0008840	-.023944	-.001390	2.131376	.0040737

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-09 Acquired: 12/9/2025 15:43:12 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.192093**	**-.000435**	**.0740897**
Stddev	.058319	.001470	.0005024
%RSD	.7118920	337.9512	.6781239
#1	8.170165	-.002032	.0736143
#2	8.147916	-.000135	.0746154
#3	8.258197	.000862	.0740393

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2918.852**	**56450.20**	**7653.587**	**2117.974**	**4109.201**
Stddev	12.687	158.77	46.443	3.927	16.494
%RSD	.4346743	.2812641	.6068182	.1854189	.4013929
#1	2904.798	56448.64	7701.250	2117.733	4094.063
#2	2929.463	56609.74	7608.468	2122.017	4126.779
#3	2922.293	56292.20	7651.044	2114.174	4106.761

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10 Acquired: 12/9/2025 15:47:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0019403**	**.0045227**	**.4176704**	**.0027517**	**.0374711**	**.0876137**	**.0372480**
Stddev	.0010238	.0038576	.0012831	.0045659	.0022627	.0070125	.0007400
%RSD	52.76798	85.29416	.3072125	165.9280	6.038628	8.003876	1.986601
#1	.0007637	.0013968	.4191212	-.002208	.0381135	.0853384	.0370021
#2	.0024285	.0088338	.4166847	.003684	.0393432	.0954813	.0380797
#3	.0026286	.0033374	.4172052	.006780	.0349566	.0820214	.0366623

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000113**	**.0203722**	**26.45643**	**.0010023**	**.0010348**	**.0109298**	**.4981173**
Stddev	.000048	.0000812	.03306	.0005158	.0002650	.0004449	.0046122
%RSD	42.40542	.3988226	.1249673	51.45644	25.60271	4.070886	.9259307
#1	-.000096	.0204096	26.43904	.0014059	.0007506	.0107861	.4952766
#2	-.000076	.0202790	26.43569	.0004213	.0012750	.0105745	.4956364
#3	-.000167	.0204280	26.49456	.0011799	.0010790	.0114289	.5034390

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0340252**	**11.93070**	**.0077070**	**-.000727**	**1.850920**	**.0003794**	**.0383446**
Stddev	.0011833	.05994	.0005561	.000389	.021364	.0009347	.0004118
%RSD	3.477567	.5024386	7.215609	53.53247	1.154248	246.3957	1.073887
#1	.0326620	11.86763	.0073533	-.000716	1.847849	-.000699	.0387296
#2	.0346269	11.98693	.0074198	-.001122	1.831258	.000956	.0379105
#3	.0347867	11.93755	.0083480	-.000344	1.873654	.000881	.0383938

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.706829**	**.0216905**	**.0019698**	**-.023463**	**-.000596**	**.2166597**	**.0068279**
Stddev	.088045	.0010838	.0001048	.000147	.000823	.0062641	.0001752
%RSD	1.870589	4.996485	5.320894	.6246969	138.1353	2.891223	2.565752
#1	4.710989	.0228256	.0020807	-.023539	.000184	.2094804	.0069634
#2	4.616778	.0215793	.0019563	-.023556	-.001457	.2210123	.0066301
#3	4.792721	.0206667	.0018724	-.023294	-.000515	.2194863	.0068904

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10 Acquired: 12/9/2025 15:47:26 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.340799**	**-.006612**	**.0951712**
Stddev	.095736	.001275	.0002453
%RSD	1.147807	19.28406	.2577166
#1	8.450821	-.005959	.0948950
#2	8.276470	-.005796	.0952548
#3	8.295107	-.008081	.0953637

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2907.495**	**57159.54**	**7276.579**	**2140.519**	**4080.579**
Stddev	12.027	530.22	25.811	15.617	16.237
%RSD	.4136393	.9276219	.3547068	.7295761	.3979214
#1	2893.688	56627.01	7260.818	2123.583	4062.586
#2	2915.692	57687.43	7262.553	2154.349	4094.141
#3	2913.104	57164.17	7306.365	2143.627	4085.010

Sample Name: Q3764-10DUP Acquired: 12/9/2025 15:51:42 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0042737**	**.0024003**	**.4184765**	**.0086543**	**.0364872**	**.0785582**	**.0373494**
Stddev	.0022976	.0023079	.0026734	.0020472	.0025680	.0060232	.0006277
%RSD	53.76156	96.14936	.6388454	23.65472	7.038172	7.667126	1.680691
#1	.0016230	.0017774	.4215412	.0078368	.0379853	.0853700	.0373843
#2	.0055026	.0004678	.4166235	.0109839	.0379543	.0739364	.0367050
#3	.0056955	.0049558	.4172647	.0071423	.0335219	.0763683	.0379590

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000162**	**.0204002**	**26.70554**	**.0009559**	**.0009235**	**.0114662**	**.5127200**
Stddev	.000066	.0001903	.16999	.0000724	.0001366	.0002725	.0173996
%RSD	40.91318	.9326385	.6365185	7.579872	14.79115	2.376406	3.393580
#1	-.000163	.0206189	26.87186	.0010221	.0008345	.0117788	.4966095
#2	-.000095	.0202726	26.53211	.0008785	.0010807	.0112790	.5311716
#3	-.000227	.0203092	26.71264	.0009670	.0008552	.0113408	.5103790

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0347246**	**11.98936**	**.0074335**	**-.000717**	**1.929399**	**.0009569**	**.0379364**
Stddev	.0001763	.09817	.0001668	.000508	.010966	.0020812	.0007151
%RSD	.5077204	.8187771	2.243767	70.85606	.5683880	217.5042	1.884941
#1	.0349231	12.10125	.0073938	-.000580	1.917107	-.000211	.0373366
#2	.0346643	11.91769	.0072900	-.001279	1.932910	-.000278	.0387277
#3	.0345863	11.94915	.0076165	-.000292	1.938180	.003360	.0377448

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.756504**	**.0209257**	**.0022292**	**-.023616**	**-.000409**	**.2117335**	**.0070347**
Stddev	.023089	.0007345	.0000885	.000549	.000208	.0130554	.0000492
%RSD	.4854211	3.510227	3.968529	2.326722	50.95720	6.165951	.6997561
#1	4.747894	.0217649	.0022252	-.023784	-.000476	.2125023	.0070411
#2	4.782661	.0206123	.0023195	-.023003	-.000575	.2243875	.0069826
#3	4.738957	.0203998	.0021427	-.024063	-.000175	.1983108	.0070804

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10DUP Acquired: 12/9/2025 15:51:42 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.385621	-.005539	.0976671
Stddev	.107688	.000519	.0007162
%RSD	1.284193	9.375207	.7333120
#1	8.497842	-.005531	.0983730
#2	8.283127	-.005023	.0969410
#3	8.375894	-.006062	.0976871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2903.653	57792.30	7361.567	2204.277	4052.367
Stddev	29.693	405.07	59.476	19.711	38.445
%RSD	1.022611	.7009013	.8079221	.8941996	.9487094
#1	2869.404	57965.43	7303.845	2211.668	4007.985
#2	2919.385	57329.44	7422.653	2181.939	4073.706
#3	2922.171	58082.03	7358.202	2219.224	4075.409

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10LX5 Acquired: 12/9/2025 15:56:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001623**	**.0049044**	**.0833226**	**-.001544**	**.0081743**	**.0155169**	**.0063828**
Stddev	.002366	.0020607	.0029757	.001824	.0024141	.0030012	.0004261
%RSD	145.8176	42.01628	3.571281	118.1319	29.53316	19.34182	6.675963
#1	-.002814	.0025901	.0798876	-.002518	.0070849	.0131480	.0060086
#2	-.003158	.0055826	.0851135	.000560	.0109411	.0188919	.0062932
#3	.001102	.0065405	.0849667	-.002674	.0064968	.0145107	.0068466

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000063**	**.0040352**	**5.375418**	**-.000023**	**.0001457**	**.0019387**	**.1033287**
Stddev	.000110	.0001877	.099924	.000175	.0001004	.0000901	.0112788
%RSD	173.8748	4.652078	1.858908	752.4356	68.88821	4.649374	10.91545
#1	.000062	.0038303	5.489982	-.000212	.0000406	.0019652	.0950067
#2	-.000109	.0040766	5.306260	.000134	.0001559	.0018383	.0988140
#3	-.000144	.0041988	5.330010	.000009	.0002406	.0020126	.1161655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072903**	**2.388855**	**.0018529**	**-.000452**	**.4672807**	**.0003774**	**.0074241**
Stddev	.0004391	.016697	.0001453	.000915	.0311259	.0012383	.0000616
%RSD	6.022365	.6989692	7.839291	202.3632	6.661070	328.1415	.8289952
#1	.0074881	2.395700	.0018715	.000392	.4363690	.0011400	.0074766
#2	.0075958	2.401043	.0019880	-.000324	.4668565	-.001051	.0073564
#3	.0067872	2.369823	.0016993	-.001424	.4986165	.001043	.0074392

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9985243**	**.0008910**	**.0001079**	**-.018478**	**.0000900**	**.0281437**	**.0015458**
Stddev	.0218624	.0007041	.0002225	.000983	.0011635	.0105115	.0002205
%RSD	2.189474	79.01980	206.2378	5.320122	1293.418	37.34921	14.26653
#1	.9830471	.0016431	-.000067	-.018251	-.001045	.0167254	.0014087
#2	.9889913	.0007825	.000032	-.019554	.000034	.0374177	.0014285
#3	1.023535	.0002475	.000358	-.017628	.001280	.0302881	.0018002

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10LX5 Acquired: 12/9/2025 15:56:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	1.667150	-.002007	.0199750
Stddev	.013433	.001597	.0005454
%RSD	.8057390	79.59168	2.730267
#1	1.651789	-.003696	.0206006
#2	1.676695	-.000520	.0197245
#3	1.672966	-.001805	.0196000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.122	58334.43	7450.850	2295.357	4245.277
Stddev	60.517	821.98	141.180	34.184	83.515
%RSD	1.980181	1.409079	1.894820	1.489256	1.967249
#1	3119.485	58414.66	7288.525	2292.083	4333.109
#2	2998.924	59113.36	7545.044	2331.060	4166.879
#3	3049.957	57475.28	7518.981	2262.928	4235.844

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV04 Acquired: 12/9/2025 16:00:17 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.913622**	**4.918844**	**4.818955**	**4.987169**	**4.962845**	**9.323181**	**9.208249**
Stddev	.074252	.101982	.086587	.074288	.088695	.495935	.367382
%RSD	1.511140	2.073295	1.796795	1.489591	1.787173	5.319371	3.989705
#1	4.828022	4.815349	4.719510	4.901493	4.860783	8.772730	8.802252
#2	4.960638	5.019243	4.859717	5.033679	5.006509	9.461644	9.304739
#3	4.952206	4.921938	4.877638	5.026335	5.021242	9.735169	9.517756

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2282341**	**2.398633**	**23.08237**	**.9929493**	**2.414878**	**1.238080**	**4.984902**
Stddev	.0079732	.041180	1.14158	.0443211	.041566	.022134	.171147
%RSD	3.493415	1.716811	4.945667	4.463586	1.721250	1.787791	3.433314
#1	.2194669	2.351226	21.83445	1.037613	2.367035	1.212666	5.163735
#2	.2301839	2.419145	23.33859	.992257	2.435483	1.248441	4.968325
#3	.2350515	2.425529	24.07406	.948978	2.442116	1.253133	4.822647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.297861**	**22.94709**	**2.408766**	**1.259240**	**25.20989**	**2.325597**	**2.510666**
Stddev	.109046	1.24025	.041696	.053781	.83606	.111641	.113421
%RSD	4.745548	5.404830	1.731019	4.270928	3.316411	4.800524	4.517574
#1	2.181569	21.58048	2.360809	1.313305	26.04821	2.202627	2.624591
#2	2.314197	23.25957	2.429048	1.258668	25.20536	2.353578	2.509652
#3	2.397818	24.00121	2.436441	1.205747	24.37610	2.420586	2.397755

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.12683**	**4.564495**	**4.946666**	**4.833626**	**4.635005**	**5.279807**	**4.919939**
Stddev	.72508	.163959	.080832	.079662	.223003	.136952	.072663
%RSD	2.885686	3.592041	1.634063	1.648081	4.811289	2.593892	1.476904
#1	25.78541	4.386285	4.853632	4.741694	4.394721	5.378507	4.836635
#2	25.24526	4.598251	4.986685	4.876873	4.674971	5.337460	4.970263
#3	24.34982	4.708948	4.999682	4.882311	4.835323	5.123453	4.952920

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV04 Acquired: 12/9/2025 16:00:17 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.827625**	**4.574784**	**4.695081**
Stddev	.081161	.218278	.187166
%RSD	1.681175	4.771332	3.986423
#1	4.734529	4.338411	4.495547
#2	4.883494	4.617199	4.722939
#3	4.864854	4.768741	4.866756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.811**	**54577.17**	**7442.832**	**2099.989**	**3768.976**
Stddev	41.368	2238.90	283.312	89.567	51.739
%RSD	1.446524	4.102265	3.806511	4.265114	1.372758
#1	2907.334	52321.26	7748.169	2011.303	3828.625
#2	2840.225	54611.59	7391.862	2098.252	3742.049
#3	2831.874	56798.67	7188.464	2190.412	3736.254

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB04 Acquired: 12/9/2025 16:04:27 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000685**	**.0021363**	**-.000023**	**.0011127**	**.0032851**	**-.008853**	**-.000633**
Stddev	.002870	.0011531	.000530	.0082540	.0014934	.010157	.000782
%RSD	419.2700	53.97513	2322.770	741.7713	45.46003	114.7355	123.6369
#1	-.000708	.0024650	-.000604	-.007939	.0025068	-.019685	.000260
#2	-.003543	.0030894	.000434	.003055	.0023417	-.007330	-.000960
#3	.002197	.0008546	.000102	.008223	.0050070	.000457	-.001197

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000094**	**-.000009**	**-.001071**	**.0001468**	**-.000086**	**-.000134**	**-.012196**
Stddev	.000039	.000063	.003820	.0005345	.000116	.000180	.002841
%RSD	41.61753	671.8354	356.5990	364.0365	134.6600	134.2874	23.29388
#1	-.000078	.000063	-.001905	.0000834	.000029	.000014	-.012910
#2	-.000138	-.000050	.003097	-.000353	-.000085	-.000082	-.014613
#3	-.000065	-.000041	-.004406	.000710	-.000203	-.000335	-.009067

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000518**	**.0218227**	**.0001546**	**-.000638**	**.1562807**	**-.000448**	**-.000470**
Stddev	.000363	.0014967	.0001678	.000228	.0253453	.000916	.000484
%RSD	70.04795	6.858409	108.5921	35.77207	16.21778	204.4579	102.9953
#1	-.000341	.0207704	.0001950	-.000451	.1271685	.000609	-.000903
#2	-.000278	.0211616	-.000030	-.000892	.1682401	-.001024	.000052
#3	-.000936	.0235361	.000298	-.000570	.1734336	-.000930	-.000558

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1470560**	**.0013323**	**-.000295**	**-.016973**	**.0011226**	**.0079860**	**.0002313**
Stddev	.0191911	.0010111	.000398	.000327	.0008633	.0084477	.0002385
%RSD	13.05017	75.89121	134.7019	1.927919	76.90295	105.7820	103.1293
#1	.1497057	.0006261	-.000105	-.017257	.0012211	.0141498	.0005036
#2	.1266778	.0008803	-.000028	-.017047	.0019325	-.001643	.0001309
#3	.1647846	.0024906	-.000752	-.016615	.0002143	.011452	.0000594

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB04 Acquired: 12/9/2025 16:04:27 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.012624	.0010980	-.000006
Stddev	.004808	.0016426	.000062
%RSD	38.08585	149.5988	984.0787
#1	-.007076	-.000094	-.000054
#2	-.015581	.000417	.000063
#3	-.015213	.002972	-.000027

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2957.631	56823.57	6974.161	2162.737	4150.658
Stddev	5.098	293.01	22.017	11.837	9.425
%RSD	.1723713	.5156491	.3157004	.5473183	.2270795
#1	2955.253	57125.30	6989.509	2174.676	4148.464
#2	2963.484	56540.14	6948.934	2151.005	4160.986
#3	2954.157	56805.27	6984.039	2162.531	4142.522

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-11 Acquired: 12/9/2025 16:08:47 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7279975**	**1.781354**	**1.060265**	**1.778347**	**.7612603**	**1.825193**	**.2047249**
Stddev	.0067149	.060187	.001381	.006373	.0022038	.008420	.0015192
%RSD	.9223750	3.378728	.1302857	.3583923	.2894887	.4613142	.7420587
#1	.7237843	1.779286	1.059028	1.782236	.7597563	1.832868	.2042204
#2	.7357411	1.842548	1.061755	1.770992	.7602345	1.816187	.2035222
#3	.7244671	1.722228	1.060011	1.781814	.7637899	1.826523	.2064322

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1678625**	**.1840691**	**24.94937**	**.3676205**	**.1723672**	**.2757743**	**2.792100**
Stddev	.0002436	.0004175	.01605	.0026803	.0003017	.0010746	.033046
%RSD	.1451377	.2267935	.0643205	.7291037	.1750259	.3896733	1.183556
#1	.1677840	.1839952	24.96694	.3645290	.1720246	.2756505	2.754125
#2	.1681356	.1845186	24.94569	.3692924	.1725931	.2747670	2.807848
#3	.1676677	.1836935	24.93548	.3690402	.1724839	.2769055	2.814325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1936942**	**12.54265**	**.4309823**	**.0652599**	**4.295470**	**.2714894**	**.2087315**
Stddev	.0010624	.04473	.0004005	.0006598	.054196	.0017814	.0018495
%RSD	.5484857	.3566444	.0929259	1.011059	1.261700	.6561742	.8860434
#1	.1926982	12.56698	.4311174	.0645362	4.237629	.2734387	.2065960
#2	.1935720	12.49102	.4305317	.0658280	4.303704	.2699458	.2097810
#3	.1948124	12.56994	.4312978	.0654155	4.345078	.2710838	.2098174

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.11742**	**.2604990**	**.3956828**	**.5922775**	**.1752254**	**.8994596**	**.5208312**
Stddev	.08077	.0008639	.0018326	.0012617	.0002060	.0236685	.0011469
%RSD	.6157096	.3316182	.4631391	.2130303	.1175442	2.631413	.2202032
#1	13.02773	.2608152	.3936746	.5925982	.1750359	.8724168	.5221428
#2	13.14013	.2595216	.3961094	.5908864	.1751957	.9164035	.5200168
#3	13.18439	.2611602	.3972644	.5933479	.1754446	.9095584	.5203342

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-11 Acquired: 12/9/2025 16:08:47 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**7.558262**	**.1751354**	**.2609660**
Stddev	.053244	.0009881	.0012065
%RSD	.7044527	.5641631	.4623146
#1	7.586696	.1746662	.2618416
#2	7.591253	.1744694	.2595898
#3	7.496837	.1762707	.2614666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2913.329**	**57137.63**	**7260.890**	**2123.720**	**4055.312**
Stddev	3.786	391.38	18.341	13.179	7.334
%RSD	.1299388	.6849690	.2526020	.6205483	.1808549
#1	2910.426	57530.22	7240.521	2138.817	4047.809
#2	2917.611	56747.49	7266.053	2114.518	4055.662
#3	2911.951	57135.19	7276.097	2117.824	4062.465

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-12 Acquired: 12/9/2025 16:12:51 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7876661**	**1.904293**	**1.157726**	**1.941680**	**.8297813**	**1.941963**	**.2220961**
Stddev	.0062569	.047961	.002913	.017561	.0084755	.038204	.0040654
%RSD	.7943583	2.518587	.2516424	.9044246	1.021414	1.967299	1.830471
#1	.7939963	1.903476	1.159768	1.959321	.8393881	1.902612	.2175606
#2	.7875166	1.952658	1.154390	1.924200	.8233605	1.944369	.2233155
#3	.7814852	1.856746	1.159020	1.941520	.8265953	1.978907	.2254123

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1727016**	**.2003379**	**27.22512**	**.3992811**	**.1878230**	**.2995485**	**3.217920**
Stddev	.0014350	.0009297	.44544	.0055095	.0008530	.0023910	.074558
%RSD	.8309062	.4640540	1.636150	1.379849	.4541352	.7981928	2.316977
#1	.1710446	.2014108	26.79520	.3936777	.1887921	.3022896	3.145383
#2	.1735343	.1997704	27.19554	.3994741	.1871861	.2978922	3.214030
#3	.1735259	.1998324	27.68462	.4046916	.1874908	.2984638	3.294348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2109205**	**13.54591**	**.4682655**	**.0721847**	**4.859959**	**.2895137**	**.2297840**
Stddev	.0040105	.17406	.0028736	.0009810	.130013	.0091506	.0034601
%RSD	1.901416	1.284961	.6136770	1.359055	2.675184	3.160682	1.505782
#1	.2065930	13.36109	.4715016	.0710948	4.735214	.2791264	.2262312
#2	.2116567	13.56992	.4672827	.0729969	4.849997	.2963840	.2299776
#3	.2145119	13.70672	.4660122	.0724625	4.994666	.2930307	.2331432

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.85303**	**.2718269**	**.4323192**	**.6442245**	**.1874007**	**1.021833**	**.5680456**
Stddev	.32930	.0028854	.0027690	.0034621	.0013903	.026183	.0015767
%RSD	2.217025	1.061486	.6405085	.5374113	.7418932	2.562386	.2775614
#1	14.52080	.2686814	.4355133	.6481637	.1858822	.993532	.5681845
#2	14.85897	.2743509	.4308494	.6416645	.1877086	1.026771	.5695483
#3	15.17931	.2724484	.4305949	.6428452	.1886112	1.045195	.5664042

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-12 Acquired: 12/9/2025 16:12:51 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.365720**	**.1842614**	**.2836395**
Stddev	.042676	.0032032	.0048008
%RSD	.5101325	1.738425	1.692590
#1	8.388907	.1812864	.2786808
#2	8.391783	.1838457	.2839724
#3	8.316470	.1876522	.2882652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2921.530**	**57079.67**	**7673.483**	**2155.241**	**4052.708**
Stddev	17.811	537.41	50.282	20.871	23.494
%RSD	.6096445	.9415111	.6552693	.9683933	.5797072
#1	2900.970	57649.63	7731.432	2178.280	4025.919
#2	2932.271	57007.23	7641.389	2149.847	4062.398
#3	2931.348	56582.16	7647.629	2137.597	4069.807

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10A Acquired: 12/9/2025 16:16:55 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7493424**	**1.793340**	**1.267508**	**1.854105**	**.8067804**	**1.968632**	**.2302000**
Stddev	.0028832	.081317	.008592	.008498	.0067495	.013957	.0012195
%RSD	.3847644	4.534410	.6778330	.4583152	.8365959	.7089733	.5297537
#1	.7462155	1.780070	1.269352	1.855367	.8063493	1.976794	.2315866
#2	.7518956	1.880476	1.275028	1.861901	.8137350	1.976585	.2292944
#3	.7499162	1.719474	1.258145	1.845047	.8002567	1.952516	.2297190

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1789973**	**.1927876**	**27.19774**	**.3778777**	**.1808075**	**.2912031**	**3.293546**
Stddev	.0009940	.0013524	.11775	.0058016	.0016847	.0013036	.018031
%RSD	.5553010	.7015125	.4329310	1.535311	.9317868	.4476635	.5474759
#1	.1801048	.1931813	27.33100	.3844518	.1811323	.2911193	3.313841
#2	.1781827	.1938995	27.15449	.3757059	.1823061	.2925465	3.287425
#3	.1787045	.1912820	27.10774	.3734753	.1789839	.2899433	3.279371

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2265752**	**13.50270**	**.4540524**	**.0705521**	**4.807445**	**.2865003**	**.2348086**
Stddev	.0008620	.04929	.0027795	.0010498	.053357	.0024676	.0029006
%RSD	.3804706	.3650694	.6121607	1.487918	1.109888	.8612732	1.235326
#1	.2263367	13.51079	.4545203	.0717643	4.853276	.2883684	.2379815
#2	.2258576	13.54746	.4565683	.0699484	4.820190	.2874294	.2322930
#3	.2275314	13.44987	.4510686	.0699437	4.748870	.2837031	.2341514

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.97753**	**.2888443**	**.4152019**	**.6252268**	**.1909895**	**1.067784**	**.5594649**
Stddev	.19485	.0015122	.0017527	.0070175	.0015184	.022461	.0048771
%RSD	1.394053	.5235287	.4221340	1.122391	.7950379	2.103514	.8717473
#1	14.17087	.2905088	.4149439	.6242518	.1916486	1.088733	.5603686
#2	13.98053	.2875551	.4170694	.6326808	.1892529	1.070550	.5638269
#3	13.78119	.2884690	.4135925	.6187478	.1920670	1.044068	.5541991

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-10A Acquired: 12/9/2025 16:16:55 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.135790**	**.1926799**	**.2888750**
Stddev	.108009	.0010369	.0009012
%RSD	1.327581	.5381448	.3119588
#1	8.162093	.1938001	.2899155
#2	8.228219	.1924858	.2883465
#3	8.017059	.1917537	.2883629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2954.139**	**57782.93**	**7123.033**	**2237.155**	**4069.447**
Stddev	10.734	747.22	33.804	34.946	24.802
%RSD	.3633438	1.293143	.4745667	1.562090	.6094599
#1	2956.513	56939.60	7086.031	2196.912	4064.033
#2	2942.417	58046.68	7152.296	2254.701	4047.799
#3	2963.487	58362.50	7130.772	2259.852	4096.508

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-13 Acquired: 12/9/2025 16:21:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0057832**	**.0086099**	**.4947138**	**.0190375**	**.0509770**	**.0768481**
Stddev	.0004541	.0038775	.0021401	.0027123	.0004625	.0035563
%RSD	7.851561	45.03493	.4325926	14.24714	.9071841	4.627652
#1	.0052891	.0121421	.4928921	.0176465	.0505227	.0769332
#2	.0058784	.0092265	.4941786	.0173028	.0509612	.0803611
#3	.0061822	.0044611	.4970707	.0221630	.0514472	.0732501

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0625340**	**-.000110**	**.1009720**	**73.82193**	**.0011576**	**.0003656**
Stddev	.0010228	.000058	.0004897	.22884	.0003317	.0000929
%RSD	1.635564	52.54771	.4849798	.3099887	28.65698	25.41456
#1	.0628330	-.000136	.1005952	73.56886	.0012930	.0004715
#2	.0633739	-.000149	.1007953	74.01430	.0014002	.0002978
#3	.0613950	-.000044	.1015255	73.88263	.0007796	.0003274

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0226367**	**.6581477**	**.1309907**	**13.79177**	**.0118444**	**-.000401**
Stddev	.0005238	.0049590	.0003491	.13733	.0002018	.000181
%RSD	2.313783	.7534799	.2664699	.9957295	1.703461	45.12069
#1	.0226828	.6550134	.1308050	13.63338	.0120110	-.000208
#2	.0220914	.6638650	.1313934	13.86436	.0119021	-.000429
#3	.0231359	.6555647	.1307738	13.87757	.0116201	-.000566

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.27609**	**.0003035**	**.1815093**	**3.373930**	**.0336181**	**.0026803**
Stddev	.12698	.0019969	.0002585	.015602	.0012050	.0004619
%RSD	.9564695	657.8722	.1424293	.4624231	3.584405	17.23479
#1	13.33815	.0005837	.1817047	3.391945	.0330704	.0032077
#2	13.36011	-.001819	.1812162	3.365080	.0327841	.0023476
#3	13.13002	.002146	.1816070	3.364766	.0349996	.0024857

Sample Name: Q3764-13 Acquired: 12/9/2025 16:21:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025213	-.004034	4.747974	.0037499	F 28.27687	-.010143
Stddev	.000536	.001192	.015007	.0002425	.32253	.001623
%RSD	2.126128	29.55475	.3160629	6.468136	1.140623	16.00320
#1	-.024622	-.005201	4.752037	.0040019	28.00562	-.008271
#2	-.025669	-.004083	4.760531	.0035180	28.63351	-.011155
#3	-.025348	-.002818	4.731355	.0037298	28.19148	-.011004

Elem	Sr4077
Units	ppm
Avg	.2205315
Stddev	.0006573
%RSD	.2980437
#1	.2205037
#2	.2212022
#3	.2198886

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.063	57776.67	7222.759	2177.787	4018.037
Stddev	4.853	379.71	21.841	16.911	6.715
%RSD	.1675726	.6571946	.3023881	.7765219	.1671325
#1	2894.066	57482.34	7205.945	2167.757	4016.736
#2	2901.596	57642.39	7214.887	2168.293	4025.307
#3	2892.528	58205.26	7247.444	2197.312	4012.066

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-14 Acquired: 12/9/2025 16:25:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0020973**	**.0061086**	**13.02760**	**.0002900**	**.0109384**	**.1415616**
Stddev	.0021044	.0024852	.06961	.0022311	.0027047	.0073598
%RSD	100.3382	40.68437	.5343627	769.3950	24.72623	5.199037
#1	-.000322	.0089623	12.94808	.0024447	.0137859	.1357091
#2	.003107	.0044196	13.07752	-.002010	.0106256	.1391512
#3	.003506	.0049439	13.05721	.000436	.0084038	.1498243

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1051393**	**-.000195**	**.0802312**	**22.45792**	**.0135203**	**.0023899**
Stddev	.0006417	.000011	.0004098	.13999	.0005329	.0003158
%RSD	.6102880	5.795319	.5107617	.6233452	3.941721	13.21556
#1	.1044894	-.000182	.0797620	22.30803	.0134116	.0020254
#2	.1057724	-.000199	.0804128	22.48046	.0140993	.0025623
#3	.1051560	-.000203	.0805188	22.58527	.0130502	.0025820

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0986653**	**1.011133**	**.2872246**	**1.028208**	**.0503163**	**-.000484**
Stddev	.0001007	.001148	.0023912	.010578	.0001800	.000728
%RSD	.1020454	.1134993	.8325179	1.028797	.3577712	150.3146
#1	.0987566	1.012421	.2851885	1.018847	.0502554	-.001310
#2	.0985573	1.010758	.2866274	1.039684	.0505188	.000064
#3	.0986819	1.010220	.2898577	1.026094	.0501746	-.000207

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.541287**	**-.000446**	**.4857363**	**4.569508**	**.0318917**	**.0002656**
Stddev	.029616	.004019	.0033697	.056133	.0001158	.0004617
%RSD	1.165394	900.2247	.6937276	1.228420	.3630219	173.8139
#1	2.541024	.001015	.4875651	4.625184	.0320193	-.000267
#2	2.511804	-.004992	.4877963	4.512929	.0318623	.000514
#3	2.571034	.002637	.4818477	4.570411	.0317933	.000550

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3764-14 Acquired: 12/9/2025 16:25:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.020092	-.000237	2.445464	.0095627	F 21.74931	-.002352
Stddev	.000687	.000494	.012960	.0003560	.20340	.000563
%RSD	3.420740	208.6269	.5299667	3.723148	.9352127	23.92472
#1	-.020291	-.000788	2.449241	.0092458	21.52060	-.002319
#2	-.020658	.000167	2.431035	.0099480	21.90995	-.001806
#3	-.019327	-.000090	2.456116	.0094943	21.81736	-.002930

Elem	Sr4077
Units	ppm
Avg	.1069183
Stddev	.0005526
%RSD	.5168019
#1	.1067108
#2	.1064996
#3	.1075446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2954.357	58171.31	7563.557	2171.654	4141.488
Stddev	9.648	168.17	50.852	16.287	11.840
%RSD	.3265768	.2891029	.6723256	.7499672	.2858828
#1	2963.836	58078.15	7607.800	2153.163	4155.090
#2	2954.688	58070.33	7508.002	2177.930	4135.877
#3	2944.548	58365.45	7574.869	2183.868	4133.496

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170820BL Acquired: 12/9/2025 16:29:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0015225**	**.0032946**	**-.000285**	**-.000566**	**.0003842**	**-.005933**	**-.000802**
Stddev	.0017749	.0015344	.000713	.004080	.0011828	.010568	.000546
%RSD	116.5734	46.57288	250.4810	721.0267	307.8466	178.1290	68.01316
#1	-.000478	.0049405	-.000833	-.004215	.0013258	.004295	-.000701
#2	.002136	.0019036	-.000543	-.001322	-.000943	-.005282	-.001392
#3	.002909	.0030398	.000522	.003839	.000770	-.016811	-.000314

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000006**	**.0000760**	**.0061293**	**.0002079**	**.0001056**	**.0002193**	**-.008569**
Stddev	.000072	.0001665	.0036291	.0002665	.0000776	.0004863	.004068
%RSD	1272.904	219.0350	59.20928	128.1745	73.50001	221.7054	47.47350
#1	.000007	-.000031	.0030327	.0002911	.0001896	.0002933	-.003995
#2	-.000083	.000268	.0052324	.0004230	.0000367	.0006644	-.011783
#3	.000059	-.000009	.0101227	-.000090	.0000904	-.000300	-.009929

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001049**	**.0006819**	**.0004592**	**-.000746**	**.0170800**	**.0002684**	**-.000406**
Stddev	.000387	.0029494	.0002673	.000461	.0255645	.0015601	.000235
%RSD	36.93087	432.5480	58.19823	61.79302	149.6753	581.2219	58.00862
#1	-.001496	-.001337	.0007526	-.001278	-.005131	-.000612	-.000177
#2	-.000809	-.000684	.0003956	-.000485	.011347	-.000652	-.000647
#3	-.000842	.004067	.0002295	-.000474	.045024	.002070	-.000393

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.032332**	**-.004775**	**-.000103**	**-.016277**	**.0004360**	**.0015540**	**.0004193**
Stddev	.048173	.000673	.000190	.001241	.0017580	.0073063	.0001410
%RSD	148.9951	14.09764	183.6649	7.623452	403.2204	470.1718	33.61917
#1	-.077029	-.004851	-.000277	-.014844	.0005680	.0010714	.0002770
#2	-.038658	-.005407	.000099	-.017019	-.001384	.0090896	.0004219
#3	.018691	-.004067	-.000132	-.016967	.002124	-.005499	.0005589

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170820BL Acquired: 12/9/2025 16:29:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.007082	-.000376	-.000063
Stddev	.002381	.001225	.000016
%RSD	33.62310	326.1335	25.31684
#1	-.008088	-.001010	-.000075
#2	-.008795	.001036	-.000070
#3	-.004363	-.001153	-.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3000.036	58164.93	7549.218	2199.287	4243.291
Stddev	13.759	1567.70	18.880	62.183	20.515
%RSD	.4586356	2.695259	.2500982	2.827426	.4834762
#1	2984.702	56729.13	7528.438	2142.290	4219.602
#2	3011.304	59837.57	7565.318	2265.604	4255.183
#3	3004.102	57928.11	7553.899	2189.967	4255.089

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170820BS Acquired: 12/9/2025 16:33:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7898619**	**1.994393**	**.9348742**	**2.042664**	**.7979918**	**1.866707**
Stddev	.0162038	.058555	.0148619	.026010	.0145402	.028048
%RSD	2.051472	2.935973	1.589721	1.273342	1.822093	1.502541
#1	.8079637	2.061384	.9518792	2.072690	.8147621	1.837252
#2	.7767116	1.952971	.9243718	2.028225	.7903018	1.869772
#3	.7849103	1.968824	.9283717	2.027076	.7889115	1.893097

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1777891**	**.1790321**	**.1907157**	**.9479694**	**.3991080**	**.1907686**
Stddev	.0030282	.0021497	.0024338	.0140071	.0040829	.0025749
%RSD	1.703234	1.200715	1.276137	1.477585	1.023001	1.349748
#1	.1743231	.1767489	.1935258	.9588525	.3969192	.1936663
#2	.1791229	.1793302	.1892828	.9528896	.3965863	.1887430
#3	.1799215	.1810171	.1893385	.9321661	.4038186	.1898965

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3034584**	**2.955681**	**.1836651**	**1.877338**	**.4804652**	**.0751351**
Stddev	.0044573	.041486	.0027962	.071167	.0061243	.0008060
%RSD	1.468846	1.403592	1.522429	3.790874	1.274650	1.072768
#1	.3085690	2.929544	.1807140	1.795729	.4875054	.0743701
#2	.3003747	2.933983	.1840062	1.909789	.4775224	.0750586
#3	.3014315	3.003516	.1862750	1.926496	.4763678	.0759767

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.916205**	**.2854859**	**.2096218**	**9.746285**	**.2611463**	**.3986963**
Stddev	.070510	.0048096	.0025404	.191107	.0038973	.0064913
%RSD	2.417854	1.684721	1.211912	1.960819	1.492399	1.628133
#1	2.840842	.2815708	.2077726	9.581835	.2573806	.4061905
#2	2.927206	.2840321	.2085742	9.701078	.2608951	.3950720
#3	2.980568	.2908547	.2125185	9.955943	.2651631	.3948265

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170820BS Acquired: 12/9/2025 16:33:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6498219**	**.1833640**	**.8902690**	F **.5891489**	F **.0007900**	**.1826170**
Stddev	.0086317	.0022362	.0188638	.0069581	.0017639	.0041694
%RSD	1.328322	1.219550	2.118891	1.181042	223.2684	2.283166
#1	.6597289	.1813219	.8775663	.5971743	.0019577	.1784395
#2	.6439222	.1830166	.8812963	.5854665	.0016514	.1826331
#3	.6458146	.1857536	.9119443	.5848057	-.001239	.1867783

Elem	Sr4077
Units	ppm
Avg	**.1813295**
Stddev	.0027465
%RSD	1.514669
#1	.1783610
#2	.1818470
#3	.1837805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2956.015**	**57495.45**	**7818.894**	**2159.248**	**4066.026**
Stddev	35.035	515.89	65.165	13.900	41.112
%RSD	1.185227	.8972796	.8334327	.6437342	1.011118
#1	2915.656	57859.50	7893.918	2168.927	4018.554
#2	2973.773	57721.76	7786.382	2165.495	4089.627
#3	2978.616	56905.07	7776.381	2143.320	4089.897

Sample Name: Q3763-01 Acquired: 12/9/2025 16:37:49 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000687**	**.0057568**	**.0303878**	**.0033730**	**.0262570**	**.0380145**
Stddev	.001610	.0058038	.0006303	.0019283	.0021343	.0056920
%RSD	234.5457	100.8168	2.074126	57.16751	8.128590	14.97314
#1	-.002095	.0112135	.0306387	.0055859	.0259774	.0331918
#2	.001069	.0063977	.0296707	.0020537	.0285174	.0365588
#3	-.001034	-.000341	.0308540	.0024793	.0242763	.0442930

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0925343**	**-.000169**	**.0021928**	**167.7557**	**.0441022**	**.0010964**
Stddev	.0007210	.000035	.0000709	.5018	.0002123	.0001865
%RSD	.7791656	20.43684	3.234659	.2991161	.4813568	17.00851
#1	.0924797	-.000197	.0022124	167.8863	.0442387	.0012768
#2	.0918422	-.000179	.0022520	168.1792	.0442103	.0011080
#3	.0932811	-.000130	.0021142	167.2015	.0438576	.0009044

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039970**	**.1751311**	**.1286865**	**30.87693**	**.0160580**	**-.000933**
Stddev	.0003904	.0047837	.0009520	.11138	.0005991	.000241
%RSD	9.768592	2.731495	.7397464	.3607102	3.730653	25.80536
#1	.0040004	.1698417	.1276089	30.90929	.0155600	-.000894
#2	.0043858	.1791544	.1294132	30.96854	.0167228	-.001190
#3	.0036049	.1763972	.1290374	30.75296	.0158912	-.000713

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.25842**	**.0008317**	**.0360487**	**5.247001**	**.0542031**	**.0034353**
Stddev	.41353	.0001757	.0001760	.073492	.0006394	.0003361
%RSD	1.027188	21.12711	.4881240	1.400650	1.179564	9.783664
#1	39.94131	.0010257	.0359338	5.194934	.0548199	.0037833
#2	40.72615	.0006832	.0359610	5.331068	.0542460	.0034101
#3	40.10782	.0007861	.0362513	5.215002	.0535433	.0031125

Sample Name: Q3763-01 Acquired: 12/9/2025 16:37:49 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0047043	-.007444	F 11.39253	.0025392	F 65.53554	-.026800
Stddev	.0011589	.001229	.10377	.0000908	.23553	.001098
%RSD	24.63476	16.50942	.9108628	3.574834	.3593945	4.098378
#1	.0043984	-.006058	11.34582	.0026091	65.29715	-.027282
#2	.0037290	-.008402	11.51144	.0025718	65.54137	-.027575
#3	.0059854	-.007873	11.32031	.0024366	65.76810	-.025543

Elem	Sr4077
Units	ppm
Avg	.6790056
Stddev	.0015107
%RSD	.2224827
#1	.6784742
#2	.6807102
#3	.6778324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.315	55476.39	7117.954	2112.780	3713.374
Stddev	5.956	308.29	26.971	14.294	6.775
%RSD	.2150668	.5557049	.3789138	.6765300	.1824587
#1	2762.796	55426.18	7086.895	2118.799	3706.352
#2	2774.470	55196.29	7135.461	2096.461	3719.872
#3	2770.680	55806.70	7131.507	2123.079	3713.898

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-02 Acquired: 12/9/2025 16:42:04 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001736**	**.0003231**	**.0379818**	**.0065615**	**.0044684**	**.0093427**	**.0060518**
Stddev	.001151	.0038320	.0008845	.0029029	.0032140	.0124025	.0004865
%RSD	66.30021	1186.187	2.328689	44.24121	71.92808	132.7502	8.039730
#1	-.001157	-.001030	.0388097	.0098717	.0010511	.0008737	.0061061
#2	-.000990	.004648	.0380858	.0053633	.0049235	.0235786	.0065090
#3	-.003062	-.002649	.0370499	.0044495	.0074306	.0035758	.0055404

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000142**	**.0051177**	**9.179841**	**.0032037**	**-.000105**	**.0054561**	**.0359759**
Stddev	.000009	.0000149	.052038	.0002881	.000242	.0001319	.0061665
%RSD	6.039851	.2908788	.5668710	8.993002	229.9310	2.417100	17.14072
#1	-.000146	.0051252	9.124287	.0035330	-.000332	.0053901	.0309115
#2	-.000147	.0051006	9.187784	.0029980	-.000135	.0053702	.0428428
#3	-.000132	.0051274	9.227450	.0030800	.000151	.0056079	.0341733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056738**	**.6815645**	**.0023800**	**-.000171**	**.4410411**	**.0026283**	**1.135861**
Stddev	.0001718	.0207579	.0001837	.000316	.0185622	.0024330	.006065
%RSD	3.028125	3.045622	7.718837	184.9786	4.208731	92.57052	.5339575
#1	.0058045	.6591620	.0024642	.000132	.4554367	.0017187	1.137168
#2	.0057376	.6853842	.0021693	-.000498	.4475958	.0053850	1.141167
#3	.0054792	.7001472	.0025065	-.000146	.4200908	.0007811	1.129250

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2315432**	**-.001051**	**.0011526**	**-.023965**	**.0009156**	**.1935018**	**.0017727**
Stddev	.0281054	.000905	.0001360	.000936	.0014710	.0095951	.0001490
%RSD	12.13828	86.12207	11.80180	3.906666	160.6566	4.958684	8.407255
#1	.2202222	-.000337	.0013007	-.024234	.0024434	.2035632	.0018128
#2	.2635435	-.000748	.0011238	-.024737	.0007945	.1844533	.0016078
#3	.2108638	-.002069	.0010332	-.022924	-.000491	.1924889	.0018977

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-02 Acquired: 12/9/2025 16:42:04 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.9142653**	**-.004550**	**.0266417**
Stddev	.0057138	.000723	.0000729
%RSD	.6249560	15.88236	.2737925
#1	.9135521	-.005025	.0267182
#2	.9203022	-.003718	.0265729
#3	.9089417	-.004907	.0266340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2945.824**	**57881.24**	**7099.717**	**2227.363**	**4177.298**
Stddev	10.941	27.95	21.107	13.156	13.213
%RSD	.3714111	.0482920	.2972877	.5906329	.3163073
#1	2939.357	57851.65	7108.974	2214.689	4169.710
#2	2939.658	57884.88	7075.564	2226.446	4169.628
#3	2958.456	57907.20	7114.613	2240.952	4192.555

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-03 Acquired: 12/9/2025 16:46:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001556**	**.0001314**	**.0509451**	**.0026136**	**.0049028**	**.0242546**	**.0161632**
Stddev	.001388	.0024934	.0009768	.0011615	.0013667	.0042526	.0005445
%RSD	89.17658	1898.001	1.917282	44.44149	27.87667	17.53314	3.368758
#1	.000001	-.002733	.0498473	.0031442	.0036367	.0278707	.0163677
#2	-.002664	.001813	.0517180	.0012816	.0047199	.0195695	.0165758
#3	-.002006	.001314	.0512700	.0034151	.0063518	.0253235	.0155460

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000115**	**.0013378**	**16.26256**	**.0084611**	**-.000128**	**.0052767**	**.0380097**
Stddev	.000116	.0000347	.12038	.0006936	.000212	.0002878	.0068090
%RSD	100.3867	2.592705	.7402192	8.197569	165.1698	5.454275	17.91374
#1	-.000160	.0013694	16.12390	.0082673	.000073	.0054012	.0302419
#2	.000016	.0013007	16.32341	.0092310	-.000109	.0049476	.0429460
#3	-.000202	.0013433	16.34036	.0078851	-.000349	.0054813	.0408414

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070806**	**3.520708**	**.0041180**	**-.000480**	**4.800415**	**.0016257**	**.0770228**
Stddev	.0005485	.031632	.0005816	.000428	.075658	.0001135	.0006955
%RSD	7.746899	.8984685	14.12237	89.22766	1.576080	6.978225	.9029345
#1	.0068518	3.497270	.0034479	-.000024	4.741708	.0017020	.0762349
#2	.0077065	3.508166	.0044161	-.000873	4.885798	.0014954	.0772821
#3	.0066835	3.556688	.0044901	-.000542	4.773738	.0016799	.0775513

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9829909**	**.0208820**	**.0013195**	**.0965115**	**.0002682**	**1.327360**	**.0018061**
Stddev	.0388521	.0007475	.0002057	.0014942	.0010432	.011844	.0000292
%RSD	3.952437	3.579527	15.59243	1.548242	388.9339	.8923173	1.613711
#1	.9382770	.0208743	.0014989	.0957069	.0009417	1.314502	.0018398
#2	1.002188	.0201384	.0010949	.0955920	-.000933	1.337826	.0017895
#3	1.008508	.0216333	.0013646	.0982356	.000796	1.329752	.0017890

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-03 Acquired: 12/9/2025 16:46:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.333917**	**-.006614**	**.0785095**
Stddev	.023125	.000327	.0005528
%RSD	.9908345	4.936369	.7041186
#1	2.312946	-.006299	.0782459
#2	2.330088	-.006951	.0791448
#3	2.358718	-.006593	.0781379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2928.154**	**57311.72**	**7561.833**	**2154.256**	**4130.730**
Stddev	13.433	263.49	10.637	10.614	21.798
%RSD	.4587635	.4597485	.1406732	.4927147	.5277144
#1	2941.470	57541.87	7572.793	2162.401	4149.684
#2	2928.387	57024.31	7561.154	2142.252	4135.597
#3	2914.606	57368.98	7551.551	2158.115	4106.910

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV05 Acquired: 12/9/2025 16:50:37 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.941422**	**4.976528**	**4.844920**	**5.001974**	**4.971466**	**9.814463**	**9.406045**
Stddev	.035037	.247415	.026188	.048683	.028457	.177747	.227585
%RSD	.7090422	4.971645	.5405207	.9732859	.5724106	1.811071	2.419565
#1	4.936043	5.202820	4.834255	5.025291	4.960334	9.828830	9.440481
#2	4.978838	5.014407	4.874757	5.034612	5.003806	9.984591	9.614449
#3	4.909387	4.712358	4.825747	4.946017	4.950257	9.629969	9.163203

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2292116**	**2.421527**	**24.21921**	**.9872628**	**2.434285**	**1.240088**	**4.980900**
Stddev	.0050357	.014367	.48212	.0018786	.013582	.007120	.024072
%RSD	2.196961	.5933147	1.990648	.1902837	.5579293	.5741676	.4832876
#1	.2305985	2.414191	24.26779	.9893511	2.425513	1.235059	5.006891
#2	.2334085	2.438082	24.67520	.9857103	2.449929	1.248236	4.976436
#3	.2236278	2.412310	23.71464	.9867270	2.427414	1.236971	4.959372

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.367888**	**24.23152**	**2.422179**	**1.212582**	**24.24554**	**2.448684**	**2.454753**
Stddev	.059208	.41974	.014205	.002176	.00517	.044405	.008892
%RSD	2.500458	1.732195	.5864399	.1794578	.0213176	1.813442	.3622173
#1	2.382395	24.19063	2.414552	1.213761	24.24474	2.453704	2.462851
#2	2.418494	24.67020	2.438568	1.213915	24.25107	2.490367	2.456169
#3	2.302775	23.83372	2.413418	1.210071	24.24082	2.401982	2.445238

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.72118**	**4.545382**	**5.022012**	**4.877681**	**4.822977**	**5.335860**	**4.861611**
Stddev	.06628	.100714	.035984	.038854	.108717	.051600	.024609
%RSD	.2681198	2.215753	.7165275	.7965703	2.254147	.9670403	.5061898
#1	24.64551	4.562571	5.024133	4.878011	4.848511	5.284363	4.855797
#2	24.76898	4.636395	5.056888	4.916370	4.916655	5.335655	4.888606
#3	24.74904	4.437179	4.985014	4.838663	4.703766	5.387562	4.840429

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV05 Acquired: 12/9/2025 16:50:37 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.792017**	**4.631205**	**4.771969**
Stddev	.056021	.100577	.135543
%RSD	1.169039	2.171730	2.840409
#1	4.812004	4.659498	4.787557
#2	4.835304	4.714605	4.899044
#3	4.728745	4.519511	4.629305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2856.001**	**56310.82**	**7393.243**	**2096.989**	**3780.233**
Stddev	16.119	71.93	157.467	6.820	23.065
%RSD	.5644044	.1277391	2.129874	.3252289	.6101441
#1	2865.420	56305.47	7341.396	2089.148	3791.172
#2	2837.388	56385.27	7268.238	2101.544	3753.734
#3	2865.195	56241.71	7570.096	2100.275	3795.793

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB05 Acquired: 12/9/2025 16:54:49 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0023405**	**.0039328**	**.0012642**	**.0020067**	**.0011944**	**-.002546**	**-.000012**
Stddev	.0004892	.0013836	.0008277	.0042032	.0011769	.003577	.001892
%RSD	20.90256	35.18147	65.47083	209.4593	98.53207	140.4999	16385.07
#1	.0017804	.0053947	.0006942	-.002812	-.000073	.000101	-.000638
#2	.0025570	.0026437	.0022136	.004918	.001405	-.006616	-.001511
#3	.0026841	.0037600	.0008849	.003914	.002252	-.001124	.002114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**-.000053**	**-.005684**	**.0003027**	**.0000208**	**-.000201**	**-.011957**
Stddev	.000089	.000036	.010431	.0001263	.0002205	.000047	.003440
%RSD	1145.574	67.21845	183.5036	41.72413	1062.795	23.09937	28.77062
#1	.000080	-.000074	.001475	.0003017	.0001802	-.000255	-.010254
#2	-.000099	-.000012	-.017652	.0004295	-.000231	-.000176	-.015917
#3	-.000004	-.000075	-.000876	.0001769	.000113	-.000173	-.009701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000654**	**.0015752**	**.0002751**	**-.000560**	**.0741536**	**-.000501**	**-.000608**
Stddev	.000506	.0060152	.0004840	.000389	.0203394	.000965	.000190
%RSD	77.27840	381.8590	175.9623	69.50020	27.42867	192.6054	31.19139
#1	-.000073	.0083202	-.000282	-.000655	.0543417	-.001616	-.000506
#2	-.000989	-.000362	.000510	-.000893	.0731369	.000073	-.000491
#3	-.000901	-.003233	.000597	-.000132	.0949823	.000039	-.000826

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0726607**	**.0013620**	**.0000959**	**-.016273**	**.0001627**	**.0028347**	**.0001853**
Stddev	.0336965	.0006132	.0003152	.001033	.0014168	.0075134	.0000235
%RSD	46.37506	45.01995	328.7444	6.349164	870.5930	265.0547	12.68231
#1	.0337677	.0020694	.0004361	-.017180	-.000098	-.004180	.0001864
#2	.0911340	.0009837	.0000378	-.015149	-.001106	.001921	.0002083
#3	.0930806	.0010328	-.000186	-.016492	.001692	.010763	.0001613

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB05 Acquired: 12/9/2025 16:54:49 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.007831	-.001229	.0000481
Stddev	.004559	.000533	.0000533
%RSD	58.22359	43.32699	110.6598
#1	-.002899	-.001805	.0001091
#2	-.008702	-.001129	.0000108
#3	-.011891	-.000754	.0000244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.280	59176.14	7634.249	2178.262	4214.372
Stddev	30.062	119.76	110.177	12.597	39.715
%RSD	1.013813	.2023761	1.443198	.5783030	.9423616
#1	2930.590	59058.15	7759.679	2172.497	4169.193
#2	2981.544	59297.60	7589.960	2192.710	4230.151
#3	2983.707	59172.66	7553.108	2169.579	4243.772

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-04 Acquired: 12/9/2025 16:59:09 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001275**	**.0015055**	**.0893654**	**.0097074**	**.0188825**	**.0197238**	**.0394192**
Stddev	.002944	.0045515	.0013692	.0061173	.0028663	.0076594	.0010516
%RSD	230.8160	302.3310	1.532081	63.01731	15.17981	38.83351	2.667665
#1	-.001329	-.002930	.0879837	.0072839	.0164495	.0196476	.0382101
#2	.001695	.001281	.0893907	.0166652	.0181558	.0274210	.0401210
#3	-.004192	.006165	.0907217	.0051731	.0220422	.0121027	.0399265

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000182**	**.0012773**	**27.01918**	**.0044769**	**-.000357**	**.0076225**	**.2526137**
Stddev	.000055	.0000626	.24733	.0003044	.000064	.0003665	.0014858
%RSD	30.06860	4.900580	.9153797	6.799039	17.82599	4.808813	.5881916
#1	-.000176	.0013354	26.73843	.0046497	-.000361	.0076101	.2543061
#2	-.000240	.0012855	27.11420	.0041254	-.000418	.0079951	.2520112
#3	-.000131	.0012110	27.20490	.0046556	-.000291	.0072623	.2515236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0368125**	**3.008214**	**.0031016**	**-.000558**	**.6095469**	**.0046540**	**.0398252**
Stddev	.0003103	.022129	.0002245	.000603	.0157347	.0031121	.0003943
%RSD	.8428837	.7356204	7.237669	108.1496	2.581369	66.86942	.9901495
#1	.0366039	2.984439	.0028425	-.000089	.5917353	.0014060	.0394276
#2	.0371691	3.011992	.0032254	-.001238	.6153479	.0049465	.0398318
#3	.0366645	3.028211	.0032370	-.000346	.6215575	.0076095	.0402162

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.113276**	**.0057010**	**.0015808**	**-.024291**	**-.001452**	**.5889651**	**.0015562**
Stddev	.017470	.0006301	.0001449	.000349	.000628	.0036300	.0001146
%RSD	.8266629	11.05177	9.162945	1.435019	43.26136	.6163306	7.365817
#1	2.121126	.0060698	.0014136	-.024326	-.001864	.5847739	.0014383
#2	2.093258	.0060597	.0016680	-.023926	-.001762	.5910207	.0016672
#3	2.125443	.0049735	.0016608	-.024620	-.000729	.5911008	.0015629

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-04 Acquired: 12/9/2025 16:59:09 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**3.969758**	**-.006147**	**.1759333**
Stddev	.032658	.000928	.0023133
%RSD	.8226773	15.09700	1.314879
#1	3.982345	-.005757	.1734194
#2	3.932679	-.005477	.1764085
#3	3.994249	-.007206	.1779722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2951.940**	**57583.40**	**7348.396**	**2216.869**	**4132.648**
Stddev	3.894	149.77	62.140	6.655	8.110
%RSD	.1318988	.2600906	.8456291	.3002023	.1962529
#1	2947.448	57724.10	7415.586	2211.861	4123.298
#2	2954.012	57425.97	7292.994	2224.421	4137.787
#3	2954.359	57600.13	7336.608	2214.325	4136.858

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-05 Acquired: 12/9/2025 17:03:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000110**	**.0080222**	**.0842320**	**.0240897**	**.0483685**	**.0259834**
Stddev	.001160	.0043414	.0009713	.0035928	.0044757	.0110279
%RSD	1052.229	54.11758	1.153180	14.91452	9.253450	42.44217
#1	.000573	.0078152	.0831919	.0237727	.0486406	.0272307
#2	-.001450	.0037879	.0843883	.0206658	.0527020	.0143848
#3	.000546	.0124633	.0851157	.0278305	.0437629	.0363345

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0581227**	**-.000192**	**.0950726**	**73.85631**	**.0187422**	**.0003224**
Stddev	.0015811	.000116	.0004906	1.05641	.0002143	.0000578
%RSD	2.720186	60.35142	.5160123	1.430365	1.143498	17.91240
#1	.0562998	-.000188	.0950210	72.66416	.0189481	.0003185
#2	.0591214	-.000309	.0946098	74.22855	.0187581	.0002667
#3	.0589469	-.000078	.0955869	74.67621	.0185203	.0003820

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097581**	**.0885581**	**.0943469**	**13.62209**	**.0167743**	**-.000450**
Stddev	.0004593	.0007973	.0007918	.22278	.0004614	.000520
%RSD	4.707142	.9003557	.8392110	1.635426	2.750330	115.6615
#1	.0093819	.0893903	.0934380	13.37625	.0167125	-.000256
#2	.0096224	.0884832	.0947158	13.67944	.0163470	-.001039
#3	.0102700	.0878009	.0948870	13.81059	.0172635	-.000055

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.61829**	**.0013215**	**.1682647**	**3.398678**	**.0334405**	**.0028101**
Stddev	.19064	.0014580	.0020884	.068667	.0003476	.0003407
%RSD	1.399910	110.3255	1.241134	2.020403	1.039295	12.12515
#1	13.59836	.0009336	.1687650	3.377818	.0334394	.0025064
#2	13.81811	.0000968	.1700576	3.475356	.0330935	.0027455
#3	13.43839	.0029343	.1659717	3.342860	.0337886	.0031786

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-05 Acquired: 12/9/2025 17:03:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025306	-.004640	4.687560	.0013440	F 27.97295	-.010914
Stddev	.000752	.000534	.036085	.0000948	.32567	.001908
%RSD	2.970470	11.51586	.7698000	7.054284	1.164214	17.48036
#1	-.024499	-.004023	4.666249	.0014520	28.02220	-.009090
#2	-.025432	-.004945	4.729223	.0012743	27.62546	-.010754
#3	-.025986	-.004952	4.667208	.0013057	28.27118	-.012896

Elem	Sr4077
Units	ppm
Avg	.2228346
Stddev	.0026054
%RSD	1.169222
#1	.2199109
#2	.2249106
#3	.2236824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2868.175	57286.97	7191.352	2194.295	3975.925
Stddev	13.629	367.28	68.338	23.730	23.154
%RSD	.4751857	.6411200	.9502779	1.081456	.5823427
#1	2880.946	57120.66	7265.559	2189.633	3988.559
#2	2869.755	57032.26	7177.488	2173.241	3990.013
#3	2853.825	57707.98	7131.009	2220.010	3949.203

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-06 Acquired: 12/9/2025 17:07:41 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0010250**	**.0089699**	**.1515589**	**.0285897**	**.0517332**	**.0223954**
Stddev	.0024149	.0066594	.0002310	.0082020	.0014440	.0134921
%RSD	235.5982	74.24238	.1523819	28.68875	2.791157	60.24475
#1	-.001687	.0166041	.1514570	.0379152	.0508044	.0269471
#2	.001818	.0043548	.1513964	.0224953	.0533968	.0072162
#3	.002944	.0059507	.1518232	.0253586	.0509984	.0330229

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0374197**	**-.000201**	**.1315739**	**55.14867**	**.0197064**	**.0004662**
Stddev	.0009223	.000151	.0004616	.59448	.0003949	.0000577
%RSD	2.464728	75.30775	.3508176	1.077966	2.003894	12.36767
#1	.0363730	-.000096	.1310432	54.46336	.0199946	.0005150
#2	.0377728	-.000133	.1318820	55.52549	.0198683	.0004026
#3	.0381132	-.000375	.1317965	55.45718	.0192563	.0004810

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0128022**	**.1622457**	**.0488186**	**10.53741**	**.0211256**	**-.000773**
Stddev	.0004953	.0123482	.0010027	.10790	.0005407	.000436
%RSD	3.868732	7.610788	2.053868	1.023993	2.559422	56.34651
#1	.0123537	.1720218	.0476609	10.41582	.0205866	-.001250
#2	.0133338	.1663465	.0493878	10.57467	.0211221	-.000673
#3	.0127193	.1483689	.0494071	10.62175	.0216680	-.000396

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.327470**	**.0019295**	**.2151188**	**2.925769**	**.0267858**	**.0026117**
Stddev	.057211	.0033694	.0035448	.027610	.0007588	.0003139
%RSD	.6870109	174.6290	1.647833	.9436853	2.832933	12.01689
#1	8.372249	-.001319	.2175763	2.905534	.0269894	.0023985
#2	8.347142	.005408	.2167248	2.914550	.0259460	.0024645
#3	8.263019	.001698	.2110552	2.957222	.0274221	.0029721

Sample Name: Q3763-06 Acquired: 12/9/2025 17:07:41 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.025470**	**-.001180**	**3.523998**	**.0010073**	F **22.42428**	**-.008754**
Stddev	.000700	.001174	.025963	.0002718	.16954	.001198
%RSD	2.747866	99.42275	.7367377	26.98011	.7560379	13.68984
#1	-.025391	-.002466	3.536034	.0011843	22.23941	-.009263
#2	-.024813	-.000167	3.541759	.0006944	22.57248	-.007385
#3	-.026206	-.000908	3.494202	.0011432	22.46094	-.009613

Elem	Sr4077
Units	ppm
Avg	**.1191458**
Stddev	.0010207
%RSD	.8567181
#1	.1179968
#2	.1199477
#3	.1194930

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2874.138**	**55771.44**	**7321.574**	**2129.314**	**4015.435**
Stddev	6.739	602.54	34.467	25.197	13.964
%RSD	.2344736	1.080378	.4707530	1.183329	.3477638
#1	2881.614	55311.51	7361.064	2110.834	4028.782
#2	2868.530	55549.29	7297.547	2119.092	4000.926
#3	2872.270	56453.52	7306.112	2158.016	4016.596

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-07 Acquired: 12/9/2025 17:11:55 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.005877**	**.0080645**	**.0075838**	**.0068532**	**.0148893**	**.0255360**
Stddev	.002957	.0026353	.0027182	.0053336	.0030443	.0146726
%RSD	50.31994	32.67801	35.84176	77.82652	20.44589	57.45866
#1	-.006767	.0068039	.0102027	.0081314	.0114580	.0384063
#2	-.008287	.0110934	.0077724	.0009966	.0172662	.0095587
#3	-.002577	.0062962	.0047762	.0114315	.0159437	.0286428

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0360861**	**-.000131**	**.0002022**	**134.6095**	**.0363442**	**-.000118**
Stddev	.0007307	.000043	.0000264	1.7489	.0004132	.000170
%RSD	2.025029	32.56363	13.06083	1.299203	1.136994	144.0973
#1	.0355206	-.000091	.0001721	132.6004	.0367467	-.000308
#2	.0369112	-.000126	.0002212	135.4379	.0359210	-.000062
#3	.0358266	-.000176	.0002133	135.7902	.0363650	.000017

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020126**	**.1448436**	**.0509137**	**26.24779**	**.0165030**	**-.001216**
Stddev	.0002216	.0051693	.0008231	.47858	.0003575	.000183
%RSD	11.01193	3.568899	1.616624	1.823326	2.166504	15.02711
#1	.0020762	.1485640	.0501214	25.70758	.0164496	-.001353
#2	.0021954	.1470257	.0508553	26.41703	.0168843	-.001287
#3	.0017661	.1389410	.0517645	26.61875	.0161752	-.001009

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.33828**	**.0016760**	**.0239720**	**9.959611**	**.0774561**	**.0021548**
Stddev	.19767	.0008910	.0002118	.044909	.0012545	.0002137
%RSD	.7801410	53.16243	.8834658	.4509161	1.619561	9.917277
#1	25.56106	.0015410	.0237576	9.977628	.0762562	.0023277
#2	25.26995	.0026267	.0241811	9.992715	.0787588	.0019159
#3	25.18384	.0008602	.0239773	9.908491	.0773534	.0022209

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-07 Acquired: 12/9/2025 17:11:55 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.019717	-.005196	F 27.44037	.0017579	F 50.11303	-.016037
Stddev	.000892	.001112	.07571	.0005157	.32480	.001943
%RSD	4.522571	21.40333	.2759209	29.33760	.6481268	12.11794
#1	-.019364	-.005005	27.50769	.0022122	49.74771	-.017296
#2	-.019056	-.004192	27.45502	.0011973	50.36918	-.017015
#3	-.020731	-.006391	27.35840	.0018640	50.22219	-.013799

Elem	Sr4077
Units	ppm
Avg	.3568974
Stddev	.0038315
%RSD	1.073560
#1	.3525316
#2	.3584594
#3	.3597012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2772.109	55051.89	7536.616	2045.988	3783.545
Stddev	15.463	465.14	76.631	12.507	25.363
%RSD	.5578153	.8449123	1.016784	.6112806	.6703408
#1	2762.503	54544.31	7624.620	2033.058	3773.058
#2	2763.877	55153.59	7500.608	2046.883	3765.107
#3	2789.947	55457.76	7484.622	2058.024	3812.469

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-08 Acquired: 12/9/2025 17:16:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.003679**	**.0070489**	**13.33233**	**-.000674**	**.0089525**	**.1331247**
Stddev	.004185	.0031824	.02200	.003085	.0027924	.0053824
%RSD	113.7495	45.14722	.1649836	457.7274	31.19108	4.043148
#1	-.002617	.0048517	13.31937	.000693	.0107076	.1303867
#2	-.008293	.0055967	13.35773	-.004206	.0057325	.1393257
#3	-.000128	.0106984	13.31990	.001491	.0104174	.1296618

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1051002**	**-.000147**	**.0838758**	**22.98025**	**.0076368**	**.0024002**
Stddev	.0025279	.000066	.0002119	.38735	.0004541	.0002412
%RSD	2.405220	45.08836	.2526874	1.685589	5.945634	10.04764
#1	.1065889	-.000112	.0839398	23.05769	.0074406	.0026010
#2	.1065303	-.000105	.0840483	23.32302	.0073137	.0021327
#3	.1021815	-.000223	.0836392	22.56002	.0081559	.0024669

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1016222**	**.0583402**	**.3045304**	**1.034817**	**.0549135**	**-.000974**
Stddev	.0008018	.0014319	.0048345	.021186	.0002473	.000250
%RSD	.7890161	2.454468	1.587540	2.047336	.4502729	25.64196
#1	.1014145	.0593951	.3066644	1.054226	.0550727	-.000847
#2	.1025074	.0567101	.3079307	1.038010	.0550392	-.000814
#3	.1009447	.0589154	.2989960	1.012216	.0546286	-.001262

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.646590**	**-.000148**	**.5013739**	**4.759230**	**.0301134**	**.0002296**
Stddev	.011607	.000680	.0025872	.033706	.0009367	.0001354
%RSD	.4385483	459.9660	.5160199	.7082310	3.110460	58.95949
#1	2.642558	-.000778	.5028487	4.790493	.0308124	.0001634
#2	2.659675	.000574	.5028865	4.763676	.0304786	.0003854
#3	2.637537	-.000240	.4983866	4.723522	.0290491	.0001401

Sample Name: Q3763-08 Acquired: 12/9/2025 17:16:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.023539	-.001453	2.588921	.0047635	F 22.40743	-.003073
Stddev	.001588	.000819	.012431	.0000568	.03900	.000926
%RSD	6.745356	56.33701	.4801623	1.193140	.1740437	30.12617
#1	-.022518	-.000611	2.579254	.0047748	22.37167	-.003931
#2	-.025368	-.002246	2.602944	.0047019	22.44901	-.003198
#3	-.022731	-.001502	2.584566	.0048139	22.40161	-.002092

Elem	Sr4077
Units	ppm
Avg	.1108282
Stddev	.0018324
%RSD	1.653331
#1	.1115898
#2	.1121569
#3	.1087378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2922.132	57706.88	7784.881	2143.639	4113.953
Stddev	12.158	338.56	149.008	9.266	13.073
%RSD	.4160513	.5866853	1.914065	.4322406	.3177830
#1	2916.766	57469.24	7749.959	2136.672	4108.616
#2	2913.581	57556.89	7656.435	2140.090	4104.392
#3	2936.050	58094.53	7948.247	2154.154	4128.851

Sample Name: Q3763-09 Acquired: 12/9/2025 17:20:22 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001267**	**.0061087**	**1.367424**	**.0129482**	**.0149449**	**.0074929**	**.0312249**
Stddev	.001221	.0024750	.005404	.0049271	.0019595	.0071360	.0010200
%RSD	96.35924	40.51714	.3952175	38.05194	13.11173	95.23718	3.266734
#1	-.001796	.0033047	1.371093	.0178089	.0128766	.0149855	.0300604
#2	-.002135	.0070320	1.369961	.0130785	.0151847	.0007771	.0319598
#3	.000129	.0079892	1.361218	.0079573	.0167736	.0067161	.0316547

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000221**	**.6241277**	**11.05477**	**.0082205**	**.0013741**	**.0395958**	**.2728482**
Stddev	.000049	.0007628	.07352	.0003967	.0000812	.0002516	.0136469
%RSD	22.21190	.1222235	.6650595	4.825964	5.908431	.6354810	5.001632
#1	-.000212	.6234642	10.98822	.0078219	.0013887	.0398755	.2572143
#2	-.000177	.6249612	11.04240	.0086153	.0012866	.0395239	.2789554
#3	-.000274	.6239577	11.13369	.0082241	.0014470	.0393879	.2823749

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1065389**	**2.347305**	**.0446611**	**-.000819**	**2.328597**	**-.001754**	**.8958450**
Stddev	.0012018	.038778	.0000565	.000260	.050682	.003521	.0104932
%RSD	1.128052	1.652027	.1265471	31.67400	2.176505	200.7482	1.171322
#1	.1061750	2.360436	.0447257	-.000684	2.270438	-.002920	.8845831
#2	.1055612	2.303667	.0446368	-.000656	2.352031	.002202	.8976046
#3	.1078806	2.377814	.0446208	-.001118	2.363321	-.004544	.9053471

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.956094**	**.0150676**	**.0008486**	**.3052998**	**-.001286**	**1.007352**	**.0013060**
Stddev	.064944	.0004185	.0001095	.0011519	.000287	.003090	.0002764
%RSD	2.196969	2.777187	12.90890	.3773078	22.35882	.3067356	21.16458
#1	2.883503	.0155276	.0009709	.3051316	-.001044	1.003784	.0010888
#2	2.976091	.0149655	.0008153	.3065267	-.001209	1.009116	.0016171
#3	3.008689	.0147096	.0007595	.3042413	-.001603	1.009156	.0012121

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-09 Acquired: 12/9/2025 17:20:22 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.567815**	**-.001366**	**.0684275**
Stddev	.018725	.000437	.0002093
%RSD	.3363063	32.00341	.3059334
#1	5.566126	-.000936	.0681858
#2	5.587327	-.001810	.0685500
#3	5.549991	-.001352	.0685468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2949.761**	**57463.78**	**7383.892**	**2139.480**	**4188.885**
Stddev	11.074	596.74	14.888	12.522	9.233
%RSD	.3754174	1.038462	.2016242	.5853000	.2204056
#1	2940.712	58143.69	7389.142	2153.881	4184.853
#2	2946.461	57220.71	7395.442	2133.404	4182.355
#3	2962.109	57026.94	7367.090	2131.155	4199.448

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-10 Acquired: 12/9/2025 17:24:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0045277**	**.0057887**	**.0391642**	**.0040608**	**.0287645**	**.0018759**	**.0270789**
Stddev	.0008269	.0027848	.0016550	.0047392	.0011585	.0108707	.0002342
%RSD	18.26236	48.10748	4.225739	116.7053	4.027599	579.4794	.8648440
#1	.0037178	.0032663	.0378046	.0089867	.0285485	-.008681	.0270650
#2	.0044946	.0053227	.0410070	-.000467	.0300158	.001274	.0268520
#3	.0053706	.0087771	.0386809	.003662	.0277292	.013035	.0273198

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000284**	**.0487907**	**21.46416**	**.0053136**	**.0044458**	**.0058189**	**.0256108**
Stddev	.000012	.0008257	.13694	.0000842	.0003021	.0001983	.0064041
%RSD	4.335382	1.692288	.6379798	1.583915	6.795739	3.407720	25.00564
#1	-.000271	.0478704	21.31558	.0053780	.0043724	.0058338	.0183313
#2	-.000294	.0490352	21.49161	.0052184	.0041871	.0056136	.0303775
#3	-.000288	.0494666	21.58529	.0053444	.0047778	.0060094	.0281235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.817273**	**2.695727**	**.0084005**	**-.000441**	**6.741487**	**-.002404**	**.3785668**
Stddev	.008812	.044925	.0001247	.000324	.036867	.002074	.0012833
%RSD	.4849022	1.666526	1.484315	73.36545	.5468749	86.27872	.3389751
#1	1.811345	2.648013	.0082740	-.000790	6.771399	-.004676	.3788500
#2	1.813076	2.701954	.0085233	-.000384	6.700298	-.001924	.3796849
#3	1.827399	2.737213	.0084044	-.000150	6.752765	-.000612	.3771657

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.344247**	**.0215713**	**.0007003**	**-.009031**	**-.000896**	**2.008566**	**.0021036**
Stddev	.058967	.0005931	.0001284	.001171	.001172	.020064	.0001575
%RSD	1.103377	2.749359	18.33532	12.96765	130.8042	.9989254	7.486646
#1	5.326403	.0219457	.0005889	-.008363	-.001823	1.986542	.0022854
#2	5.296264	.0218808	.0008407	-.010384	-.001286	2.025804	.0020166
#3	5.410076	.0208875	.0006713	-.008347	.000421	2.013351	.0020088

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-10 Acquired: 12/9/2025 17:24:36 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.521184**	**.0005863**	**.0783874**
Stddev	.160739	.0003321	.0001471
%RSD	1.886343	56.64651	.1876289
#1	8.379894	.0009684	.0782274
#2	8.487596	.0004232	.0784181
#3	8.696063	.0003673	.0785167

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2923.620**	**58269.06**	**7535.228**	**2243.893**	**4083.568**
Stddev	45.457	88.10	20.610	4.295	62.192
%RSD	1.554829	.1512009	.2735160	.1914260	1.522975
#1	2971.932	58193.94	7558.321	2241.278	4152.161
#2	2917.236	58366.03	7518.700	2248.850	4067.686
#3	2881.693	58247.20	7528.662	2241.550	4030.858

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11 Acquired: 12/9/2025 17:28:49 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000489**	**.0020353**	**.1800931**	**.0051824**	**.0337569**	**.0274525**	**.0377845**
Stddev	.002138	.0022484	.0022307	.0069717	.0010591	.0047264	.0006450
%RSD	437.0620	110.4688	1.238626	134.5271	3.137533	17.21684	1.707170
#1	.001970	.0017424	.1818645	.0128413	.0330038	.0254031	.0372583
#2	-.001904	-.000052	.1775880	-.000794	.0349679	.0328577	.0375910
#3	-.001533	.004416	.1808269	.003500	.0332989	.0240966	.0385041

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000113**	**.0172591**	**26.14072**	**.0229306**	**.0009863**	**.0080545**	**.2021322**
Stddev	.000067	.0001989	.17466	.0004505	.0002368	.0005613	.0012613
%RSD	59.32293	1.152207	.6681407	1.964399	24.00772	6.969132	.6240058
#1	-.000190	.0174885	25.97734	.0234375	.0008883	.0079468	.2030340
#2	-.000069	.0171528	26.12001	.0225764	.0008143	.0086619	.2026717
#3	-.000080	.0171359	26.32481	.0227778	.0012564	.0075549	.2006908

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217034**	**11.48808**	**.0180380**	**-.000805**	**2.039390**	**-.000139**	**.0266124**
Stddev	.0006509	.10414	.0004849	.000215	.023343	.000330	.0002741
%RSD	2.999264	.9064640	2.688456	26.74943	1.144592	236.6546	1.029847
#1	.0209954	11.37693	.0182047	-.000777	2.061290	-.000245	.0262980
#2	.0218389	11.50395	.0174916	-.001033	2.014832	-.000404	.0267384
#3	.0222759	11.58337	.0184175	-.000605	2.042047	.000230	.0268008

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.688122**	**.0196819**	**.0022662**	**-.022734**	**-.000203**	**.1190147**	**.0015350**
Stddev	.057160	.0002487	.0002093	.000718	.001452	.0098834	.0002526
%RSD	1.219251	1.263495	9.236778	3.156518	715.3917	8.304326	16.45798
#1	4.732659	.0193969	.0020492	-.023155	.000173	.1287273	.0014850
#2	4.623669	.0197944	.0024669	-.023141	.001024	.1089689	.0018089
#3	4.708040	.0198545	.0022824	-.021905	-.001806	.1193479	.0013111

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11 Acquired: 12/9/2025 17:28:49 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.091268	-.006344	.0983876
Stddev	.200782	.001436	.0004617
%RSD	2.481462	22.63641	.4693163
#1	8.304555	-.007886	.0981026
#2	7.905918	-.006101	.0981399
#3	8.063330	-.005045	.0989204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2912.624	59031.34	7554.383	2274.756	4062.809
Stddev	25.116	565.79	13.939	10.424	40.115
%RSD	.8623263	.9584580	.1845194	.4582622	.9873767
#1	2883.717	58384.78	7556.088	2262.734	4016.489
#2	2929.115	59273.47	7539.670	2281.298	4086.289
#3	2925.038	59435.77	7567.392	2280.235	4085.648

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11DUP Acquired: 12/9/2025 17:33:06 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0020148**	**.0026503**	**.1779258**	**.0076970**	**.0322145**	**.0372115**	**.0344795**
Stddev	.0031859	.0043707	.0034833	.0056743	.0021608	.0078910	.0005372
%RSD	158.1242	164.9141	1.957746	73.72122	6.707484	21.20592	1.557922
#1	.0020582	.0076371	.1790824	.0099951	.0304337	.0303191	.0348472
#2	-.001193	-.000515	.1806837	.0118617	.0315914	.0354964	.0338630
#3	.005179	.000829	.1740113	.0012341	.0346183	.0458191	.0347282

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000147**	**.0172163**	**25.75278**	**.0240496**	**.0010361**	**.0079487**	**.1926566**
Stddev	.000074	.0003094	.22720	.0000960	.0001255	.0003571	.0107123
%RSD	50.61336	1.796888	.8822386	.3993569	12.11190	4.492249	5.560290
#1	-.000197	.0172564	25.91824	.0239975	.0008913	.0075419	.1825770
#2	-.000061	.0175037	25.49374	.0241604	.0011049	.0080937	.2039056
#3	-.000182	.0168889	25.84637	.0239908	.0011122	.0082105	.1914871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204590**	**11.51756**	**.0176632**	**-.000753**	**1.983260**	**.0014062**	**.0276215**
Stddev	.0001806	.14104	.0001345	.000677	.008500	.0011322	.0006779
%RSD	.8824901	1.224552	.7612788	89.93257	.4286043	80.51737	2.454334
#1	.0204694	11.63978	.0175538	-.000594	1.990129	.0001782	.0284043
#2	.0206341	11.36324	.0178133	-.000169	1.985898	.0016316	.0272322
#3	.0202735	11.54966	.0176225	-.001495	1.973754	.0024087	.0272281

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.776397**	**.0193045**	**.0022437**	**-.022953**	**.0002813**	**.1171524**	**.0014536**
Stddev	.028392	.0008173	.0002564	.000747	.0011745	.0116506	.0002813
%RSD	.5944137	4.233956	11.42777	3.252686	417.5064	9.944846	19.35140
#1	4.757533	.0201139	.0021733	-.023526	.0005619	.1062596	.0017453
#2	4.809049	.0193202	.0020299	-.023224	.0012902	.1294360	.0014316
#3	4.762608	.0184794	.0025280	-.022108	-.001008	.1157616	.0011840

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11DUP Acquired: 12/9/2025 17:33:06 Type: Unk
Method: 6010-200.7 NEW(v394) 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	7.885795	-.005913	.0950603
Stddev	.200796	.000428	.0008153
%RSD	2.546298	7.236553	.8576391
#1	7.923311	-.005936	.0954989
#2	8.065187	-.005475	.0941196
#3	7.668887	-.006330	.0955623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2955.342	56637.38	7493.483	2130.076	4157.096
Stddev	48.728	694.74	77.758	16.753	73.360
%RSD	1.648806	1.226647	1.037676	.7864986	1.764701
#1	2932.504	56229.29	7403.780	2115.120	4131.322
#2	2922.227	56243.28	7534.965	2126.928	4100.102
#3	3011.294	57439.55	7541.704	2148.179	4239.866

Sample Name: Q3763-11LX5 Acquired: 12/9/2025 17:37:23 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0009801**	**.0033313**	**.0363842**	**.0012282**	**.0056808**	**.0070345**	**.0052022**
Stddev	.0036087	.0032683	.0022381	.0029196	.0018325	.0072656	.0002008
%RSD	368.1991	98.10730	6.151260	237.7096	32.25743	103.2853	3.860327
#1	-.002760	.0064133	.0368551	.0001329	.0044078	.0151795	.0054309
#2	.004441	.0036766	.0383495	-.000985	.0077811	.0047035	.0050546
#3	.001259	-.000096	.0339482	.004537	.0048535	.0012205	.0051211

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000203**	**.0035784**	**5.170146**	**.0044047**	**.0001437**	**.0017283**	**.0314891**
Stddev	.0000412	.0001357	.037163	.0003930	.0000108	.0002873	.0023443
%RSD	202.8201	3.791316	.7187969	8.921363	7.502551	16.62276	7.444902
#1	-.000002	.0035843	5.171690	.0040563	.0001562	.0018252	.0333728
#2	.000068	.0037111	5.206513	.0048306	.0001373	.0019546	.0288636
#3	-.000005	.0034399	5.132235	.0043272	.0001377	.0014051	.0322309

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041404**	**2.275659**	**.0038294**	**-.001267**	**.3896916**	**.0009210**	**.0052795**
Stddev	.0010406	.019678	.0002982	.000191	.0238757	.0026460	.0000804
%RSD	25.13261	.8647146	7.787378	15.09667	6.126831	287.3069	1.523260
#1	.0031674	2.254593	.0041438	-.001238	.3672861	.0010480	.0053724
#2	.0040164	2.293567	.0035506	-.001092	.3869822	-.001786	.0052357
#3	.0052375	2.278818	.0037936	-.001471	.4148064	.003501	.0052306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8757116**	**.0000458**	**.0003834**	**-.017719**	**.0003295**	**.0231544**	**.0008416**
Stddev	.0101191	.0000907	.0001198	.001092	.0010564	.0124959	.0002847
%RSD	1.155527	198.2673	31.24653	6.164283	320.5741	53.96770	33.83173
#1	.8655848	.0001357	.0004720	-.016477	-.000543	.0371689	.0006061
#2	.8858229	.0000473	.0002471	-.018150	.001504	.0131736	.0011580
#3	.8757272	-.000046	.0004312	-.018530	.000028	.0191207	.0007607

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11LX5 Acquired: 12/9/2025 17:37:23 Type: Unk
Method: 6010-200.7 NEW(v394) 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	1.648315	-.003759	.0187833
Stddev	.056800	.002054	.0000394
%RSD	3.445974	54.64171	.2100063
#1	1.649075	-.006129	.0188007
#2	1.704731	-.002640	.0188110
#3	1.591138	-.002507	.0187381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2979.628	59856.34	7844.241	2272.707	4187.092
Stddev	84.007	861.47	30.703	36.354	118.045
%RSD	2.819373	1.439237	.3914120	1.599597	2.819260
#1	2947.401	60845.02	7841.137	2314.150	4141.097
#2	2916.506	59456.93	7815.207	2257.776	4098.968
#3	3074.976	59267.05	7876.378	2246.196	4321.211

Sample Name: CCV06 Acquired: 12/9/2025 17:41:40 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.968187**	**4.797153**	**4.838832**	**5.054350**	**5.007967**	**9.655231**	**9.337600**
Stddev	.009993	.112143	.018951	.034080	.019897	.013480	.061666
%RSD	.2011376	2.337705	.3916389	.6742646	.3973014	.1396170	.6604078
#1	4.965621	4.890438	4.853178	5.090107	5.023933	9.669167	9.408026
#2	4.959728	4.672732	4.817349	5.022241	4.985677	9.642258	9.293287
#3	4.979213	4.828289	4.845970	5.050702	5.014291	9.654266	9.311487

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2320632**	**2.413997**	**23.69557**	**.9860868**	**2.430730**	**1.248653**	**4.902970**
Stddev	.0008489	.009230	.09501	.0064133	.007720	.004703	.038858
%RSD	.3657969	.3823545	.4009695	.6503753	.3175890	.3766807	.7925430
#1	.2330373	2.417644	23.76637	.9786901	2.433632	1.250497	4.858831
#2	.2314818	2.403501	23.73275	.9900960	2.421980	1.243307	4.932022
#3	.2316704	2.420846	23.58759	.9894743	2.436578	1.252154	4.918057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.324210**	**23.66605**	**2.417304**	**1.235635**	**24.40662**	**2.397254**	**2.494848**
Stddev	.008844	.07311	.008716	.006587	.13980	.000820	.009472
%RSD	.3805366	.3089087	.3605727	.5330475	.5727806	.0341917	.3796466
#1	2.333988	23.64754	2.422098	1.228181	24.25093	2.397813	2.488486
#2	2.316768	23.60398	2.407243	1.240669	24.44755	2.397634	2.505733
#3	2.321874	23.74663	2.422571	1.238057	24.52139	2.396313	2.490326

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.76313**	**4.595152**	**4.995525**	**4.845644**	**4.745446**	**5.245652**	**4.869240**
Stddev	.23231	.023282	.016070	.012207	.024673	.085664	.013145
%RSD	.9381296	.5066609	.3216932	.2519103	.5199388	1.633045	.2699612
#1	24.49626	4.618628	5.008544	4.858270	4.773169	5.146749	4.881539
#2	24.87310	4.594759	4.977564	4.833906	4.725896	5.296515	4.855387
#3	24.92004	4.572069	5.000467	4.844756	4.737272	5.293690	4.870793

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV06 Acquired: 12/9/2025 17:41:40 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.816269**	**4.643410**	**4.742044**
Stddev	.036949	.022905	.007436
%RSD	.7671734	.4932710	.1568189
#1	4.846473	4.669556	4.744572
#2	4.775071	4.626885	4.733674
#3	4.827265	4.633790	4.747888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2830.635**	**55123.41**	**7304.179**	**2066.069**	**3753.716**
Stddev	6.370	366.84	32.387	8.541	9.705
%RSD	.2250315	.6654919	.4434027	.4133819	.2585396
#1	2824.995	55520.73	7267.736	2075.232	3745.158
#2	2837.544	54797.57	7315.131	2064.645	3764.260
#3	2829.366	55051.92	7329.670	2058.330	3751.729

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB06 Acquired: 12/9/2025 17:45:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0034003**	**.0052848**	**-.000914**	**.0012051**	**.0015825**	**.0017915**	**-.000825**
Stddev	.0012450	.0032310	.001852	.0012045	.0001397	.0074649	.000387
%RSD	36.61487	61.13732	202.6987	99.94405	8.830358	416.6854	46.91440
#1	.0020644	.0044152	-.002210	.0022199	.0014705	.0097249	-.001244
#2	.0036081	.0088616	-.001738	-.000126	.0015378	-.005094	-.000482
#3	.0045283	.0025776	.001208	.001521	.0017391	.000744	-.000748

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000000**	**-.000020**	**-.001602**	**-.000287**	**-.000259**	**-.000241**	**-.010369**
Stddev	.000113	.000032	.015864	.000262	.000156	.000212	.001912
%RSD	28772.52	157.1818	990.1884	91.24065	60.04995	88.12555	18.43596
#1	.000053	.000007	.016444	-.000032	-.000080	-.000135	-.010463
#2	.000076	-.000055	-.007904	-.000555	-.000358	-.000102	-.012232
#3	-.000131	-.000012	-.013346	-.000274	-.000340	-.000485	-.008412

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000372**	**-.025703**	**.0001191**	**-.001127**	**.0762805**	**-.000568**	**-.000049**
Stddev	.000459	.028323	.0003042	.000191	.0199986	.000346	.000371
%RSD	123.4462	110.1972	255.3507	16.90326	26.21721	61.01962	757.4862
#1	-.000843	-.010160	.0000255	-.001289	.0537109	-.000373	-.000303
#2	.000075	-.058395	-.000127	-.001175	.0917966	-.000967	-.000221
#3	-.000349	-.008553	.000459	-.000917	.0833339	-.000362	.000377

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0686971**	**.0017861**	**.0002117**	**-.015892**	**-.000444**	**.0022726**	**.0003523**
Stddev	.0415327	.0004704	.0000812	.000505	.000608	.0019826	.0003087
%RSD	60.45764	26.33516	38.37551	3.180020	136.9042	87.23747	87.62239
#1	.0554215	.0022623	.0002428	-.016434	.000185	.0027455	.0005441
#2	.0354253	.0013218	.0001195	-.015806	-.000489	.0039760	-.000004
#3	.1152446	.0017743	.0002728	-.015434	-.001028	.0000963	.000517

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB06 Acquired: 12/9/2025 17:45:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	F -.011909	.0000597	.0001156
Stddev	.001524	.0009880	.0000806
%RSD	12.79342	1654.912	69.66980
#1	-.012863	.0010215	.0002063
#2	-.012712	-.000953	.0000522
#3	-.010152	.000110	.0000885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2943.255	57578.36	7390.077	2176.104	4144.576
Stddev	43.742	286.58	15.555	5.589	62.299
%RSD	1.486188	.4977218	.2104874	.2568250	1.503147
#1	2950.994	57845.52	7389.666	2182.542	4158.587
#2	2982.611	57613.88	7405.834	2172.498	4198.677
#3	2896.160	57275.68	7374.731	2173.272	4076.465

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-12 Acquired: 12/9/2025 17:50:05 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7790424**	**1.700907**	**1.110120**	**1.915020**	**.8428287**	**2.048004**	**.2428416**
Stddev	.0020184	.002527	.006330	.010378	.0028133	.115042	.0141893
%RSD	.2590895	.1485566	.5702032	.5419060	.3337890	5.617274	5.843039
#1	.7794718	1.700168	1.116223	1.925934	.8442020	2.175214	.2583734
#2	.7768438	1.703721	1.103585	1.905278	.8395926	1.951264	.2305580
#3	.7808115	1.698833	1.110552	1.913848	.8446917	2.017534	.2395934

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1849381**	**.1991857**	**29.33143**	**.4071527**	**.1892437**	**.3027386**	**3.167150**
Stddev	.0097193	.0011828	1.57607	.0024896	.0011609	.0020291	.034135
%RSD	5.255448	.5938085	5.373328	.6114605	.6134626	.6702469	1.077795
#1	.1959033	.2002600	31.08983	.4085735	.1900007	.3038604	3.200262
#2	.1773848	.1979182	28.04598	.4042780	.1879071	.3003963	3.132076
#3	.1815261	.1993789	28.85848	.4086065	.1898233	.3039591	3.169111

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2348919**	**14.49750**	**.4771470**	**.0418466**	**5.097798**	**.3031741**	**.2297959**
Stddev	.0125567	.82508	.0036504	.0002543	.033773	.0159332	.0020599
%RSD	5.345727	5.691202	.7650526	.6077886	.6625100	5.255447	.8963876
#1	.2490273	15.41594	.4797446	.0420821	5.122637	.3191811	.2312514
#2	.2250291	13.81893	.4729733	.0418810	5.059342	.2873158	.2274390
#3	.2306192	14.25763	.4787231	.0415769	5.111415	.3030256	.2306974

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.98411**	**.2940105**	**.4324397**	**.6429290**	**.2023805**	**1.010404**	**.5790710**
Stddev	.09503	.0155430	.0017014	.0039349	.0105930	.018820	.0037151
%RSD	.6342114	5.286538	.3934377	.6120237	5.234195	1.862614	.6415542
#1	15.02891	.3116345	.4337862	.6451117	.2140954	1.011457	.5822293
#2	14.87495	.2822609	.4305275	.6383866	.1934764	.991080	.5749778
#3	15.04845	.2881361	.4330052	.6452889	.1995697	1.028675	.5800059

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-12 Acquired: 12/9/2025 17:50:05 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.503014**	**.2021213**	**.3086911**
Stddev	.065705	.0117255	.0176383
%RSD	.7727314	5.801230	5.713889
#1	8.570711	.2153129	.3285799
#2	8.439500	.1928847	.2949473
#3	8.498833	.1981661	.3025461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2885.714**	**57044.94**	**7115.070**	**2167.531**	**3994.635**
Stddev	14.253	343.64	382.815	17.413	23.336
%RSD	.4939042	.6024096	5.380344	.8033407	.5841730
#1	2870.385	56817.62	6687.270	2155.089	3971.192
#2	2898.566	57440.26	7425.344	2187.430	4017.861
#3	2888.191	56876.93	7232.596	2160.074	3994.851

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-13 Acquired: 12/9/2025 17:54:09 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7364998**	**1.640240**	**1.045147**	**1.814454**	**.7956429**	**1.864529**	**.2256386**
Stddev	.0068861	.060402	.011855	.019699	.0085704	.008911	.0025372
%RSD	.9349769	3.682536	1.134324	1.085659	1.077171	.4779100	1.124459
#1	.7317827	1.576521	1.039078	1.799586	.7946872	1.856316	.2227379
#2	.7444018	1.696663	1.058808	1.836796	.8046512	1.863268	.2267322
#3	.7333148	1.647537	1.037555	1.806980	.7875904	1.874003	.2274456

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1676055**	**.1867668**	**26.82600**	**.4031900**	**.1776571**	**.2863287**	**3.144709**
Stddev	.0005682	.0017879	.17941	.0012562	.0019164	.0032176	.014727
%RSD	.3390391	.9572985	.6687841	.3115687	1.078680	1.123738	.4683002
#1	.1672602	.1861364	26.62152	.4023573	.1767132	.2851055	3.128100
#2	.1672951	.1887846	26.89949	.4046350	.1798623	.2899785	3.156173
#3	.1682614	.1853795	26.95700	.4025778	.1763958	.2839021	3.149854

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2109878**	**13.13681**	**.4649798**	**.0521623**	**4.900310**	**.2779955**	**.2164782**
Stddev	.0029686	.10622	.0048949	.0002923	.041445	.0030726	.0019155
%RSD	1.406987	.8085931	1.052710	.5604328	.8457716	1.105257	.8848306
#1	.2075793	13.02670	.4630055	.0518248	4.853076	.2745005	.2142666
#2	.2130071	13.14508	.4705534	.0523369	4.930593	.2802717	.2176097
#3	.2123770	13.23866	.4613803	.0523252	4.917261	.2792141	.2175583

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.28174**	**.2666093**	**.4108220**	**.6096063**	**.1865085**	**.9516352**	**.5518390**
Stddev	.11757	.0018107	.0039894	.0083789	.0028914	.0203864	.0055659
%RSD	.8232284	.6791421	.9710761	1.374484	1.550289	2.142251	1.008617
#1	14.15237	.2645607	.4087254	.6079381	.1835727	.9297478	.5481328
#2	14.38207	.2672718	.4154226	.6186939	.1893534	.9700831	.5582394
#3	14.31078	.2679954	.4083182	.6021870	.1865994	.9550746	.5491448

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-13 Acquired: 12/9/2025 17:54:09 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.017412**	**.1853982**	**.2846123**
Stddev	.082034	.0024673	.0027858
%RSD	1.023193	1.330804	.9788012
#1	7.969569	.1826532	.2816417
#2	8.112134	.1861103	.2850288
#3	7.970532	.1874311	.2871664

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2898.289**	**57420.91**	**7407.918**	**2235.381**	**4016.990**
Stddev	24.393	231.63	27.953	4.362	35.469
%RSD	.8416304	.4033915	.3773340	.1951360	.8829679
#1	2901.250	57523.48	7440.170	2240.355	4024.270
#2	2872.551	57155.71	7392.893	2233.581	3978.446
#3	2921.066	57583.56	7390.692	2232.208	4048.254

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11A Acquired: 12/9/2025 17:58:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7478350**	**1.666575**	**1.030582**	**1.830091**	**.7950112**	**1.916985**	**.2238701**
Stddev	.0034166	.027958	.005274	.004502	.0017535	.041832	.0072268
%RSD	.4568647	1.677551	.5117924	.2460099	.2205659	2.182164	3.228104
#1	.7451477	1.698708	1.025261	1.835268	.7964007	1.965257	.2320871
#2	.7466772	1.647820	1.030677	1.827915	.7930410	1.891347	.2185018
#3	.7516801	1.653197	1.035808	1.827091	.7955919	1.894351	.2210214

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1758284**	**.1878582**	**27.15258**	**.4034920**	**.1781556**	**.2857934**	**3.022968**
Stddev	.0039824	.0002925	.67006	.0096366	.0003084	.0017649	.049396
%RSD	2.264949	.1556847	2.467766	2.388301	.1731029	.6175586	1.634033
#1	.1803439	.1881792	27.91924	.3949240	.1779525	.2877052	2.966762
#2	.1743239	.1876067	26.67896	.4139247	.1780038	.2842261	3.059479
#3	.1728174	.1877888	26.85954	.4016274	.1785104	.2854489	3.042662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2112507**	**13.50581**	**.4579703**	**.0684998**	**4.827284**	**.2831051**	**.2262390**
Stddev	.0059977	.26335	.0005225	.0019930	.090331	.0077697	.0060350
%RSD	2.839158	1.949892	.1140935	2.909468	1.871256	2.744466	2.667541
#1	.2181285	13.79441	.4582345	.0666130	4.740357	.2905842	.2210866
#2	.2071084	13.27853	.4583078	.0705842	4.920672	.2750742	.2328786
#3	.2085153	13.44449	.4573684	.0683021	4.820822	.2836570	.2247519

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.96801**	**.2803353**	**.4141418**	**.6143764**	**.1876043**	**.9714673**	**.5447034**
Stddev	.28009	.0074491	.0003207	.0019511	.0050822	.0294101	.0008364
%RSD	2.005211	2.657209	.0774316	.3175756	2.709002	3.027395	.1535611
#1	13.67238	.2888213	.4143068	.6137463	.1933242	.9396565	.5455412
#2	14.22941	.2773089	.4137723	.6165647	.1836080	.9976689	.5447008
#3	14.00226	.2748757	.4143465	.6128182	.1858809	.9770767	.5438683

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-11A Acquired: 12/9/2025 17:58:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	7.931357	.1872667	.2833526
Stddev	.018998	.0076123	.0081836
%RSD	.2395323	4.064953	2.888130
#1	7.944143	.1957248	.2925243
#2	7.909527	.1809657	.2767965
#3	7.940402	.1851096	.2807371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.532	56500.17	7122.652	2128.997	4041.222
Stddev	7.795	1188.28	191.275	40.864	6.473
%RSD	.2691081	2.103141	2.685450	1.919381	.1601810
#1	2888.701	57570.69	6901.793	2171.355	4035.376
#2	2896.606	55221.61	7231.621	2089.813	4040.111
#3	2904.290	56708.21	7234.543	2125.824	4048.179

Sample Name: Q3763-14 Acquired: 12/9/2025 18:02:18 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0005132**	**.0059124**	**10.79158**	**.0026386**	**.0076212**	**.1120275**
Stddev	.0022178	.0088560	.01892	.0026685	.0011487	.0040402
%RSD	432.1111	149.7876	.1753670	101.1329	15.07267	3.606424
#1	-.001734	.0153814	10.80327	.0045281	.0074594	.1162006
#2	.002700	.0045218	10.76975	-.000414	.0065620	.1081348
#3	.000573	-.002166	10.80173	.003802	.0088423	.1117471

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0900542**	**-.000117**	**.0679031**	**19.58398**	**.0030212**	**.0017738**
Stddev	.0002504	.000059	.0000785	.03385	.0007899	.0002410
%RSD	.2780362	49.99006	.1155462	.1728618	26.14449	13.58541
#1	.0903056	-.000058	.0679894	19.54776	.0039332	.0020505
#2	.0900521	-.000119	.0678360	19.61482	.0025553	.0016098
#3	.0898049	-.000175	.0678840	19.58935	.0025751	.0016612

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0835699**	**.0468281**	**.2470038**	**.9197744**	**.0422467**	**-.000923**
Stddev	.0002965	.0037419	.0018254	.0167319	.0001955	.000596
%RSD	.3547799	7.990647	.7390106	1.819131	.4627760	64.56087
#1	.0837668	.0444381	.2449057	.9062958	.0424676	-.001222
#2	.0832289	.0511404	.2482274	.9385013	.0421766	-.000237
#3	.0837139	.0449058	.2478782	.9145260	.0420959	-.001311

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.206474**	**.0021242**	**.4204377**	**3.941676**	**.0256264**	**.0003576**
Stddev	.044684	.0007569	.0077395	.098069	.0007908	.0003934
%RSD	2.025126	35.63289	1.840827	2.487992	3.085749	110.0264
#1	2.159307	.0029979	.4158560	3.880612	.0258573	.0002481
#2	2.211944	.0017088	.4160835	3.889619	.0247459	.0007941
#3	2.248171	.0016660	.4293736	4.054796	.0262761	.0000305

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3763-14 Acquired: 12/9/2025 18:02:18 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.022930	-.000310	2.153242	.0038756	F 18.35655	-.003965
Stddev	.000963	.001216	.042873	.0001975	.05713	.000284
%RSD	4.200693	392.0950	1.991100	5.095298	.3112288	7.159068
#1	-.024034	-.000667	2.120779	.0036606	18.39490	-.003834
#2	-.022492	.001044	2.137106	.0039173	18.38385	-.003771
#3	-.022263	-.001307	2.201842	.0040489	18.29089	-.004291

Elem	Sr4077
Units	ppm
Avg	.0950111
Stddev	.0004324
%RSD	.4551331
#1	.0945165
#2	.0953179
#3	.0951989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2976.230	57926.84	7744.637	2180.636	4208.961
Stddev	6.387	946.74	13.345	31.988	7.630
%RSD	.2145866	1.634363	.1723181	1.466928	.1812746
#1	2969.295	58440.38	7751.634	2196.961	4203.924
#2	2981.869	58505.84	7753.028	2201.169	4217.739
#3	2977.528	56834.30	7729.248	2143.779	4205.219

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-01 Acquired: 12/9/2025 18:14:58 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0012343**	**.0050192**	**.1644582**	**.0116203**	**.0430300**	**.0513835**
Stddev	.0036189	.0025678	.0018072	.0052667	.0030807	.0072424
%RSD	293.1958	51.15985	1.098855	45.32306	7.159378	14.09488
#1	-.001625	.0027926	.1658019	.0176792	.0419381	.0470723
#2	.005303	.0044367	.1624037	.0090432	.0465079	.0597450
#3	.000025	.0078281	.1651690	.0081384	.0406440	.0473332

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0643189**	**-.000091**	**.0367565**	**96.18391**	**.0022439**	**-.000016**
Stddev	.0011783	.000026	.0003253	1.58719	.0002057	.000057
%RSD	1.831981	28.18408	.8849707	1.650158	9.168002	362.4462
#1	.0638582	-.000099	.0370949	96.53204	.0020804	-.000061
#2	.0634405	-.000063	.0367285	94.45155	.0024749	-.000034
#3	.0656579	-.000112	.0364462	97.56813	.0021765	.000048

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078444**	**.1944896**	**.0853071**	**18.24755**	**.0047862**	**-.001125**
Stddev	.0003669	.0081552	.0014464	.30468	.0004026	.000266
%RSD	4.677363	4.193147	1.695564	1.669728	8.412205	23.68988
#1	.0076561	.1918125	.0857407	18.33683	.0043315	-.001022
#2	.0082672	.1880095	.0836934	17.90820	.0050974	-.000925
#3	.0076098	.2036469	.0864871	18.49762	.0049297	-.001427

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.23614**	**.0021384**	**.0946859**	**3.683207**	**.0330251**	**.0030960**
Stddev	.04900	.0007973	.0000810	.022316	.0015034	.0002081
%RSD	.2421360	37.28436	.0855264	.6058966	4.552217	6.720881
#1	20.23321	.0016749	.0947778	3.658523	.0319020	.0028557
#2	20.18868	.0016813	.0946549	3.701955	.0324403	.0032157
#3	20.28654	.0030590	.0946250	3.689144	.0347330	.0032166

Sample Name: Q3765-01 Acquired: 12/9/2025 18:14:58 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.022407	-.001712	6.905708	.0032585	F 35.52879	-.015510
Stddev	.000564	.001262	.021594	.0002631	.57432	.000615
%RSD	2.519093	73.68618	.3127047	8.072911	1.616493	3.962574
#1	-.021936	-.002369	6.885446	.0035621	36.18587	-.014821
#2	-.022253	-.000258	6.903253	.0030983	35.27791	-.015711
#3	-.023033	-.002510	6.928425	.0031150	35.12259	-.016000

Elem	Sr4077
Units	ppm
Avg	.3294023
Stddev	.0056119
%RSD	1.703666
#1	.3311323
#2	.3231291
#3	.3339455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2807.202	57040.70	7662.512	2089.577	3859.820
Stddev	18.069	163.32	118.180	12.251	29.212
%RSD	.6436567	.2863150	1.542313	.5862971	.7568303
#1	2789.443	56896.87	7619.143	2075.449	3830.735
#2	2806.597	57218.24	7796.249	2096.015	3859.568
#3	2825.565	57006.98	7572.143	2097.266	3889.158

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-02 Acquired: 12/9/2025 18:19:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001629**	**.0031284**	**.3717216**	**.0468095**	**.0958520**	**.0583353**
Stddev	.000262	.0064671	.0061946	.0023761	.0023582	.0105317
%RSD	16.05345	206.7245	1.666455	5.076193	2.460282	18.05383
#1	-.001923	.0038096	.3645931	.0464255	.0950461	.0482892
#2	-.001423	-.003652	.3757967	.0493543	.0985075	.0574233
#3	-.001541	.009228	.3747751	.0446488	.0940024	.0692934

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0492981**	**-.000133**	**.0829955**	**91.50409**	**.0021980**	**.0003107**
Stddev	.0008014	.000093	.0018543	.56655	.0000296	.0000353
%RSD	1.625667	70.37347	2.234168	.6191542	1.346944	11.35891
#1	.0483944	-.000148	.0809263	90.96709	.0021883	.0003454
#2	.0499223	-.000218	.0845066	92.09617	.0021746	.0002749
#3	.0495776	-.000033	.0835536	91.44902	.0022313	.0003117

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194745**	**.4256801**	**.0302723**	**17.92724**	**.0092487**	**-.000890**
Stddev	.0009303	.0287871	.0000631	.04293	.0002841	.000317
%RSD	4.777068	6.762619	.2084184	.2394890	3.071757	35.58642
#1	.0184106	.4038585	.0301994	17.88412	.0091887	-.001127
#2	.0201349	.4148753	.0303075	17.96999	.0089995	-.000530
#3	.0198779	.4583063	.0303098	17.92760	.0095581	-.001012

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.10668**	**.0007039**	**.1214581**	**3.513031**	**.0394673**	**.0037519**
Stddev	.25275	.0016951	.0037685	.109310	.0005109	.0001909
%RSD	2.500836	240.8070	3.102711	3.111563	1.294475	5.088406
#1	10.00137	.0007994	.1191787	3.468416	.0390212	.0037467
#2	9.92360	.0023493	.1193876	3.433084	.0393561	.0039453
#3	10.39506	-.001037	.1258079	3.637592	.0400247	.0035636

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-02 Acquired: 12/9/2025 18:19:12 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.026505	-.001363	5.689096	.0037196	F 39.29859	-.012905
Stddev	.000358	.000181	.132945	.0001471	.72320	.000780
%RSD	1.352334	13.26705	2.336836	3.955863	1.840264	6.042820
#1	-.026739	-.001283	5.611485	.0035526	38.46446	-.012847
#2	-.026093	-.001236	5.613198	.0038303	39.68121	-.013713
#3	-.026685	-.001570	5.842604	.0037758	39.75009	-.012156

Elem	Sr4077
Units	ppm
Avg	.1766186
Stddev	.0009023
%RSD	.5108773
#1	.1761040
#2	.1776604
#3	.1760913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2888.690	58270.81	7609.000	2126.546	4002.120
Stddev	47.043	1215.79	62.509	48.230	70.002
%RSD	1.628528	2.086451	.8215200	2.267988	1.749126
#1	2934.750	58997.00	7651.569	2152.697	4075.128
#2	2840.722	58948.21	7537.234	2156.053	3935.572
#3	2890.597	56867.22	7638.195	2070.889	3995.660

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-03 Acquired: 12/9/2025 18:23:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.002132**	**.0035387**	**.0024333**	**.0033883**	**.0108503**	**.0304971**
Stddev	.002739	.0034040	.0014383	.0083043	.0019930	.0157753
%RSD	128.4613	96.19419	59.10906	245.0851	18.36787	51.72720
#1	-.005242	.0036820	.0032089	.0104006	.0087275	.0418912
#2	-.000083	.0000653	.0007736	-.005782	.0111422	.0371083
#3	-.001070	.0068687	.0033172	.005546	.0126813	.0124919

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0308094**	**-.000092**	**-.000018**	**126.1620**	**.0036278**	**-.000380**
Stddev	.0010238	.000099	.000070	1.1841	.0001982	.000256
%RSD	3.322986	107.4023	388.0918	.9385664	5.462983	67.25859
#1	.0297186	-.000193	.000026	124.8182	.0033990	-.000213
#2	.0309600	-.000087	-.000099	126.6150	.0037360	-.000674
#3	.0317495	.000004	.000019	127.0527	.0037483	-.000253

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007284**	**.0196390**	**.0097812**	**24.41020**	**.0023114**	**-.000605**
Stddev	.0003363	.0008267	.0006338	.24114	.0001842	.000398
%RSD	46.16499	4.209337	6.479484	.9878512	7.969378	65.69738
#1	.0003422	.0195680	.0090504	24.16708	.0025213	-.000308
#2	.0008868	.0204989	.0101128	24.41420	.0022360	-.000450
#3	.0009561	.0188502	.0101805	24.64930	.0021768	-.001057

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.25136**	**-.000557**	**.0209377**	**8.668691**	**.0642988**	**.0019038**
Stddev	.05844	.000477	.0001929	.039014	.0017608	.0005142
%RSD	.2750003	85.78179	.9211415	.4500561	2.738482	27.00764
#1	21.18497	-.000121	.0211577	8.623737	.0626133	.0013374
#2	21.29504	-.001067	.0208576	8.688635	.0661263	.0023411
#3	21.27405	-.000481	.0207978	8.693702	.0641570	.0020328

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-03 Acquired: 12/9/2025 18:23:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.025214**	**-.004897**	F **24.36576**	**.0017350**	F **43.09556**	**-.017920**
Stddev	.000894	.002186	.13783	.0003567	.64535	.000268
%RSD	3.544124	44.64334	.5656751	20.56020	1.497491	1.493813
#1	-.024282	-.007101	24.24651	.0017924	43.01765	-.017640
#2	-.026063	-.004861	24.33412	.0020595	43.77633	-.018173
#3	-.025297	-.002729	24.51667	.0013530	42.49270	-.017946

Elem	Sr4077
Units	ppm
Avg	**.3267170**
Stddev	.0031875
%RSD	.9756256
#1	.3230570
#2	.3282098
#3	.3288842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2853.239**	**56149.35**	**7813.526**	**2113.647**	**3887.471**
Stddev	26.245	149.56	37.556	5.420	40.978
%RSD	.9198244	.2663613	.4806573	.2564411	1.054111
#1	2851.405	56081.82	7855.301	2111.617	3888.708
#2	2827.960	56320.76	7802.719	2109.535	3845.888
#3	2880.353	56045.46	7782.559	2119.789	3927.816

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-04 Acquired: 12/9/2025 18:27:41 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0071007**	**.0040808**	**14.22839**	**-.002485**	**.0128215**	**.1481772**
Stddev	.0043179	.0025293	.03118	.003905	.0014557	.0103305
%RSD	60.80984	61.98060	.2191470	157.1799	11.35318	6.971709
#1	.0051948	.0063969	14.20684	-.001800	.0112316	.1472473
#2	.0040637	.0013819	14.21419	-.006687	.0140888	.1589412
#3	.0120437	.0044635	14.26415	.001033	.0131442	.1383431

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1086921**	**-.000161**	**.0757540**	**22.23798**	**.0170609**	**.0020357**
Stddev	.0017850	.000153	.0000935	.12521	.0002118	.0001709
%RSD	1.642294	95.17925	.1234009	.5630587	1.241539	8.393839
#1	.1086356	-.000293	.0757269	22.19421	.0168811	.0018412
#2	.1069359	.000007	.0756771	22.14052	.0172944	.0021040
#3	.1105047	-.000196	.0758581	22.37920	.0170071	.0021618

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0955325**	**3.853156**	**.2995602**	**1.005583**	**.0484929**	**-.000759**
Stddev	.0003711	.021155	.0020533	.014388	.0001403	.000157
%RSD	.3884676	.5490384	.6854369	1.430847	.2892573	20.67068
#1	.0959545	3.839971	.2990738	.991380	.0483559	-.000786
#2	.0953863	3.841939	.2977937	1.020150	.0484865	-.000901
#3	.0952568	3.877557	.3018130	1.005218	.0486362	-.000590

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.547871**	**-.000994**	**.4606694**	**4.630521**	**.0331274**	**.0002777**
Stddev	.029025	.001366	.0026378	.094520	.0010639	.0002917
%RSD	1.139186	137.4521	.5726110	2.041240	3.211425	105.0456
#1	2.564342	-.000327	.4636528	4.731461	.0327716	.0000395
#2	2.514357	-.000089	.4586459	4.544102	.0322870	.0001905
#3	2.564913	-.002566	.4597094	4.615999	.0343235	.0006031

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-04 Acquired: 12/9/2025 18:27:41 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.019992	.0000820	2.352643	.0156566	F 21.35374	-.001369
Stddev	.000317	.0012175	.012335	.0003546	.14787	.001021
%RSD	1.585922	1485.198	.5243111	2.265142	.6924770	74.57331
#1	-.019843	-.001206	2.340950	.0152471	21.18359	-.000242
#2	-.020356	.001214	2.365533	.0158563	21.45113	-.001633
#3	-.019777	.000239	2.351448	.0158664	21.42649	-.002231

Elem	Sr4077
Units	ppm
Avg	.1063262
Stddev	.0004520
%RSD	.4251266
#1	.1063898
#2	.1058457
#3	.1067430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2999.650	59189.76	7358.893	2292.381	4189.047
Stddev	4.853	330.00	56.658	10.875	4.651
%RSD	.1617915	.5575297	.7699256	.4743971	.1110200
#1	2994.915	58811.12	7346.491	2280.252	4192.172
#2	3004.613	59342.04	7420.724	2301.261	4191.266
#3	2999.420	59416.12	7309.463	2295.630	4183.702

Sample Name: CCV07 Acquired: 12/9/2025 18:31:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.796042**	**4.646215**	**4.729267**	**4.867795**	**4.885274**	**9.574815**	**9.690648**
Stddev	.011270	.061112	.002736	.017040	.009620	.122873	.170001
%RSD	.2349912	1.315307	.0578511	.3500468	.1969166	1.283297	1.754281
#1	4.793411	4.625521	4.729145	4.883912	4.895886	9.702773	9.871989
#2	4.808395	4.598136	4.726594	4.869509	4.882814	9.457752	9.534885
#3	4.786319	4.714987	4.732062	4.849963	4.877124	9.563921	9.665071

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2272234**	**2.346860**	**23.82861**	**.9506138**	**2.378661**	**1.220713**	**5.076135**
Stddev	.0035282	.001960	.30357	.0061240	.001493	.001408	.032642
%RSD	1.552744	.0835032	1.273987	.6442176	.0627680	.1153184	.6430387
#1	.2312969	2.346847	24.14090	.9571641	2.378629	1.221964	5.063216
#2	.2251291	2.344907	23.53457	.9450313	2.377184	1.219189	5.051931
#3	.2252443	2.348826	23.81037	.9496460	2.380169	1.220986	5.113259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.412919**	**23.47326**	**2.366390**	**1.218687**	**25.45537**	**2.397211**	**2.457455**
Stddev	.030613	.22621	.002014	.001449	.16609	.024433	.012302
%RSD	1.268718	.9636961	.0851136	.1189274	.6524696	1.019206	.5006169
#1	2.445159	23.69220	2.367676	1.220360	25.38197	2.423372	2.470375
#2	2.384244	23.24042	2.364069	1.217879	25.33862	2.374985	2.456110
#3	2.409355	23.48718	2.367425	1.217822	25.64551	2.393276	2.445881

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.06258**	**4.534721**	**4.894293**	**4.744311**	**4.814095**	**5.207043**	**4.821580**
Stddev	.16495	.062709	.013473	.006930	.066287	.030029	.009012
%RSD	.6581598	1.382857	.2752808	.1460663	1.376930	.5766984	.1869063
#1	24.98196	4.607109	4.909752	4.751300	4.885903	5.187977	4.826812
#2	24.95345	4.496972	4.888080	4.744192	4.755242	5.191494	4.811174
#3	25.25234	4.500084	4.885048	4.737442	4.801140	5.241658	4.826753

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV07 Acquired: 12/9/2025 18:31:52 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.691650**	**4.701837**	**4.837990**
Stddev	.023311	.062101	.031994
%RSD	.4968544	1.320781	.6613175
#1	4.676302	4.767468	4.825022
#2	4.680174	4.644002	4.814515
#3	4.718474	4.694042	4.874432

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2895.391**	**56170.38**	**7411.342**	**2174.561**	**3821.364**
Stddev	3.602	225.53	112.338	10.389	4.307
%RSD	.1244010	.4015133	1.515764	.4777506	.1126961
#1	2893.654	55914.86	7282.047	2163.584	3817.840
#2	2899.532	56341.70	7485.048	2175.860	3826.165
#3	2892.986	56254.57	7466.931	2184.240	3820.088

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB07 Acquired: 12/9/2025 18:36:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000415**	**.0019136**	**.0006264**	**.0025132**	**.0020572**	**-.005971**	**-.000511**
Stddev	.001898	.0020101	.0003995	.0033456	.0018018	.007549	.001762
%RSD	457.5212	105.0435	63.78417	133.1195	87.58825	126.4205	344.7701
#1	.001776	.0037527	.0010688	.0061731	.0004104	.001597	-.002432
#2	-.001508	-.000232	.0002919	-.000388	.0039818	-.013500	.001030
#3	-.001513	.002220	.0005185	.001754	.0017793	-.006011	-.000131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000045**	**-.000024**	**-.011136**	**.0000311**	**-.000266**	**.0001021**	**-.008304**
Stddev	.000061	.000045	.013624	.0003826	.000044	.0001071	.003291
%RSD	134.6061	183.0788	122.3404	1231.512	16.67429	104.9581	39.63686
#1	-.000020	.000018	-.017060	.0001688	-.000260	-.000019	-.008350
#2	-.000001	-.000021	.004447	.0003258	-.000313	.000184	-.004990
#3	-.000115	-.000071	-.020796	-.000401	-.000225	.000142	-.011572

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000849**	**-.003281**	**-.000312**	**-.001038**	**.0687635**	**.0005782**	**-.000278**
Stddev	.0002052	.024021	.000327	.000038	.0081426	.0021213	.000074
%RSD	241.6228	732.0403	104.7310	3.637314	11.84150	366.8895	26.72149
#1	-.000112	-.015924	.000063	-.001000	.0624806	-.001539	-.000363
#2	.000070	-.018340	-.000462	-.001037	.0658472	.000569	-.000231
#3	.000297	.024420	-.000536	-.001075	.0779627	.002704	-.000239

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0136740**	**.0012261**	**-.000214**	**-.016548**	**.0003473**	**.0011118**	**.0004128**
Stddev	.0187126	.0005789	.000135	.000762	.0011740	.0201826	.0001283
%RSD	136.8478	47.21936	63.42402	4.607716	338.0034	1815.281	31.08291
#1	.0009610	.0018746	-.000238	-.016117	.0004427	-.018439	.0004008
#2	.0048996	.0007612	-.000335	-.016098	.0014707	.021872	.0005466
#3	.0351615	.0010424	-.000068	-.017428	-.000871	-.000098	.0002909

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB07 Acquired: 12/9/2025 18:36:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.007148	-.001394	.0000746
Stddev	.002682	.000222	.0000583
%RSD	37.52259	15.93642	78.21162
#1	-.004261	-.001350	.0001399
#2	-.007621	-.001197	.0000276
#3	-.009563	-.001635	.0000563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2978.691	58156.60	7291.163	2248.603	4184.030
Stddev	12.059	1754.50	119.160	73.529	21.886
%RSD	.4048487	3.016862	1.634304	3.270004	.5230944
#1	2991.629	57873.55	7428.688	2247.271	4200.014
#2	2967.763	56560.84	7226.167	2175.748	4159.085
#3	2976.682	60035.43	7218.633	2322.789	4192.991

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05 Acquired: 12/9/2025 18:40:19 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0336310**	**.0110030**	**18.24750**	**.0108999**	**.1379016**	**.2997280**	**.0442903**
Stddev	.0025926	.0042100	.06778	.0042710	.0008307	.0057680	.0002355
%RSD	7.708979	38.26209	.3714466	39.18411	.6023764	1.924424	.5317086
#1	.0353171	.0153923	18.20219	.0079822	.1378292	.2940214	.0444958
#2	.0349301	.0069987	18.21488	.0089153	.1371096	.3055556	.0443417
#3	.0306456	.0106181	18.32542	.0158021	.1387662	.2996070	.0440333

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000090**	**.7261306**	**12.70003**	**.0124099**	**.0019506**	**.2028288**	**2.697157**
Stddev	.000032	.0024712	.05407	.0004556	.0003590	.0009482	.046336
%RSD	35.91483	.3403179	.4257236	3.670965	18.40224	.4675061	1.717953
#1	-.000125	.7247677	12.71546	.0119554	.0021061	.2023871	2.656755
#2	-.000086	.7246411	12.74470	.0128666	.0015401	.2021820	2.747735
#3	-.000061	.7289831	12.63992	.0124079	.0022057	.2039173	2.686980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1140753**	**2.846202**	**.0465005**	**-.000666**	**2.620774**	**.0016020**	**.8427055**
Stddev	.0003285	.022698	.0003267	.000471	.071869	.0016823	.0143232
%RSD	.2880133	.7974906	.7026616	70.68801	2.742289	105.0114	1.699668
#1	.1136991	2.851416	.0466238	-.000970	2.555048	.0030510	.8282750
#2	.1142209	2.821350	.0467477	-.000905	2.697515	-.000243	.8569189
#3	.1143059	2.865839	.0461301	-.000124	2.609759	.001998	.8429226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.155789**	**.0270169**	**.0020138**	**.0504447**	**.0081713**	**1.902415**	**.0073030**
Stddev	.060427	.0009647	.0003624	.0007397	.0005816	.037495	.0002242
%RSD	1.914810	3.570744	17.99445	1.466310	7.117760	1.970940	3.070558
#1	3.090166	.0270130	.0020969	.0504572	.0086748	1.883537	.0070621
#2	3.209135	.0279835	.0023274	.0496989	.0083045	1.945598	.0075056
#3	3.168065	.0260541	.0016171	.0511781	.0075347	1.878112	.0073412

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05 Acquired: 12/9/2025 18:40:19 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.318790	.0068884	.0722542
Stddev	.040979	.0013796	.0005349
%RSD	.6485334	20.02854	.7402516
#1	6.317679	.0082750	.0722562
#2	6.278377	.0055158	.0727881
#3	6.360313	.0068743	.0717184

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.342	57418.97	7791.354	2165.179	4246.613
Stddev	9.102	812.94	44.077	21.679	11.126
%RSD	.3040668	1.415796	.5657183	1.001268	.2619961
#1	2993.688	58165.58	7742.176	2184.643	4243.592
#2	3002.265	56552.92	7827.299	2141.814	4258.937
#3	2984.072	57538.41	7804.588	2169.079	4237.309

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05DUP Acquired: 12/9/2025 18:44:31 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0382829**	**.0099192**	**18.52670**	**.0133330**	**.1402566**	**.3086437**	**.0451594**
Stddev	.0018965	.0007380	.05695	.0021933	.0015089	.0064911	.0004095
%RSD	4.953988	7.440162	.3073860	16.45017	1.075782	2.103102	.9068337
#1	.0365612	.0090726	18.59245	.0154721	.1385535	.3016119	.0446982
#2	.0403158	.0104271	18.49436	.0134376	.1414264	.3099125	.0454804
#3	.0379717	.0102579	18.49328	.0110893	.1407899	.3144067	.0452994

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**.7376826**	**12.83248**	**.0121527**	**.0019015**	**.2041878**	**2.575142**
Stddev	.000115	.0025531	.10696	.0005160	.0002254	.0010695	.024701
%RSD	323.6509	.3460975	.8334971	4.245909	11.85370	.5237694	.9592254
#1	.000096	.7404819	12.71829	.0127421	.0020360	.2049973	2.589123
#2	-.000090	.7370837	12.84883	.0119336	.0016413	.2045905	2.546621
#3	-.000112	.7354822	12.93032	.0117824	.0020272	.2029754	2.589682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1162364**	**2.875299**	**.0480033**	**-.001257**	**2.456531**	**.0015921**	**.8296132**
Stddev	.0012201	.044454	.0006990	.000712	.018223	.0009067	.0037756
%RSD	1.049674	1.546049	1.456173	56.61227	.7418259	56.95104	.4551073
#1	.1156424	2.825523	.0484548	-.002043	2.468794	.0005993	.8329434
#2	.1154271	2.911044	.0471981	-.001074	2.435591	.0018005	.8255113
#3	.1176398	2.889330	.0483569	-.000655	2.465209	.0023765	.8303848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.971165**	**.0263096**	**.0016181**	**.0543362**	**.0092659**	**1.814778**	**.0074549**
Stddev	.063348	.0008370	.0002770	.0004415	.0007642	.026555	.0002040
%RSD	2.132096	3.181513	17.11852	.8125030	8.247753	1.463243	2.735815
#1	2.943871	.0254349	.0019301	.0546571	.0085989	1.813576	.0075154
#2	2.926040	.0263908	.0015228	.0538327	.0100998	1.788845	.0072276
#3	3.043585	.0271030	.0014012	.0545187	.0090991	1.841914	.0076218

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05DUP Acquired: 12/9/2025 18:44:31 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**6.450029**	**.0084954**	**.0731710**
Stddev	.015356	.0010397	.0004055
%RSD	.2380796	12.23860	.5541904
#1	6.440091	.0095750	.0729737
#2	6.467716	.0084103	.0729019
#3	6.442282	.0075008	.0736374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2980.118**	**58988.57**	**7564.836**	**2232.823**	**4195.480**
Stddev	14.308	475.90	18.855	20.243	19.888
%RSD	.4801267	.8067699	.2492459	.9066142	.4740362
#1	2964.140	58602.56	7585.111	2210.480	4173.277
#2	2984.466	59520.29	7561.566	2249.943	4201.499
#3	2991.748	58842.85	7547.829	2238.047	4211.662

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05LX5 Acquired: 12/9/2025 18:48:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0070329**	**.0080527**	**3.750753**	**.0032390**	**.0281125**	**.0531720**	**.0079790**
Stddev	.0029227	.0024278	.009632	.0028513	.0023995	.0119094	.0002331
%RSD	41.55706	30.14926	.2567940	88.03146	8.535372	22.39778	2.920801
#1	.0095078	.0054844	3.761658	.0037285	.0296565	.0466253	.0077576
#2	.0038085	.0083636	3.747196	.0001746	.0293329	.0459721	.0079572
#3	.0077823	.0103101	3.743407	.0058138	.0253481	.0669185	.0082221

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**.1517675**	**2.500167**	**.0022709**	**.0003972**	**.0410341**	**.5086455**
Stddev	.000044	.0002938	.004976	.0001937	.0000635	.0002299	.0059997
%RSD	262.2651	.1935719	.1990416	8.530907	15.98636	.5603339	1.179536
#1	-.000043	.1520957	2.505800	.0024516	.0004620	.0409410	.5149927
#2	.000034	.1516778	2.496366	.0022948	.0003946	.0412960	.5078764
#3	-.000041	.1515291	2.498336	.0020663	.0003351	.0408654	.5030675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224223**	**.5375317**	**.0099678**	**-.001133**	**.4631895**	**-.000220**	**.1668926**
Stddev	.0003087	.0222288	.0002252	.000161	.0091910	.000644	.0008613
%RSD	1.376737	4.135346	2.259686	14.20888	1.984287	292.1747	.5160491
#1	.0223105	.5194396	.0101150	-.001299	.4526730	.000513	.1658981
#2	.0227713	.5623456	.0097085	-.001122	.4696835	-.000484	.1673915
#3	.0221852	.5308098	.0100800	-.000978	.4672120	-.000690	.1673882

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5356542**	**.0033664**	**.0000394**	**-.003035**	**.0028588**	**.3617870**	**.0020337**
Stddev	.0323731	.0011049	.0002699	.000746	.0010646	.0199727	.0000962
%RSD	6.043662	32.82199	685.3513	24.57708	37.23775	5.520581	4.731676
#1	.5048094	.0046355	.0003190	-.003474	.0019963	.3786458	.0020269
#2	.5327881	.0028451	-.000220	-.002174	.0040486	.3397287	.0021332
#3	.5693650	.0026185	.000019	-.003457	.0025315	.3669865	.0019411

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05LX5 Acquired: 12/9/2025 18:48:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	1.333404	.0001708	.0142942
Stddev	.005211	.0003478	.0000727
%RSD	.3908187	203.7097	.5082286
#1	1.327471	-.000231	.0142219
#2	1.337238	.000370	.0142935
#3	1.335504	.000373	.0143672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3043.039	59244.41	7739.753	2256.554	4239.167
Stddev	2.803	312.64	47.399	12.973	10.078
%RSD	.0921236	.5277147	.6124106	.5749150	.2377297
#1	3039.832	59426.73	7761.538	2264.958	4227.665
#2	3044.261	59423.09	7772.344	2263.091	4246.446
#3	3045.023	58883.41	7685.378	2241.612	4243.390

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-06 Acquired: 12/9/2025 18:52:57 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7783426**	**1.680073**	**12.62106**	**1.821229**	**.8916376**	**2.145982**	**.2290741**
Stddev	.0106684	.040943	.11244	.023332	.0065956	.012214	.0018459
%RSD	1.370663	2.436996	.8909191	1.281132	.7397196	.5691686	.8058235
#1	.7679441	1.652578	12.53251	1.798182	.8853807	2.131913	.2281475
#2	.7778218	1.660513	12.58309	1.820668	.8910056	2.153882	.2278749
#3	.7892619	1.727128	12.74757	1.844836	.8985264	2.152149	.2311998

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1704034**	**.8090884**	**14.11603**	**.3947471**	**.1820100**	**.4765756**	**5.295106**
Stddev	.0012863	.0076313	.13478	.0011296	.0018401	.0043016	.039332
%RSD	.7548388	.9431983	.9548307	.2861471	1.011003	.9026073	.7428011
#1	.1699555	.8029490	13.97717	.3960242	.1809365	.4726139	5.250151
#2	.1694009	.8066837	14.12458	.3943382	.1809588	.4759617	5.323179
#3	.1718537	.8176323	14.24633	.3938790	.1841348	.4811511	5.311989

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3343584**	**4.681668**	**.4904263**	**.0182808**	**5.260175**	**.2855679**	**1.031670**
Stddev	.0020777	.039682	.0046404	.0009892	.048527	.0049714	.003809
%RSD	.6214017	.8476133	.9461896	5.411253	.9225376	1.740880	.3691600
#1	.3326612	4.636456	.4863259	.0179458	5.211450	.2813096	1.032939
#2	.3337384	4.710726	.4894894	.0193940	5.308501	.2843632	1.034683
#3	.3366755	4.697821	.4954636	.0175026	5.260575	.2910310	1.027390

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.27972**	**.2713796**	**.4177347**	**.6797004**	**.1935434**	**2.667984**	**.5359069**
Stddev	.13108	.0027025	.0043922	.0068901	.0014202	.023013	.0058832
%RSD	1.067479	.9958384	1.051421	1.013699	.7337661	.8625680	1.097803
#1	12.17558	.2703907	.4143873	.6737116	.1925511	2.663098	.5301161
#2	12.42692	.2693108	.4161090	.6781588	.1929088	2.693048	.5357264
#3	12.23667	.2744373	.4227080	.6872307	.1951702	2.647806	.5418784

Sample Name: Q3765-06 Acquired: 12/9/2025 18:52:57 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.553797	.1955725	.2598795
Stddev	.072990	.0018860	.0024411
%RSD	1.113702	.9643665	.9393117
#1	6.501991	.1934124	.2572560
#2	6.522128	.1964125	.2602984
#3	6.637273	.1968925	.2620840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2988.330	59344.10	7487.801	2191.520	4224.814
Stddev	18.366	299.79	37.509	11.055	25.540
%RSD	.6145750	.5051807	.5009366	.5044417	.6045244
#1	2998.063	59173.03	7503.727	2181.809	4239.587
#2	2999.781	59169.01	7514.720	2189.200	4239.531
#3	2967.147	59690.27	7444.957	2203.551	4195.323

Sample Name: Q3765-07 Acquired: 12/9/2025 18:56:59 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7467201**	**1.599321**	**12.08364**	**1.757609**	**.8610224**	**2.082775**	**.2183797**
Stddev	.0070392	.006565	.06462	.009678	.0008661	.020614	.0005852
%RSD	.9426867	.4104743	.5347353	.5506164	.1005914	.9897575	.2679891
#1	.7400295	1.592786	12.01043	1.749393	.8602600	2.076819	.2177379
#2	.7540626	1.605915	12.13271	1.768277	.8619642	2.065794	.2188837
#3	.7460682	1.599263	12.10779	1.755157	.8608430	2.105711	.2185174

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1647193**	**.7740586**	**13.33880**	**.4414710**	**.1747467**	**.4601873**	**5.346591**
Stddev	.0008171	.0034416	.08501	.0106577	.0008563	.0016277	.120279
%RSD	.4960381	.4446211	.6373484	2.414135	.4900531	.3536943	2.249632
#1	.1639415	.7706302	13.27240	.4292317	.1738161	.4583170	5.209194
#2	.1646455	.7775133	13.30938	.4487029	.1755015	.4612833	5.397728
#3	.1655707	.7740322	13.43461	.4464783	.1749225	.4609616	5.432853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2918468**	**4.464989**	**.4995655**	**.0202687**	**4.864140**	**.2714862**	**.9760230**
Stddev	.0010166	.032546	.0025931	.0004277	.107964	.0015790	.0207318
%RSD	.3483291	.7289200	.5190786	2.110304	2.219599	.5815981	2.124110
#1	.2920457	4.475712	.4966564	.0197758	4.741788	.2705711	.9520850
#2	.2907454	4.428434	.5016342	.0205421	4.946023	.2705780	.9877969
#3	.2927492	4.490820	.5004058	.0204883	4.904608	.2733094	.9881870

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.46997**	**.2625612**	**.3994804**	**1.399916**	**.1857676**	**2.553249**	**.5152217**
Stddev	.21070	.0009780	.0014820	.005723	.0006400	.060517	.0041373
%RSD	1.837011	.3724641	.3709953	.4088270	.3445438	2.370187	.8030135
#1	11.23800	.2614328	.3979663	1.394325	.1850319	2.484207	.5128381
#2	11.64950	.2631634	.4009282	1.405763	.1861970	2.578437	.5199990
#3	11.52240	.2630873	.3995469	1.399660	.1860738	2.597104	.5128280

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-07 Acquired: 12/9/2025 18:56:59 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**6.267955**	**.1883030**	**.2459930**
Stddev	.009833	.0008993	.0006126
%RSD	.1568707	.4776015	.2490383
#1	6.261473	.1881065	.2455221
#2	6.279269	.1875182	.2457713
#3	6.263123	.1892844	.2466856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2993.497**	**59726.46**	**7415.449**	**2223.606**	**4199.420**
Stddev	10.703	1191.86	14.681	46.367	15.662
%RSD	.3575418	1.995529	.1979803	2.085202	.3729667
#1	3001.130	61074.28	7431.170	2276.867	4213.341
#2	2981.263	58811.60	7413.081	2192.248	4182.461
#3	2998.099	59293.51	7402.096	2201.703	4202.457

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05A Acquired: 12/9/2025 19:01:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7639880**	**1.589710**	**19.02307**	**1.798287**	**.8833903**	**2.086666**	**.2167289**
Stddev	.0062972	.042180	.13614	.005097	.0075279	.027027	.0025363
%RSD	.8242572	2.653331	.7156475	.2834577	.8521620	1.295231	1.170279
#1	.7711501	1.572159	19.17998	1.804163	.8920425	2.062558	.2140520
#2	.7593188	1.559139	18.93633	1.795060	.8797880	2.081559	.2170385
#3	.7614952	1.637832	18.95291	1.795637	.8783403	2.115883	.2190963

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1651878**	**.8981817**	**13.34810**	**.3749243**	**.1771165**	**.4721419**	**5.138523**
Stddev	.0009718	.0057792	.14424	.0028559	.0012096	.0036616	.027444
%RSD	.5882750	.6434278	1.080593	.7617389	.6829472	.7755190	.5340920
#1	.1642040	.9047440	13.18655	.3762528	.1785085	.4763617	5.113786
#2	.1652125	.8938514	13.39379	.3768740	.1765202	.4702596	5.168045
#3	.1661470	.8959497	13.46396	.3716461	.1763208	.4698044	5.133737

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2868193**	**4.526914**	**.4818043**	**.0648101**	**4.969723**	**.2695578**	**.9966023**
Stddev	.0022896	.045465	.0039814	.0011540	.032136	.0082437	.0091483
%RSD	.7982812	1.004321	.8263470	1.780562	.6466311	3.058221	.9179441
#1	.2844894	4.474966	.4862060	.0660755	4.944437	.2626276	1.001209
#2	.2869023	4.559457	.4784545	.0638158	5.005885	.2673717	1.002531
#3	.2890664	4.546317	.4807524	.0645389	4.958846	.2786742	.986066

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.67020**	**.2654322**	**.4015333**	**.6850071**	**.1840200**	**2.594594**	**.5316215**
Stddev	.08037	.0021289	.0030674	.0053637	.0032388	.015852	.0038226
%RSD	.6886505	.8020539	.7639269	.7830104	1.760013	.6109438	.7190362
#1	11.63562	.2630371	.4050525	.6910789	.1814104	2.590418	.5354406
#2	11.76207	.2671093	.3994264	.6809135	.1830049	2.612115	.5277955
#3	11.61291	.2661501	.4001210	.6830289	.1876447	2.581248	.5316283

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-05A Acquired: 12/9/2025 19:01:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.351963	.1840586	.2441276
Stddev	.037304	.0038558	.0025163
%RSD	.5872902	2.094893	1.030749
#1	6.373153	.1796089	.2415287
#2	6.308889	.1864142	.2443018
#3	6.373846	.1861529	.2465523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.914	59488.61	7594.910	2246.818	4162.695
Stddev	19.928	427.78	40.875	26.619	28.626
%RSD	.6671647	.7190886	.5381919	1.184758	.6876879
#1	2964.152	59380.05	7641.131	2234.377	4129.707
#2	2995.374	59125.57	7580.073	2228.698	4181.008
#3	3001.216	59960.21	7563.525	2277.380	4177.372

Sample Name: Q3765-08 Acquired: 12/9/2025 19:05:03 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0073502**	**.0084545**	**.1494987**	**.0098727**	**.0330770**	**.0101568**
Stddev	.0025288	.0045343	.0029099	.0020269	.0014023	.0035817
%RSD	34.40460	53.63244	1.946466	20.53007	4.239580	35.26383
#1	.0099158	.0129961	.1526983	.0122089	.0344635	.0089624
#2	.0048598	.0039274	.1487878	.0088261	.0316594	.0073250
#3	.0072749	.0084400	.1470102	.0085831	.0331080	.0141831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0319731**	**-.000220**	**.0653487**	**28.21803**	**.0054539**	**.0050408**
Stddev	.0007164	.000023	.0008831	.12582	.0002937	.0002013
%RSD	2.240785	10.35681	1.351443	.4458684	5.384645	3.992575
#1	.0327896	-.000241	.0663255	28.08532	.0056742	.0052512
#2	.0316798	-.000224	.0651138	28.23320	.0051205	.0050211
#3	.0314498	-.000196	.0646068	28.33557	.0055671	.0048501

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083281**	**.8978881**	**1.709524**	**4.181771**	**.0094144**	**-.000879**
Stddev	.0003793	.0169160	.007920	.035514	.0002073	.000434
%RSD	4.553937	1.883982	.4633116	.8492542	2.201894	49.36258
#1	.0080061	.8800409	1.701030	4.147441	.0094255	-.000455
#2	.0087462	.8999371	1.710834	4.179512	.0096160	-.000859
#3	.0082322	.9136863	1.716708	4.218361	.0092018	-.001322

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.609130**	**-.001213**	**.3351280**	**4.532605**	**.0281259**	**.0009103**
Stddev	.045240	.000220	.0014662	.062788	.0003375	.0001308
%RSD	.8065344	18.16446	.4374937	1.385242	1.199813	14.36252
#1	5.582510	-.001421	.3361593	4.511420	.0285112	.0008189
#2	5.583515	-.000982	.3334496	4.483151	.0279835	.0010601
#3	5.661365	-.001235	.3357750	4.603245	.0278830	.0008520

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-08 Acquired: 12/9/2025 19:05:03 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.022721	-.001544	2.444151	.0033868	F 11.52336	-.002709
Stddev	.000651	.000631	.029738	.0002808	.18542	.000585
%RSD	2.863596	40.85114	1.216704	8.289870	1.609052	21.59197
#1	-.021971	-.001552	2.426900	.0036918	11.69347	-.002333
#2	-.023131	-.002170	2.427064	.0031391	11.55088	-.003383
#3	-.023061	-.000909	2.478490	.0033294	11.32572	-.002411

Elem	Sr4077
Units	ppm
Avg	.0889642
Stddev	.0002069
%RSD	.2325950
#1	.0887497
#2	.0889804
#3	.0891626

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.190	59025.84	7566.383	2213.905	4166.040
Stddev	39.428	418.47	2.504	11.850	57.320
%RSD	1.326563	.7089612	.0330982	.5352461	1.375876
#1	2926.890	58931.03	7567.703	2201.903	4102.285
#2	2990.904	59483.58	7563.494	2225.597	4182.521
#3	2998.777	58662.90	7567.950	2214.214	4213.313

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-09 Acquired: 12/9/2025 19:09:17 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0256449**	**.0032422**	**5.808069**	**.0005960**	**.0308834**	**4.599453**	**.0523379**
Stddev	.0041205	.0032103	.006232	.0044793	.0025907	.052181	.0017297
%RSD	16.06774	99.01600	.1073071	751.5921	8.388614	1.134506	3.304893
#1	.0294142	.0009418	5.813116	.0018986	.0311470	4.543628	.0503743
#2	.0212456	.0069098	5.801103	.0042796	.0333322	4.607730	.0530029
#3	.0262748	.0018750	5.809988	-.004390	.0281709	4.647001	.0536364

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004194**	**.0658904**	**28.01088**	**.0124741**	**.0065696**	**.0265070**	**8.603744**
Stddev	.0000529	.0001732	.30182	.0003584	.0001577	.0002405	.189380
%RSD	12.60797	.2629158	1.077526	2.873209	2.400312	.9074780	2.201134
#1	.0003693	.0659818	27.66826	.0121081	.0065091	.0263759	8.578357
#2	.0004747	.0656906	28.12692	.0124896	.0067486	.0267846	8.428339
#3	.0004142	.0659987	28.23746	.0128244	.0064511	.0263604	8.804538

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1352360**	**13.73029**	**.0434929**	**-.000859**	**1.880287**	**.0032813**	**.3776855**
Stddev	.0016474	.19102	.0002304	.000490	.053393	.0014289	.0065172
%RSD	1.218189	1.391248	.5297539	56.98012	2.839604	43.54679	1.725558
#1	.1338057	13.51049	.0434306	-.001080	1.859350	.0048618	.3744066
#2	.1348649	13.82420	.0433001	-.000298	1.840536	.0020808	.3734590
#3	.1370373	13.85617	.0437481	-.001199	1.940975	.0029013	.3851910

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.777332**	**.0308604**	**.0017903**	**-.017750**	**.0140567**	**1.895731**	**.0219308**
Stddev	.145731	.0012226	.0002504	.001014	.0004312	.056315	.0002019
%RSD	3.050461	3.961539	13.98518	5.714035	3.067830	2.970622	.9207931
#1	4.829821	.0300063	.0019830	-.018117	.0136306	1.889984	.0218053
#2	4.612628	.0303141	.0018808	-.018529	.0140466	1.842510	.0221637
#3	4.889548	.0322609	.0015073	-.016603	.0144928	1.954699	.0218234

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-09 Acquired: 12/9/2025 19:09:17 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**8.308407**	**-.004748**	**.0923445**
Stddev	.036090	.000736	.0010539
%RSD	.4343840	15.51096	1.141289
#1	8.272493	-.005427	.0911440
#2	8.344671	-.003965	.0927720
#3	8.308056	-.004851	.0931175

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.349**	**57874.61**	**7523.602**	**2188.021**	**4211.499**
Stddev	3.731	903.66	83.428	36.842	4.972
%RSD	.1229034	1.561415	1.108887	1.683826	.1180556
#1	3033.728	57844.33	7619.556	2198.469	4206.235
#2	3032.703	58793.03	7468.214	2218.511	4212.146
#3	3039.616	56986.47	7483.037	2147.083	4216.115

Sample Name: Q3765-10 Acquired: 12/9/2025 19:13:28 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0253489**	**.0096622**	**11.59664**	**.0015151**	**.0643479**	**.6114378**
Stddev	.0035231	.0041370	.08873	.0046012	.0021883	.0091733
%RSD	13.89854	42.81625	.7651265	303.6997	3.400799	1.500283
#1	.0215245	.0099903	11.59457	-.003307	.0661458	.6212060
#2	.0260598	.0053710	11.68638	.001994	.0649868	.6101013
#3	.0284623	.0136255	11.50896	.005858	.0619113	.6030060

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1104067**	**-.000050**	**.0121057**	**186.9375**	**.0082953**	**.0032168**
Stddev	.0014453	.000089	.0000914	1.2215	.0003295	.0001539
%RSD	1.309051	179.1176	.7553471	.6534257	3.972327	4.783384
#1	.1087387	.000046	.0121101	185.6943	.0085570	.0030647
#2	.1111942	-.000130	.0121949	186.9822	.0079252	.0033724
#3	.1112871	-.000066	.0120122	188.1360	.0084036	.0032134

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0910108**	**3.834427**	**.4594133**	**34.47381**	**.0130909**	**-.001335**
Stddev	.0009258	.024156	.0046319	.22074	.0007116	.000057
%RSD	1.017215	.6299798	1.008229	.6403030	5.435844	4.247591
#1	.0904724	3.853551	.4541392	34.28750	.0122771	-.001301
#2	.0920798	3.842450	.4612802	34.41632	.0135964	-.001303
#3	.0904802	3.807281	.4628205	34.71760	.0133991	-.001401

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.49603**	**.0047314**	**.2586656**	**5.294872**	**.0575772**	**.0023345**
Stddev	.07566	.0017613	.0011837	.013178	.0001581	.0003149
%RSD	.1868392	37.22533	.4576264	.2488729	.2746015	13.49002
#1	40.57105	.0058085	.2600303	5.302489	.0574142	.0022270
#2	40.49729	.0026989	.2579173	5.279656	.0577299	.0026892
#3	40.41974	.0056869	.2580492	5.302471	.0575873	.0020874

Sample Name: Q3765-10 Acquired: 12/9/2025 19:13:28 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.013691	.0031286	F 12.71542	.0230414	F 67.65157	-.028270
Stddev	.001138	.0003591	.06132	.0004287	.39461	.001394
%RSD	8.314083	11.47908	.4822750	1.860618	.5832996	4.930287
#1	-.012377	.0034903	12.77289	.0229015	67.60018	-.026690
#2	-.014341	.0031235	12.72252	.0235226	68.06936	-.028797
#3	-.014356	.0027721	12.65086	.0227002	67.28517	-.029325

Elem	Sr4077
Units	ppm
Avg	.6965998
Stddev	.0048620
%RSD	.6979551
#1	.6932323
#2	.6943934
#3	.7021737

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2841.822	55061.95	7207.152	2081.477	3800.002
Stddev	13.225	390.58	23.673	11.508	24.392
%RSD	.4653806	.7093464	.3284723	.5528898	.6418883
#1	2837.370	54747.57	7233.911	2071.696	3793.443
#2	2831.397	54939.08	7198.609	2078.576	3779.560
#3	2856.698	55499.18	7188.935	2094.158	3827.003

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-11 Acquired: 12/9/2025 19:17:39 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.002893**	**.0078682**	**.0918419**	**.0016109**	**.0152142**	**.0342440**
Stddev	.003731	.0068486	.0009129	.0042883	.0030582	.0042869
%RSD	128.9672	87.04251	.9939881	266.2060	20.10093	12.51853
#1	-.003299	.0023866	.0927060	.0003047	.0165356	.0293252
#2	-.006405	.0056725	.0908870	.0064005	.0173895	.0362224
#3	.001024	.0155453	.0919325	-.001872	.0117175	.0371844

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0748097**	**-.000199**	**.0001156**	**155.2298**	**.0020574**	**-.000324**
Stddev	.0012088	.000076	.0000597	1.5303	.0004447	.000203
%RSD	1.615839	38.18047	51.65115	.9858326	21.61557	62.64483
#1	.0758634	-.000124	.0000614	156.2241	.0017820	-.000542
#2	.0734901	-.000276	.0001796	153.4676	.0018198	-.000288
#3	.0750755	-.000197	.0001058	155.9977	.0025705	-.000141

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011714**	**.0063146**	**.0012767**	**31.26504**	**.0010219**	**-.000796**
Stddev	.0000677	.0027831	.0003210	.32186	.0004302	.000265
%RSD	5.780635	44.07364	25.13978	1.029472	42.09932	33.33700
#1	.0012399	.0093059	.0013015	31.49346	.0011841	-.001037
#2	.0011045	.0058362	.0009441	30.89693	.0013475	-.000841
#3	.0011699	.0038018	.0015846	31.40473	.0005342	-.000511

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.62523**	**.0000524**	**.0140587**	**4.444576**	**.0312177**	**.0015061**
Stddev	1.18942	.0007104	.0005965	.161355	.0010535	.0003658
%RSD	2.303947	1355.472	4.242871	3.630382	3.374595	24.28486
#1	50.99952	-.000072	.0144373	4.316081	.0321713	.0019283
#2	50.87927	-.000587	.0133711	4.391981	.0300868	.0012839
#3	52.99690	.000817	.0143677	4.625666	.0313950	.0013062

Sample Name: Q3765-11 Acquired: 12/9/2025 19:17:39 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025356	-.006365	9.236983	.0019126	F 28.32775	-.028769
Stddev	.001368	.000656	.185571	.0002288	.12238	.000944
%RSD	5.396950	10.31213	2.008995	11.96031	.4320050	3.280770
#1	-.026373	-.006136	9.179390	.0018409	28.40419	-.029168
#2	-.023800	-.005853	9.087037	.0017283	28.18660	-.029447
#3	-.025894	-.007105	9.444521	.0021686	28.39246	-.027691

Elem	Sr4077
Units	ppm
Avg	.6665300
Stddev	.0071379
%RSD	1.070896
#1	.6698869
#2	.6583325
#3	.6713705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2835.376	55151.09	7446.666	2131.151	3811.821
Stddev	2.441	1156.91	88.003	39.843	2.733
%RSD	.0860745	2.097714	1.181779	1.869557	.0716930
#1	2833.349	55444.78	7377.439	2141.500	3810.210
#2	2838.085	56132.85	7545.702	2164.800	3810.277
#3	2834.695	53875.64	7416.857	2087.155	3814.977

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV08 Acquired: 12/9/2025 19:30:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.789643**	**4.687111**	**4.735282**	**4.835167**	**4.848998**	**9.452008**
Stddev	.015620	.139780	.006317	.004773	.002519	.295436
%RSD	.3261158	2.982215	.1333962	.0987080	.0519387	3.125647
#1	4.787405	4.562689	4.739637	4.832924	4.851903	9.235386
#2	4.775263	4.660284	4.728037	4.840648	4.847439	9.332088
#3	4.806261	4.838359	4.738172	4.831928	4.847651	9.788548

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.176330**	**.2253697**	**2.352911**	**23.36360**	**.9560960**	**2.374027**
Stddev	.264555	.0052594	.005436	.65362	.0017251	.006163
%RSD	2.883012	2.333658	.2310407	2.797590	.1804336	.2596070
#1	9.091744	.2223991	2.356866	22.89557	.9565530	2.379941
#2	8.964412	.2222677	2.346712	23.08484	.9541884	2.367642
#3	9.472834	.2314422	2.355156	24.11038	.9575466	2.374498

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.213469**	**4.914769**	**2.316031**	**23.31572**	**2.363972**	**1.198552**
Stddev	.001517	.053352	.070014	.72292	.008379	.003430
%RSD	.1250533	1.085544	3.023038	3.100565	.3544399	.2861668
#1	1.214232	4.854759	2.263756	22.71631	2.370890	1.202022
#2	1.211722	4.932710	2.288759	23.11230	2.354655	1.198471
#3	1.214455	4.956837	2.395577	24.11856	2.366372	1.195164

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06280**	**2.358262**	**2.406840**	**24.32268**	F **4.453229**	**4.812709**
Stddev	.12820	.073608	.008394	.19121	.109733	.008267
%RSD	.5327772	3.121262	.3487664	.7861402	2.464121	.1717649
#1	23.92169	2.302280	2.411998	24.13244	4.384327	4.817562
#2	24.09459	2.330867	2.411369	24.32075	4.395590	4.803164
#3	24.17211	2.441639	2.397154	24.51485	4.579771	4.817401

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV08 Acquired: 12/9/2025 19:30:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.726286**	**4.673089**	**5.149537**	**4.826769**	**4.685309**	**4.537278**
Stddev	.013028	.129903	.062955	.032234	.030157	.124774
%RSD	.2756506	2.779810	1.222544	.6678206	.6436535	2.749968
#1	4.728902	4.579669	5.088201	4.829227	4.683611	4.446478
#2	4.712149	4.618165	5.146415	4.793376	4.656037	4.485802
#3	4.737808	4.821432	5.213996	4.857704	4.716280	4.679554

Elem	Sr4077
Units	ppm
Avg	**4.672131**
Stddev	.159964
%RSD	3.423799
#1	4.590237
#2	4.569696
#3	4.856461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2888.259**	**56318.98**	**7445.882**	**2138.329**	**3803.313**
Stddev	9.810	119.62	161.154	6.609	13.789
%RSD	.3396659	.2124001	2.164338	.3090738	.3625474
#1	2879.962	56201.15	7541.636	2133.335	3787.525
#2	2885.728	56315.48	7536.185	2135.829	3809.427
#3	2899.087	56440.31	7259.824	2145.824	3812.988

Sample Name: CCB08 Acquired: 12/9/2025 19:34:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0024466**	**.0056372**	**.0000532**	**.0024049**	**.0026598**	**-.007541**	**-.000360**
Stddev	.0010672	.0069665	.0003028	.0034619	.0002724	.003633	.001158
%RSD	43.61743	123.5813	568.8458	143.9486	10.24188	48.17319	321.1918
#1	.0035110	-.001817	.0001479	.0021883	.0023670	-.004172	-.001225
#2	.0024522	.011984	.0002974	.0059701	.0029058	-.007061	-.000811
#3	.0013767	.006744	-.000286	-.000944	.0027065	-.011390	.000955

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000555**	**-.000054**	**.0012988**	**.0000545**	**-.000026**	**.0001607**	**-.010103**
Stddev	.0000538	.000055	.0066746	.0002192	.000155	.0003335	.006463
%RSD	96.91767	103.4282	513.9263	402.4851	590.4222	207.5645	63.96974
#1	.0000431	-.000117	.0031897	-.000148	-.000129	.0002452	-.004615
#2	.0000090	-.000029	-.006117	.000287	-.000102	.0004438	-.017226
#3	.0001144	-.000015	.006824	.000024	.000152	-.000207	-.008466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000460**	**-.015497**	**.0001880**	**-.001118**	**.0382811**	**.0027794**	**.0000423**
Stddev	.0005256	.018251	.0002368	.000469	.0199005	.0031468	.0000539
%RSD	1142.569	117.7685	125.9435	41.95989	51.98517	113.2171	127.2798
#1	-.000033	-.034284	.0004512	-.001629	.0157795	-.000062	.0000981
#2	-.000436	.002165	.0001208	-.000706	.0454958	.002238	.0000382
#3	.000607	-.014371	-.000008	-.001020	.0535679	.006162	-.000009

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0241525**	**.0025662**	**-.000034**	**-.015955**	**-.000039**	**.0072181**	**.0006026**
Stddev	.0682161	.0009028	.000143	.000536	.000272	.0135192	.0001435
%RSD	282.4393	35.18150	417.2169	3.361959	695.7619	187.2962	23.81318
#1	-.051192	.0033364	-.000152	-.016079	-.000315	-.008297	.0004829
#2	.081721	.0027894	-.000076	-.016419	.000229	.013482	.0007616
#3	.041928	.0015727	.000125	-.015368	-.000031	.016469	.0005632

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB08 Acquired: 12/9/2025 19:34:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.008463	-.000389	.0001315
Stddev	.003475	.001330	.0000640
%RSD	41.05973	342.2287	48.72115
#1	-.010906	-.000373	.0001776
#2	-.004485	.000933	.0001585
#3	-.009997	-.001726	.0000583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3016.598	58177.66	7485.440	2212.562	4231.807
Stddev	1.690	215.62	100.488	8.128	1.911
%RSD	.0560241	.3706254	1.342443	.3673418	.0451574
#1	3017.997	58215.59	7370.735	2206.503	4233.954
#2	3017.076	57945.59	7557.953	2209.385	4230.294
#3	3014.720	58371.80	7527.632	2221.798	4231.173

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-12 Acquired: 12/9/2025 19:38:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.003495**	**.0035370**	**.0456708**	**.0055387**	**.0162733**	**.0279048**
Stddev	.002808	.0029428	.0017917	.0021136	.0012771	.0068402
%RSD	80.33463	83.19887	3.923137	38.16086	7.847581	24.51273
#1	-.001001	.0001441	.0477262	.0030982	.0171452	.0225399
#2	-.006536	.0053949	.0444388	.0067404	.0168672	.0356074
#3	-.002948	.0050719	.0448475	.0067774	.0148074	.0255671

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1738017**	**-.000085**	**.0002096**	**154.8740**	**.0019669**	**-.000084**
Stddev	.0021266	.000046	.0000159	2.1011	.0001606	.000180
%RSD	1.223556	54.41898	7.606241	1.356634	8.167032	215.2354
#1	.1715294	-.000132	.0002043	152.4809	.0020730	-.000268
#2	.1741320	-.000041	.0002275	155.7254	.0020456	-.000075
#3	.1757438	-.000081	.0001970	156.4158	.0017821	.000092

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021940**	**.2167253**	**.0256612**	**37.28376**	**.0008571**	**-.001608**
Stddev	.0003583	.0077305	.0003735	.61030	.0004598	.000268
%RSD	16.32917	3.566951	1.455455	1.636906	53.64445	16.65176
#1	.0022544	.2256517	.0252299	36.59023	.0012446	-.001299
#2	.0018094	.2122451	.0258743	37.52223	.0003491	-.001752
#3	.0025182	.2122790	.0258793	37.73882	.0009776	-.001774

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.35772**	**.0031845**	**.0324878**	**11.89843**	**.1679075**	**.0061210**
Stddev	.49422	.0013855	.0008148	.08276	.0014800	.0004185
%RSD	.6472491	43.50649	2.508143	.6955861	.8814615	6.836994
#1	75.78709	.0034484	.0322849	11.82166	.1663525	.0065403
#2	76.63607	.0016861	.0333849	11.98611	.1692990	.0061192
#3	76.65000	.0044191	.0317936	11.88751	.1680708	.0057034

Sample Name: Q3765-12 Acquired: 12/9/2025 19:38:54 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025963	-.005485	F 15.66442	.0025093	F 27.16452	-.026887
Stddev	.002491	.001326	.07993	.0001964	.31472	.000421
%RSD	9.594572	24.16904	.5102929	7.825945	1.158567	1.564279
#1	-.024929	-.006325	15.58047	.0023978	27.48260	-.027320
#2	-.028804	-.003957	15.73962	.0023939	26.85327	-.026861
#3	-.024155	-.006173	15.67316	.0027360	27.15768	-.026480

Elem	Sr4077
Units	ppm
Avg	.8087806
Stddev	.0115523
%RSD	1.428363
#1	.7956409
#2	.8133589
#3	.8173421

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2815.539	55585.63	7635.704	2089.834	3749.383
Stddev	35.449	122.45	58.283	7.685	49.243
%RSD	1.259031	.2202968	.7633017	.3677233	1.313365
#1	2776.701	55465.91	7696.737	2082.601	3694.884
#2	2846.152	55710.64	7629.747	2097.902	3790.677
#3	2823.763	55580.34	7580.628	2088.999	3762.587

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-13 Acquired: 12/9/2025 19:43:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000471**	**.0030352**	**.2344546**	**.0121817**	**.0222962**	**.0299416**	**.0355533**
Stddev	.002915	.0021514	.0019259	.0035878	.0032399	.0053073	.0015680
%RSD	619.4034	70.88105	.8214169	29.45281	14.53126	17.72541	4.410143
#1	-.002047	.0028224	.2325286	.0114117	.0186030	.0262848	.0338920
#2	.002893	.0009981	.2344548	.0160920	.0236259	.0275112	.0357607
#3	-.002258	.0052851	.2363803	.0090413	.0246597	.0360289	.0370073

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000120**	**.0011941**	**26.63138**	**.0050476**	**-.000039**	**.0092977**	**.4778647**
Stddev	.000018	.0000664	.33424	.0004082	.000177	.0002510	.0029096
%RSD	15.07758	5.555981	1.255071	8.087521	451.9704	2.700039	.6088761
#1	-.000102	.0012679	26.25539	.0045877	-.000243	.0090926	.4778651
#2	-.000138	.0011395	26.74397	.0051881	.000051	.0095777	.4807741
#3	-.000119	.0011750	26.89480	.0053670	.000075	.0092228	.4749549

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0158305**	**2.562088**	**.0027170**	**-.000786**	**.7125931**	**.0023935**	**.0271862**
Stddev	.0004865	.038957	.0003335	.000112	.0095393	.0015775	.0002323
%RSD	3.073129	1.520516	12.27283	14.30570	1.338678	65.90607	.8544360
#1	.0154883	2.538612	.0025978	-.000694	.7165128	.0007882	.0272503
#2	.0156158	2.540595	.0030937	-.000911	.7017183	.0039415	.0269285
#3	.0163874	2.607057	.0024595	-.000752	.7195481	.0024508	.0273796

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.554026**	**.0080555**	**.0016414**	**-.024191**	**-.000725**	**.2995827**	**.0030756**
Stddev	.025332	.0008002	.0003324	.000716	.001661	.0045292	.0002182
%RSD	1.630101	9.933820	20.25423	2.960048	229.0974	1.511847	7.093376
#1	1.568651	.0075788	.0014037	-.024485	-.002514	.2948039	.0028251
#2	1.524775	.0089794	.0014992	-.024714	.000768	.3001320	.0031774
#3	1.568651	.0076084	.0020213	-.023375	-.000429	.3038123	.0032242

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-13 Acquired: 12/9/2025 19:43:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.884512**	**-.005911**	**.1614813**
Stddev	.034034	.001379	.0015587
%RSD	.6967683	23.32322	.9652332
#1	4.852232	-.004334	.1597674
#2	4.881242	-.006513	.1618627
#3	4.920063	-.006886	.1628139

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3016.603**	**58563.72**	**7513.290**	**2218.873**	**4279.540**
Stddev	5.283	201.24	64.052	12.542	9.331
%RSD	.1751451	.3436174	.8525204	.5652325	.2180329
#1	3021.747	58331.88	7582.864	2207.230	4289.470
#2	3011.191	58666.19	7500.236	2232.153	4270.954
#3	3016.871	58693.10	7456.770	2217.236	4278.195

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-14 Acquired: 12/9/2025 19:47:27 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000614**	**.0074225**	**.2369653**	**.0065461**	**.0215871**	**.0345786**	**.0333262**
Stddev	.003540	.0020423	.0019140	.0025168	.0016726	.0050681	.0008567
%RSD	576.9797	27.51479	.8076935	38.44721	7.748101	14.65673	2.570769
#1	-.000425	.0065424	.2378339	.0052759	.0234138	.0308035	.0334522
#2	.002828	.0097572	.2347711	.0094448	.0201307	.0403387	.0341130
#3	-.004244	.0059678	.2382909	.0049175	.0212167	.0325935	.0324135

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000121**	**.0013259**	**25.79132**	**.0005927**	**.0000108**	**.0097572**	**.4901127**
Stddev	.000048	.0000443	.28715	.0001331	.0002045	.0007410	.0077392
%RSD	40.00752	3.344005	1.113357	22.46198	1885.841	7.594260	1.579076
#1	-.000103	.0013713	25.46724	.0004661	.0000460	.0092207	.4952650
#2	-.000175	.0013237	25.89266	.0007315	-.000209	.0094483	.4938600
#3	-.000084	.0012827	26.01406	.0005805	.000196	.0106027	.4812131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146748**	**2.510714**	**.0017408**	**-.001014**	**.6756775**	**.0022589**	**.0265323**
Stddev	.0005454	.028300	.0002050	.000706	.0175982	.0007544	.0003501
%RSD	3.716633	1.127170	11.77550	69.57621	2.604522	33.39752	1.319660
#1	.0151864	2.478275	.0018325	-.000210	.6754007	.0016065	.0269246
#2	.0141009	2.530346	.0015060	-.001529	.6582194	.0030850	.0262515
#3	.0147371	2.523523	.0018840	-.001305	.6934125	.0020851	.0264207

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.535400**	**.0061695**	**.0019286**	**-.023675**	**-.000814**	**.3026611**	**.0030272**
Stddev	.017704	.0005685	.0002836	.000960	.000166	.0060364	.0002674
%RSD	1.153028	9.214349	14.70480	4.056379	20.40348	1.994430	8.834217
#1	1.525243	.0056200	.0022206	-.023675	-.000696	.2974229	.0030359
#2	1.525114	.0067552	.0019110	-.024636	-.000742	.3012980	.0027555
#3	1.555842	.0061333	.0016542	-.022715	-.001004	.3092625	.0032901

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3765-14 Acquired: 12/9/2025 19:47:27 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**4.861444**	**-.008147**	**.1566509**
Stddev	.033017	.000387	.0009288
%RSD	.6791582	4.748186	.5929316
#1	4.884208	-.008392	.1556704
#2	4.823577	-.008348	.1567645
#3	4.876547	-.007701	.1575176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3013.265**	**59254.21**	**7794.180**	**2234.012**	**4244.647**
Stddev	3.569	79.43	52.177	9.946	3.721
%RSD	.1184436	.1340523	.6694316	.4452094	.0876523
#1	3016.820	59251.17	7841.221	2226.464	4248.934
#2	3009.682	59335.12	7738.059	2245.282	4242.744
#3	3013.291	59176.35	7803.260	2230.288	4242.263

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3776-01 Acquired: 12/9/2025 19:51:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.004922**	**.0047441**	**.0016159**	**.0047853**	**.0002530**	**1.703601**
Stddev	.003858	.0036241	.0012104	.0047267	.0027517	.005137
%RSD	78.39035	76.39169	74.90718	98.77603	1087.784	.3015497
#1	-.001594	.0015455	.0002940	.0031548	-.002782	1.697711
#2	-.009151	.0040066	.0018838	.0101114	.000957	1.707159
#3	-.004020	.0086803	.0026699	.0010897	.002585	1.705931

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0126895**	**.0000881**	**-.000024**	**6.204330**	**.0021510**	**.0004951**
Stddev	.0003961	.0000328	.000110	.008377	.0001763	.0000491
%RSD	3.121727	37.29033	462.0404	.1350209	8.197029	9.911410
#1	.0126672	.0000556	-.000038	6.208608	.0021575	.0005360
#2	.0123050	.0001212	.000092	6.194677	.0019716	.0004407
#3	.0130963	.0000874	-.000126	6.209703	.0023240	.0005086

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005961**	**13.80969**	**.0699763**	**2.043315**	**.0018887**	**-.000657**
Stddev	.0003793	.07376	.0008760	.044974	.0005620	.000236
%RSD	63.63379	.5341230	1.251874	2.201045	29.75620	35.86013
#1	.0008953	13.72469	.0695287	2.048157	.0024867	-.000399
#2	.0007235	13.84754	.0694145	1.996116	.0013714	-.000710
#3	.0001695	13.85684	.0709857	2.085673	.0018080	-.000861

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**128.3944**	**.0018566**	**.0122615**	**4.035882**	**.2518496**	**.0003515**
Stddev	.5396	.0012821	.0001912	.067125	.0018925	.0004332
%RSD	.4202657	69.06012	1.559578	1.663207	.7514354	123.2476
#1	127.8268	.0003774	.0123280	3.961343	.2532590	-.000121
#2	128.9009	.0025416	.0120459	4.091557	.2496986	.000445
#3	128.4553	.0026507	.0124106	4.054746	.2525912	.000730

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3776-01 Acquired: 12/9/2025 19:51:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.021544	.0160097	2.741621	.0141087	F 19.58954	-.003547
Stddev	.001778	.0007826	.014858	.0003838	.13473	.000979
%RSD	8.255171	4.888001	.5419524	2.720433	.6877731	27.60784
#1	-.020914	.0165728	2.732974	.0141780	19.69189	-.004656
#2	-.023552	.0163403	2.758778	.0136950	19.63983	-.002802
#3	-.020166	.0151162	2.733111	.0144532	19.43689	-.003182

Elem	Sr4077
Units	ppm
Avg	.0083058
Stddev	.0001481
%RSD	1.783570
#1	.0084657
#2	.0081731
#3	.0082786

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.842	57321.43	7904.593	2190.802	3985.933
Stddev	7.574	251.07	56.630	8.951	5.661
%RSD	.2551920	.4380121	.7164175	.4085611	.1420306
#1	2966.389	57142.26	7839.597	2190.587	3983.066
#2	2976.037	57213.63	7943.303	2181.960	3992.455
#3	2961.100	57608.40	7930.880	2199.858	3982.279

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3785-04 Acquired: 12/9/2025 19:56:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000722**	**.0038261**	**.0008633**	**.0054805**	**.0041268**	**.1611857**
Stddev	.002815	.0021072	.0008915	.0023124	.0016184	.0087393
%RSD	389.9708	55.07341	103.2708	42.19399	39.21706	5.421900
#1	-.003924	.0055068	.0012097	.0043098	.0048239	.1514831
#2	.000399	.0045094	.0015296	.0081441	.0052797	.1684392
#3	.001360	.0014621	-.000149	.0039875	.0022766	.1636349

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0589502**	**-.000071**	**.0000724**	**50.70297**	**.0053628**	**-.000191**
Stddev	.0002427	.000045	.0000532	.45325	.0001362	.000168
%RSD	.4117060	63.86951	73.43293	.8939232	2.539493	87.89548
#1	.0587065	-.000021	.0000413	50.52910	.0054420	-.000004
#2	.0591919	-.000083	.0001338	51.21741	.0054409	-.000327
#3	.0589522	-.000109	.0000421	50.36240	.0052056	-.000241

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157381**	**.3076565**	**.0146921**	**17.76926**	**.0069909**	**-.001178**
Stddev	.0003851	.0068413	.0002950	.19062	.0004753	.000150
%RSD	2.447172	2.223671	2.007608	1.072745	6.799251	12.76030
#1	.0157800	.3005647	.0145387	17.72613	.0067345	-.001313
#2	.0153337	.3142162	.0150321	17.97775	.0066987	-.001205
#3	.0161005	.3081886	.0145055	17.60390	.0075393	-.001016

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.7343**	**.0006729**	**.3265035**	**7.091068**	**.1729811**	**.0018451**
Stddev	1.1470	.0003062	.0013699	.064203	.0012179	.0006490
%RSD	.9422504	45.50586	.4195554	.9054077	.7040562	35.17372
#1	122.9601	.0010123	.3274729	7.121080	.1737274	.0012452
#2	121.5561	.0005892	.3271013	7.134770	.1736401	.0025340
#3	120.6869	.0004173	.3249363	7.017355	.1715757	.0017561

Sample Name: Q3785-04 Acquired: 12/9/2025 19:56:00 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.024028	-.001771	4.594911	.0801228	F 30.33138	-.007013
Stddev	.000232	.000483	.024643	.0004602	.17539	.001285
%RSD	.9643690	27.30339	.5363137	.5743286	.5782593	18.32093
#1	-.023922	-.002127	4.620449	.0799413	30.20671	-.008244
#2	-.024294	-.001220	4.593012	.0797811	30.25549	-.007114
#3	-.023869	-.001964	4.571273	.0806461	30.53194	-.005680

Elem	Sr4077
Units	ppm
Avg	.3029433
Stddev	.0023096
%RSD	.7623960
#1	.3033354
#2	.3050318
#3	.3004627

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.529	56134.50	7305.391	2131.644	3856.649
Stddev	2.391	381.92	46.936	14.457	5.511
%RSD	.0828479	.6803655	.6424849	.6782147	.1429048
#1	2886.154	55755.01	7310.852	2115.801	3863.008
#2	2884.348	56129.69	7255.963	2135.011	3853.260
#3	2889.086	56518.80	7349.358	2144.121	3853.679

Sample Name: PB170842BL Acquired: 12/9/2025 20:00:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0001939**	**.0027086**	**.0005160**	**.0061236**	**.0018879**	**-.009877**	**-.001078**
Stddev	.0005384	.0036348	.0011329	.0008256	.0024450	.006274	.000297
%RSD	277.7211	134.1961	219.5458	13.48278	129.5071	63.52545	27.55099
#1	.0005494	.0049788	.0015031	.0053581	.0030718	-.016745	-.001408
#2	-.000426	-.001484	.0007659	.0060142	.0035155	-.008439	-.000833
#3	.000458	.004631	-.000721	.0069984	-.000924	-.004446	-.000993

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**.0000161**	**.0111713**	**.0001218**	**-.000110**	**.0001266**	**-.011549**
Stddev	.000059	.0000362	.0039180	.0000203	.000137	.0002481	.007356
%RSD	343.4304	224.8720	35.07213	16.62887	124.2111	195.8881	63.69369
#1	.000007	-.000005	.0066488	.0001210	.000037	.0000510	-.019638
#2	-.000084	.000058	.0133280	.0001425	-.000133	-.000075	-.005261
#3	.000026	-.000004	.0135370	.0001020	-.000234	.000404	-.009747

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000615**	**-.008496**	**.0003490**	**-.000417**	**.0596687**	**-.000584**	**-.000242**
Stddev	.000438	.012913	.0004637	.000178	.0167783	.002279	.000044
%RSD	71.13486	151.9897	132.8830	42.59823	28.11906	390.0173	18.22234
#1	-.000844	.006307	.0006643	-.000212	.0459262	.001904	-.000199
#2	-.000111	-.014349	-.000183	-.000515	.0547134	-.001086	-.000238
#3	-.000891	-.017447	.000566	-.000524	.0783666	-.002571	-.000287

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.025920**	**-.003193**	**-.000432**	**-.016824**	**-.000258**	**.0013342**	**.0001408**
Stddev	.007261	.000720	.000134	.000656	.001199	.0059774	.0002160
%RSD	28.01178	22.54304	30.95764	3.901408	465.4812	448.0034	153.4578
#1	-.029907	-.002994	-.000442	-.016227	-.000705	-.003673	.0002168
#2	-.017539	-.003991	-.000560	-.017527	-.001168	.007952	.0003086
#3	-.030314	-.002593	-.000293	-.016718	.001101	-.000277	-.000103

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170842BL Acquired: 12/9/2025 20:00:14 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.004863	-.001316	-.000092
Stddev	.001957	.001656	.000092
%RSD	40.24891	125.7984	99.81889
#1	-.002893	-.002709	-.000036
#2	-.006807	-.001755	-.000198
#3	-.004889	.000515	-.000043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3049.311	59798.06	7554.255	2295.648	4280.200
Stddev	3.693	163.45	16.759	22.727	2.299
%RSD	.1211064	.2733368	.2218473	.9900024	.0537211
#1	3045.667	59611.78	7537.217	2298.968	4282.114
#2	3053.051	59917.50	7554.829	2316.532	4280.836
#3	3049.214	59864.90	7570.720	2271.443	4277.649

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170842BS Acquired: 12/9/2025 20:04:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7609678**	**1.846861**	**.9198008**	**1.963822**	**.7830909**	**1.840348**
Stddev	.0145246	.046997	.0169941	.034828	.0150414	.017060
%RSD	1.908702	2.544715	1.847582	1.773464	1.920772	.9270211
#1	.7775312	1.823240	.9385368	2.002701	.8004196	1.847855
#2	.7504051	1.816361	.9053810	1.935478	.7754418	1.852369
#3	.7549670	1.900984	.9154847	1.953288	.7734114	1.820822

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1782867**	**.1827737**	**.1861532**	**.9407416**	**.3826062**	**.1873592**
Stddev	.0027936	.0026127	.0032868	.0143539	.0018290	.0031898
%RSD	1.566939	1.429453	1.765635	1.525803	.4780461	1.702490
#1	.1809829	.1845211	.1899055	.9568749	.3820319	.1910218
#2	.1784722	.1840297	.1837840	.9359646	.3846535	.1851906
#3	.1754049	.1797702	.1847701	.9293853	.3811332	.1858652

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2980346**	**2.777316**	**.1844104**	**1.868833**	**.4708344**	**.0714045**
Stddev	.0052523	.027809	.0023757	.009665	.0069133	.0004109
%RSD	1.762323	1.001304	1.288262	.5171821	1.468307	.5754348
#1	.3040882	2.746078	.1850218	1.859701	.4787248	.0711832
#2	.2946881	2.799376	.1864205	1.878955	.4658407	.0718786
#3	.2953275	2.786494	.1817887	1.867843	.4679376	.0711517

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.759841**	**.2770405**	**.2008332**	**9.061754**	**.2676897**	**.3934576**
Stddev	.038778	.0041655	.0018824	.071901	.0032589	.0064210
%RSD	1.405093	1.503563	.9373159	.7934569	1.217426	1.631951
#1	2.722011	.2797582	.1997057	8.980492	.2699615	.4007769
#2	2.799503	.2791186	.2030064	9.117122	.2691518	.3887730
#3	2.758010	.2722448	.1997877	9.087647	.2639558	.3908229

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170842BS Acquired: 12/9/2025 20:04:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6330243**	**.1815025**	**.8309413**	F **.5818164**	F **-.002824**	**.1856710**
Stddev	.0115370	.0011757	.0073887	.0094172	.004013	.0030601
%RSD	1.822513	.6477446	.8891919	1.618580	142.1118	1.648130
#1	.6462545	.1819143	.8266078	.5924415	.000061	.1865553
#2	.6250590	.1824168	.8394726	.5745006	-.001126	.1881915
#3	.6277594	.1801763	.8267434	.5785071	-.007406	.1822661

Elem	Sr4077
Units	ppm
Avg	**.1813026**
Stddev	.0018546
%RSD	1.022909
#1	.1824763
#2	.1822669
#3	.1791645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3010.433**	**59595.23**	**7568.652**	**2262.138**	**4150.127**
Stddev	40.938	343.18	115.274	19.993	58.406
%RSD	1.359882	.5758595	1.523050	.8838095	1.407324
#1	2963.576	59769.51	7490.230	2269.930	4083.347
#2	3039.271	59199.88	7514.719	2239.422	4191.676
#3	3028.452	59816.31	7701.006	2277.062	4175.358

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-01 Acquired: 12/9/2025 20:08:39 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0013498**	**.0013825**	**.0082188**	**.0054488**	**.0259080**	**.0583526**
Stddev	.0012385	.0016192	.0011658	.0009065	.0018162	.0024806
%RSD	91.75603	117.1200	14.18446	16.63572	7.010361	4.251120
#1	.0026393	.0017645	.0069169	.0060982	.0278131	.0568704
#2	.0012406	-.000394	.0085734	.0044132	.0257149	.0569710
#3	.0001695	.002777	.0091661	.0058350	.0241960	.0612164

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0944946**	**-.000180**	**.0000168**	**172.2040**	**.0012439**	**.0011523**
Stddev	.0010139	.000032	.0000768	.9498	.0002203	.0002316
%RSD	1.072984	17.69920	457.8671	.5515297	17.70821	20.10038
#1	.0942244	-.000213	-.000042	171.4882	.0011507	.0009491
#2	.0956162	-.000150	.000104	173.2815	.0014954	.0011032
#3	.0936431	-.000177	-.000012	171.8423	.0010855	.0014045

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010220**	**.4622865**	**.3093827**	**31.36975**	**.0026753**	**-.001423**
Stddev	.0003693	.0043180	.0014087	.20672	.0003424	.000327
%RSD	36.13333	.9340444	.4553364	.6589665	12.79686	22.99836
#1	.0006239	.4662286	.3109287	31.19220	.0025105	-.001702
#2	.0013533	.4576716	.3090478	31.59669	.0024465	-.001063
#3	.0010888	.4629592	.3081717	31.32035	.0030689	-.001503

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.96979**	**.0006345**	**.0080405**	**5.234328**	**.0555773**	**.0026540**
Stddev	.35709	.0025593	.0004560	.024681	.0014781	.0000854
%RSD	.8933892	403.3708	5.670661	.4715179	2.659608	3.216625
#1	40.20049	-.002180	.0081149	5.261628	.0557947	.0025778
#2	40.15039	.001262	.0075519	5.227763	.0569347	.0027462
#3	39.55847	.002821	.0084546	5.213594	.0540025	.0026379

Sample Name: Q3766-01 Acquired: 12/9/2025 20:08:39 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025993	-.006142	F 11.78675	.0075982	F 66.95336	-.026440
Stddev	.000477	.000893	.02650	.0001472	.30211	.001248
%RSD	1.836497	14.53565	.2248089	1.936836	.4512318	4.720457
#1	-.026145	-.005280	11.78806	.0074842	67.13028	-.025116
#2	-.026376	-.006083	11.81258	.0077643	66.60452	-.026611
#3	-.025458	-.007063	11.75963	.0075460	67.12528	-.027594

Elem	Sr4077
Units	ppm
Avg	.6821698
Stddev	.0045101
%RSD	.6611392
#1	.6827788
#2	.6863444
#3	.6773861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2801.208	55972.98	7227.065	2090.851	3779.992
Stddev	20.657	360.81	16.983	17.510	20.313
%RSD	.7374410	.6446058	.2349927	.8374522	.5373716
#1	2777.370	55562.99	7219.177	2076.841	3757.548
#2	2813.843	56113.85	7215.461	2110.481	3785.312
#3	2812.412	56242.09	7246.558	2085.230	3797.115

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-02 Acquired: 12/9/2025 20:12:55 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0005171**	**.0069092**	**.1551337**	**.0033227**	**.0149545**	**.0424736**
Stddev	.0027735	.0052608	.0030566	.0037277	.0031001	.0174115
%RSD	536.3802	76.14248	1.970329	112.1884	20.73020	40.99369
#1	-.002568	.0016008	.1543328	.0008483	.0120143	.0225026
#2	.002804	.0121211	.1585110	.0076102	.0146563	.0544664
#3	.001315	.0070057	.1525572	.0015097	.0181929	.0504518

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0717314**	**-.000084**	**.0137699**	**151.7796**	**.0012109**	**-.000375**
Stddev	.0010020	.000040	.0001177	1.4577	.0004936	.000293
%RSD	1.396895	47.93899	.8547341	.9603889	40.76346	78.12770
#1	.0710784	-.000039	.0138658	150.2330	.0017711	-.000584
#2	.0712308	-.000117	.0138053	151.9777	.0010218	-.000503
#3	.0728851	-.000095	.0136386	153.1280	.0008398	-.000040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022683**	**.0141124**	**.0029070**	**30.90411**	**.0014790**	**-.001036**
Stddev	.0003044	.0032062	.0003904	.38295	.0003579	.000223
%RSD	13.42160	22.71913	13.43105	1.239161	24.20008	21.50705
#1	.0019524	.0115491	.0024726	30.47332	.0016006	-.000806
#2	.0022927	.0130806	.0030200	31.03312	.0010761	-.001250
#3	.0025598	.0177074	.0032286	31.20590	.0017603	-.001052

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.35275**	**.0010997**	**.0273973**	**4.214375**	**.0320215**	**.0016450**
Stddev	.54714	.0022276	.0004696	.048856	.0003245	.0003426
%RSD	1.155445	202.5600	1.713957	1.159267	1.013425	20.82749
#1	47.41620	-.001415	.0279326	4.197719	.0317129	.0016033
#2	47.86540	.001887	.0270549	4.269381	.0323599	.0013251
#3	46.77666	.002827	.0272044	4.176025	.0319915	.0020065

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-02 Acquired: 12/9/2025 20:12:55 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.026939	-.006511	8.916043	.0020566	F 28.38433	-.028073
Stddev	.000503	.000658	.124176	.0004594	.25529	.000948
%RSD	1.868960	10.10511	1.392727	22.33756	.8994044	3.378100
#1	-.026924	-.006430	8.897673	.0024368	28.65606	-.026999
#2	-.026444	-.007206	9.048381	.0021870	28.34742	-.028796
#3	-.027450	-.005897	8.802075	.0015461	28.14950	-.028424

Elem	Sr4077
Units	ppm
Avg	.6387972
Stddev	.0049984
%RSD	.7824678
#1	.6335679
#2	.6392965
#3	.6435271

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2798.169	56001.22	7388.021	2091.545	3769.403
Stddev	25.013	791.73	34.801	13.456	32.882
%RSD	.8938931	1.413767	.4710439	.6433506	.8723526
#1	2769.605	55470.03	7377.010	2084.502	3731.486
#2	2808.751	55622.43	7426.995	2083.072	3786.638
#3	2816.151	56911.18	7360.058	2107.061	3790.086

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-03 Acquired: 12/9/2025 20:17:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.004992**	**.0042445**	**.0670669**	**.0029418**	**.0190506**	**.0341974**
Stddev	.001565	.0025164	.0021068	.0018437	.0028932	.0061684
%RSD	31.35079	59.28623	3.141324	62.67285	15.18703	18.03746
#1	-.005398	.0024266	.0686852	.0009227	.0223238	.0332732
#2	-.003264	.0071165	.0678307	.0045360	.0168346	.0285433
#3	-.006314	.0031904	.0646847	.0033667	.0179936	.0407757

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1797547**	**-.000076**	**.0058722**	**161.6462**	**.0034719**	**-.000227**
Stddev	.0053260	.000035	.0000316	3.4982	.0001572	.000020
%RSD	2.962956	46.08294	.5390427	2.164108	4.527845	8.785542
#1	.1815624	-.000108	.0059058	162.7789	.0034847	-.000239
#2	.1839416	-.000081	.0058429	164.4378	.0033086	-.000204
#3	.1737601	-.000039	.0058679	157.7221	.0036223	-.000238

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025744**	**.1127784**	**.0274279**	**38.91625**	**.0024861**	**-.000803**
Stddev	.0002921	.0120447	.0005565	.72652	.0004942	.000362
%RSD	11.34702	10.67993	2.028779	1.866877	19.87938	45.10176
#1	.0022929	.1019788	.0274294	39.17757	.0022067	-.000386
#2	.0028761	.1257676	.0279836	39.47596	.0030568	-.000981
#3	.0025541	.1105887	.0268707	38.09521	.0021950	-.001041

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**82.14710**	**.0004093**	**.0412628**	**12.63310**	**.1773497**	**.0061740**
Stddev	2.86630	.0006841	.0014235	.45141	.0036856	.0001376
%RSD	3.489233	167.1470	3.449752	3.573259	2.078168	2.228035
#1	79.11239	.0011977	.0396224	12.13281	.1794382	.0060281
#2	84.80839	-.000026	.0421736	13.00996	.1795168	.0063014
#3	82.52052	.000056	.0419923	12.75654	.1730942	.0061925

Sample Name: Q3766-03 Acquired: 12/9/2025 20:17:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.020539	-.006932	F 16.46115	.0020509	F 28.44291	-.026287
Stddev	.000681	.001424	.62773	.0002348	.19127	.002038
%RSD	3.315410	20.53737	3.813392	11.44947	.6724756	7.750958
#1	-.019805	-.005292	15.78375	.0019203	28.66154	-.028044
#2	-.021150	-.007853	17.02322	.0019104	28.30648	-.026764
#3	-.020662	-.007651	16.57648	.0023220	28.36069	-.024054

Elem	Sr4077
Units	ppm
Avg	.8529187
Stddev	.0193512
%RSD	2.268823
#1	.8607658
#2	.8671139
#3	.8308765

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2802.968	54209.01	7536.062	2036.074	3745.409
Stddev	19.042	1645.70	154.469	67.601	16.956
%RSD	.6793344	3.035839	2.049737	3.320167	.4527128
#1	2784.182	56025.12	7437.521	2113.858	3726.673
#2	2822.255	52816.58	7456.576	1991.505	3759.698
#3	2802.467	53785.32	7714.088	2002.861	3749.857

Sample Name: CCV09 Acquired: 12/9/2025 20:37:03 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.800401**	**5.062136**	**4.728773**	**4.845863**	**4.881149**	**9.364644**	**9.608311**
Stddev	.042142	.182439	.024514	.050788	.037873	.121017	.228557
%RSD	.8778781	3.603996	.5184037	1.048062	.7759072	1.292276	2.378743
#1	4.792600	4.885650	4.711853	4.821949	4.866283	9.225219	9.362764
#2	4.762705	5.050762	4.717580	4.811447	4.852964	9.426251	9.814860
#3	4.845898	5.249996	4.756885	4.904193	4.924200	9.442461	9.647308

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2406520**	**2.350267**	**23.20613**	**.9620785**	**2.382607**	**1.224936**	**5.134432**
Stddev	.0014513	.019884	.26670	.0027794	.020244	.010211	.042442
%RSD	.6030809	.8460500	1.149255	.2888922	.8496686	.8335986	.8266134
#1	.2390069	2.337225	22.89898	.9644674	2.368615	1.222246	5.095968
#2	.2411976	2.340424	23.34039	.9590281	2.373384	1.216340	5.127363
#3	.2417514	2.373153	23.37901	.9627400	2.405820	1.236223	5.179964

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.315087**	**22.87852**	**2.371633**	**1.219333**	**25.23641**	**2.356888**	**2.461047**
Stddev	.027416	.36320	.019786	.005968	.16324	.023079	.009977
%RSD	1.184232	1.587515	.8342797	.4894510	.6468362	.9791955	.4053910
#1	2.283435	22.47613	2.356275	1.217465	25.10194	2.331047	2.466505
#2	2.330382	23.18206	2.364664	1.214523	25.18927	2.364169	2.449532
#3	2.331443	22.97738	2.393961	1.226012	25.41804	2.375448	2.467104

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.29375**	**4.687259**	**4.883785**	**4.716010**	**4.678548**	**5.305739**	**4.814235**
Stddev	.21163	.030446	.044203	.045638	.048899	.048994	.041332
%RSD	.8366889	.6495414	.9050871	.9677191	1.045181	.9234138	.8585382
#1	25.10301	4.652144	4.863678	4.687537	4.622312	5.256544	4.780056
#2	25.25683	4.703354	4.853211	4.691844	4.702276	5.306145	4.802477
#3	25.52141	4.706279	4.934467	4.768650	4.711056	5.354529	4.860173

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV09 Acquired: 12/9/2025 20:37:03 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.700520**	**4.512734**	**4.699665**
Stddev	.059106	.054067	.086435
%RSD	1.257445	1.198088	1.839169
#1	4.642644	4.450342	4.605347
#2	4.698129	4.542017	4.718559
#3	4.760785	4.545841	4.775091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2891.437**	**56441.64**	**7796.139**	**2137.855**	**3829.808**
Stddev	22.100	278.13	28.105	14.404	25.025
%RSD	.7643389	.4927821	.3605028	.6737537	.6534220
#1	2893.873	56165.77	7828.074	2123.145	3839.749
#2	2912.218	56721.99	7775.167	2151.932	3848.335
#3	2868.219	56437.15	7785.176	2138.487	3801.340

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB09 Acquired: 12/9/2025 20:41:15 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002294**	**.0075147**	**-.000064**	**.0003908**	**.0024579**	**-.004196**	**-.001411**
Stddev	.0018733	.0010383	.001436	.0051356	.0040227	.009175	.000298
%RSD	816.5207	13.81706	2238.585	1313.984	163.6609	218.6776	21.10243
#1	-.000622	.0084937	-.001097	-.004621	.0009757	-.014600	-.001541
#2	.002377	.0064258	-.000671	.005642	.0070114	.002739	-.001070
#3	-.001067	.0076247	.001575	.000151	-.000613	-.000727	-.001622

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000009**	**.0000374**	**-.005444**	**.0002125**	**.0000548**	**.0002214**	**-.014089**
Stddev	.000068	.0000796	.003866	.0002055	.0003312	.0001305	.002849
%RSD	794.7171	212.9086	71.00903	96.67011	604.3125	58.92480	20.21913
#1	-.000084	.0001195	-.005978	.0000412	-.000324	.0002495	-.014644
#2	.000012	-.000039	-.009016	.0004403	.000202	.0000792	-.011004
#3	.000046	.000032	-.001339	.0001561	.000287	.0003356	-.016620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000501**	**.0129944**	**.0000762**	**-.001371**	**.0320758**	**.0017296**	**-.000195**
Stddev	.000615	.0008231	.0003496	.000484	.0220059	.0017429	.000345
%RSD	122.6021	6.334485	458.5193	35.31329	68.60597	100.7655	177.1837
#1	.000201	.0134274	.0002656	-.001183	.0068056	.0007944	-.000061
#2	-.000944	.0135107	.0002903	-.001010	.0470178	.0037405	-.000587
#3	-.000761	.0120451	-.000327	-.001922	.0424040	.0006540	.000064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0419676**	**.0033798**	**-.000177**	**-.016632**	**.0006517**	**.0029793**	**.0003081**
Stddev	.0303666	.0006676	.000185	.000878	.0016206	.0101913	.0002806
%RSD	72.35729	19.75284	104.3245	5.279346	248.6706	342.0695	91.07535
#1	.0097219	.0034093	-.000239	-.017633	.0015120	-.001381	.0000354
#2	.0461618	.0026980	.000031	-.016267	-.001218	-.004306	.0005960
#3	.0700191	.0040322	-.000323	-.015994	.001661	.014625	.0002930

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB09 Acquired: 12/9/2025 20:41:15 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.010101	-.001727	.0000992
Stddev	.004633	.000520	.0001774
%RSD	45.86925	30.08332	178.8507
#1	-.015121	-.001405	.0003005
#2	-.005988	-.002326	.0000316
#3	-.009195	-.001450	-.000034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.082	59189.82	7863.671	2248.660	4258.991
Stddev	25.898	123.93	166.082	5.262	35.367
%RSD	.8589591	.2093764	2.112012	.2339846	.8304139
#1	2985.314	59220.72	8053.207	2242.651	4218.187
#2	3027.496	59295.38	7794.202	2252.438	4277.930
#3	3032.437	59053.37	7743.603	2250.891	4280.855

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-04 Acquired: 12/9/2025 20:45:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0018124**	**.0010937**	**.1840146**	**.0108903**	**.0241852**	**.0286494**	**.0357961**
Stddev	.0020113	.0021645	.0014579	.0023565	.0011856	.0068207	.0004905
%RSD	110.9733	197.9123	.7922512	21.63838	4.902017	23.80744	1.370293
#1	.0038692	.0000444	.1831244	.0093391	.0238057	.0215603	.0353440
#2	-.000150	.0035829	.1832223	.0097299	.0255141	.0292223	.0357266
#3	.001718	-.000346	.1856970	.0136020	.0232359	.0351655	.0363176

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000096**	**.0009711**	**26.97800**	**.0015036**	**-.000141**	**.0072965**	**.5049157**
Stddev	.000026	.0000583	.47944	.0004301	.000319	.0003808	.0121614
%RSD	27.00208	6.000376	1.777147	28.60184	226.5017	5.219033	2.408605
#1	-.000066	.0010171	26.46472	.0019930	.000029	.0076388	.4920361
#2	-.000110	.0009056	27.05499	.0013322	-.000509	.0073645	.5162018
#3	-.000113	.0009907	27.41428	.0011857	.000058	.0068863	.5065093

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184762**	**2.632219**	**.0036716**	**-.000984**	**.7974940**	**.0017909**	**.0250955**
Stddev	.0003175	.053636	.0005735	.000137	.0061455	.0014016	.0004815
%RSD	1.718631	2.037682	15.62041	13.94217	.7706055	78.26130	1.918848
#1	.0181202	2.578706	.0041148	-.000995	.8040855	.0007357	.0247065
#2	.0187301	2.631975	.0038761	-.000841	.7919220	.0033813	.0249460
#3	.0185784	2.685978	.0030239	-.001114	.7964744	.0012558	.0256341

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.748300**	**.0108828**	**.0022568**	**-.021586**	**-.000531**	**.3154336**	**.0020154**
Stddev	.010052	.0002854	.0001153	.000764	.001454	.0056835	.0001799
%RSD	.5749692	2.622034	5.110545	3.539388	273.7193	1.801813	8.928147
#1	1.745411	.0109754	.0023555	-.022084	-.001537	.3150787	.0022035
#2	1.759480	.0105627	.0021300	-.020706	.001136	.3212863	.0018449
#3	1.740008	.0111104	.0022848	-.021968	-.001193	.3099359	.0019977

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-04 Acquired: 12/9/2025 20:45:35 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.200711**	**-.007536**	**.1634432**
Stddev	.033163	.000899	.0024938
%RSD	.6376580	11.93195	1.525779
#1	5.163068	-.007095	.1607908
#2	5.213449	-.008570	.1637985
#3	5.225617	-.006942	.1657403

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2910.039**	**57033.98**	**7882.301**	**2112.318**	**4113.725**
Stddev	5.004	329.72	70.544	10.632	5.572
%RSD	.1719659	.5781086	.8949676	.5033221	.1354608
#1	2915.464	56958.03	7959.458	2116.804	4119.205
#2	2909.048	56748.87	7866.339	2100.178	4113.904
#3	2905.604	57395.05	7821.105	2119.971	4108.064

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-05 Acquired: 12/9/2025 20:49:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.000317**	**.0050053**	**.0619799**	**.0124560**	**.0442400**	**.0421730**
Stddev	.002869	.0057753	.0008626	.0035617	.0012720	.0105472
%RSD	904.5800	115.3855	1.391728	28.59476	2.875283	25.00926
#1	-.002865	.0099262	.0624482	.0121697	.0454389	.0452354
#2	-.000877	-.001353	.0609845	.0090460	.0443755	.0508501
#3	.002791	.006443	.0625071	.0161522	.0429057	.0304335

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0662329**	**-.000092**	**.0368805**	**100.2585**	**.0014920**	**.0000047**
Stddev	.0010211	.000080	.0001966	1.0086	.0003497	.0001866
%RSD	1.541678	87.08599	.5331411	1.006019	23.43714	4007.424
#1	.0654411	-.000047	.0370997	99.1328	.0018958	-.000112
#2	.0673854	-.000185	.0368225	100.5625	.0012953	-.000094
#3	.0658723	-.000044	.0367195	101.0801	.0012850	.000220

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055296**	**.0141392**	**.0780644**	**19.18370**	**.0047391**	**-.001399**
Stddev	.0006015	.0099259	.0006043	.17959	.0002053	.000857
%RSD	10.87747	70.20168	.7741308	.9361727	4.332462	61.30643
#1	.0060552	.0183669	.0774084	18.98646	.0046222	-.001197
#2	.0056597	.0027993	.0785985	19.22684	.0049762	-.000660
#3	.0048736	.0212514	.0781863	19.33779	.0046190	-.002339

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.50293**	**-.000821**	**.0960487**	**3.705458**	**.0405694**	**.0031222**
Stddev	.14943	.001373	.0008368	.021188	.0001320	.0000805
%RSD	.7288402	167.2889	.8712449	.5718070	.3252875	2.577447
#1	20.33117	-.002368	.0958119	3.691948	.0405153	.0031523
#2	20.60309	-.000349	.0969784	3.694549	.0407198	.0030311
#3	20.57454	.000254	.0953558	3.729878	.0404731	.0031834

Sample Name: Q3766-05 Acquired: 12/9/2025 20:49:52 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.026406	-.002601	6.893617	.0019000	F 36.89042	-.016564
Stddev	.000797	.000439	.051569	.0001752	.06409	.000415
%RSD	3.017448	16.89070	.7480627	9.218578	.1737188	2.506327
#1	-.027296	-.002144	6.842647	.0020924	36.88947	-.016109
#2	-.025758	-.002638	6.892440	.0017500	36.82681	-.016660
#3	-.026165	-.003020	6.945764	.0018575	36.95497	-.016923

Elem	Sr4077
Units	ppm
Avg	.3416524
Stddev	.0034829
%RSD	1.019435
#1	.3376315
#2	.3435915
#3	.3437342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2842.606	56366.13	7211.777	2099.368	3910.909
Stddev	16.225	206.48	32.230	12.650	31.608
%RSD	.5707957	.3663248	.4469106	.6025853	.8082115
#1	2824.609	56164.88	7244.982	2085.110	3874.927
#2	2856.114	56577.48	7209.730	2109.245	3934.195
#3	2847.096	56356.02	7180.619	2103.751	3923.606

Sample Name: Q3766-06 Acquired: 12/9/2025 20:54:06 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.002301**	**.0078079**	**.0859289**	**.0500935**	**.1038103**	**.0421367**
Stddev	.004803	.0052779	.0012039	.0030467	.0037827	.0025408
%RSD	208.7438	67.59701	1.401062	6.081933	3.643863	6.029770
#1	.000398	.0136353	.0862374	.0481315	.1006506	.0404682
#2	.000546	.0033493	.0846008	.0536034	.1027784	.0450608
#3	-.007847	.0064389	.0869486	.0485457	.1080018	.0408812

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0557049**	**-.000087**	**.0903896**	**101.4796**	**.0099412**	**.0001027**
Stddev	.0018363	.000047	.0013691	2.6913	.0001758	.0001190
%RSD	3.296474	54.16364	1.514714	2.652077	1.768650	115.8646
#1	.0541447	-.000043	.0907437	98.7296	.0101255	.0002051
#2	.0552415	-.000136	.0888783	101.6011	.0099229	.0001307
#3	.0577285	-.000081	.0915470	104.1081	.0097752	-.000028

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100802**	**.0540797**	**.0340038**	**19.85779**	**.0125696**	**-.001276**
Stddev	.0002971	.0047697	.0007659	.60268	.0001431	.000378
%RSD	2.947407	8.819799	2.252305	3.034956	1.138282	29.61778
#1	.0101668	.0561919	.0332132	19.24494	.0126411	-.001469
#2	.0097494	.0486186	.0340560	19.87867	.0124048	-.000841
#3	.0103244	.0574286	.0347423	20.44975	.0126628	-.001519

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.95733**	**.0019275**	**.1331480**	**4.027823**	**.0487317**	**.0041275**
Stddev	.07642	.0004470	.0005032	.031027	.0009021	.0001172
%RSD	.6391283	23.19260	.3779046	.7703062	1.851202	2.839825
#1	11.86911	.0015245	.1334753	4.045816	.0476915	.0042309
#2	11.99958	.0024084	.1334001	3.991996	.0492042	.0041515
#3	12.00330	.0018498	.1325686	4.045656	.0492994	.0040002

Sample Name: Q3766-06 Acquired: 12/9/2025 20:54:06 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.025664	-.002694	6.554135	.0013412	F 43.99640	-.014263
Stddev	.000203	.000797	.054227	.0001507	.73351	.000933
%RSD	.7926042	29.59547	.8273651	11.23256	1.667216	6.539732
#1	-.025840	-.001776	6.494093	.0013543	44.55519	-.014057
#2	-.025441	-.003216	6.568770	.0011844	43.16577	-.015282
#3	-.025710	-.003090	6.599542	.0014849	44.26825	-.013451

Elem	Sr4077
Units	ppm
Avg	.1988974
Stddev	.0046887
%RSD	2.357331
#1	.1942540
#2	.1988083
#3	.2036300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.598	55914.56	7583.907	2078.254	3975.603
Stddev	36.125	195.80	120.893	14.130	49.800
%RSD	1.254084	.3501829	1.594077	.6799100	1.252640
#1	2867.438	55716.58	7693.411	2064.793	3957.835
#2	2921.458	56108.12	7604.132	2092.970	4031.850
#3	2852.898	55918.98	7454.176	2076.999	3937.124

Sample Name: Q3766-07 Acquired: 12/9/2025 20:58:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.003285**	**.0078020**	**.0036629**	**.0014460**	**.0124893**	**.0391939**
Stddev	.003219	.0098798	.0018018	.0056251	.0017541	.0033583
%RSD	97.99788	126.6310	49.19081	389.0134	14.04497	8.568421
#1	-.006802	-.000002	.0055975	.0000333	.0108846	.0426183
#2	-.000484	.004498	.0020327	-.003338	.0143619	.0359058
#3	-.002569	.018910	.0033584	.007643	.0122213	.0390577

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0301587**	**-.000140**	**.0000638**	**120.1914**	**.0032140**	**-.000367**
Stddev	.0003932	.000049	.0000271	2.0282	.0004624	.000241
%RSD	1.303745	34.97201	42.41835	1.687462	14.38807	65.67156
#1	.0299953	-.000092	.0000401	117.9078	.0026801	-.000643
#2	.0298735	-.000190	.0000580	120.8830	.0034716	-.000195
#3	.0306072	-.000137	.0000932	121.7833	.0034902	-.000264

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008549**	**.0167345**	**.0133981**	**23.52363**	**.0016655**	**-.001055**
Stddev	.0004216	.0056851	.0002433	.36464	.0000772	.000125
%RSD	49.31269	33.97238	1.815688	1.550109	4.637466	11.80702
#1	.0004454	.0123222	.0131181	23.10262	.0016679	-.000985
#2	.0008317	.0231501	.0135576	23.72924	.0015871	-.000980
#3	.0012876	.0147312	.0135187	23.73904	.0017415	-.001198

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.54634**	**-.000666**	**.0212504**	**7.946646**	**.0658628**	**.0016090**
Stddev	.13284	.002213	.0002941	.057375	.0007271	.0003458
%RSD	.6796229	332.1565	1.383865	.7220084	1.104008	21.49424
#1	19.42864	-.000471	.0209576	7.891275	.0661267	.0017818
#2	19.52000	-.002971	.0215457	7.942826	.0664211	.0018344
#3	19.69038	.001443	.0212479	8.005835	.0650406	.0012108

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-07 Acquired: 12/9/2025 20:58:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.024764**	**-.005602**	F **22.46808**	**.0018284**	F **41.73363**	**-.015471**
Stddev	.000768	.000883	.16760	.0001232	.35685	.000620
%RSD	3.100311	15.76145	.7459284	6.737827	.8550639	4.005309
#1	-.025371	-.005150	22.29485	.0018866	41.97735	-.015946
#2	-.023901	-.006620	22.48000	.0016869	41.89950	-.014770
#3	-.025020	-.005037	22.62941	.0019118	41.32403	-.015698

Elem	Sr4077
Units	ppm
Avg	**.3098497**
Stddev	.0054851
%RSD	1.770244
#1	.3037833
#2	.3113065
#3	.3144594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2856.948**	**56769.33**	**7603.488**	**2115.506**	**3909.856**
Stddev	3.931	134.54	73.102	7.412	8.163
%RSD	.1376013	.2370017	.9614268	.3503520	.2087892
#1	2852.447	56622.52	7685.924	2106.970	3902.504
#2	2859.710	56798.74	7546.548	2120.309	3918.641
#3	2858.687	56886.75	7577.994	2119.239	3908.423

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-08 Acquired: 12/9/2025 21:02:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0133510**	**.0051488**	**9.983367**	**.0006892**	**.0216614**	**.1184900**
Stddev	.0004400	.0073384	.020820	.0055476	.0017434	.0067235
%RSD	3.295805	142.5272	.2085459	804.9498	8.048335	5.674348
#1	.0129773	.0036394	9.999433	.0051668	.0203564	.1121524
#2	.0138360	.0131246	9.990822	-.005517	.0236413	.1255424
#3	.0132396	-.001318	9.959846	.002418	.0209863	.1177752

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1149250**	**-.000111**	**.0694268**	**23.17869**	**.0029211**	**.0021233**
Stddev	.0006987	.000088	.0001943	.07579	.0002934	.0000219
%RSD	.6079765	79.14622	.2798738	.3269769	10.04301	1.030413
#1	.1141493	-.000045	.0696380	23.10149	.0026301	.0021140
#2	.1151210	-.000211	.0693866	23.18161	.0029164	.0021483
#3	.1155049	-.000078	.0692557	23.25298	.0032168	.0021076

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0525377**	**2.824308**	**.3019765**	**1.070490**	**.0520459**	**-.000898**
Stddev	.0000728	.010061	.0021670	.013990	.0003222	.000322
%RSD	.1385474	.3562330	.7175996	1.306909	.6190731	35.90780
#1	.0524632	2.816645	.2995713	1.060223	.0524180	-.000749
#2	.0525413	2.835702	.3025816	1.064822	.0518609	-.000677
#3	.0526087	2.820579	.3037766	1.086425	.0518590	-.001268

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.735193**	**.0006047**	**.4709574**	**4.796423**	**.0372792**	**.0004255**
Stddev	.007035	.0015386	.0037639	.035281	.0008709	.0006573
%RSD	.2572093	254.4226	.7991904	.7355714	2.336173	154.5007
#1	2.728236	.0003411	.4689715	4.798224	.0365178	.0007297
#2	2.735039	-.000785	.4686023	4.760276	.0370911	-.000329
#3	2.742304	.002258	.4752982	4.830769	.0382288	.000876

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-08 Acquired: 12/9/2025 21:02:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.024329	-.000789	2.660753	.0059572	F 22.44078	-.001121
Stddev	.000479	.000605	.023675	.0001783	.06960	.001196
%RSD	1.970853	76.71917	.8897735	2.993698	.3101659	106.6972
#1	-.024749	-.000880	2.634354	.0057624	22.47490	-.001844
#2	-.024431	-.001344	2.680103	.0061125	22.36070	-.001778
#3	-.023807	-.000143	2.667801	.0059966	22.48673	.000260

Elem	Sr4077
Units	ppm
Avg	.1109464
Stddev	.0001841
%RSD	.1659042
#1	.1111059
#2	.1109882
#3	.1107450

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.421	58738.07	7847.923	2205.450	4222.867
Stddev	17.358	220.30	23.456	9.694	20.192
%RSD	.5806589	.3750608	.2988797	.4395294	.4781676
#1	2970.315	58780.49	7843.755	2200.856	4202.122
#2	2993.725	58934.07	7873.183	2216.587	4224.023
#3	3004.222	58499.64	7826.830	2198.908	4242.457

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09 Acquired: 12/9/2025 21:06:48 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**-.001235**	**.0078990**	**1.140997**	**.0222499**	**.0206659**	**.0215607**	**.0327560**
Stddev	.001714	.0018341	.000417	.0012464	.0024414	.0017551	.0009152
%RSD	138.7929	23.21982	.0365080	5.601703	11.81363	8.140340	2.793906
#1	-.000504	.0068170	1.140730	.0236797	.0183977	.0201053	.0317933
#2	-.000008	.0100168	1.141477	.0216773	.0203502	.0210670	.0328599
#3	-.003194	.0068633	1.140784	.0213927	.0232497	.0235098	.0336148

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000108**	**.5368900**	**12.61878**	**.0011803**	**.0014448**	**.0342580**	**.3751467**
Stddev	.000038	.0017378	.29372	.0000606	.0000863	.0002696	.0104634
%RSD	35.07296	.3236722	2.327658	5.135058	5.976113	.7870323	2.789137
#1	-.000140	.5387606	12.28401	.0011177	.0014078	.0345485	.3640035
#2	-.000066	.5365835	12.83326	.0012387	.0015434	.0342097	.3847623
#3	-.000118	.5353258	12.73908	.0011847	.0013831	.0340157	.3766743

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1011488**	**2.635795**	**.0349955**	**-.001135**	**2.731161**	**-.000732**	**.7821645**
Stddev	.0024231	.082252	.0004282	.000286	.058875	.002244	.0118241
%RSD	2.395559	3.120592	1.223549	25.15791	2.155687	306.4423	1.511718
#1	.0983528	2.543915	.0348613	-.001464	2.665968	.001509	.7707158
#2	.1026386	2.702567	.0346504	-.000956	2.747063	-.002978	.7814462
#3	.1024548	2.660905	.0354747	-.000985	2.780452	-.000727	.7943313

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.296765**	**.0249939**	**.0010260**	**-.021165**	**-.000425**	**1.567362**	**.0016382**
Stddev	.082540	.0005594	.0002745	.000649	.000282	.038171	.0000859
%RSD	2.503667	2.238118	26.75755	3.064264	66.39064	2.435361	5.241389
#1	3.230363	.0249474	.0013341	-.021541	-.000626	1.532759	.0017127
#2	3.270755	.0255750	.0008072	-.020416	-.000103	1.561019	.0016577
#3	3.389177	.0244591	.0009369	-.021538	-.000546	1.608307	.0015443

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09 Acquired: 12/9/2025 21:06:48 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.818496	.0090776	.0756272
Stddev	.026152	.0011017	.0014174
%RSD	.3835471	12.13589	1.874169
#1	6.844078	.0096348	.0739991
#2	6.819601	.0097894	.0765855
#3	6.791809	.0078087	.0762971

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.108	59021.40	8004.509	2209.155	4227.386
Stddev	10.379	942.68	136.406	26.870	15.812
%RSD	.3481639	1.597182	1.704115	1.216282	.3740476
#1	2970.620	59938.78	8159.041	2231.563	4210.037
#2	2981.330	59070.11	7900.851	2216.535	4231.132
#3	2991.375	58055.31	7953.635	2179.367	4240.990

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09DUP Acquired: 12/9/2025 21:11:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0000568**	**.0052248**	**1.131024**	**.0232613**	**.0196789**	**.0068920**	**.0328440**
Stddev	.0036309	.0020404	.004235	.0050624	.0002985	.0079948	.0005701
%RSD	6394.792	39.05197	.3744431	21.76335	1.516906	116.0018	1.735822
#1	.0037797	.0029275	1.129254	.0266428	.0196805	.0042449	.0323588
#2	-.000135	.0059204	1.127961	.0174411	.0199766	.0005564	.0327012
#3	-.003474	.0068263	1.135857	.0256999	.0193796	.0158746	.0334719

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**.5312431**	**12.59699**	**.0013647**	**.0016058**	**.0339468**	**.3712901**
Stddev	.000048	.0017575	.22203	.0001432	.0002255	.0003885	.0080323
%RSD	56.68634	.3308274	1.762602	10.49553	14.04135	1.144597	2.163346
#1	-.000029	.5302885	12.34570	.0012121	.0015665	.0335069	.3644801
#2	-.000115	.5301696	12.67857	.0014961	.0014026	.0340902	.3801481
#3	-.000109	.5332714	12.76668	.0013861	.0018484	.0342433	.3692420

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1009380**	**2.674036**	**.0346483**	**-.001210**	**2.674569**	**.0020599**	**.7738993**
Stddev	.0012194	.082371	.0003408	.000387	.037923	.0012167	.0014222
%RSD	1.208041	3.080408	.9835223	31.98882	1.417929	59.06791	.1837732
#1	.0995687	2.582997	.0348178	-.001258	2.643503	.0034373	.7722594
#2	.1013386	2.695702	.0342561	-.000801	2.716830	.0011313	.7747942
#3	.1019066	2.743408	.0348712	-.001571	2.663374	.0016110	.7746444

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.214997**	**.0257197**	**.0007510**	**-.021634**	**-.000596**	**1.532392**	**.0015900**
Stddev	.075056	.0008334	.0000333	.000533	.000348	.029415	.0002332
%RSD	2.334571	3.240194	4.432372	2.461847	58.49328	1.919515	14.66496
#1	3.192627	.0249095	.0007138	-.021967	-.000275	1.511416	.0018018
#2	3.298695	.0256751	.0007779	-.021914	-.000545	1.566015	.0016282
#3	3.153669	.0265744	.0007615	-.021019	-.000967	1.519745	.0013402

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09DUP Acquired: 12/9/2025 21:11:02 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**6.722953**	**.0091000**	**.0753461**
Stddev	.084449	.0008705	.0009443
%RSD	1.256127	9.565407	1.253233
#1	6.651214	.0084421	.0742672
#2	6.701622	.0087709	.0757492
#3	6.816021	.0100870	.0760219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3001.875**	**58945.53**	**7776.209**	**2209.794**	**4277.438**
Stddev	7.109	51.89	101.392	7.798	7.184
%RSD	.2368353	.0880282	1.303872	.3528689	.1679435
#1	3000.157	59003.94	7862.383	2215.061	4276.476
#2	3009.685	58904.76	7801.759	2200.836	4285.054
#3	2995.781	58927.90	7664.487	2213.485	4270.783

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09LX5 Acquired: 12/9/2025 21:15:16 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0007047**	**.0086597**	**.2344953**	**.0090820**	**.0036287**	**.0028331**	**.0051549**
Stddev	.0007615	.0024487	.0019994	.0006148	.0007658	.0078834	.0002291
%RSD	108.0634	28.27665	.8526451	6.769367	21.10465	278.2599	4.444659
#1	-.000171	.0100493	.2355746	.0083903	.0027486	.0119355	.0048911
#2	.001215	.0058324	.2357232	.0095660	.0041437	-.001799	.0052690
#3	.001070	.0100974	.2321882	.0092897	.0039936	-.001637	.0053045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000090**	**.1118418**	**2.584309**	**.0002227**	**.0001658**	**.0072066**	**.0677553**
Stddev	.000066	.0002252	.026012	.0004394	.0001533	.0005590	.0028990
%RSD	73.68065	.2013074	1.006545	197.3033	92.48118	7.756078	4.278672
#1	-.000161	.1118197	2.561721	-.000194	.0000580	.0067759	.0644854
#2	-.000029	.1120772	2.578457	.000681	.0003413	.0070057	.0700110
#3	-.000080	.1116285	2.612748	.000181	.0000980	.0078382	.0687694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194747**	**.5310416**	**.0072469**	**-.001239**	**.5068358**	**.0002919**	**.1594997**
Stddev	.0006590	.0394812	.0001028	.000213	.0175786	.0019746	.0002311
%RSD	3.384097	7.434679	1.418808	17.16203	3.468300	676.4837	.1448865
#1	.0195259	.5581740	.0072335	-.001275	.4896545	.0007100	.1592489
#2	.0201067	.4857478	.0073558	-.001431	.5060663	-.001858	.1595463
#3	.0187916	.5492030	.0071515	-.001011	.5247864	.002024	.1597040

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5801981**	**.0029633**	**.0002412**	**-.018171**	**.0000267**	**.2939504**	**.0006283**
Stddev	.0045651	.0002541	.0000539	.000300	.0010980	.0059272	.0000520
%RSD	.7868253	8.573463	22.36202	1.649795	4107.902	2.016391	8.283136
#1	.5842178	.0026773	.0001815	-.018194	-.001087	.2879368	.0006622
#2	.5752349	.0030500	.0002556	-.018459	.000060	.2997872	.0006544
#3	.5811415	.0031627	.0002865	-.017861	.001108	.2941271	.0005684

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09LX5 Acquired: 12/9/2025 21:15:16 Type: Unk
Method: 6010-200.7 NEW(v394) 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	1.435056	.0009549	.0152721
Stddev	.005387	.0010954	.0000645
%RSD	.3753562	114.7045	.4226352
#1	1.430684	-.000029	.0152046
#2	1.441073	.000758	.0152786
#3	1.433412	.002135	.0153332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.503	58855.45	7504.331	2232.945	4269.763
Stddev	10.128	153.21	66.001	7.357	7.201
%RSD	.3334481	.2603223	.8795031	.3294818	.1686465
#1	3026.148	58686.31	7578.858	2224.456	4262.482
#2	3045.607	58895.10	7480.868	2236.912	4269.927
#3	3040.752	58984.95	7453.268	2237.468	4276.881

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-10 Acquired: 12/9/2025 21:19:31 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7319682**	**1.712393**	**1.916305**	**1.815475**	**.7709787**	**1.768753**	**.2054452**
Stddev	.0085734	.074780	.014708	.025546	.0078673	.022699	.0027470
%RSD	1.171284	4.366999	.7675027	1.407116	1.020427	1.283359	1.337077
#1	.7410723	1.786272	1.933242	1.844915	.7795344	1.744371	.2023709
#2	.7307836	1.714163	1.908927	1.802354	.7640562	1.789276	.2063063
#3	.7240487	1.636743	1.906748	1.799156	.7693455	1.772611	.2076585

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1570044**	**.6793041**	**12.90245**	**.3718809**	**.1764028**	**.3093175**	**3.192821**
Stddev	.0005687	.0059126	.12116	.0043945	.0017703	.0042831	.037113
%RSD	.3622201	.8703948	.9390753	1.181699	1.003566	1.384676	1.162384
#1	.1565041	.6861043	12.76262	.3722913	.1784338	.3142544	3.173572
#2	.1576229	.6753777	12.97657	.3760558	.1751864	.3065954	3.235604
#3	.1568863	.6764302	12.96814	.3672956	.1755882	.3071026	3.169288

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2700044**	**4.261873**	**.4660802**	**.0332902**	**5.257768**	**.2658811**	**.9170769**
Stddev	.0028524	.053975	.0037052	.0007701	.065298	.0026980	.0100376
%RSD	1.056432	1.266457	.7949791	2.313330	1.241925	1.014731	1.094521
#1	.2669436	4.215436	.4703394	.0337447	5.192668	.2630401	.9152800
#2	.2704813	4.321091	.4643018	.0337249	5.323262	.2684087	.9278916
#3	.2725883	4.249090	.4635995	.0324011	5.257374	.2661945	.9080592

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.23033**	**.2508168**	**.4023340**	**.5986565**	**.1748119**	**2.290411**	**.5247370**
Stddev	.14730	.0024634	.0037670	.0060270	.0015257	.042791	.0041340
%RSD	1.204350	.9821373	.9362837	1.006758	.8727759	1.868248	.7878292
#1	12.10704	.2479881	.4066802	.6056141	.1734485	2.260882	.5293756
#2	12.39345	.2524896	.4000092	.5950398	.1745273	2.339483	.5233940
#3	12.19050	.2519727	.4003125	.5953157	.1764599	2.270866	.5214415

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-10 Acquired: 12/9/2025 21:19:31 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.594555	.1832750	.2454199
Stddev	.097714	.0031227	.0022961
%RSD	1.481739	1.703840	.9355705
#1	6.707379	.1798099	.2428777
#2	6.537104	.1858714	.2473428
#3	6.539182	.1841437	.2460392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2976.769	59616.10	7994.069	2207.742	4176.872
Stddev	28.289	717.81	11.291	27.367	34.015
%RSD	.9503243	1.204047	.1412387	1.239599	.8143611
#1	2944.127	59496.00	8001.196	2201.298	4137.600
#2	2992.024	58965.92	7981.052	2184.171	4197.055
#3	2994.156	60386.38	7999.961	2237.755	4195.961

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-11 Acquired: 12/9/2025 21:23:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7678292**	**1.698868**	**1.984165**	**1.908703**	**.8063985**	**1.919397**	**.2174306**
Stddev	.0044925	.031549	.005586	.002219	.0023539	.034397	.0041891
%RSD	.5850878	1.857064	.2815440	.1162363	.2918989	1.792067	1.926620
#1	.7680161	1.734451	1.979021	1.909469	.8045020	1.882275	.2126158
#2	.7632463	1.687836	1.990108	1.910437	.8056606	1.925726	.2194362
#3	.7722254	1.674316	1.983366	1.906203	.8090329	1.950190	.2202398

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1710738**	**.7008628**	**13.55678**	**.3881022**	**.1853583**	**.3225593**	**3.317858**
Stddev	.0018193	.0020811	.23410	.0022634	.0005977	.0007067	.034502
%RSD	1.063461	.2969345	1.726780	.5831961	.3224710	.2190919	1.039894
#1	.1690447	.6993297	13.29999	.3895723	.1849850	.3217914	3.321224
#2	.1716171	.7032319	13.61208	.3854957	.1860478	.3227042	3.281797
#3	.1725595	.7000267	13.75828	.3892385	.1850422	.3231824	3.350555

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2863160**	**4.500895**	**.4874908**	**.0422874**	**5.440206**	**.2868057**	**.9494234**
Stddev	.0038361	.076242	.0018102	.0007055	.019491	.0063791	.0121532
%RSD	1.339814	1.693930	.3713283	1.668426	.3582783	2.224181	1.280059
#1	.2818962	4.412859	.4858368	.0418084	5.454776	.2820533	.9567400
#2	.2882718	4.545146	.4894246	.0419563	5.418065	.2843080	.9353945
#3	.2887801	4.544680	.4872110	.0430976	5.447776	.2940557	.9561358

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.74354**	**.2710949**	**.4225590**	**.6291243**	**.1856854**	**2.378686**	**.5497659**
Stddev	.05400	.0028972	.0004716	.0013924	.0037256	.013227	.0015099
%RSD	.4237541	1.068718	.1116058	.2213298	2.006403	.5560540	.2746521
#1	12.72727	.2678033	.4230468	.6301040	.1817953	2.379450	.5499646
#2	12.69953	.2722226	.4221055	.6275304	.1860397	2.365095	.5511668
#3	12.80380	.2732586	.4225248	.6297385	.1892212	2.391515	.5481665

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-11 Acquired: 12/9/2025 21:23:35 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**6.735502**	**.1990391**	**.2599610**
Stddev	.011467	.0029366	.0034566
%RSD	.1702425	1.475392	1.329672
#1	6.735289	.1957005	.2559885
#2	6.747074	.2001946	.2622831
#3	6.724143	.2012222	.2616113

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2945.312**	**57966.32**	**7619.384**	**2164.857**	**4132.777**
Stddev	6.545	400.34	86.931	20.018	13.108
%RSD	.2222204	.6906362	1.140923	.9246828	.3171733
#1	2938.984	57672.35	7718.719	2149.161	4130.666
#2	2944.898	58422.26	7582.226	2187.400	4120.852
#3	2952.055	57804.35	7557.208	2158.011	4146.812

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV10 Acquired: 12/9/2025 21:27:39 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.887375**	**5.231147**	**4.756905**	**4.990348**	**4.964468**	**9.385696**
Stddev	.018040	.165664	.032297	.021095	.013001	.059998
%RSD	.3691147	3.166885	.6789523	.4227068	.2618781	.6392543
#1	4.872952	5.370041	4.721502	4.981012	4.949584	9.371145
#2	4.881569	5.047787	4.784759	4.975534	4.970220	9.334312
#3	4.907603	5.275612	4.764454	5.014500	4.973601	9.451632

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.456749**	**.2392428**	**2.359107**	**23.06859**	**.9477082**	**2.381960**
Stddev	.114523	.0005341	.014050	.07235	.0035577	.015956
%RSD	1.211020	.2232334	.5955722	.3136311	.3753969	.6698850
#1	9.324780	.2393573	2.344289	23.02459	.9436342	2.365539
#2	9.515411	.2386608	2.372237	23.02910	.9492882	2.397407
#3	9.530056	.2397103	2.360796	23.15210	.9502022	2.382933

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.229176**	**4.952136**	**2.280629**	**22.85276**	**2.371827**	**1.192330**
Stddev	.007012	.035718	.013012	.08509	.015300	.005916
%RSD	.5704781	.7212660	.5705468	.3723434	.6450902	.4961908
#1	1.221114	4.912402	2.275067	22.82012	2.355455	1.186134
#2	1.233853	4.962429	2.271324	22.78882	2.385764	1.192935
#3	1.232562	4.981578	2.295498	22.94934	2.374261	1.197920

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.40321**	**2.333827**	**2.430549**	**24.58038**	**4.653480**	**4.887002**
Stddev	.15534	.016949	.012811	.17311	.009638	.010149
%RSD	.6365486	.7262531	.5270934	.7042748	.2071138	.2076767
#1	24.23838	2.325888	2.415923	24.41716	4.656493	4.875333
#2	24.42436	2.322304	2.439784	24.56204	4.642695	4.893782
#3	24.54688	2.353289	2.435940	24.76193	4.661251	4.891890

Sample Name: CCV10 Acquired: 12/9/2025 21:27:39 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.750540**	**4.635953**	**5.162267**	**4.825642**	**4.778298**	F **4.483749**
Stddev	.010566	.016379	.062990	.022463	.029196	.016551
%RSD	.2224112	.3533073	1.220196	.4654922	.6110111	.3691327
#1	4.743758	4.626578	5.098869	4.800334	4.770531	4.475871
#2	4.762714	4.626416	5.163090	4.833371	4.753771	4.472608
#3	4.745148	4.654866	5.224841	4.843219	4.810592	4.502767

Elem	Sr4077
Units	ppm
Avg	**4.632290**
Stddev	.057209
%RSD	1.235002
#1	4.595365
#2	4.603317
#3	4.698190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2912.326**	**58018.55**	**7889.080**	**2164.825**	**3853.059**
Stddev	11.565	46.81	21.362	8.258	20.762
%RSD	.3971157	.0806804	.2707813	.3814712	.5388361
#1	2920.654	58065.67	7864.918	2171.271	3865.710
#2	2899.121	57972.05	7905.458	2155.517	3829.098
#3	2917.204	58017.93	7896.865	2167.688	3864.369

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB10 Acquired: 12/9/2025 21:31:51 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009502**	**.0088062**	**-.000314**	**.0038239**	**.0014919**	**-.001491**	**-.002021**
Stddev	.0009233	.0004231	.001518	.0012274	.0027107	.005685	.000749
%RSD	97.16535	4.804879	482.7386	32.09775	181.6908	381.2446	37.03937
#1	.0015978	.0087996	.001119	.0037459	-.001456	-.007360	-.002879
#2	-.000107	.0092325	-.001904	.0050883	.002056	.003991	-.001495
#3	.001360	.0083864	-.000158	.0026373	.003876	-.001105	-.001691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000013**	**.0000194**	**.0051797**	**-.000012**	**-.000231**	**.0002469**	**-.005205**
Stddev	.0000645	.0000564	.0077749	.000169	.000009	.0003643	.004101
%RSD	4918.388	290.0135	150.1038	1417.675	3.890475	147.5520	78.79107
#1	.0000339	.0000354	.0139448	-.000197	-.000240	.0005619	-.001999
#2	.0000430	-.000043	.0024791	.000134	-.000222	-.000152	-.003790
#3	-.000073	.000066	-.000885	.000027	-.000232	.000331	-.009827

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001007**	**-.016739**	**.0000663**	**-.001012**	**.0211938**	**.0023312**	**-.000394**
Stddev	.000330	.026195	.0003257	.000622	.0204815	.0011952	.000169
%RSD	32.77673	156.4854	491.5026	61.39309	96.63917	51.27115	42.98659
#1	-.000689	-.004999	.0004350	-.000982	.0023087	.0031485	-.000589
#2	-.000983	-.046750	-.000054	-.001649	.0183072	.0009594	-.000313
#3	-.001348	.001531	-.000182	-.000407	.0429654	.0028857	-.000281

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0201503**	**.0020423**	**.0001912**	**-.016297**	**.0003918**	**.0063615**	**.0002252**
Stddev	.0219577	.0002737	.0001677	.000630	.0007900	.0114218	.0001414
%RSD	108.9694	13.39966	87.66780	3.865658	201.6622	179.5457	62.79396
#1	-.000186	.0019802	.0002925	-.016639	-.000390	.0097154	.0003871
#2	.017205	.0023416	.0002836	-.016682	.000375	-.006362	.0001258
#3	.043432	.0018050	-.000002	-.015570	.001190	.015731	.0001628

Sample Name: CCB10 Acquired: 12/9/2025 21:31:51 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009175	.0015558	.0001556
Stddev	.002646	.0014386	.0000223
%RSD	28.84215	92.46519	14.32788
#1	-.010828	.0023091	.0001548
#2	-.006123	.0024613	.0001337
#3	-.010574	-.000103	.0001783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.372	59045.52	7657.028	2244.676	4250.951
Stddev	1.463	702.64	79.223	25.346	9.480
%RSD	.0484935	1.189998	1.034648	1.129160	.2230025
#1	3017.863	59122.97	7702.670	2250.988	4244.070
#2	3018.526	59706.23	7702.865	2266.270	4261.764
#3	3015.726	58307.36	7565.549	2216.771	4247.020

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09A Acquired: 12/9/2025 21:36:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7244572**	**1.676556**	**1.978080**	**1.806455**	**.7763696**	**1.826079**	**.2096506**
Stddev	.0054018	.026056	.003690	.003936	.0005054	.034381	.0032248
%RSD	.7456326	1.554139	.1865284	.2179053	.0651005	1.882786	1.538181
#1	.7194045	1.646919	1.977058	1.803240	.7762638	1.787808	.2061394
#2	.7238163	1.686888	1.975009	1.805280	.7759254	1.836072	.2124798
#3	.7301509	1.695863	1.982173	1.810845	.7769195	1.854356	.2103328

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1676896**	**.7040400**	**13.56381**	**.3707788**	**.1776446**	**.3115295**	**3.088205**
Stddev	.0011206	.0009715	.22518	.0013336	.0001383	.0009687	.040120
%RSD	.6682594	.1379925	1.660124	.3596726	.0778235	.3109422	1.299150
#1	.1665019	.7035435	13.30619	.3712555	.1775515	.3114915	3.041882
#2	.1678386	.7034170	13.66215	.3718086	.1775789	.3105804	3.110845
#3	.1687282	.7051594	13.72308	.3692724	.1778035	.3125166	3.111889

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2784124**	**4.429683**	**.4719460**	**.0613781**	**5.385747**	**.2729316**	**.9610843**
Stddev	.0044351	.037376	.0002835	.0009442	.059543	.0022115	.0027836
%RSD	1.592992	.8437698	.0600675	1.538368	1.105570	.8102768	.2896267
#1	.2733917	4.386583	.4721484	.0613520	5.319517	.2703781	.9615727
#2	.2817971	4.449291	.4716220	.0604471	5.434849	.2742348	.9635913
#3	.2800484	4.453175	.4720676	.0623350	5.402874	.2741817	.9580889

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.26519**	**.2732571**	**.4037793**	**.6024499**	**.1801954**	**2.366073**	**.5270650**
Stddev	.17727	.0016620	.0013838	.0013512	.0035565	.037481	.0010848
%RSD	1.445316	.6082142	.3427048	.2242881	1.973678	1.584089	.2058210
#1	12.06543	.2714377	.4029957	.6009887	.1760888	2.322837	.5265310
#2	12.32638	.2736381	.4029653	.6036543	.1822698	2.386026	.5283133
#3	12.40377	.2746955	.4053771	.6027066	.1822276	2.389357	.5263508

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-09A Acquired: 12/9/2025 21:36:11 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.848906	.1943006	.2532711
Stddev	.021596	.0030833	.0045975
%RSD	.3153266	1.586863	1.815228
#1	6.826933	.1908464	.2479794
#2	6.849679	.1967747	.2555490
#3	6.870105	.1952807	.2562848

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2914.552	57289.56	7384.089	2153.581	4089.066
Stddev	2.856	221.86	49.135	12.941	5.479
%RSD	.0979772	.3872524	.6654166	.6009068	.1339832
#1	2911.256	57306.74	7440.650	2148.473	4083.969
#2	2916.114	57059.61	7351.949	2143.973	4088.369
#3	2916.285	57502.32	7359.668	2168.296	4094.860

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-12 Acquired: 12/9/2025 21:40:15 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0030851**	**.0027135**	**.0346704**	**.0087370**	**.0309117**	**.0125883**
Stddev	.0008019	.0008510	.0002447	.0054504	.0023960	.0045559
%RSD	25.99374	31.36321	.7057934	62.38335	7.751101	36.19199
#1	.0021615	.0036406	.0347986	.0028264	.0323353	.0168199
#2	.0034892	.0019679	.0343883	.0098198	.0281454	.0077657
#3	.0036045	.0025319	.0348244	.0135646	.0322543	.0131792

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0320657**	**-.000174**	**.0653173**	**29.16854**	**.0190580**	**.0050257**
Stddev	.0008823	.000052	.0003124	.20133	.0002755	.0001659
%RSD	2.751491	30.01060	.4783058	.6902194	1.445551	3.301463
#1	.0319230	-.000233	.0651667	28.94032	.0188398	.0050904
#2	.0330107	-.000135	.0651087	29.32098	.0189666	.0048371
#3	.0312635	-.000154	.0656765	29.24432	.0193676	.0051494

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034807**	**.0796726**	**1.761197**	**4.325370**	**.0129872**	**-.000478**
Stddev	.0006597	.0077290	.014253	.055341	.0000905	.000080
%RSD	18.95204	9.700929	.8092727	1.279443	.6969201	16.78373
#1	.0041759	.0755484	1.745711	4.266112	.0129124	-.000494
#2	.0034029	.0748805	1.773765	4.334288	.0129615	-.000391
#3	.0028635	.0885890	1.764117	4.375710	.0130878	-.000549

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.619057**	**.0016176**	**.3287263**	**4.575830**	**.0302239**	**.0007999**
Stddev	.068627	.0021327	.0041162	.014868	.0003191	.0005880
%RSD	1.221327	131.8440	1.252163	.3249279	1.055706	73.50767
#1	5.590388	-.000389	.3317513	4.559885	.0304387	.0002428
#2	5.569412	.003857	.3240389	4.578292	.0303758	.0014146
#3	5.697369	.001384	.3303888	4.589314	.0298573	.0007425

Sample Name: Q3766-12 Acquired: 12/9/2025 21:40:15 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.024461	-.001247	2.404591	.0020966	F 11.74170	-.002145
Stddev	.000458	.000732	.010390	.0001196	.12111	.001030
%RSD	1.871994	58.68336	.4320854	5.701879	1.031487	47.99803
#1	-.023951	-.000491	2.401658	.0019647	11.79665	-.001250
#2	-.024595	-.001298	2.395984	.0021977	11.60286	-.001915
#3	-.024838	-.001952	2.416133	.0021274	11.82561	-.003271

Elem	Sr4077
Units	ppm
Avg	.0937906
Stddev	.0007159
%RSD	.7633283
#1	.0930150
#2	.0944262
#3	.0939307

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2979.205	61349.92	7583.319	2223.481	4226.883
Stddev	3.835	523.05	34.313	12.961	6.014
%RSD	.1287200	.8525630	.4524852	.5829018	.1422835
#1	2979.064	61328.86	7604.773	2221.081	4232.654
#2	2983.108	61883.18	7543.744	2237.475	4227.344
#3	2975.442	60837.72	7601.440	2211.889	4220.653

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-13 Acquired: 12/9/2025 21:44:28 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0008797**	**.0035111**	**.1503867**	**.0076882**	**.0331934**	**.0394361**	**.0350611**
Stddev	.0003455	.0004802	.0005750	.0052746	.0016576	.0091179	.0008009
%RSD	39.27520	13.67581	.3823424	68.60668	4.993704	23.12071	2.284287
#1	.0004825	.0033269	.1510306	.0114435	.0315003	.0304261	.0343460
#2	.0011107	.0040561	.1502048	.0016579	.0332669	.0392239	.0349109
#3	.0010458	.0031503	.1499246	.0099631	.0348130	.0486583	.0359265

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000032**	**.0129457**	**25.90550**	**.0029003**	**.0007438**	**.0079421**	**.2416854**
Stddev	.000036	.0000984	.37048	.0000982	.0002260	.0003596	.0081368
%RSD	111.9742	.7597939	1.430115	3.385833	30.38854	4.528286	3.366673
#1	-.000060	.0130370	25.63775	.0027957	.0006575	.0075290	.2450871
#2	.000008	.0129586	25.75045	.0029147	.0005736	.0081852	.2323998
#3	-.000044	.0128415	26.32832	.0029905	.0010003	.0081122	.2475693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0215273**	**11.40276**	**.0084860**	**-.000649**	**1.890252**	**.0018172**	**.0256369**
Stddev	.0005894	.24598	.0001317	.000078	.030882	.0034187	.0002367
%RSD	2.737793	2.157180	1.551790	12.00315	1.633743	188.1269	.9231335
#1	.0210121	11.20897	.0084537	-.000570	1.856834	-.002119	.0253716
#2	.0213998	11.31983	.0086309	-.000653	1.896184	.003522	.0257129
#3	.0221700	11.67949	.0083735	-.000725	1.917737	.004048	.0258263

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.704049**	**.0218728**	**.0022672**	**-.025080**	**-.000837**	**.1242837**	**.0015574**
Stddev	.058063	.0005372	.0001612	.000852	.000991	.0043944	.0000982
%RSD	1.234328	2.456208	7.112459	3.396926	118.4197	3.535765	6.307387
#1	4.639122	.0213073	.0020918	-.025935	-.000138	.1196024	.0016328
#2	4.722032	.0223765	.0024090	-.025074	-.001970	.1249286	.0015931
#3	4.750993	.0219345	.0023008	-.024232	-.000401	.1283199	.0014463

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-13 Acquired: 12/9/2025 21:44:28 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.092244	-.005275	.0956049
Stddev	.005904	.000991	.0010885
%RSD	.0729537	18.78090	1.138555
#1	8.091956	-.004722	.0946807
#2	8.098287	-.004683	.0953292
#3	8.086490	-.006418	.0968047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.737	58690.35	7691.741	2194.196	4135.236
Stddev	2.419	339.45	92.989	13.628	11.743
%RSD	.0821917	.5783772	1.208940	.6210883	.2839653
#1	2945.433	58948.22	7739.493	2206.365	4147.380
#2	2940.758	58817.07	7751.151	2196.752	4123.941
#3	2942.019	58305.77	7584.578	2179.471	4134.387

Sample Name: Q3766-14 Acquired: 12/9/2025 21:48:45 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0026573**	**.0015908**	**.1909843**	**.0108884**	**.0274771**	**.0273223**	**.0366491**
Stddev	.0026893	.0054089	.0009873	.0025887	.0011477	.0036038	.0003384
%RSD	101.2042	340.0030	.5169283	23.77460	4.176930	13.19009	.9233773
#1	.0023633	.0004790	.1907013	.0112574	.0287940	.0245255	.0369598
#2	.0001271	.0074692	.1901695	.0081351	.0266900	.0313893	.0366990
#3	.0054814	-.003176	.1920822	.0132729	.0269473	.0260522	.0362885

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000134**	**.0011329**	**26.97373**	**.0005476**	**.0002121**	**.0076348**	**.7330072**
Stddev	.000077	.0000755	.18409	.0004635	.0002178	.0008107	.0018991
%RSD	57.33693	6.663671	.6824668	84.63383	102.6864	10.61844	.2590772
#1	-.000219	.0011850	27.11700	.0010690	.0004518	.0068824	.7310416
#2	-.000068	.0011674	27.03810	.0001824	.0001582	.0075287	.7331481
#3	-.000116	.0010463	26.76611	.0003914	.0000263	.0084933	.7348318

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0226839**	**2.639713**	**.0052057**	**-.001432**	**.7708664**	**.0015867**	**.0327891**
Stddev	.0002217	.003723	.0004682	.000345	.0018468	.0017584	.0003285
%RSD	.9772497	.1410463	8.994561	24.07094	.2395816	110.8204	1.001733
#1	.0229359	2.638978	.0046704	-.001298	.7727638	.0026069	.0328684
#2	.0225969	2.636412	.0054074	-.001175	.7707608	.0025968	.0324282
#3	.0225189	2.643749	.0055393	-.001824	.7690746	-.000444	.0330706

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.627089**	**.0076358**	**.0020615**	**-.023184**	**-.000774**	**.3228322**	**.0019623**
Stddev	.023995	.0008202	.0002069	.001159	.000834	.0037095	.0003314
%RSD	1.474694	10.74130	10.03412	5.000060	107.6565	1.149043	16.88939
#1	1.651837	.0081663	.0020405	-.023317	-.001186	.3187646	.0021615
#2	1.625504	.0080499	.0018659	-.021964	.000185	.3260283	.0015797
#3	1.603926	.0066911	.0022781	-.024271	-.001322	.3237039	.0021457

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3766-14 Acquired: 12/9/2025 21:48:45 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.427811**	**-.007942**	**.1633212**
Stddev	.017996	.002038	.0014885
%RSD	.3315572	25.65721	.9114245
#1	5.419651	-.010237	.1645114
#2	5.415341	-.006345	.1638000
#3	5.448442	-.007244	.1616521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2972.602**	**58906.05**	**7942.213**	**2202.251**	**4215.278**
Stddev	10.819	234.30	82.338	6.683	11.268
%RSD	.3639687	.3977586	1.036719	.3034431	.2673085
#1	2967.548	59026.29	7876.510	2201.576	4206.591
#2	2985.024	59055.83	7915.551	2209.245	4228.010
#3	2965.235	58636.04	8034.579	2195.931	4211.233

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170856BL Acquired: 12/9/2025 21:53:01 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0029642**	**.0069048**	**.0009638**	**-.000118**	**.0012732**	**-.008126**	**-.001319**
Stddev	.0011456	.0038506	.0003916	.000735	.0016962	.009569	.001274
%RSD	38.64652	55.76729	40.62649	621.1407	133.2249	117.7525	96.59025
#1	.0034124	.0110682	.0013845	-.000470	.0023627	-.013953	-.001684
#2	.0038180	.0061747	.0006100	.000726	-.000681	.002917	.000098
#3	.0016623	.0034715	.0008970	-.000611	.002138	-.013344	-.002371

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000024**	**-.000012**	**-.000073**	**.0001883**	**.0000708**	**.0000692**	**-.011615**
Stddev	.0000795	.000023	.006316	.0001493	.0001009	.0003457	.001850
%RSD	3257.756	195.7917	8622.645	79.27358	142.5574	499.3001	15.93201
#1	.0000901	-.000033	.003201	.0002785	.0001874	.0004338	-.010527
#2	-.000018	.000012	-.007354	.0000160	.0000137	-.000254	-.010566
#3	-.000065	-.000014	.003934	.0002705	.0000114	.000028	-.013751

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000572**	**-.024697**	**.0002499**	**-.000394**	**-.043997**	**.0006663**	**-.000317**
Stddev	.000239	.020194	.0006571	.000164	.011992	.0028055	.000080
%RSD	41.74417	81.76827	262.9164	41.55846	27.25619	421.0548	25.29791
#1	-.000297	-.011905	.0009602	-.000557	-.057655	.0021688	-.000226
#2	-.000695	-.014209	-.000336	-.000396	-.039142	-.002570	-.000376
#3	-.000725	-.047977	.000126	-.000229	-.035194	.002401	-.000350

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.076545**	**-.003434**	**-.000091**	**-.015609**	**.0012930**	**-.006143**	**.0005718**
Stddev	.030172	.000651	.000143	.000978	.0002242	.006727	.0004333
%RSD	39.41788	18.96417	157.2147	6.265783	17.33550	109.5078	75.78609
#1	-.111385	-.003071	-.000193	-.016069	.0012354	.000671	.0000773
#2	-.059117	-.003046	.000073	-.014486	.0011033	-.006320	.0008853
#3	-.059134	-.004186	-.000153	-.016273	.0015404	-.012779	.0007528

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170856BL Acquired: 12/9/2025 21:53:01 Type: Unk
Method: 6010-200.7 NEW(v394) 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	-.008863	-.001718	-.000099
Stddev	.005519	.001644	.000057
%RSD	62.27208	95.66491	57.19619
#1	-.004744	-.002372	-.000119
#2	-.006711	-.002935	-.000143
#3	-.015134	.000152	-.000035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.283	60191.79	7575.303	2286.458	4320.917
Stddev	5.660	427.62	114.076	17.183	8.303
%RSD	.1853149	.7104369	1.505893	.7515310	.1921659
#1	3059.701	59974.62	7679.048	2287.637	4329.107
#2	3054.738	60684.42	7453.138	2303.021	4321.140
#3	3048.409	59916.33	7593.722	2268.715	4312.505

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: PB170856BS Acquired: 12/9/2025 21:57:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.7876313**	**1.886865**	**.9407452**	**2.039065**	**.8167918**	**1.896963**
Stddev	.0017027	.047737	.0119806	.023372	.0112789	.019603
%RSD	.2161753	2.529956	1.273527	1.146226	1.380875	1.033364
#1	.7895972	1.905398	.9502370	2.056218	.8270880	1.876002
#2	.7866220	1.832641	.9272835	2.012444	.8047369	1.900045
#3	.7866748	1.922557	.9447152	2.048532	.8185506	1.914842

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1836340**	**.1834255**	**.1903030**	**.9701188**	**.3935994**	**.1917492**
Stddev	.0033657	.0013251	.0023540	.0330099	.0026666	.0024239
%RSD	1.832843	.7224411	1.236953	3.402663	.6774877	1.264086
#1	.1797503	.1819086	.1925454	.9325196	.3960755	.1939338
#2	.1857013	.1843577	.1878515	.9943384	.3939465	.1891417
#3	.1854504	.1840102	.1905121	.9834984	.3907763	.1921721

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3083074**	**2.930235**	**.1882931**	**1.894944**	**.4819704**	**.0739308**
Stddev	.0028708	.032032	.0026424	.068182	.0056677	.0008052
%RSD	.9311460	1.093156	1.403340	3.598112	1.175944	1.089133
#1	.3107165	2.913290	.1852558	1.818110	.4877465	.0746002
#2	.3051309	2.967180	.1895602	1.948235	.4764176	.0741550
#3	.3090748	2.910235	.1900633	1.918486	.4817473	.0730373

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.858807**	**.2867055**	**.2086789**	**9.562177**	**.2698010**	**.4064085**
Stddev	.035017	.0042775	.0005357	.038912	.0022588	.0039522
%RSD	1.224890	1.491956	.2567188	.4069373	.8372053	.9724738
#1	2.826796	.2818653	.2091946	9.550806	.2674633	.4097313
#2	2.896205	.2899778	.2081252	9.605508	.2719716	.4020380
#3	2.853419	.2882735	.2087170	9.530217	.2699682	.4074562

Sample Name: PB170856BS Acquired: 12/9/2025 21:57:20 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.6522219	.1864326	.8906223	F .5947498	F -.009570	.1918959
Stddev	.0082056	.0040332	.0163063	.0053970	.004141	.0023364
%RSD	1.258099	2.163333	1.830891	.9074475	43.26873	1.217560
#1	.6593324	.1817839	.8719956	.5995328	-.007550	.1892006
#2	.6432433	.1885147	.9023191	.5888985	-.006828	.1933469
#3	.6540899	.1889992	.8975521	.5958181	-.014334	.1931401

Elem	Sr4077
Units	ppm
Avg	.1870983
Stddev	.0025730
%RSD	1.375195
#1	.1841297
#2	.1886856
#3	.1884797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.788	59018.53	7734.350	2213.541	4132.147
Stddev	27.852	414.84	72.371	7.363	44.380
%RSD	.9325092	.7029060	.9357064	.3326278	1.074030
#1	2963.171	58711.78	7817.744	2205.298	4089.851
#2	3017.502	58853.28	7688.006	2215.858	4178.353
#3	2979.691	59490.54	7697.299	2219.467	4128.237

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3790-01 Acquired: 12/9/2025 22:01:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0826380**	**.0094122**	**.6681409**	**-.018582**	**-.003848**	**80.23694**	**.6434989**
Stddev	.0049295	.0052314	.0007475	.009326	.003781	1.28340	.0126046
%RSD	5.965137	55.58170	.1118768	50.18843	98.26170	1.599511	1.958759
#1	.0839065	.0040079	.6687851	-.010316	-.007685	78.78076	.6292990
#2	.0771982	.0097769	.6683164	-.028692	-.003734	80.72676	.6478334
#3	.0868091	.0144517	.6673214	-.016738	-.000125	81.20329	.6533644

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056143**	**.0077654**	**118.1265**	**.2230178**	**.0614289**	**.4027638**	**134.7887**
Stddev	.0000764	.0002237	1.9905	.0014661	.0002378	.0012825	1.2201
%RSD	1.360120	2.880621	1.685052	.6573780	.3870827	.3184342	.9051887
#1	.0055800	.0075741	115.8500	.2244567	.0615466	.4012854	134.9510
#2	.0055611	.0080113	118.9908	.2215260	.0611553	.4035790	133.4956
#3	.0057018	.0077107	119.5388	.2230706	.0615850	.4034269	135.9195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.326166**	**33.37438**	**.1763430**	**.0006144**	**2.220536**	**.2539484**	**2.048205**
Stddev	.037755	.56946	.0002035	.0006849	.034805	.0046256	.018328
%RSD	1.623062	1.706267	.1154220	111.4684	1.567392	1.821479	.8948200
#1	2.282928	32.72045	.1761184	.0002881	2.229712	.2488561	2.062244
#2	2.342955	33.76106	.1763954	.0001537	2.182063	.2578903	2.027471
#3	2.352614	33.64163	.1765152	.0014014	2.249833	.2550987	2.054900

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.814330**	**.1366711**	**.0067222**	**.0321027**	**2.604493**	**4.981758**	**.7550160**
Stddev	.126937	.0044486	.0003048	.0003577	.043878	.045605	.0008576
%RSD	1.293381	3.254953	4.534408	1.114159	1.684711	.9154385	.1135810
#1	9.783759	.1407699	.0063840	.0316902	2.555524	4.976560	.7559748
#2	9.705470	.1319403	.0069758	.0322913	2.617715	4.938975	.7543225
#3	9.953760	.1373031	.0068068	.0323265	2.640240	5.029739	.7547506

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3790-01 Acquired: 12/9/2025 22:01:26 Type: Unk
Method: 6010-200.7 NEW(v394) 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	6.180668	.0633111	.2336912
Stddev	.027306	.0026492	.0061877
%RSD	.4417961	4.184404	2.647829
#1	6.182786	.0608128	.2265686
#2	6.152364	.0630317	.2367632
#3	6.206853	.0660890	.2377418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3259.469	64659.08	8738.017	2420.970	3762.010
Stddev	4.741	387.39	117.203	22.457	4.306
%RSD	.1454425	.5991301	1.341302	.9275966	.1144493
#1	3263.297	64365.70	8870.904	2412.669	3764.098
#2	3260.942	65098.20	8649.385	2446.396	3764.874
#3	3254.166	64513.33	8693.762	2403.846	3757.059

Sample Name: Q3795-01 Acquired: 12/9/2025 22:05:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0314245**	**.0141778**	**.2089991**	**-.026634**	**-.014997**	**157.9447**	**.5871605**
Stddev	.0016969	.0076698	.0023384	.006931	.003997	1.7312	.0076771
%RSD	5.399885	54.09749	1.118846	26.02161	26.65143	1.096065	1.307505
#1	.0330376	.0204630	.2116507	-.019192	-.011142	155.9464	.5784197
#2	.0315812	.0056316	.2072318	-.032903	-.019122	158.8984	.5928106
#3	.0296547	.0164388	.2081149	-.027808	-.014729	158.9893	.5902512

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106312**	**.0140375**	**12.31525**	**.2607945**	**.1717639**	**.3691607**	**294.4802**
Stddev	.0001963	.0000819	.16613	.0008151	.0005915	.0010681	.4890
%RSD	1.846578	.5836582	1.348999	.3125335	.3443629	.2893332	.1660653
#1	.0104048	.0140269	12.12711	.2609313	.1711293	.3682248	293.9676
#2	.0107358	.0139614	12.37686	.2615325	.1718626	.3703243	294.5314
#3	.0107531	.0141242	12.44177	.2599197	.1722999	.3689331	294.9416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.011076**	**52.33153**	**.3013641**	**.0049093**	**1.899488**	**.3399461**	**.7545926**
Stddev	.097521	.65487	.0011242	.0007498	.015972	.0059028	.0020303
%RSD	1.390949	1.251393	.3730419	15.27350	.8408651	1.736388	.2690556
#1	6.898478	51.58098	.3012169	.0041106	1.882613	.3331303	.7568002
#2	7.066170	52.62704	.3003207	.0050192	1.901480	.3433194	.7541721
#3	7.068581	52.78658	.3025546	.0055981	1.914371	.3433887	.7528055

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.96452**	**.3257611**	**.0039989**	**.0133256**	**3.383995**	**4.176113**	**.4705555**
Stddev	.06500	.0034721	.0002228	.0004597	.044379	.016689	.0020779
%RSD	.3618034	1.065840	5.572313	3.449916	1.311446	.3996341	.4415787
#1	17.89069	.3276957	.0039897	.0129252	3.332787	4.193585	.4690128
#2	18.01311	.3278350	.0037808	.0132238	3.407912	4.160336	.4729183
#3	17.98976	.3217527	.0042262	.0138276	3.411286	4.174416	.4697354

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01 Acquired: 12/9/2025 22:05:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.7373074	.2939954	-.172351
Stddev	.0085480	.0041007	.000864
%RSD	1.159351	1.394800	.5014643
#1	.7348657	.2893472	-.173339
#2	.7468106	.2971011	-.171735
#3	.7302460	.2955378	-.171979

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3421.671	67921.08	9353.180	2537.769	3749.337
Stddev	5.727	168.04	92.179	5.656	4.789
%RSD	.1673752	.2474005	.9855397	.2228764	.1277342
#1	3426.380	67732.86	9459.601	2534.759	3754.707
#2	3423.337	67974.37	9301.685	2534.254	3747.795
#3	3415.296	68056.01	9298.254	2544.293	3745.508

Sample Name: Q3795-01DUP Acquired: 12/9/2025 22:09:38 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0301800**	**.0174746**	**.2067204**	**-.031966**	**-.018059**	**159.7596**	**.5845330**
Stddev	.0004527	.0020854	.0027807	.006584	.003387	1.4253	.0049237
%RSD	1.500047	11.93376	1.345151	20.59613	18.75687	.8921592	.8423269
#1	.0306366	.0162949	.2036311	-.039563	-.021601	158.7071	.5831809
#2	.0297313	.0162465	.2075073	-.027924	-.017726	159.1902	.5804267
#3	.0301720	.0198825	.2090229	-.028411	-.014851	161.3816	.5899915

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109088**	**.0139957**	**12.27019**	**.2651179**	**.1699626**	**.3694564**	**289.3861**
Stddev	.0001202	.0006741	.13548	.0015695	.0019862	.0038495	.6493
%RSD	1.101796	4.816280	1.104143	.5919913	1.168628	1.041936	.2243865
#1	.0108853	.0132711	12.17866	.2666710	.1680502	.3650674	290.1333
#2	.0110390	.0141119	12.20608	.2651502	.1698225	.3710417	289.0658
#3	.0108020	.0146042	12.42582	.2635325	.1720152	.3722601	288.9591

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.957018**	**52.95782**	**.2976847**	**.0012536**	**1.652338**	**.3402802**	**.7631888**
Stddev	.066159	.52761	.0032447	.0004410	.002574	.0062920	.0069806
%RSD	.9509706	.9962927	1.089962	35.17929	.1557545	1.849078	.9146682
#1	6.936882	52.55132	.2941318	.0007445	1.654632	.3354088	.7712440
#2	6.903266	52.76807	.2984315	.0015177	1.649555	.3380476	.7594161
#3	7.030905	53.55407	.3004908	.0014986	1.652828	.3473840	.7589064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.85654**	**.2989040**	**.0043504**	**.0026301**	**3.426632**	**5.479323**	**.4659343**
Stddev	.00817	.0050350	.0004925	.0008218	.034167	.022516	.0045875
%RSD	.0457794	1.684488	11.32100	31.24751	.9970926	.4109233	.9845814
#1	17.84914	.2984308	.0041313	.0018771	3.412538	5.503007	.4608630
#2	17.85517	.3041589	.0049145	.0025063	3.401766	5.476768	.4671445
#3	17.86532	.2941223	.0040055	.0035067	3.465591	5.458194	.4697954

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01DUP Acquired: 12/9/2025 22:09:38 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.4331682	.2978974	-.167752
Stddev	.0066022	.0038903	.001424
%RSD	1.524166	1.305935	.8488064
#1	.4255476	.2971203	-.168531
#2	.4367949	.2944543	-.168617
#3	.4371620	.3021177	-.166109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.167	66730.51	9079.288	2501.344	3791.766
Stddev	17.905	431.47	73.276	21.784	30.917
%RSD	.5188235	.6465852	.8070687	.8708788	.8153845
#1	3471.222	66264.57	9074.674	2476.441	3824.595
#2	3445.493	66810.70	9154.762	2510.723	3787.499
#3	3436.787	67116.26	9008.428	2516.867	3763.203

Sample Name: Q3795-01LX5 Acquired: 12/9/2025 22:13:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0053700**	**.0077789**	**.0411642**	**-.010026**	**-.002364**	**35.74176**	**.1309175**
Stddev	.0005064	.0044626	.0011605	.006065	.003041	.42201	.0023009
%RSD	9.429248	57.36803	2.819304	60.49365	128.6507	1.180717	1.757507
#1	.0058385	.0026263	.0400327	-.016971	-.005562	35.27943	.1286943
#2	.0048328	.0103006	.0411081	-.007334	-.002019	35.83959	.1307695
#3	.0054387	.0104098	.0423518	-.005773	.000490	36.10627	.1332889

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025805**	**.0018797**	**2.798554**	**.0594402**	**.0331050**	**.0894680**	**62.55593**
Stddev	.0001224	.0000672	.042100	.0003723	.0002044	.0002431	.48941
%RSD	4.744778	3.577193	1.504334	.6262521	.6175572	.2716838	.7823531
#1	.0026817	.0018701	2.766801	.0598151	.0328731	.0892016	62.01690
#2	.0026154	.0019512	2.782553	.0594350	.0331828	.0895249	62.67844
#3	.0024444	.0018177	2.846308	.0590707	.0332592	.0896777	62.97244

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.606633**	**11.89159**	**.0585267**	**-.001480**	**.3803249**	**.0774440**	**.1721173**
Stddev	.021377	.14403	.0003700	.000103	.0214633	.0010451	.0005326
%RSD	1.330554	1.211187	.6322113	6.925923	5.643402	1.349472	.3094645
#1	1.584427	11.73114	.0588649	-.001590	.3606289	.0762507	.1726527
#2	1.608402	11.93388	.0581315	-.001464	.3771451	.0781962	.1721117
#3	1.627071	12.00973	.0585838	-.001387	.4032006	.0778851	.1715875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.729036**	**.0528097**	**.0004308**	**-.012836**	**.7641594**	**.9080080**	**.0905453**
Stddev	.009746	.0018424	.0003671	.001745	.0078606	.0145737	.0003935
%RSD	.2613479	3.488752	85.20134	13.59483	1.028659	1.605022	.4346252
#1	3.738921	.0507276	.0007847	-.014477	.7556921	.8935730	.0909015
#2	3.728752	.0542292	.0004559	-.013030	.7655616	.9077344	.0906115
#3	3.719436	.0534723	.0000519	-.011003	.7712245	.9227166	.0901228

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01LX5 Acquired: 12/9/2025 22:13:43 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.1246752	.0654835	-.035079
Stddev	.0055864	.0024459	.000187
%RSD	4.480721	3.735142	.5340641
#1	.1191113	.0633224	-.034910
#2	.1246305	.0649893	-.035281
#3	.1302838	.0681387	-.035047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.453	60707.85	7789.974	2302.683	4057.490
Stddev	7.730	122.13	77.908	2.905	6.125
%RSD	.2486658	.2011820	1.000108	.1261614	.1509674
#1	3100.620	60848.83	7873.699	2305.965	4051.225
#2	3108.664	60634.04	7776.613	2300.443	4057.782
#3	3116.075	60640.69	7719.611	2301.640	4063.465

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV11 Acquired: 12/9/2025 22:17:56 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.851898**	**5.235122**	**4.757276**	**4.918832**	**4.931469**	**9.412051**
Stddev	.010664	.212288	.002102	.015876	.008654	.069613
%RSD	.2197816	4.055072	.0441933	.3227695	.1754949	.7396128
#1	4.841916	5.062896	4.759009	4.904961	4.921623	9.333482
#2	4.850645	5.170172	4.754937	4.915388	4.934908	9.436634
#3	4.863132	5.472297	4.757883	4.936148	4.937875	9.466036

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.602201**	**.2477072**	**2.373959**	**23.16961**	**.9631177**	**2.400876**
Stddev	.014951	.0014804	.003655	.14583	.0045855	.003721
%RSD	.1557062	.5976312	.1539476	.6293966	.4761113	.1549957
#1	9.606570	.2487977	2.369741	23.07475	.9684065	2.397073
#2	9.585552	.2460220	2.375934	23.09654	.9602533	2.404510
#3	9.614481	.2483020	2.376200	23.33752	.9606933	2.401045

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.231340**	**4.943590**	**2.284962**	**22.96175**	**2.385585**	**1.191525**
Stddev	.001761	.017700	.006573	.10059	.003859	.004104
%RSD	.1429772	.3580369	.2876426	.4380753	.1617580	.3443945
#1	1.229380	4.948265	2.289879	22.85692	2.381173	1.196246
#2	1.231851	4.924022	2.277497	22.97085	2.388333	1.189521
#3	1.232787	4.958483	2.287510	23.05749	2.387248	1.188809

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.12506**	**2.349206**	**2.436135**	**24.49152**	**4.669914**	**4.942872**
Stddev	.16154	.006153	.011631	.05775	.023061	.006042
%RSD	.6695923	.2618990	.4774319	.2358136	.4938278	.1222444
#1	24.31144	2.343495	2.449301	24.48695	4.677009	4.937230
#2	24.02550	2.348402	2.431849	24.43618	4.644139	4.942139
#3	24.03823	2.355721	2.427255	24.55142	4.688595	4.949248

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV11 Acquired: 12/9/2025 22:17:56 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.747216**	**4.666246**	**5.121758**	**4.783005**	**4.718379**	F **4.489203**
Stddev	.002348	.008718	.010674	.010938	.023965	.011554
%RSD	.0494626	.1868240	.2084005	.2286759	.5079103	.2573734
#1	4.744504	4.665345	5.117826	4.774592	4.701883	4.494022
#2	4.748562	4.658015	5.113608	4.779054	4.707386	4.476019
#3	4.748581	4.675380	5.133840	4.795369	4.745869	4.497566

Elem	Sr4077
Units	ppm
Avg	**4.686391**
Stddev	.021711
%RSD	.4632762
#1	4.678031
#2	4.670102
#3	4.711039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2888.904**	**57748.68**	**7787.221**	**2129.484**	**3841.483**
Stddev	6.451	323.28	37.372	11.124	7.895
%RSD	.2232870	.5597992	.4799152	.5223800	.2055083
#1	2883.127	57379.19	7752.926	2116.722	3835.800
#2	2887.720	57887.42	7827.052	2134.604	3838.152
#3	2895.864	57979.42	7781.686	2137.127	3850.497

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB11 Acquired: 12/9/2025 22:22:09 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000224**	**.0037488**	**-.000187**	**.0035210**	**.0004334**	**-.001480**	**-.002915**
Stddev	.002458	.0025490	.001098	.0022479	.0023583	.007659	.000843
%RSD	1096.136	67.99611	586.7579	63.84317	544.1178	517.4356	28.91110
#1	.001993	.0022695	-.000688	.0060954	.0023226	.006829	-.003880
#2	.000203	.0022847	.001072	.0025212	.0011873	-.008257	-.002323
#3	-.002868	.0066921	-.000946	.0019464	-.002210	-.003013	-.002543

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000481**	**-.000013**	**-.005988**	**.0000875**	**-.000081**	**.0002694**	**-.009834**
Stddev	.0001316	.000051	.002345	.0002676	.000251	.0003634	.009223
%RSD	273.5065	402.7107	39.16731	305.9089	308.8098	134.9030	93.78718
#1	.0000085	.000012	-.003610	.0003919	-.000360	-.000119	.000689
#2	-.000059	-.000072	-.008300	-.000019	-.000011	.000602	-.013678
#3	.000195	.000021	-.006055	-.000110	.000127	.000325	-.016514

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**-.025050**	**.0001804**	**-.000998**	**.0074029**	**-.000034**	**-.000438**
Stddev	.000272	.022328	.0003558	.000270	.0247869	.001739	.000527
%RSD	325.6714	89.13215	197.2275	27.03099	334.8264	5050.369	120.3249
#1	-.000186	-.030262	-.000207	-.001274	-.017812	-.001223	-.000649
#2	.000225	-.000577	.000256	-.000985	.008281	-.000841	.000162
#3	-.000289	-.044310	.000492	-.000735	.031739	.001961	-.000826

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0116861**	**.0017559**	**.0001216**	**-.017216**	**.0004437**	**-.002708**	**.0004295**
Stddev	.0339849	.0010458	.0000717	.001067	.0003146	.011081	.0003285
%RSD	290.8140	59.55825	58.99173	6.200665	70.90616	409.2339	76.49622
#1	-.020649	.0024450	.0001885	-.015990	.0003902	-.001274	.0008059
#2	.008598	.0022702	.0000459	-.017712	.0001593	.007587	.0002817
#3	.047110	.0005526	.0001302	-.017944	.0007816	-.014435	.0002008

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB11 Acquired: 12/9/2025 22:22:09 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.015442	-.000298	.0000945
Stddev	.003702	.000759	.0000695
%RSD	23.97212	254.2724	73.52796
#1	-.013954	-.000807	.0001719
#2	-.012715	-.000663	.0000743
#3	-.019656	.000574	.0000374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3008.831	58329.90	7984.334	2222.460	4231.880
Stddev	27.639	200.62	32.780	8.563	36.723
%RSD	.9185967	.3439440	.4105518	.3853155	.8677801
#1	3012.370	58300.16	7999.740	2215.787	4237.414
#2	2979.592	58145.81	7946.689	2219.478	4192.703
#3	3034.529	58543.73	8006.572	2232.116	4265.522

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01MS Acquired: 12/9/2025 22:26:29 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6469983**	**1.624831**	**1.011702**	**1.497374**	**.3640557**	**138.7148**	**.6301380**
Stddev	.0049712	.036000	.002821	.013082	.0032947	1.8444	.0090020
%RSD	.7683524	2.215614	.2788151	.8736516	.9049918	1.329668	1.428574
#1	.6412963	1.637678	1.008540	1.487957	.3604088	136.6954	.6216192
#2	.6504226	1.584169	1.012606	1.512311	.3649412	140.3106	.6395557
#3	.6492759	1.652644	1.013960	1.491854	.3668172	139.1383	.6292391

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1540373**	**.1828876**	**11.01423**	**.4762259**	**.2878966**	**.4718382**	**222.8615**
Stddev	.0013096	.0007722	.15754	.0013623	.0016762	.0009233	1.3124
%RSD	.8501659	.4222326	1.430338	.2860569	.5822105	.1956904	.5888898
#1	.1530031	.1820038	10.85374	.4777461	.2863013	.4708544	221.5555
#2	.1555098	.1834318	11.16865	.4758157	.2896433	.4726861	224.1803
#3	.1535990	.1832271	11.02030	.4751158	.2877453	.4719740	222.8488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.388331**	**43.93553**	**.6582400**	**.0619064**	**3.821827**	**.5141236**	**.7842654**
Stddev	.073970	.55998	.0036750	.0004123	.026134	.0055584	.0019529
%RSD	1.372788	1.274557	.5583056	.6659944	.6837985	1.081131	.2490096
#1	5.318811	43.33667	.6539994	.0614338	3.795961	.5080661	.7862944
#2	5.466066	44.44615	.6604953	.0620934	3.848220	.5189896	.7841030
#3	5.380115	44.02378	.6602254	.0621921	3.821299	.5153152	.7823987

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.31171**	**.4387936**	**.3241090**	**.6006326**	**3.070368**	**3.356049**	**.9155638**
Stddev	.13023	.0032007	.0019678	.0032473	.037319	.034099	.0079776
%RSD	.5586269	.7294377	.6071304	.5406416	1.215467	1.016056	.8713353
#1	23.17651	.4366816	.3219057	.5969184	3.032935	3.318119	.9070839
#2	23.43632	.4424762	.3256915	.6029348	3.107572	3.365860	.9166877
#3	23.32229	.4372229	.3247298	.6020448	3.070596	3.384167	.9229199

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01MS Acquired: 12/9/2025 22:26:29 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.5360719	.4082223	.0403567
Stddev	.0082046	.0047344	.0019106
%RSD	1.530507	1.159756	4.734280
#1	.5444803	.4028734	.0383892
#2	.5356481	.4118747	.0422048
#3	.5280875	.4099187	.0404761

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3360.990	68282.59	8695.451	2602.691	3852.834
Stddev	12.614	174.20	59.542	2.985	16.044
%RSD	.3753063	.2551134	.6847462	.1146842	.4164129
#1	3372.986	68092.62	8734.619	2599.245	3869.334
#2	3347.837	68320.32	8626.932	2604.478	3837.290
#3	3362.147	68434.84	8724.801	2604.350	3851.878

Sample Name: Q3795-01MSD Acquired: 12/9/2025 22:30:30 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6705642**	**1.726097**	**1.035210**	**1.557062**	**.3711779**	**138.9909**	**.6211639**
Stddev	.0082734	.105695	.009749	.008010	.0017220	1.9548	.0068549
%RSD	1.233790	6.123331	.9416976	.5144021	.4639361	1.406421	1.103555
#1	.6611168	1.649180	1.025089	1.548362	.3693105	136.7506	.6132486
#2	.6740597	1.682495	1.044538	1.564129	.3715199	139.8722	.6250969
#3	.6765161	1.846618	1.036002	1.558695	.3727033	140.3499	.6251463

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1579275**	**.1864455**	**10.85519**	**.4865557**	**.2911572**	**.4784933**	**224.9912**
Stddev	.0017751	.0018677	.15878	.0027254	.0020523	.0043655	1.3562
%RSD	1.123990	1.001712	1.462708	.5601349	.7048815	.9123467	.6027924
#1	.1558786	.1842894	10.67187	.4841037	.2888002	.4748056	224.2947
#2	.1590009	.1875626	10.94887	.4860733	.2921223	.4833135	224.1248
#3	.1589029	.1874846	10.94484	.4894901	.2925490	.4773609	226.5542

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.297630**	**43.93028**	**.6676664**	**.0628775**	**3.743246**	**.5116237**	**.8023877**
Stddev	.053779	.57005	.0055117	.0005895	.028460	.0057304	.0023338
%RSD	1.015145	1.297614	.8255165	.9375487	.7603009	1.120035	.2908617
#1	5.236093	43.27240	.6613050	.0623366	3.749868	.5065253	.8007014
#2	5.321186	44.24053	.6710142	.0627901	3.712059	.5105202	.8014104
#3	5.335612	44.27791	.6706800	.0635059	3.767811	.5178255	.8050513

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.78980**	**.4527085**	**.3313347**	**.6095717**	**3.047638**	**3.997318**	**.9391938**
Stddev	.20670	.0057188	.0017680	.0063640	.030660	.038460	.0095300
%RSD	.8688584	1.263247	.5336048	1.044004	1.006023	.9621427	1.014695
#1	23.67571	.4554324	.3293209	.6026398	3.012454	3.985992	.9285052
#2	23.66529	.4461369	.3326319	.6109253	3.061825	3.965793	.9422719
#3	24.02840	.4565562	.3320514	.6151499	3.068634	4.040169	.9468042

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01MSD Acquired: 12/9/2025 22:30:30 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.2860316	.4072419	.0348482
Stddev	.0096916	.0075150	.0022360
%RSD	3.388281	1.845344	6.416285
#1	.2833487	.3991744	.0324850
#2	.2779642	.4085076	.0369304
#3	.2967820	.4140436	.0351291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3318.150	65871.69	8617.317	2507.280	3792.449
Stddev	17.867	328.78	109.451	13.113	25.174
%RSD	.5384699	.4991269	1.270124	.5229860	.6637995
#1	3336.538	66212.01	8742.829	2512.186	3821.340
#2	3300.854	65847.24	8541.736	2517.232	3775.221
#3	3317.059	65555.81	8567.386	2492.421	3780.787

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01A Acquired: 12/9/2025 22:34:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.6538668**	**1.687123**	**1.069553**	**1.524036**	**.6214776**	**156.6704**	**.7341245**
Stddev	.0034610	.050841	.005907	.007049	.0019677	2.0976	.0085216
%RSD	.5293208	3.013478	.5522412	.4625282	.3166155	1.338875	1.160779
#1	.6533295	1.731207	1.065383	1.527297	.6212918	154.2599	.7247726
#2	.6507057	1.698655	1.066964	1.515947	.6196094	157.6705	.7414507
#3	.6575650	1.631506	1.076312	1.528865	.6235316	158.0809	.7361501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1486625**	**.1898883**	**12.78535**	**.5561046**	**.3472367**	**.5861437**	**291.1797**
Stddev	.0010141	.0009250	.19499	.0016942	.0010578	.0027812	2.3019
%RSD	.6821578	.4871083	1.525094	.3046512	.3046361	.4744858	.7905344
#1	.1475125	.1896855	12.56021	.5564614	.3461371	.5862596	288.9448
#2	.1494288	.1890816	12.89906	.5575920	.3473259	.5833063	293.5432
#3	.1490460	.1908979	12.89680	.5542605	.3482471	.5888651	291.0510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.089738**	**52.82385**	**.7386790**	**.0646627**	**4.138344**	**.5599276**	**.8931322**
Stddev	.094083	.80249	.0036266	.0005930	.021528	.0101137	.0032898
%RSD	1.327032	1.519179	.4909617	.9169992	.5202170	1.806243	.3683484
#1	6.984570	51.90611	.7346708	.0640702	4.114346	.5488245	.8965965
#2	7.165911	53.17177	.7396327	.0652561	4.155960	.5623446	.8900502
#3	7.118732	53.39366	.7417335	.0646617	4.144727	.5686139	.8927500

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.67923**	**.5313159**	**.3333942**	**.6523347**	**3.520377**	**5.823849**	**1.027017**
Stddev	.14395	.0015308	.0001283	.0034708	.044027	.033561	.000601
%RSD	.5605875	.2881114	.0384893	.5320560	1.250638	.5762713	.0585627
#1	25.54548	.5296922	.3333778	.6503392	3.471659	5.785206	1.026826
#2	25.83158	.5315226	.3332749	.6503224	3.557317	5.845704	1.026533
#3	25.66063	.5327328	.3335299	.6563424	3.532156	5.840637	1.027690

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-01A Acquired: 12/9/2025 22:34:32 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.4719178	.4469463	-.019067
Stddev	.0069732	.0056350	.000888
%RSD	1.477622	1.260769	4.656136
#1	.4648846	.4406707	-.020084
#2	.4720394	.4515726	-.018672
#3	.4788293	.4485957	-.018446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3426.025	68071.57	9276.229	2551.868	3761.618
Stddev	4.858	233.40	69.090	11.777	10.667
%RSD	.1417864	.3428754	.7448117	.4615161	.2835860
#1	3429.793	68056.69	9353.875	2539.136	3772.801
#2	3427.740	67845.97	9221.538	2554.097	3760.500
#3	3420.543	68312.06	9253.273	2562.372	3751.554

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-05 Acquired: 12/9/2025 22:38:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1564247**	**.0058928**	**.4947731**	**-.098452**	**-.049315**	**196.4899**	**3.309106**
Stddev	.0017507	.0028434	.0016479	.005603	.002098	1.3478	.016024
%RSD	1.119178	48.25247	.3330520	5.691491	4.254977	.6859304	.4842538
#1	.1545713	.0035053	.4943561	-.092341	-.050603	195.0535	3.294952
#2	.1566525	.0051346	.4965894	-.103348	-.050448	196.6894	3.305863
#3	.1580504	.0090384	.4933738	-.099667	-.046894	197.7269	3.326504

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298005**	**.0466398**	**24.84358**	**.2774895**	**.3756432**	**.2494700**	**781.7177**
Stddev	.0000868	.0014600	.12182	.0021277	.0008694	.0053327	11.8384
%RSD	.2911361	3.130289	.4903654	.7667584	.2314397	2.137620	1.514414
#1	.0298051	.0483134	24.72425	.2799344	.3766249	.2555215	769.0513
#2	.0297116	.0459781	24.83873	.2760577	.3749704	.2474298	783.5988
#3	.0298850	.0456278	24.96776	.2764764	.3753345	.2454585	792.5030

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.52306**	**43.29426**	**.6913744**	**.0050040**	**7.215207**	**.3370681**	**1.399069**
Stddev	.08137	.21147	.0017489	.0039854	.042270	.0011069	.004473
%RSD	.3612598	.4884577	.2529635	79.64413	.5858503	.3283793	.3197070
#1	22.46020	43.06409	.6930511	.0006559	7.167528	.3379902	1.402445
#2	22.49403	43.33870	.6895612	.0058728	7.230003	.3358406	1.393996
#3	22.61497	43.47997	.6915109	.0084834	7.248091	.3373735	1.400766

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.97663**	**.7032066**	**.0104216**	**.0169512**	**3.175525**	**3.100210**	**.7910810**
Stddev	.09899	.0287387	.0001249	.0010587	.018682	.011801	.0042175
%RSD	.3416075	4.086809	1.198873	6.245348	.5883126	.3806621	.5331315
#1	28.88581	.6713905	.0104361	.0164405	3.157140	3.091252	.7959299
#2	28.96195	.7109467	.0102900	.0181684	3.174943	3.113582	.7882651
#3	29.08214	.7272825	.0105386	.0162448	3.194491	3.095797	.7890478

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3795-05 Acquired: 12/9/2025 22:38:33 Type: Unk
Method: 6010-200.7 NEW(v394) 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	1.307989	.3833446	-.521089
Stddev	.004252	.0029973	.010191
%RSD	.3250497	.7818905	1.955638
#1	1.312376	.3812200	-.510116
#2	1.303887	.3820407	-.522895
#3	1.307704	.3867730	-.530256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3743.437	75707.18	10576.51	2798.388	3636.442
Stddev	2.717	90.10	29.09	8.043	10.969
%RSD	.0725814	.1190057	.2750583	.2874224	.3016374
#1	3740.454	75766.29	10587.47	2798.051	3623.777
#2	3745.769	75751.75	10598.54	2806.594	3642.901
#3	3744.091	75603.48	10543.53	2790.518	3642.648

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3800-01 Acquired: 12/9/2025 22:42:46 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0557337**	**.0236134**	**.2649341**	**-.033422**	**-.003238**	**169.4542**
Stddev	.0028952	.0083339	.0018781	.002933	.000877	.7896
%RSD	5.194614	35.29333	.7088935	8.776446	27.08362	.4659615
#1	.0590761	.0140356	.2627655	-.033605	-.002267	168.5431
#2	.0540060	.0292115	.2660103	-.036260	-.003971	169.8812
#3	.0541190	.0275930	.2660265	-.030402	-.003476	169.9384

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6492099**	**.0094829**	**.0116005**	**1236.814**	**.1669937**	**.0795699**
Stddev	.0034095	.0000207	.0004423	9.966	.0006740	.0007763
%RSD	.5251851	.2186354	3.812845	.8057963	.4035931	.9756831
#1	.6452730	.0094620	.0110936	1227.542	.1677706	.0787889
#2	.6511531	.0094831	.0119080	1247.353	.1665650	.0803415
#3	.6512037	.0095035	.0117999	1235.547	.1666456	.0795792

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1431607**	**192.7094**	**3.180032**	**86.69751**	**.1812603**	**-.003021**
Stddev	.0023556	.7852	.009774	.48467	.0027866	.000173
%RSD	1.645424	.4074761	.3073427	.5590316	1.537343	5.739224
#1	.1404636	191.8166	3.168751	86.13823	.1785255	-.003220
#2	.1448141	193.0188	3.185944	86.99460	.1840960	-.002909
#3	.1442044	193.2928	3.185401	86.95971	.1811594	-.002932

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.391004**	**.2324163**	**.5744082**	**11.14817**	**.4127461**	**.0083208**
Stddev	.039700	.0026726	.0014211	.07969	.0008612	.0002802
%RSD	2.854060	1.149931	.2473997	.7148334	.2086553	3.367785
#1	1.347395	.2325854	.5729602	11.05660	.4126499	.0085203
#2	1.400573	.2296631	.5744639	11.18612	.4119370	.0084417
#3	1.425046	.2350003	.5758007	11.20180	.4136514	.0080004

Sample Name: Q3800-01 Acquired: 12/9/2025 22:42:46 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0196184	4.497003	2.870297	.5125669	F 50.21611	.0174715
Stddev	.0006652	.019623	.027563	.0063262	.74888	.0028264
%RSD	3.390592	.4363569	.9602842	1.234213	1.491308	16.17744
#1	.0203559	4.476843	2.842902	.5054956	49.40262	.0153597
#2	.0194352	4.498126	2.869966	.5176893	50.87681	.0163724
#3	.0190639	4.516040	2.898025	.5145157	50.36889	.0206823

Elem	Sr4077
Units	ppm
Avg	2.989509
Stddev	.037762
%RSD	1.263162
#1	2.951915
#2	2.989174
#3	3.027437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.965	57293.94	8009.540	2136.436	3144.342
Stddev	21.209	107.72	18.188	8.121	31.389
%RSD	.7377242	.1880209	.2270762	.3801061	.9982685
#1	2898.900	57417.12	8028.344	2143.228	3177.605
#2	2858.507	57247.33	8008.236	2127.441	3115.242
#3	2867.487	57217.37	7992.039	2138.640	3140.179

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3800-02 Acquired: 12/9/2025 22:47:08 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0335999**	**.0192790**	**.0629592**	**-.023112**	**.0050650**	**91.32493**
Stddev	.0071813	.0064129	.0013125	.004940	.0013516	.26168
%RSD	21.37284	33.26376	2.084614	21.37487	26.68442	.2865359
#1	.0255074	.0163898	.0621779	-.027242	.0041437	91.59151
#2	.0392127	.0266282	.0644744	-.017639	.0044346	91.06844
#3	.0360796	.0148189	.0622252	-.024455	.0066165	91.31484

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5377767**	**.0044106**	**.0032727**	**1161.171**	**.1126460**	**.0237140**
Stddev	.0040945	.0001128	.0000388	6.596	.0027670	.0003113
%RSD	.7613654	2.557535	1.186186	.5680572	2.456362	1.312560
#1	.5404908	.0045153	.0032406	1158.119	.1100134	.0233886
#2	.5330671	.0042911	.0032616	1156.653	.1123944	.0237446
#3	.5397723	.0044254	.0033159	1168.740	.1155302	.0240088

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0595277**	**83.59988**	**1.568465**	**48.92222**	**.0618684**	**-.001418**
Stddev	.0004899	1.67527	.008420	.19351	.0007391	.000656
%RSD	.8229658	2.003913	.5368094	.3955404	1.194642	46.23542
#1	.0600570	82.12959	1.570402	48.97627	.0610330	-.001276
#2	.0594359	83.24635	1.559245	48.70743	.0621351	-.002133
#3	.0590902	85.42370	1.575747	49.08295	.0624372	-.000845

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.507662**	**.1419489**	**.1274811**	**12.48028**	**.2189668**	**.0037952**
Stddev	.160494	.0020763	.0020296	.32665	.0055928	.0004158
%RSD	2.137732	1.462697	1.592093	2.617333	2.554175	10.95604
#1	7.384556	.1399591	.1259174	12.14612	.2134771	.0042616
#2	7.449248	.1441020	.1267510	12.49587	.2187660	.0034631
#3	7.689181	.1417856	.1297747	12.79886	.2246572	.0036611

Sample Name: Q3800-02 Acquired: 12/9/2025 22:47:08 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0284135	3.798453	3.918448	.4702818	F 36.01504	-.110508
Stddev	.0006271	.017448	.075096	.0029276	.32565	.001766
%RSD	2.207033	.4593398	1.916480	.6225295	.9042105	1.597944
#1	.0286697	3.808116	3.855016	.4703851	35.97771	-.108755
#2	.0276988	3.778311	3.898961	.4673039	35.70967	-.110481
#3	.0288719	3.808931	4.001366	.4731565	36.35775	-.112287

Elem	Sr4077
Units	ppm
Avg	7.963267
Stddev	.067134
%RSD	.8430492
#1	7.976203
#2	7.890606
#3	8.022992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2739.347	54046.35	7642.251	2012.890	3216.444
Stddev	4.431	819.53	79.045	24.476	4.471
%RSD	.1617529	1.516339	1.034310	1.215961	.1390168
#1	2734.333	54674.06	7567.317	2035.228	3211.389
#2	2742.737	54345.78	7724.848	2016.715	3219.883
#3	2740.970	53119.22	7634.588	1986.727	3218.059

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3800-03 Acquired: 12/9/2025 22:51:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0793597**	**.0176882**	**.0870063**	**-.051478**	**-.006188**	**165.6437**
Stddev	.0019744	.0172635	.0034155	.008550	.005000	.7595
%RSD	2.487952	97.59886	3.925593	16.60932	80.81212	.4585346
#1	.0791812	.0370472	.0893566	-.043475	-.010944	164.7679
#2	.0774805	.0121260	.0885741	-.060486	-.000975	166.0409
#3	.0814173	.0038915	.0830884	-.050473	-.006644	166.1222

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6855615**	**.0119609**	**.0181428**	**1424.896**	**.9939623**	**.0831165**
Stddev	.0039883	.0001797	.0004711	18.631	.0171372	.0008242
%RSD	.5817622	1.502702	2.596633	1.307547	1.724131	.9916670
#1	.6809769	.0117786	.0181051	1404.603	1.007188	.0839981
#2	.6882321	.0119662	.0186317	1441.228	.974602	.0823652
#3	.6874754	.0121380	.0176917	1428.858	1.000097	.0829861

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0893546**	**278.1307**	**3.275148**	**82.43267**	**.1929162**	**-.007234**
Stddev	.0021602	5.1904	.019043	.37408	.0012616	.000345
%RSD	2.417601	1.866181	.5814466	.4537966	.6539622	4.775792
#1	.0885409	281.6018	3.256885	82.04919	.1941778	-.006926
#2	.0918035	272.1638	3.294885	82.79657	.1929161	-.007169
#3	.0877194	280.6264	3.273673	82.45224	.1916546	-.007607

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.932899**	**.3222616**	**.5520179**	**14.14676**	**.3743620**	**.0054453**
Stddev	.118627	.0038840	.0113575	.25712	.0171247	.0006757
%RSD	1.999482	1.205224	2.057453	1.817492	4.574377	12.40836
#1	5.987541	.3182704	.5610905	14.23206	.3881093	.0055806
#2	5.796798	.3260286	.5392804	13.85783	.3551792	.0060432
#3	6.014359	.3224859	.5556828	14.35038	.3797975	.0047123

Sample Name: Q3800-03 Acquired: 12/9/2025 22:51:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	.0014268	4.583100	2.883882	1.045618	F 54.21851	.0070378
Stddev	.0035866	.025790	.077858	.010344	.32354	.0026996
%RSD	251.3761	.5627279	2.699758	.9892695	.5967307	38.35850
#1	-.002413	4.554061	2.898296	1.057552	54.55330	.0089577
#2	.002002	4.603339	2.799825	1.040081	54.19468	.0039511
#3	.004691	4.591899	2.953526	1.039221	53.90755	.0082048

Elem	Sr4077
Units	ppm
Avg	8.771636
Stddev	.102048
%RSD	1.163390
#1	8.676098
#2	8.879140
#3	8.759670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2828.147	57999.60	7779.559	2153.588	3074.040
Stddev	16.831	972.64	53.107	39.886	19.675
%RSD	.5951416	1.676981	.6826416	1.852089	.6400479
#1	2808.944	57252.56	7815.600	2127.927	3051.927
#2	2835.152	59099.39	7718.572	2199.540	3080.580
#3	2840.344	57646.84	7804.504	2133.297	3089.612

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3801-01 Acquired: 12/9/2025 22:55:57 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1303392**	**.0008390**	**.4768203**	**-.025100**	**-.012400**	**84.21787**	**.4005165**
Stddev	.0030858	.0072058	.0041777	.003009	.002648	1.27908	.0052106
%RSD	2.367524	858.8631	.8761575	11.98893	21.35423	1.518776	1.300958
#1	.1329425	-.004568	.4790897	-.025013	-.013585	82.75054	.3945550
#2	.1269305	.009019	.4793722	-.022135	-.009367	84.80575	.4027939
#3	.1311445	-.001934	.4719991	-.028151	-.014249	85.09732	.4042007

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090196**	**.0099984**	**244.3820**	**.1878316**	**.0580360**	**.1429318**	**249.2377**
Stddev	.0000807	.0002568	3.6856	.0019870	.0002068	.0015855	1.7790
%RSD	.8947807	2.568003	1.508151	1.057847	.3564055	1.109268	.7137745
#1	.0089546	.0102534	240.1331	.1880220	.0577972	.1423884	248.2235
#2	.0089943	.0100018	246.2957	.1857563	.0581486	.1447176	248.1978
#3	.0091100	.0097399	246.7171	.1897165	.0581620	.1416895	251.2919

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.356518**	**129.2138**	**.1075300**	**.0032134**	**.8756501**	**.3887455**	**.6276260**
Stddev	.021874	2.0161	.0013924	.0003328	.0065909	.0023428	.0061332
%RSD	1.612511	1.560274	1.294847	10.35761	.7526888	.6026474	.9772047
#1	1.331339	126.8859	.1090627	.0033600	.8686146	.3866931	.6279516
#2	1.370838	130.3924	.1071842	.0034477	.8766546	.3882455	.6213366
#3	1.367377	130.3632	.1063432	.0028324	.8816811	.3912979	.6335900

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.61624**	**.3146019**	**.0057534**	**.0100793**	**1.196111**	**3.018011**	**.6526450**
Stddev	.16954	.0051189	.0001086	.0011867	.022139	.006330	.0019534
%RSD	.9624083	1.627121	1.888279	11.77337	1.850947	.2097325	.2993055
#1	17.44972	.3170900	.0057625	.0109383	1.170814	3.021682	.6544206
#2	17.61034	.3087144	.0058572	.0087253	1.211955	3.010702	.6529619
#3	17.78865	.3180011	.0056405	.0105744	1.205564	3.021648	.6505525

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3801-01 Acquired: 12/9/2025 22:55:57 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.847971**	**.0616930**	**-.051697**
Stddev	.013556	.0012047	.002438
%RSD	.4759929	1.952681	4.716500
#1	2.863275	.0608836	-.053720
#2	2.837470	.0630774	-.048990
#3	2.843169	.0611179	-.052382

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3054.324**	**60984.42**	**8673.620**	**2259.286**	**3570.150**
Stddev	5.927	385.09	78.891	23.566	12.431
%RSD	.1940414	.6314600	.9095561	1.043083	.3482013
#1	3055.170	60838.01	8764.704	2258.836	3563.668
#2	3048.020	61421.24	8626.792	2283.075	3562.300
#3	3059.782	60694.00	8629.363	2235.949	3584.483

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3801-06 Acquired: 12/9/2025 23:00:03 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.1024099**	**.0044198**	**.3712816**	**-.018932**	**-.011383**	**60.52665**	**.2944130**
Stddev	.0037317	.0073974	.0008465	.003347	.002064	.30743	.0023131
%RSD	3.643905	167.3710	.2279845	17.67674	18.13262	.5079319	.7856549
#1	.1048133	-.000764	.3722043	-.022711	-.009584	60.71303	.2968193
#2	.0981109	.001133	.3710994	-.016343	-.010929	60.17181	.2922061
#3	.1043056	.012891	.3705410	-.017743	-.013636	60.69511	.2942135

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079191**	**.0070161**	**14.94025**	**.1725439**	**.0479633**	**.1304345**	**187.3398**
Stddev	.0000366	.0000746	.06953	.0006782	.0002323	.0018990	1.5362
%RSD	.4625896	1.063135	.4654122	.3930616	.4842539	1.455916	.8200228
#1	.0079086	.0069723	14.99667	.1729742	.0477081	.1287404	189.0358
#2	.0078889	.0069737	14.86257	.1728953	.0480195	.1300759	186.9420
#3	.0079598	.0071022	14.96152	.1717621	.0481624	.1324873	186.0415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9342837**	**12.89225**	**.0922016**	**-.001296**	**.7742857**	**.3322470**	**.5514464**
Stddev	.0054791	.05735	.0008100	.000560	.0239842	.0014589	.0024054
%RSD	.5864512	.4448181	.8785553	43.22232	3.097593	.4391065	.4361947
#1	.9405858	12.87899	.0920329	-.000656	.7962957	.3338713	.5531838
#2	.9306494	12.84270	.0914892	-.001699	.7778379	.3318218	.5524544
#3	.9316158	12.95507	.0930827	-.001534	.7487235	.3310479	.5487010

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.63777**	**.1820768**	**.0061830**	**.0025813**	**1.033687**	**2.832285**	**.4183114**
Stddev	.12402	.0023933	.0003020	.0007392	.008389	.016413	.0011538
%RSD	1.065631	1.314437	4.884225	28.63677	.8115321	.5794984	.2758147
#1	11.77995	.1844350	.0065198	.0019327	1.043372	2.847458	.4186924
#2	11.58145	.1821454	.0060929	.0033861	1.028976	2.814863	.4170153
#3	11.55191	.1796500	.0059364	.0024251	1.028713	2.834533	.4192264

Sample Name: Q3801-06 Acquired: 12/9/2025 23:00:03 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.152604**	**.0754970**	**-.101190**
Stddev	.009721	.0006528	.000798
%RSD	.4515878	.8647409	.7881156
#1	2.163721	.0761995	-.101925
#2	2.148387	.0753825	-.101303
#3	2.145703	.0749089	-.100342

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3246.226**	**64805.77**	**8317.721**	**2402.921**	**4058.124**
Stddev	10.150	416.06	33.508	14.241	9.941
%RSD	.3126644	.6420066	.4028484	.5926465	.2449694
#1	3248.780	64343.16	8281.097	2393.782	4063.219
#2	3254.854	64924.83	8346.840	2395.652	4064.485
#3	3235.043	65149.32	8325.226	2419.330	4046.668

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-01 Acquired: 12/9/2025 23:04:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0715251**	**.0178805**	**.3052166**	**-.013464**	**-.008138**	**119.3782**	**.4030625**
Stddev	.0032741	.0019768	.0029782	.002848	.002922	1.9503	.0059065
%RSD	4.577482	11.05585	.9757653	21.15638	35.90229	1.633748	1.465403
#1	.0720315	.0158123	.3017951	-.016716	-.011463	117.1263	.3968016
#2	.0745165	.0180781	.3072263	-.012263	-.005979	120.5258	.4085354
#3	.0680274	.0197511	.3066286	-.011413	-.006973	120.4826	.4038504

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054715**	**.0052178**	**43.46574**	**.1979030**	**.0772543**	**.3250203**	**180.0044**
Stddev	.0001536	.0002152	.66715	.0046368	.0007568	.0017504	5.3435
%RSD	2.808066	4.124009	1.534892	2.342953	.9796408	.5385628	2.968565
#1	.0053515	.0054454	42.69672	.1926869	.0764603	.3231509	174.0555
#2	.0054185	.0050176	43.81102	.2015570	.0773354	.3252893	184.3971
#3	.0056447	.0051904	43.88950	.1994652	.0779674	.3266206	181.5605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.668012**	**17.48928**	**.1243660**	**.0028098**	**2.796304**	**.3217173**	**.4727403**
Stddev	.021493	.30065	.0018082	.0006890	.094843	.0037404	.0106521
%RSD	1.288522	1.719053	1.453945	24.52251	3.391735	1.162638	2.253271
#1	1.643440	17.14300	.1224335	.0020208	2.695946	.3174666	.4622472
#2	1.677278	17.64101	.1246478	.0031153	2.884449	.3245055	.4835446
#3	1.683317	17.68382	.1260169	.0032932	2.808516	.3231799	.4724291

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.733088**	**.2367400**	**.0055032**	**-.002535**	**2.202419**	**2.743050**	**.3550697**
Stddev	.211302	.0117587	.0000576	.001415	.033069	.091010	.0039479
%RSD	3.138266	4.966905	1.046326	55.82002	1.501483	3.317845	1.111864
#1	6.501645	.2237692	.0054729	-.002644	2.164245	2.648914	.3505496
#2	6.915699	.2467017	.0054671	-.003892	2.222300	2.830574	.3568172
#3	6.781920	.2397490	.0055696	-.001068	2.220712	2.749663	.3578422

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-01 Acquired: 12/9/2025 23:04:10 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**1.473876**	**.0801054**	**.0702181**
Stddev	.014468	.0017223	.0025347
%RSD	.9816171	2.149999	3.609749
#1	1.457643	.0781384	.0727269
#2	1.485409	.0808352	.0676583
#3	1.478576	.0813426	.0702691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3190.464**	**61678.72**	**8635.343**	**2323.571**	**3890.564**
Stddev	30.717	1328.56	72.163	42.461	40.930
%RSD	.9627861	2.154006	.8356664	1.827393	1.052036
#1	3225.886	63137.81	8704.568	2372.439	3937.815
#2	3171.167	60538.85	8640.897	2295.695	3866.049
#3	3174.339	61359.49	8560.564	2302.579	3867.828

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV12 Acquired: 12/9/2025 23:20:53 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.829224**	**5.033220**	**4.786441**	**4.921531**	**4.973332**	**9.593280**	**9.956091**
Stddev	.021913	.116307	.022614	.023292	.019511	.072747	.188762
%RSD	.4537682	2.310793	.4724555	.4732633	.3923097	.7583092	1.895948
#1	4.818857	5.064796	4.771928	4.927940	4.960060	9.513420	9.740673
#2	4.814418	4.904385	4.774898	4.895706	4.964201	9.610652	10.09257
#3	4.854397	5.130478	4.812497	4.940948	4.995734	9.655768	10.03503

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2506599**	**2.369849**	**23.72616**	**.9431640**	**2.408520**	**1.242531**	**5.040144**
Stddev	.0007405	.008346	.09859	.0025967	.008677	.005260	.017545
%RSD	.2954018	.3521912	.4155535	.2753180	.3602661	.4233511	.3481046
#1	.2512601	2.366846	23.62237	.9461585	2.403329	1.239096	5.049245
#2	.2508872	2.363420	23.81857	.9415329	2.403692	1.239910	5.019919
#3	.2498325	2.379281	23.73755	.9418008	2.418537	1.248587	5.051269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.398768**	**23.42479**	**2.395775**	**1.220852**	**25.47343**	**2.395188**	**2.467296**
Stddev	.006619	.22697	.008122	.000390	.08950	.010371	.003609
%RSD	.2759484	.9689250	.3390305	.0319194	.3513652	.4329886	.1462692
#1	2.393124	23.17096	2.393001	1.221300	25.39944	2.383360	2.470049
#2	2.397126	23.60823	2.389403	1.220589	25.44794	2.399483	2.468629
#3	2.406054	23.49517	2.404921	1.220667	25.57292	2.402721	2.463210

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.96777**	**4.800517**	**4.883284**	**4.750514**	**4.837131**	**5.085149**	**4.862707**
Stddev	.10212	.011791	.016576	.023957	.015578	.063172	.022421
%RSD	.4090202	.2456232	.3394379	.5043055	.3220486	1.242274	.4610861
#1	24.87518	4.805505	4.877432	4.748326	4.820863	5.020091	4.851111
#2	24.95083	4.808995	4.870429	4.727727	4.838616	5.089108	4.848458
#3	25.07730	4.787052	4.901992	4.775491	4.851913	5.146248	4.888551

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV12 Acquired: 12/9/2025 23:20:53 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.814310**	**4.762515**	**4.871262**
Stddev	.013083	.019627	.027244
%RSD	.2717589	.4121041	.5592723
#1	4.814705	4.741321	4.864450
#2	4.801034	4.766163	4.901265
#3	4.827191	4.780062	4.848071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2907.344**	**57423.99**	**7539.749**	**2209.431**	**3826.162**
Stddev	4.550	96.83	6.924	4.898	5.649
%RSD	.1565155	.1686154	.0918310	.2217033	.1476445
#1	2909.929	57341.26	7533.147	2206.523	3827.850
#2	2910.014	57530.49	7539.146	2215.087	3830.775
#3	2902.090	57400.23	7546.955	2206.684	3819.861

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB12 Acquired: 12/9/2025 23:25:04 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033846**	**.0054644**	**.0004580**	**-.001079**	**.0000596**	**-.001122**	**-.001865**
Stddev	.0022881	.0037731	.0012235	.001790	.0008409	.005375	.000603
%RSD	67.60497	69.04969	267.1236	165.8754	1411.961	479.0579	32.36071
#1	.0047563	.0090150	.0011199	-.002096	-.000894	.004648	-.001305
#2	.0007431	.0015025	.0012080	.000987	.000378	-.002028	-.001784
#3	.0046542	.0058756	-.000954	-.002128	.000695	-.005986	-.002504

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000066**	**-.000031**	**.0026156**	**-.000002**	**.0000059**	**.0000894**	**-.005471**
Stddev	.0000202	.000049	.0127825	.000330	.0001209	.0000386	.005114
%RSD	307.6990	158.1596	488.6961	17277.89	2064.022	43.20832	93.47141
#1	-.000017	-.000080	-.005985	-.000103	.0000537	.0001059	-.010224
#2	.000017	-.000029	.017304	-.000269	-.000132	.0001171	-.000059
#3	.000019	.000017	-.003472	.000367	.000095	.0000453	-.006131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000164**	**-.005684**	**.0001749**	**-.000948**	**.0252544**	**.0011041**	**-.000251**
Stddev	.000410	.026089	.0007616	.000239	.0280442	.0022965	.000231
%RSD	249.9524	458.9862	435.4805	25.22428	111.0469	208.0034	91.96715
#1	-.000401	.019165	-.000310	-.000883	.0066463	.0012822	-.000341
#2	-.000400	-.032857	-.000218	-.000749	.0116067	.0033064	-.000424
#3	.000309	-.003360	.001053	-.001213	.0575102	-.001276	.000011

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0423601**	**.0033614**	**-.000130**	**-.017548**	**.0008452**	**.0038193**	**.0005860**
Stddev	.0469592	.0004006	.000155	.000306	.0003195	.0169789	.0001347
%RSD	110.8572	11.91874	119.1038	1.745748	37.80351	444.5535	22.97738
#1	.0126760	.0033270	.000031	-.017810	.0009511	.0230488	.0005610
#2	.0964998	.0029791	-.000278	-.017211	.0004862	-.002486	.0007315
#3	.0179044	.0037782	-.000143	-.017623	.0010984	-.009105	.0004657

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB12 Acquired: 12/9/2025 23:25:04 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.013871	-.000385	.0001193
Stddev	.004885	.001611	.0001216
%RSD	35.21769	418.8956	101.9780
#1	-.012656	-.001659	.0002589
#2	-.019249	-.000921	.0000366
#3	-.009708	.001426	.0000622

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3035.316	59513.40	7403.512	2270.499	4294.072
Stddev	30.230	574.95	58.934	26.736	43.585
%RSD	.9959394	.9660924	.7960266	1.177556	1.014994
#1	3020.092	59934.44	7470.332	2284.788	4267.182
#2	3015.724	59747.42	7381.266	2287.054	4270.674
#3	3070.131	58858.34	7358.940	2239.654	4344.359

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-03 Acquired: 12/9/2025 23:29:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0682156**	**.0111576**	**.3234748**	**-.019408**	**-.014170**	**171.9730**	**.4282508**
Stddev	.0066608	.0046273	.0003005	.005028	.002183	2.4796	.0067807
%RSD	9.764298	41.47201	.0929044	25.90679	15.40469	1.441868	1.583336
#1	.0606031	.0160757	.3232331	-.014478	-.016166	169.1829	.4212502
#2	.0710712	.0105069	.3238113	-.019217	-.014504	172.8113	.4287146
#3	.0729724	.0068901	.3233799	-.024529	-.011839	173.9248	.4347877

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071550**	**.0094312**	**51.75818**	**.2299568**	**.1179848**	**.3644615**	**237.6117**
Stddev	.0000965	.0002462	.73338	.0007222	.0005489	.0021479	2.7578
%RSD	1.348543	2.610672	1.416934	.3140671	.4652470	.5893464	1.160625
#1	.0070446	.0096809	50.96607	.2291389	.1173910	.3669366	234.4862
#2	.0071973	.0094241	51.89489	.2302247	.1180897	.3630867	238.6463
#3	.0072232	.0091886	52.41359	.2305068	.1184738	.3633611	239.7025

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.805960**	**40.63601**	**.2169696**	**.0025303**	**3.496105**	**.4227439**	**.6284104**
Stddev	.042299	.53182	.0002353	.0011938	.054215	.0053411	.0012383
%RSD	1.507457	1.308729	.1084277	47.17904	1.550713	1.263434	.1970586
#1	2.761296	40.03417	.2171251	.0011708	3.442074	.4178042	.6297147
#2	2.811175	40.83123	.2170847	.0030127	3.495738	.4220157	.6282656
#3	2.845410	41.04263	.2166989	.0034073	3.550502	.4284117	.6272508

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.063888**	**1.244448**	**.0054534**	**.0022544**	**2.728904**	**2.791307**	**.5235054**
Stddev	.108018	.010114	.0002645	.0012200	.044444	.029210	.0006983
%RSD	1.191741	.8127548	4.850009	54.11645	1.628636	1.046452	.1333938
#1	8.939733	1.234950	.0056549	.0020824	2.680175	2.760183	.5230961
#2	9.115621	1.243311	.0051539	.0035512	2.739326	2.818123	.5243117
#3	9.136311	1.255082	.0055514	.0011295	2.767211	2.795615	.5231084

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-03 Acquired: 12/9/2025 23:29:24 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**1.666105**	**.1561982**	**-.002576**
Stddev	.004367	.0026365	.001160
%RSD	.2620875	1.687932	45.00663
#1	1.664999	.1535779	-.002981
#2	1.670919	.1561660	-.003479
#3	1.662398	.1588506	-.001269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.276**	**64399.38**	**8815.640**	**2433.522**	**3763.614**
Stddev	3.602	178.30	55.243	9.966	3.708
%RSD	.1109849	.2768655	.6266430	.4095428	.0985288
#1	3243.077	64604.87	8866.839	2443.056	3767.735
#2	3249.433	64307.66	8822.990	2434.336	3760.545
#3	3243.320	64285.62	8757.090	2423.173	3762.561

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-04 Acquired: 12/9/2025 23:33:30 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0489510**	**.0158337**	**.7955279**	**-.015829**	**-.011309**	**131.9072**	**.4600491**
Stddev	.0029901	.0037216	.0071088	.003824	.001366	2.3480	.0081531
%RSD	6.108396	23.50441	.8936013	24.15792	12.07635	1.780044	1.772223
#1	.0468488	.0201167	.7952522	-.011609	-.010042	129.2000	.4512467
#2	.0523741	.0133878	.8027707	-.019065	-.011131	133.1328	.4615588
#3	.0476301	.0139967	.7885610	-.016813	-.012755	133.3887	.4673419

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059224**	**.0062115**	**57.36116**	**.1775336**	**.0794021**	**.2378978**	**182.5236**
Stddev	.0000682	.0001807	.94825	.0008787	.0007963	.0035451	1.9942
%RSD	1.150861	2.908962	1.653123	.4949532	1.002841	1.490186	1.092579
#1	.0058802	.0063092	56.27056	.1765671	.0793622	.2404103	180.2488
#2	.0058859	.0063222	57.82209	.1782843	.0802177	.2394404	183.3510
#3	.0060010	.0060030	57.99083	.1777494	.0786266	.2338427	183.9709

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.854000**	**22.01365**	**.1296744**	**.0033014**	**3.190855**	**.3326722**	**.8015438**
Stddev	.031589	.37069	.0010447	.0010362	.044508	.0075122	.0032895
%RSD	1.703829	1.683903	.8055949	31.38675	1.394854	2.258125	.4103934
#1	1.818948	21.58570	.1295515	.0023438	3.139524	.3245181	.7998471
#2	1.862788	22.21998	.1307751	.0031589	3.218717	.3341867	.7994491
#3	1.880265	22.23526	.1286967	.0044015	3.214323	.3393117	.8053352

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.829824**	**.2314658**	**.0034592**	**.0059636**	**2.085583**	**3.671769**	**.3193043**
Stddev	.077155	.0027404	.0000873	.0008725	.039686	.054346	.0011560
%RSD	.8738043	1.183920	2.524540	14.63078	1.902887	1.480091	.3620437
#1	8.745108	.2284545	.0033852	.0050052	2.040257	3.609017	.3190232
#2	8.896064	.2321298	.0035555	.0067118	2.102401	3.703010	.3205750
#3	8.848301	.2338132	.0034369	.0061738	2.114091	3.703281	.3183147

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-04 Acquired: 12/9/2025 23:33:30 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.105397**	**.0900829**	**.1612231**
Stddev	.006009	.0010579	.0032947
%RSD	.2854194	1.174377	2.043560
#1	2.110243	.0891227	.1575652
#2	2.107276	.0899089	.1621468
#3	2.098673	.0912170	.1639574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3184.587**	**62665.27**	**8617.067**	**2332.795**	**3922.445**
Stddev	14.197	254.03	99.130	11.246	22.336
%RSD	.4458147	.4053681	1.150388	.4820877	.5694322
#1	3175.612	62956.34	8723.184	2339.461	3911.800
#2	3177.193	62488.31	8601.172	2339.113	3907.422
#3	3200.955	62551.17	8526.846	2319.810	3948.111

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-06 Acquired: 12/9/2025 23:37:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**.0515419**	**.0125939**	**.6648019**	**-.013829**	**-.011413**	**150.5689**	**.4296446**
Stddev	.0052812	.0016691	.0033381	.005665	.002081	3.3387	.0077432
%RSD	10.24644	13.25307	.5021205	40.96731	18.23246	2.217362	1.802243
#1	.0514372	.0111720	.6609751	-.016640	-.010154	146.9530	.4212240
#2	.0568747	.0144316	.6671147	-.007308	-.013815	151.2189	.4312515
#3	.0463138	.0121782	.6663159	-.017539	-.010271	153.5348	.4364584

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063842**	**.0070710**	**52.40445**	**.1738395**	**.0865466**	**.2993693**	**198.9132**
Stddev	.0001946	.0002323	1.06500	.0011858	.0004524	.0009472	1.0647
%RSD	3.047318	3.284618	2.032268	.6821073	.5227694	.3163860	.5352705
#1	.0061632	.0069759	51.25751	.1749123	.0862553	.2983808	198.1907
#2	.0064601	.0069014	52.59371	.1740399	.0863166	.2994584	200.1360
#3	.0065294	.0073357	53.36214	.1725663	.0870678	.3002688	198.4130

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.958712**	**23.03421**	**.1409501**	**.0029618**	**3.288073**	**.3384581**	**.7257605**
Stddev	.038175	.50636	.0004051	.0005421	.022477	.0059235	.0028946
%RSD	1.948961	2.198278	.2873969	18.30174	.6835963	1.750142	.3988305
#1	1.917851	22.52046	.1406293	.0025212	3.274356	.3316847	.7277716
#2	1.964821	23.04934	.1408156	.0035671	3.314013	.3410206	.7270669
#3	1.993464	23.53283	.1414053	.0027971	3.275849	.3426689	.7224431

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.628213**	**.2346406**	**.0030835**	**.0017173**	**1.853401**	**3.014704**	**.4009675**
Stddev	.072416	.0060846	.0005641	.0004645	.037002	.018151	.0025318
%RSD	.8392966	2.593171	18.29351	27.05011	1.996459	.6020732	.6314163
#1	8.589255	.2379828	.0024454	.0022536	1.812405	3.012913	.3997121
#2	8.711768	.2383217	.0035156	.0014409	1.863478	3.033684	.3993086
#3	8.583615	.2276174	.0032897	.0014573	1.884322	2.997515	.4038816

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: Q3806-06 Acquired: 12/9/2025 23:37:36 Type: Unk
Method: 6010-200.7 NEW(v394) 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	**2.672824**	**.0997878**	**.0985469**
Stddev	.018376	.0018964	.0053744
%RSD	.6874971	1.900411	5.453600
#1	2.663398	.0978967	.0931661
#2	2.661073	.0997772	.0985600
#3	2.693999	.1016894	.1039148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3161.369**	**61661.01**	**8551.328**	**2313.525**	**3852.716**
Stddev	9.318	282.28	129.190	6.764	6.463
%RSD	.2947582	.4577932	1.510754	.2923798	.1677391
#1	3157.557	61465.24	8678.548	2306.791	3852.657
#2	3154.561	61533.21	8555.183	2313.466	3846.284
#3	3171.989	61984.59	8420.255	2320.319	3859.208

Sample Name: CCV13 Acquired: 12/9/2025 23:41:41 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.015347**	**5.348832**	**4.901493**	**5.115979**	**5.107682**	**9.731264**	**9.687817**
Stddev	.027477	.181847	.012860	.033799	.030005	.039901	.146379
%RSD	.5478525	3.399753	.2623712	.6606517	.5874513	.4100321	1.510964
#1	5.041238	5.410676	4.914610	5.148572	5.142260	9.691414	9.578491
#2	4.986520	5.144129	4.888907	5.081091	5.088504	9.731162	9.630843
#3	5.018283	5.491691	4.900963	5.118272	5.092282	9.771216	9.854117

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2515915**	**2.436093**	**23.81489**	**.9658038**	**2.467249**	**1.273672**	**4.960883**
Stddev	.0019494	.007062	.03902	.0053726	.007212	.007293	.028073
%RSD	.7748315	.2899058	.1638417	.5562812	.2922939	.5725642	.5658888
#1	.2538308	2.442973	23.78203	.9680432	2.475230	1.282023	4.966777
#2	.2502735	2.428862	23.80461	.9696944	2.461202	1.270431	4.985540
#3	.2506702	2.436444	23.85801	.9596738	2.465315	1.268561	4.930330

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.353661**	**23.67456**	**2.454780**	**1.220450**	**24.75978**	**2.417043**	**2.487379**
Stddev	.005315	.07961	.007033	.003859	.12618	.003929	.013663
%RSD	.2258364	.3362640	.2865170	.3161840	.5096358	.1625667	.5492739
#1	2.358291	23.63827	2.462489	1.222418	24.70172	2.414147	2.488405
#2	2.354834	23.61957	2.448713	1.222928	24.90455	2.415468	2.500499
#3	2.347857	23.76585	2.453137	1.216004	24.67309	2.421516	2.473232

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.78634**	**4.782319**	**5.043927**	**4.889323**	**4.820174**	**5.150576**	**4.920517**
Stddev	.17673	.035626	.032282	.027526	.006506	.053776	.025611
%RSD	.7130308	.7449461	.6400114	.5629793	.1349822	1.044074	.5204864
#1	24.64969	4.823378	5.081058	4.914381	4.826197	5.100371	4.948048
#2	24.98592	4.759597	5.022516	4.859860	4.821051	5.207324	4.897401
#3	24.72339	4.763983	5.028207	4.893728	4.813273	5.144033	4.916100

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCV13 Acquired: 12/9/2025 23:41:41 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.967903**	**4.709357**	**4.837433**
Stddev	.059365	.011369	.034873
%RSD	1.194966	.2414226	.7209061
#1	4.982373	4.719197	4.818726
#2	4.902641	4.711963	4.815905
#3	5.018695	4.696911	4.877668

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.767**	**57566.72**	**7584.156**	**2145.386**	**3783.454**
Stddev	17.508	199.93	60.580	2.209	15.147
%RSD	.6122259	.3473049	.7987741	.1029751	.4003602
#1	2842.023	57375.95	7517.088	2146.923	3766.854
#2	2860.247	57549.51	7634.905	2146.381	3786.980
#3	2877.030	57774.70	7600.475	2142.854	3796.527

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB13 Acquired: 12/9/2025 23:45:52 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027031**	**.0106599**	**-.000360**	**-.003167**	**-.001735**	**-.007640**	**-.002218**
Stddev	.0024227	.0049477	.001577	.003363	.001192	.008502	.000485
%RSD	89.62512	46.41447	437.9746	106.1803	68.73105	111.2768	21.84949
#1	.0006040	.0057805	.001306	-.006596	-.001777	-.009217	-.002270
#2	.0021513	.0156733	-.001829	.000125	-.000522	.001540	-.002674
#3	.0053541	.0105259	-.000557	-.003030	-.002905	-.015243	-.001709

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000326**	**.0000922**	**.0112236**	**.0001407**	**.0000067**	**-.000185**	**-.008440**
Stddev	.0001418	.0000990	.0011906	.0001691	.0000891	.000242	.003244
%RSD	434.5026	107.3301	10.60770	120.2320	1324.507	131.1789	38.43656
#1	.0000698	-.000021	.0104944	.0003082	.0001094	-.000451	-.007531
#2	.0001521	.000161	.0105789	-.000030	-.000050	-.000124	-.005748
#3	-.000124	.000137	.0125974	.000144	-.000039	.000021	-.012042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000570**	**.0061527**	**-.000125**	**-.001747**	**.0012211**	**.0004986**	**-.000297**
Stddev	.000471	.0040533	.000351	.000445	.0234638	.0005608	.000107
%RSD	82.65180	65.87953	280.6138	25.44923	1921.556	112.4709	36.06363
#1	-.001113	.0050841	.000279	-.001992	-.025848	.0000505	-.000318
#2	-.000327	.0027407	-.000311	-.002015	.013757	.0003179	-.000393
#3	-.000271	.0106333	-.000343	-.001234	.015755	.0011275	-.000181

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045468**	**.0031754**	**-.000037**	**-.016300**	**.0007666**	**.0097652**	**.0006833**
Stddev	.0435698	.0009353	.000171	.000408	.0012719	.0084258	.0002209
%RSD	958.2441	29.45572	464.0121	2.500094	165.9100	86.28361	32.32308
#1	-.015230	.0038498	.000159	-.016583	.0019532	.0008147	.0007997
#2	-.025627	.0035688	-.000117	-.016485	-.000576	.0109375	.0008217
#3	.054498	.0021076	-.000152	-.015833	.000923	.0175435	.0004286

Reviewed By:mohan
On:12/11/2025 9:29:41 AM
Inst Id :P4
LB :LB138174

Sample Name: CCB13 Acquired: 12/9/2025 23:45:52 Type: Unk
Method: 6010-200.7 NEW(v394) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.014415	-.000882	.0002613
Stddev	.001517	.000269	.0001203
%RSD	10.52077	30.45368	46.03588
#1	-.015992	-.000959	.0003764
#2	-.012968	-.000583	.0002713
#3	-.014286	-.001104	.0001364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.690	59896.01	7975.270	2259.203	4248.950
Stddev	2.863	1659.09	98.113	61.975	5.728
%RSD	.0948053	2.769945	1.230215	2.743219	.1348029
#1	3016.882	58124.00	8087.646	2198.807	4242.431
#2	3019.582	61412.54	7931.528	2322.644	4251.244
#3	3022.605	60151.49	7906.636	2256.159	4253.176

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170827

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 12/04/2025 **Time :** 11:35 **Temp :** 96 °C

End Digest Date: 12/04/2025 **Time :** 14:40 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6209
LFS-2	0.25	M6201
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	3.00	M6187
1:1 HCL	5.00	MP87148
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/04/25 15:40	SLS met dig	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170827

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB170827BL	PBW827	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22
PB170827BS	LCS827	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	23
Q3764-01	MC0KD3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
Q3764-02	MC0KD4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	25
Q3764-03	MC0KD5	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	26
Q3764-04	MC0KD6	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	27
Q3764-05	MC0KD8	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
Q3764-06	MC0KD9	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	29
Q3764-07	MC0KE0	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	30
Q3764-08	MC0KE1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
Q3764-09	MC0KE2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	32
Q3764-10	MC0KE4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	33
Q3764-10DUP	MC0KE4DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	34
Q3764-11	MC0KE4MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	35
Q3764-12	MC0KE4MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	36
Q3764-13	MC0KF2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	37
Q3764-14	MC0KF4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	38

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB170827 **WorkList ID :** 193477 **Department :** Digestion **Date :** 12-04-2025 10:46:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3764-01	MC0KD3	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-02	MC0KD4	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-03	MC0KD5	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-04	MC0KD6	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-05	MC0KD8	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-06	MC0KD9	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-07	MC0KE0	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-08	MC0KE1	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-09	MC0KE2	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-10	MC0KE4	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-11	MC0KE4MS	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-12	MC0KE4MSD	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-13	MC0KF2	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D
Q3764-14	MC0KF4	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	TETR16	A11	11/25/2025	6010D

Date/Time 12/04/2025 11:05
Raw Sample Received by: SKJ metdlg
Raw Sample Relinquished by: CPSm

Date/Time 12/04/2025 12:05
Raw Sample Received by: CPCSMJ
Raw Sample Relinquished by: SKJ metdlg

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 # LB138174

Review By	jaswal	Review On	12/10/2025 1:30:05 PM
Supervise By	mohan	Supervise On	12/11/2025 9:29:41 AM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/09/25 11:38		Jaswal	OK
2	S1	S1	CAL2	12/09/25 11:43		Jaswal	OK
3	S2	S2	CAL3	12/09/25 11:47		Jaswal	OK
4	S3	S3	CAL4	12/09/25 11:51		Jaswal	OK
5	S4	S4	CAL5	12/09/25 11:55		Jaswal	OK
6	S5	S5	CAL6	12/09/25 11:59		Jaswal	OK
7	ICV01	ICV01	ICV	12/09/25 12:15		Jaswal	OK
8	LLICV01	LLICV01	LLICV	12/09/25 12:19		Jaswal	OK
9	ICB01	ICB01	ICB	12/09/25 12:24		Jaswal	OK
10	CRI01	CRI01	CRDL	12/09/25 12:28		Jaswal	OK
11	ICSA01	ICSA01	ICSA	12/09/25 12:32		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	12/09/25 12:37		Jaswal	OK
13	ICSADL	ICSADL	ICSA	12/09/25 12:41		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	12/09/25 12:45		Jaswal	OK
15	CCV01	CCV01	CCV	12/09/25 12:49		Jaswal	OK
16	CCB01	CCB01	CCB	12/09/25 12:53		Jaswal	OK
17	PB170843BL	PB170843BL	MB	12/09/25 12:58		Jaswal	OK
18	PB170843BS	PB170843BS	LCS	12/09/25 13:02		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB138174

Review By	jaswal	Review On	12/10/2025 1:30:05 PM
Supervise By	mohan	Supervise On	12/11/2025 9:29:41 AM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

19	Q3781-01	OK-1242025-1	SAM	12/09/25 13:06		Jaswal	OK
20	Q3782-01	RT857	SAM	12/09/25 13:10		Jaswal	OK
21	Q3782-02	RT3449	SAM	12/09/25 13:15		Jaswal	OK
22	Q3782-03	RBR251673	SAM	12/09/25 13:19		Jaswal	OK
23	Q3782-03DUP	RBR251673DUP	DUP	12/09/25 13:23	Ca high	Jaswal	Dilution
24	Q3782-03L	RBR251673L	SD	12/09/25 13:28		Jaswal	OK
25	Q3782-03MS	RBR251673MS	MS	12/09/25 13:32	Ca high	Jaswal	Dilution
26	Q3782-03MSD	RBR251673MSD	MSD	12/09/25 13:36	Ca high	Jaswal	Dilution
27	CCV02	CCV02	CCV	12/09/25 13:41		Jaswal	OK
28	CCB02	CCB02	CCB	12/09/25 13:45		Jaswal	OK
29	LR-1	LR-1	HIGH STD	12/09/25 14:16		Jaswal	OK
30	LR-2	LR-2	HIGH STD	12/09/25 14:21		Jaswal	OK
31	LR-3	LR-3	HIGH STD	12/09/25 14:26		Jaswal	OK
32	Q3782-03A	RBR251673A	PS	12/09/25 14:39	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
33	Q3779-01	OILY STONE DRUM	SAM	12/09/25 14:43		Jaswal	OK
34	Q3780-01	PLASTIC SHEETING	SAM	12/09/25 14:48		Jaswal	OK
35	PB170827BL	PB170827BL	MB	12/09/25 14:52		Jaswal	OK
36	PB170827BS	PB170827BS	LCS	12/09/25 14:56		Jaswal	OK
37	Q3764-01	MC0KD3	SAM	12/09/25 15:00		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

38	Q3764-02	MC0KD4	SAM	12/09/25 15:04		Jaswal	OK
39	CCV03	CCV03	CCV	12/09/25 15:09		Jaswal	OK
40	CCB03	CCB03	CCB	12/09/25 15:13		Jaswal	OK
41	Q3764-03	MC0KD5	SAM	12/09/25 15:17		Jaswal	OK
42	Q3764-04	MC0KD6	SAM	12/09/25 15:22		Jaswal	OK
43	Q3764-05	MC0KD8	SAM	12/09/25 15:26		Jaswal	OK
44	Q3764-06	MC0KD9	SAM	12/09/25 15:30		Jaswal	OK
45	Q3764-07	MC0KE0	SAM	12/09/25 15:34		Jaswal	OK
46	Q3764-08	MC0KE1	SAM	12/09/25 15:39		Jaswal	OK
47	Q3764-09	MC0KE2	SAM	12/09/25 15:43		Jaswal	OK
48	Q3764-10	MC0KE4	SAM	12/09/25 15:47		Jaswal	OK
49	Q3764-10DUP	MC0KE4DUP	DUP	12/09/25 15:51		Jaswal	OK
50	Q3764-10L	MC0KE4L	SD	12/09/25 15:56		Jaswal	OK
51	CCV04	CCV04	CCV	12/09/25 16:00		Jaswal	OK
52	CCB04	CCB04	CCB	12/09/25 16:04		Jaswal	OK
53	Q3764-11	MC0KE4MS	MS	12/09/25 16:08		Jaswal	OK
54	Q3764-12	MC0KE4MSD	MSD	12/09/25 16:12		Jaswal	OK
55	Q3764-10A	MC0KE4A	PS	12/09/25 16:16	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
56	Q3764-13	MC0KF2	SAM	12/09/25 16:21		Jaswal	OK

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Supervise By	mohan	Supervise On	12/11/2025 9:29:41 AM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

57	Q3764-14	MC0KF4	SAM	12/09/25 16:25		Jaswal	OK
58	PB170820BL	PB170820BL	MB	12/09/25 16:29		Jaswal	OK
59	PB170820BS	PB170820BS	LCS	12/09/25 16:33		Jaswal	OK
60	Q3763-01	MC0KC9	SAM	12/09/25 16:37		Jaswal	OK
61	Q3763-02	MC0KD0	SAM	12/09/25 16:42		Jaswal	OK
62	Q3763-03	MC0KD1	SAM	12/09/25 16:46		Jaswal	OK
63	CCV05	CCV05	CCV	12/09/25 16:50		Jaswal	OK
64	CCB05	CCB05	CCB	12/09/25 16:54		Jaswal	OK
65	Q3763-04	MC0KD2	SAM	12/09/25 16:59		Jaswal	OK
66	Q3763-05	MC0KD7	SAM	12/09/25 17:03		Jaswal	OK
67	Q3763-06	MC0KE5	SAM	12/09/25 17:07		Jaswal	OK
68	Q3763-07	MC0KE6	SAM	12/09/25 17:11		Jaswal	OK
69	Q3763-08	MC0KE7	SAM	12/09/25 17:16		Jaswal	OK
70	Q3763-09	MC0KE8	SAM	12/09/25 17:20		Jaswal	OK
71	Q3763-10	MC0KE9	SAM	12/09/25 17:24		Jaswal	OK
72	Q3763-11	MC0KF1	SAM	12/09/25 17:28		Jaswal	OK
73	Q3763-11DUP	MC0KF1DUP	DUP	12/09/25 17:33		Jaswal	OK
74	Q3763-11L	MC0KF1L	SD	12/09/25 17:37		Jaswal	OK
75	CCV06	CCV06	CCV	12/09/25 17:41		Jaswal	OK
76	CCB06	CCB06	CCB	12/09/25 17:45		Jaswal	OK

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Supervise By	mohan	Supervise On	12/11/2025 9:29:41 AM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

77	Q3763-12	MC0KF1MS	MS	12/09/25 17:50		Jaswal	OK
78	Q3763-13	MC0KF1MSD	MSD	12/09/25 17:54		Jaswal	OK
79	Q3763-11A	MC0KF1A	PS	12/09/25 17:58	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
80	Q3763-14	MC0KF3	SAM	12/09/25 18:02		Jaswal	OK
81	Q3765-01	MC0KF5	SAM	12/09/25 18:14		Jaswal	OK
82	Q3765-02	MC0KF7	SAM	12/09/25 18:19		Jaswal	OK
83	Q3765-03	MC0KF9	SAM	12/09/25 18:23		Jaswal	OK
84	Q3765-04	MC0KG0	SAM	12/09/25 18:27		Jaswal	OK
85	CCV07	CCV07	CCV	12/09/25 18:31		Jaswal	OK
86	CCB07	CCB07	CCB	12/09/25 18:36		Jaswal	OK
87	Q3765-05	MC0KG1	SAM	12/09/25 18:40		Jaswal	OK
88	Q3765-05DUP	MC0KG1DUP	DUP	12/09/25 18:44		Jaswal	OK
89	Q3765-05L	MC0KG1L	SD	12/09/25 18:48		Jaswal	OK
90	Q3765-06	MC0KG1MS	MS	12/09/25 18:52		Jaswal	OK
91	Q3765-07	MC0KG1MSD	MSD	12/09/25 18:56		Jaswal	OK
92	Q3765-05A	MC0KG1A	PS	12/09/25 19:01	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
93	Q3765-08	MC0KG2	SAM	12/09/25 19:05		Jaswal	OK
94	Q3765-09	MC0KG3	SAM	12/09/25 19:09		Jaswal	OK
95	Q3765-10	MC0KG4	SAM	12/09/25 19:13		Jaswal	OK

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Supervise By	mohan	Supervise On	12/11/2025 9:29:41 AM

STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

96	Q3765-11	MC0KG5	SAM	12/09/25 19:17		Jaswal	OK
97	CCV08	CCV08	CCV	12/09/25 19:30		Jaswal	OK
98	CCB08	CCB08	CCB	12/09/25 19:34		Jaswal	OK
99	Q3765-12	MC0KG6	SAM	12/09/25 19:38		Jaswal	OK
100	Q3765-13	MC0KG7	SAM	12/09/25 19:43		Jaswal	OK
101	Q3765-14	MC0KG8	SAM	12/09/25 19:47		Jaswal	OK
102	Q3776-01	IDW-RAD-20251203	SAM	12/09/25 19:51		Jaswal	OK
103	Q3785-04	WATER-TREATMENT	SAM	12/09/25 19:56		Jaswal	OK
104	PB170842BL	PB170842BL	MB	12/09/25 20:00		Jaswal	OK
105	PB170842BS	PB170842BS	LCS	12/09/25 20:04		Jaswal	OK
106	Q3766-01	MC0KG9	SAM	12/09/25 20:08		Jaswal	OK
107	Q3766-02	MC0KH0	SAM	12/09/25 20:12		Jaswal	OK
108	Q3766-03	MC0KH1	SAM	12/09/25 20:17		Jaswal	OK
109	CCV09	CCV09	CCV	12/09/25 20:37		Jaswal	OK
110	CCB09	CCB09	CCB	12/09/25 20:41		Jaswal	OK
111	Q3766-04	MC0KH2	SAM	12/09/25 20:45		Jaswal	OK
112	Q3766-05	MC0KH3	SAM	12/09/25 20:49		Jaswal	OK
113	Q3766-06	MC0KH4	SAM	12/09/25 20:54		Jaswal	OK
114	Q3766-07	MC0KH5	SAM	12/09/25 20:58		Jaswal	OK
115	Q3766-08	MC0KH6	SAM	12/09/25 21:02		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP88101,MP88123,MP88121,MP88120,MP88119,MP88118
ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

116	Q3766-09	MC0KH7	SAM	12/09/25 21:06		Jaswal	OK
117	Q3766-09DUP	MC0KH7DUP	DUP	12/09/25 21:11		Jaswal	OK
118	Q3766-09L	MC0KH7L	SD	12/09/25 21:15		Jaswal	OK
119	Q3766-10	MC0KH7MS	MS	12/09/25 21:19		Jaswal	OK
120	Q3766-11	MC0KH7MSD	MSD	12/09/25 21:23		Jaswal	OK
121	CCV10	CCV10	CCV	12/09/25 21:27		Jaswal	OK
122	CCB10	CCB10	CCB	12/09/25 21:31		Jaswal	OK
123	Q3766-09A	MC0KH7A	PS	12/09/25 21:36	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
124	Q3766-12	MC0KH8	SAM	12/09/25 21:40		Jaswal	OK
125	Q3766-13	MC0KH9	SAM	12/09/25 21:44		Jaswal	OK
126	Q3766-14	MC0KJ0	SAM	12/09/25 21:48		Jaswal	OK
127	PB170856BL	PB170856BL	MB	12/09/25 21:53		Jaswal	OK
128	PB170856BS	PB170856BS	LCS	12/09/25 21:57		Jaswal	OK
129	Q3790-01	304 FURMAN SOIL	SAM	12/09/25 22:01		Jaswal	OK
130	Q3795-01	72-11966	SAM	12/09/25 22:05		Jaswal	OK
131	Q3795-01DUP	72-11966DUP	DUP	12/09/25 22:09		Jaswal	OK
132	Q3795-01L	72-11966L	SD	12/09/25 22:13		Jaswal	OK
133	CCV11	CCV11	CCV	12/09/25 22:17		Jaswal	OK
134	CCB11	CCB11	CCB	12/09/25 22:22		Jaswal	OK

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ICV Standard	MP88124,MP88123
CCV Standard	MP88127
ICSA Standard	MP88125,MP88126
CRI Standard	MP88123
LCS Standard	
Chk Standard	MP88128,MP88129,MP88130,MP88131,MP88132

135	Q3795-01MS	72-11966MS	MS	12/09/25 22:26		Jaswal	OK
136	Q3795-01MSD	72-11966MSD	MSD	12/09/25 22:30		Jaswal	OK
137	Q3795-01A	72-11966A	PS	12/09/25 22:34	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
138	Q3795-05	RBR 200059	SAM	12/09/25 22:38		Jaswal	OK
139	Q3800-01	ETGI-288	SAM	12/09/25 22:42		Jaswal	OK
140	Q3800-02	COMP#1	SAM	12/09/25 22:47		Jaswal	OK
141	Q3800-03	COMP#2	SAM	12/09/25 22:51		Jaswal	OK
142	Q3801-01	SOIL#1	SAM	12/09/25 22:55		Jaswal	OK
143	Q3801-06	SOIL#2	SAM	12/09/25 23:00		Jaswal	OK
144	Q3806-01	TR-01-12-5-2025	SAM	12/09/25 23:04		Jaswal	OK
145	CCV12	CCV12	CCV	12/09/25 23:20		Jaswal	OK
146	CCB12	CCB12	CCB	12/09/25 23:25		Jaswal	OK
147	Q3806-03	TR-01-12-5-2025	SAM	12/09/25 23:29		Jaswal	OK
148	Q3806-04	TR-05-12-5-2025	SAM	12/09/25 23:33		Jaswal	OK
149	Q3806-06	TR-05-12-5-2025	SAM	12/09/25 23:37		Jaswal	OK
150	CCV13	CCV13	CCV	12/09/25 23:41		Jaswal	OK
151	CCB13	CCB13	CCB	12/09/25 23:45		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3764

Test : Metals ICP-TAL

Prepbatch ID : PB170827,

Sequence ID/Qc Batch ID: LB138174,

Standard ID :
MP87148,MP88101,MP88118,MP88119,MP88120,MP88121,MP88122,MP88123,MP88124,MP88125,MP88126,MP88127,MP88128,MP88129,MP88130,MP88131,MP88132,

Chemical ID :
M5467,M5658,M5697,M5798,M5799,M5800,M5801,M5814,M5816,M5820,M5962,M5971,M5979,M5985,M5998,M6021,M6023,M6026,M6027,M6028,M6030,M6032,M6058,M6077,M6086,M6128,M6137,M6140,M6142,M6145,M6146,M6151,M6156,M6159,M6163,M6164,M6165,M6171,M6172,M6174,M6176,M6177,M6179,M6182,M6184,M6187,M6200,M6201,M6209,W3112,

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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	MP87148	09/09/2025	02/17/2026	Sagar Kanani	None	None	Sarabjit Jaswal 09/10/2025

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)	MP88101	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 125.00000ml of M6200 + 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)	MP88118	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5971 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6146 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP88101 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP88119	11/25/2025	01/25/2026	Sarabjit Jaswal	None	Glass Pipette-A	Mohan Bera 12/09/2025

FROM 50.00000ml of MP88101 + 50.00000ml of MP88118 = 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	MP88120	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 25.00000ml of MP88118 + 75.00000ml of MP88101 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
908	ICP AES S2/CRI MINERALS ONLY STD	MP88121	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 4.00000ml of MP88118 + 96.00000ml of MP88101 = 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
2950	ICP AES S1/CRI STOCK STD	MP88122	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

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 M5697 + 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 M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5979 + 1.00000ml of M6086 + 1.00000ml of M6142 + 1.00000ml of M6156 + 1.00000ml of M6171 + 1.00000ml of M6172 + 2.00000ml of M5816 + 88.47000ml of MP88101 = 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	MP88123	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 2.00000ml of MP88122 + 98.00000ml of MP88101 = 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
4163	NEW ICV-060925	MP88124	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.60000ml of MP88101 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP88125	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 5.00000ml of M6182 + 45.00000ml of MP88101 = 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
905	ICP AES ICSAB SOLN	MP88126	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 0.05000ml of M6077 + 5.00000ml of M6182 + 5.00000ml of M6184 + 39.95000ml of MP88101 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP88127	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

FROM 50.00000ml of MP88101 + 50.00000ml of MP88118 = 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	MP88128	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 1.00000ml of M6179 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6187 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP88129	11/25/2025	01/25/2026	Sarabjit Jaswal	None	None	Mohan Bera 12/09/2025

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	MP88130	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 11.50000ml of M6086 + 11.50000ml of M6171 + 11.50000ml of M6172 + 15.50000ml of MP88101 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4226	LR-2	MP88131	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 13.50000ml of M6140 + 9.00000ml of M6142 + 9.50000ml of M6159 + 18.00000ml of MP88101 = 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
4227	LR-3	MP88132	11/25/2025	01/25/2026	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/09/2025

FROM 1.15000ml of M6026 + 1.25000ml of M5658 + 1.25000ml of M6027 + 1.50000ml of M6145 + 2.50000ml of M5697 + 2.50000ml of M6128 + 39.85000ml of MP88101 = Final Quantity: 50.000 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 #
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 #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	06/06/2025 / Janvi	07/01/2024 / Jaswal	M5971

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CHEMICAL RECEIPT LOG BOOK

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

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

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CHEMICAL RECEIPT LOG BOOK

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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Calcium, 500 ml, 10000 PPM	082324	08/23/2027	03/06/2025 / JANVI	10/14/2024 / jaswal	M6086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	011025	01/10/2028	06/25/2025 / Janvi	01/13/2025 / Jaswal	M6140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

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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	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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	032123	03/21/2026	11/06/2024 / JANVI	06/12/2024 / JANVI	M6156

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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CHEMICAL RECEIPT LOG BOOK

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 #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	011525	01/15/2028	07/15/2025 / jaswal	02/13/2025 / Janvi	M6171

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGNA10-5 / Sodium, 500 ml, 10000 PPM	V2-NA740547	07/29/2026	07/29/2025 / Janvi	01/25/2025 / Janvi	M6172

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	08/05/2026	08/06/2025 / Janvi	06/02/2024 / Janvi	M6179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
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 #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	V2-MEB743480	10/15/2026	10/15/2025 / jaswal	07/20/2025 / janvi	M6201

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CHEMICAL RECEIPT LOG BOOK

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	V2-MEB752149	10/15/2026	10/15/2025 / Janvi	07/20/2025 / Janvi	M6209

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

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Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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		

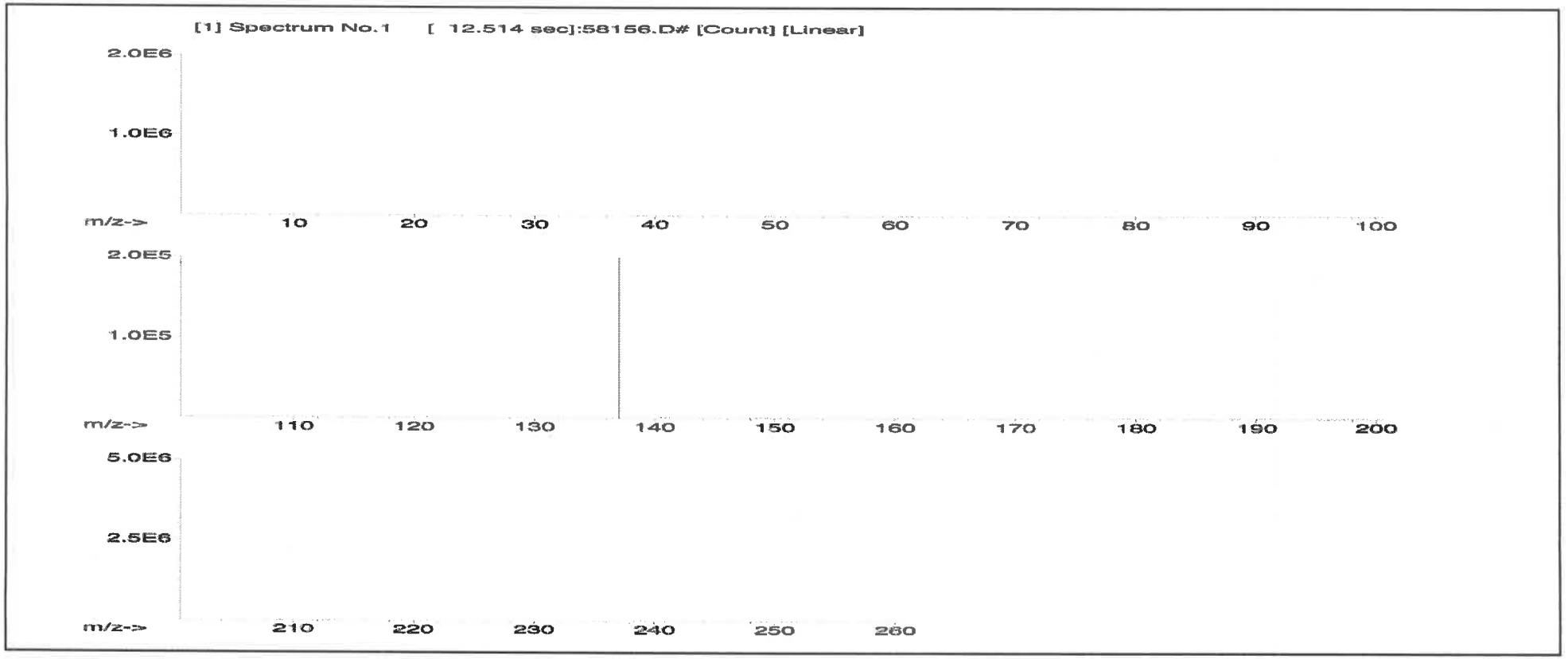
Giovanni Esposito

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



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Certified Reference Material CRM

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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:

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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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Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

Part Number:	**58120**		**Lot #**		
Lot Number:	**082324**		**Solvent:**	24002546	Nitric Acid
Description:	**Calcium (Ca)**				
			2%	80.0 (mL)	Nitric Acid
Expiration Date:	082327				
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		

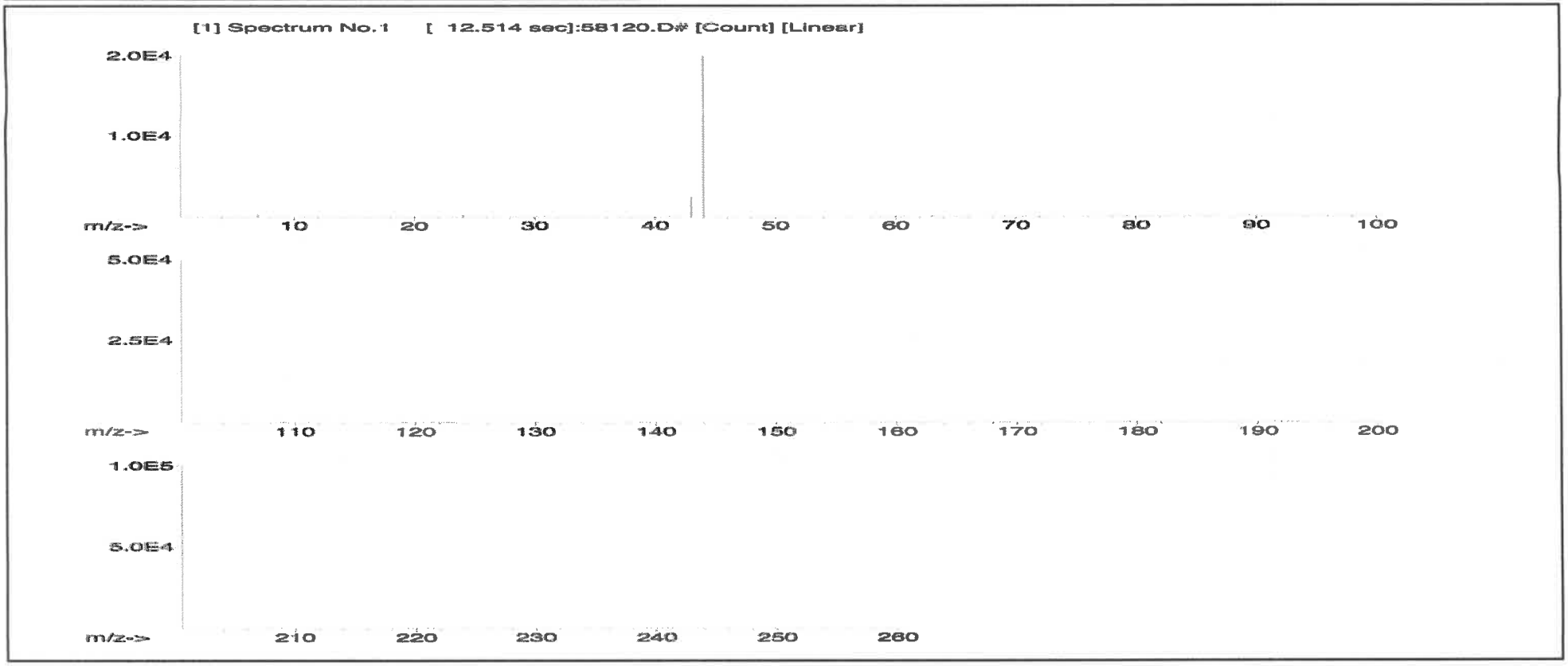
Giovanni Esposito

Formulated By:	Giovanni Esposito	082324

Pedro Rentas

Reviewed By:	Pedro L. Rentas	082324

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	100.2656	**10001.2**	**20.0**	471-34-1	5 mg/m3	ori-rat >2000mg/kg	3109a



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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.
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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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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		

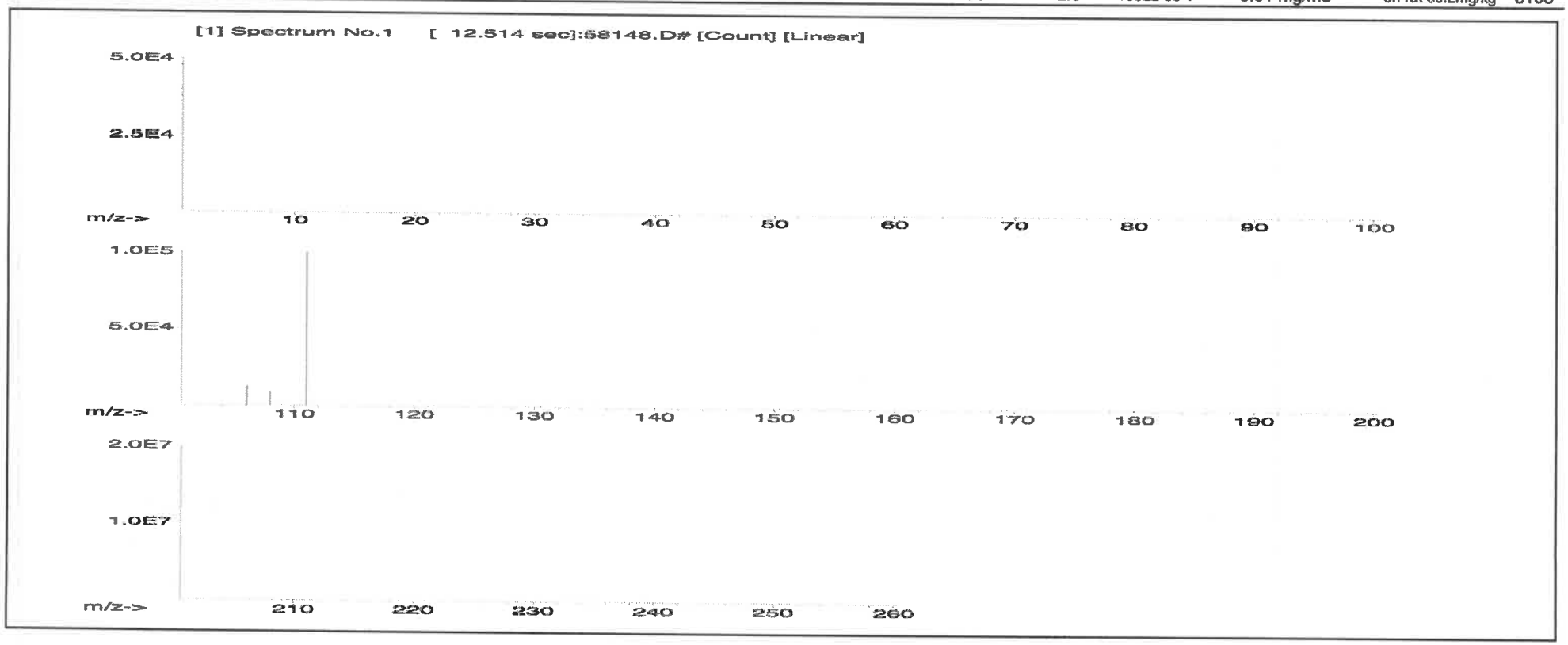
Aleah O'Brady

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



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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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

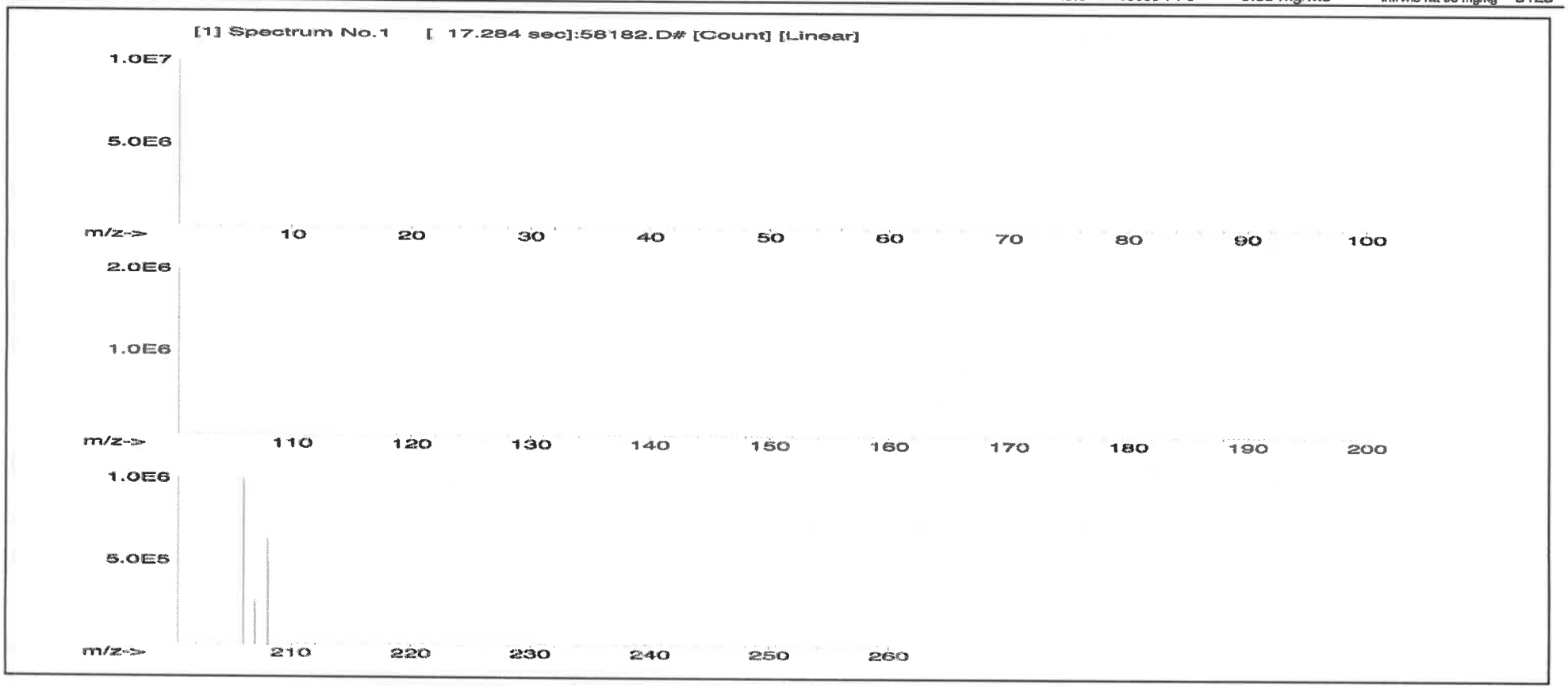
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

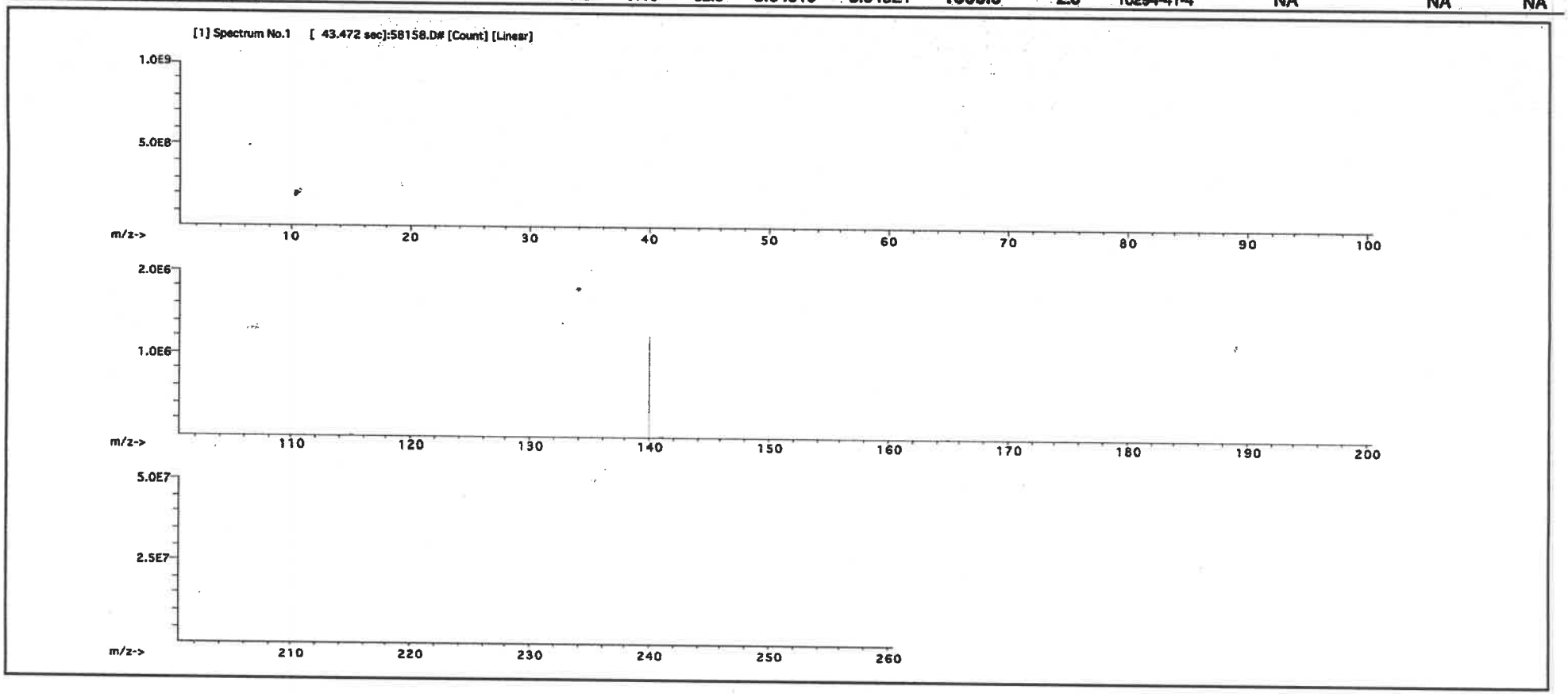
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CERTIFIED WEIGHT REPORT:

Part Number:	57058		**Lot #**	
Lot Number:	020623	**Solvent:**	21110221	Nitric Acid
Description:	Cerium (Ce)			
		2%	20.0 (mL)	Nitric Acid
Expiration Date:	020626			
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):	1000.12	0.058	Flask 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



23364-METALS

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.

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M5658 R ! 8/25/23

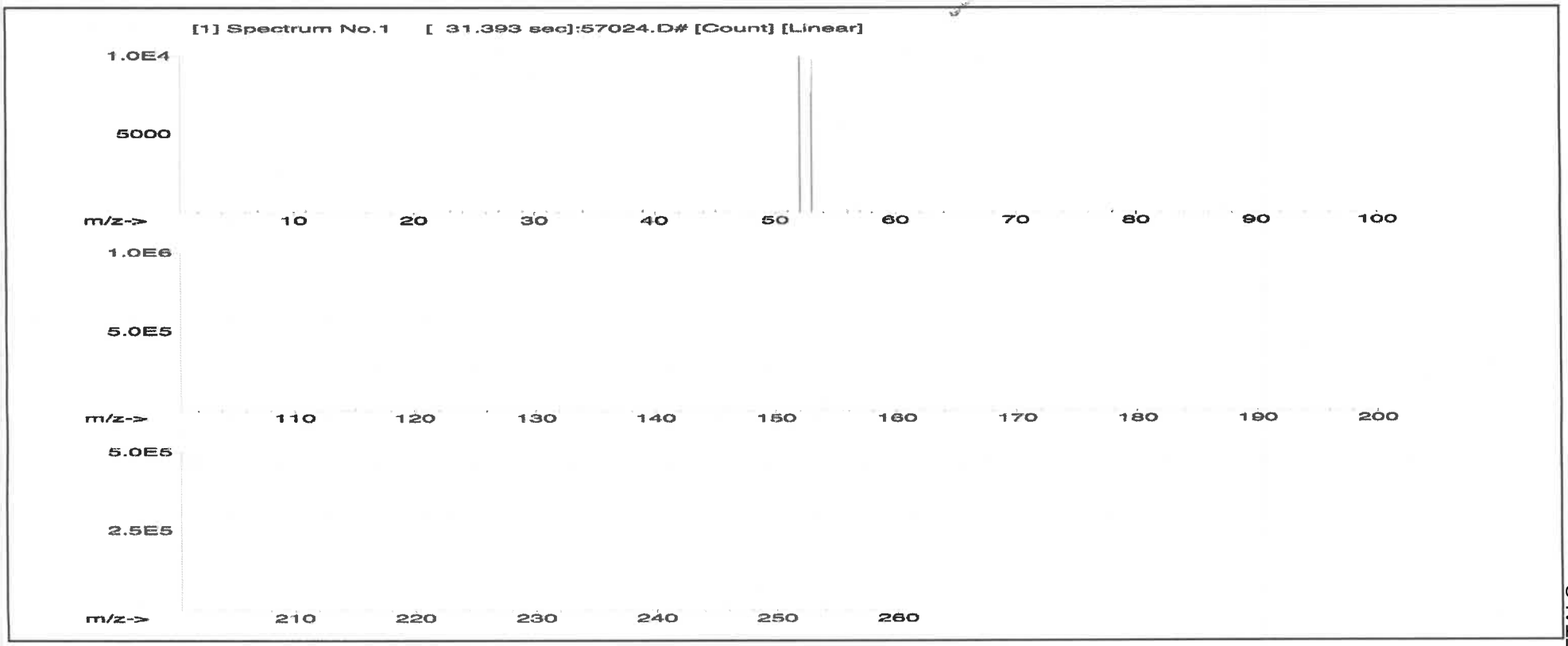
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CERTIFIED WEIGHT REPORT:

		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



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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.

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M5697 R: 10/27/23

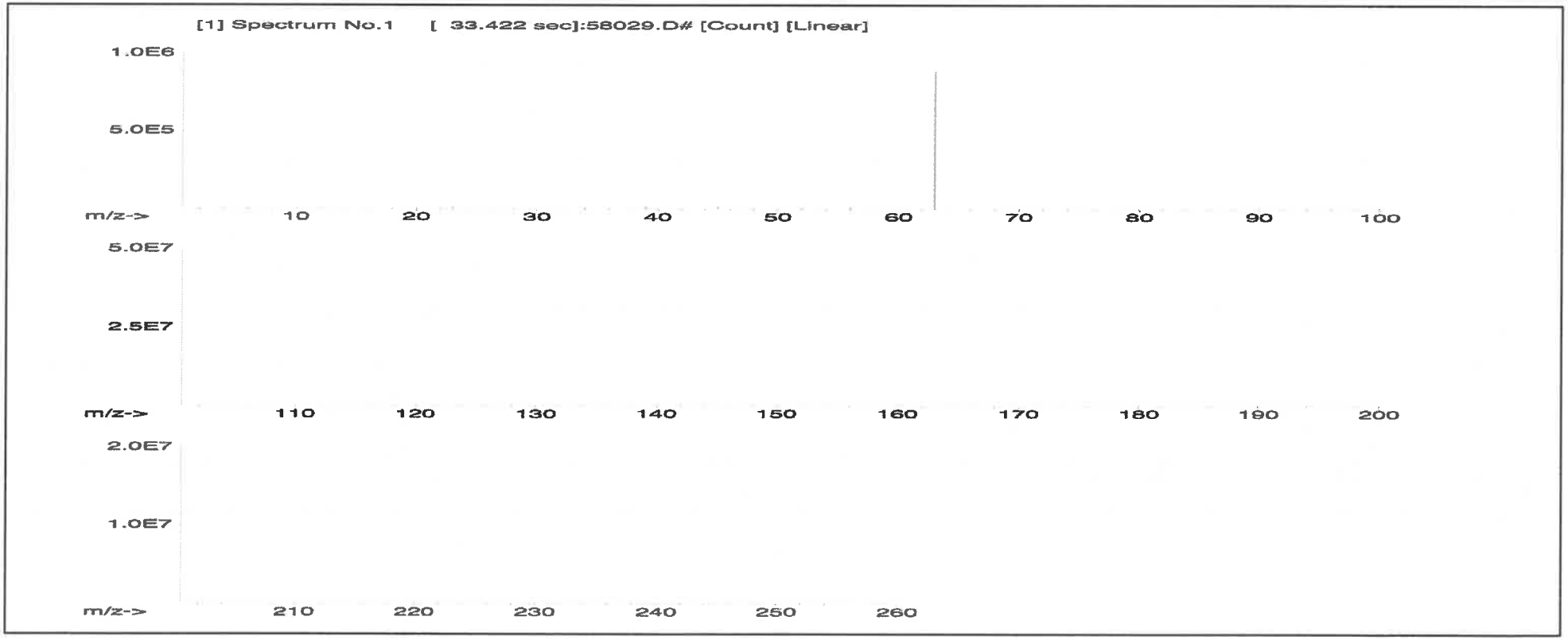
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		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. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



455 of 577
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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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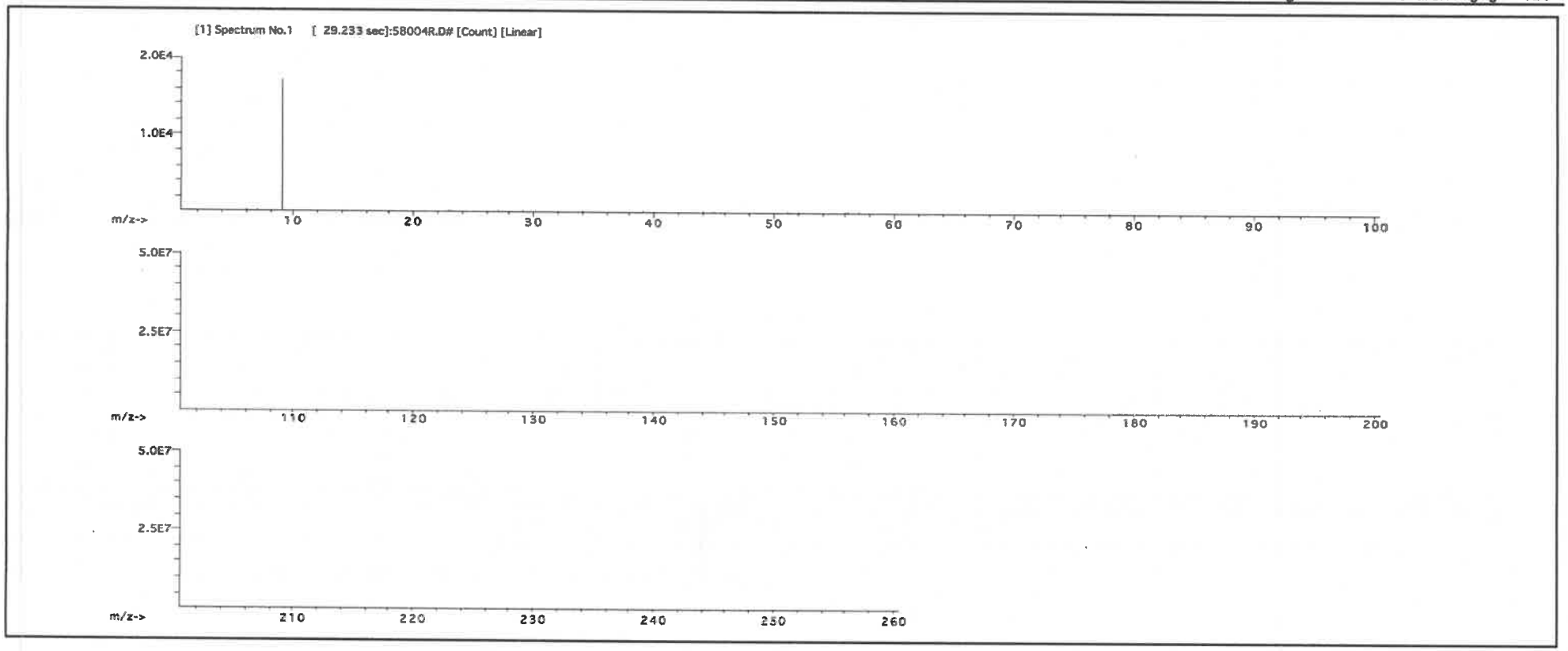
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CERTIFIED WEIGHT REPORT:

		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



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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.

* 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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* 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).

Part # **57004** Lot # **102523**

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BA

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

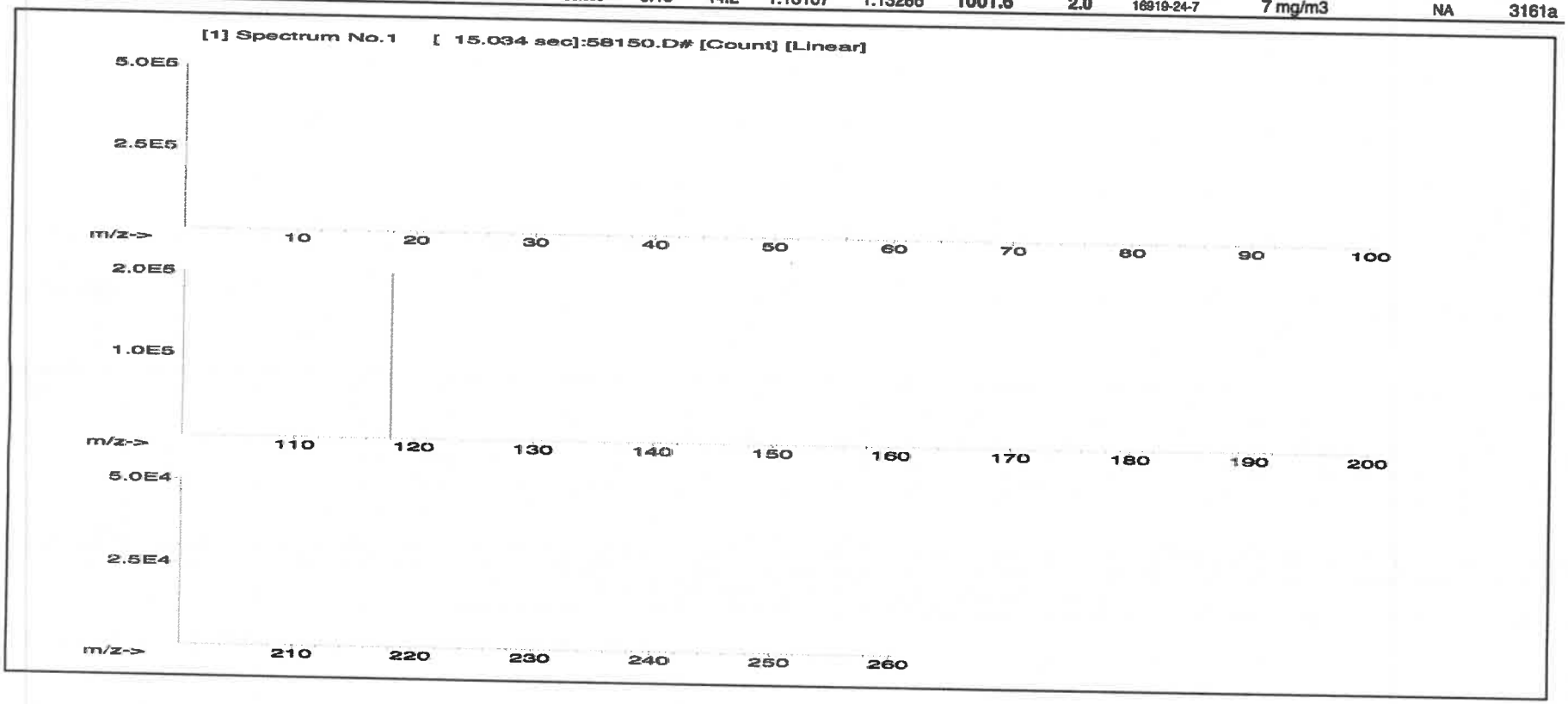
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



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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:

* 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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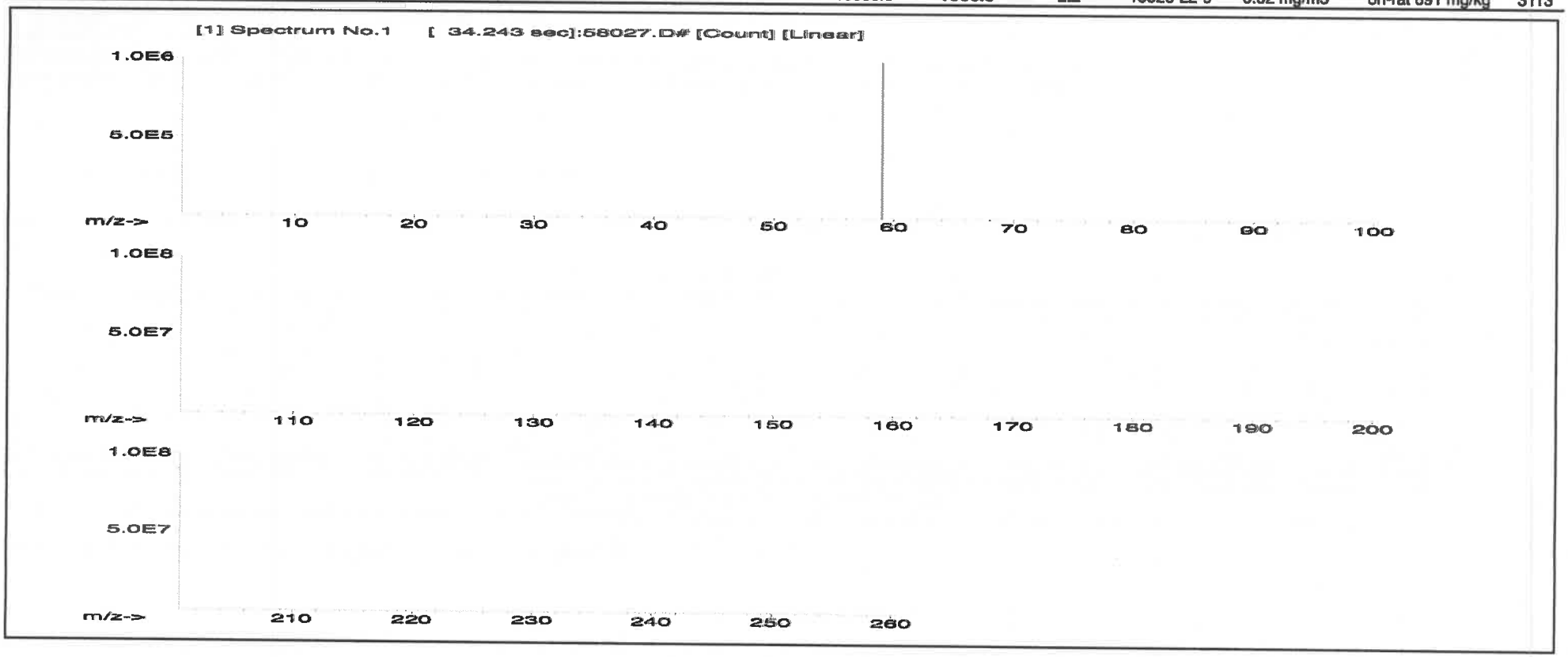
CERTIFIED WEIGHT REPORT:

		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



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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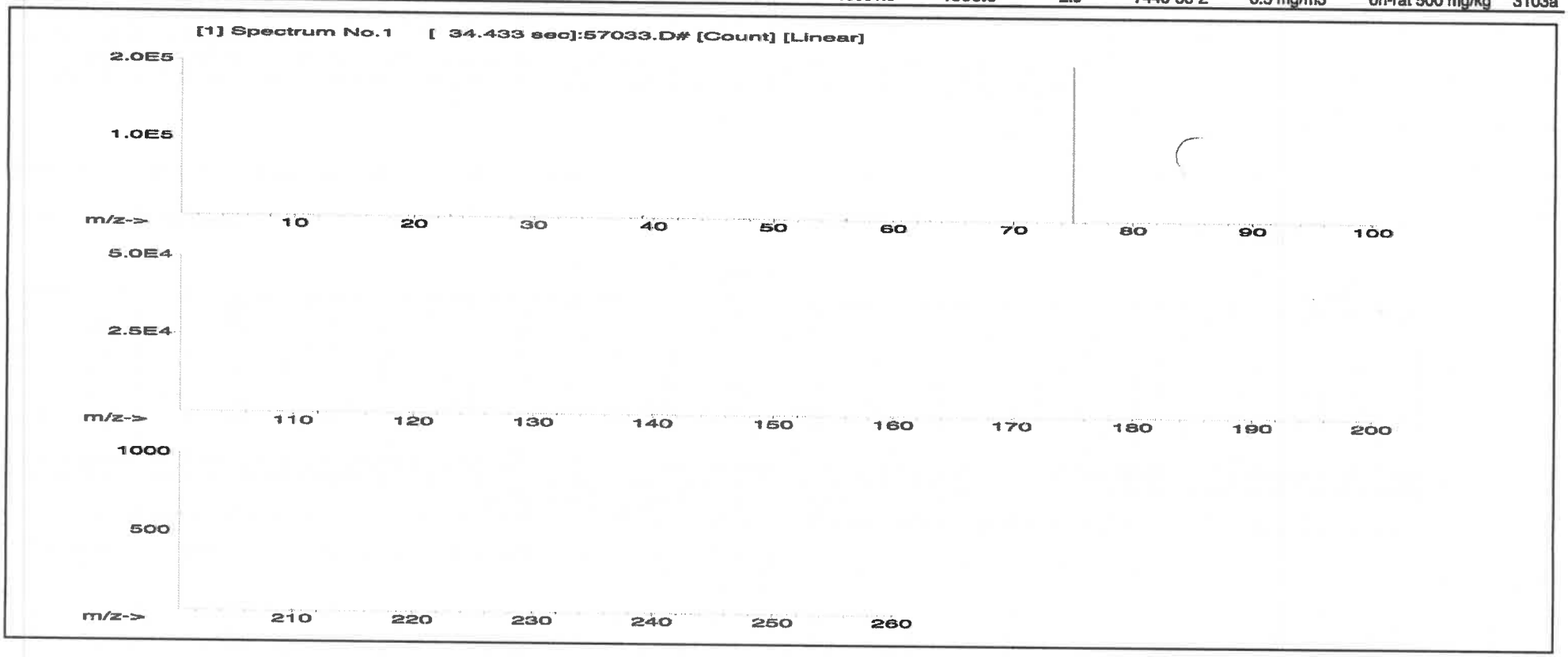
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
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



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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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A: 02/09/24 M.5814

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CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 071123
Description: Boron (B)

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

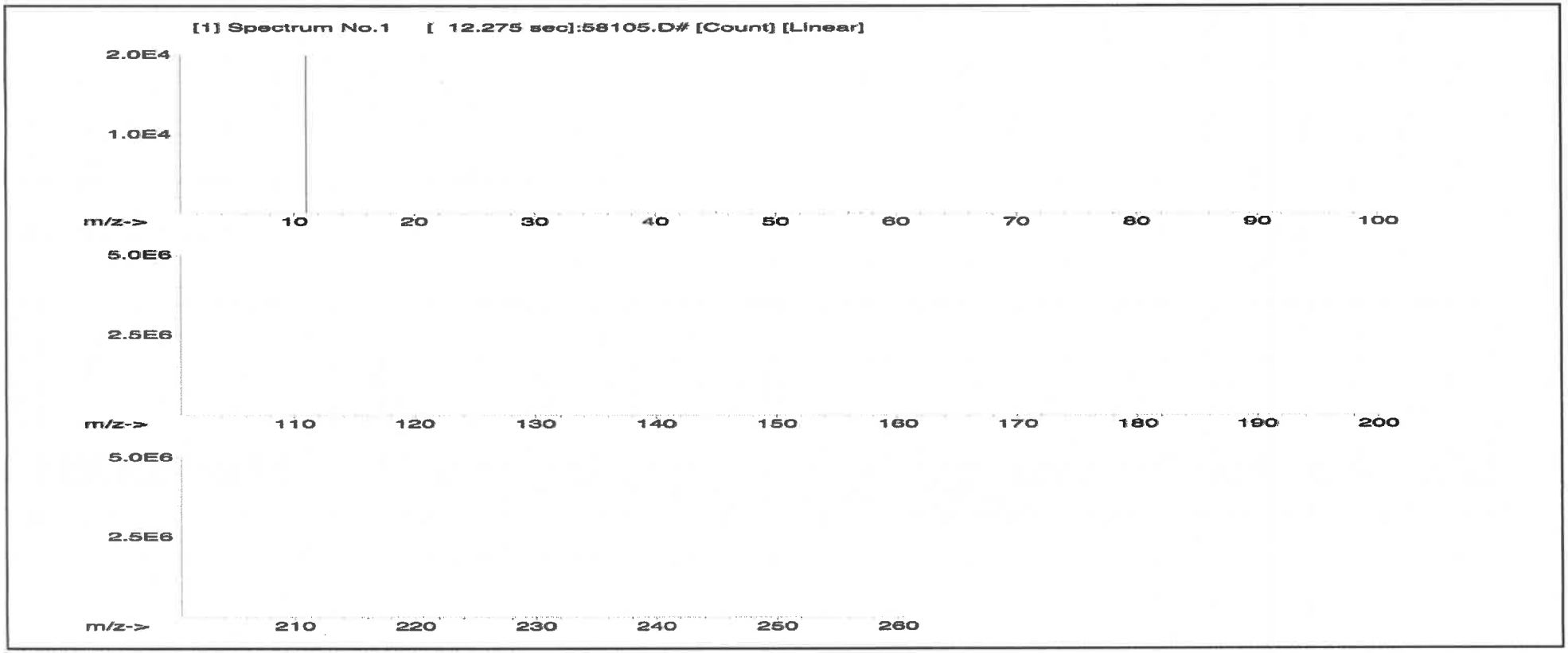
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

	Lot #		
Solvent:	MKBQ8597V	Ammonium hydroxide	
	2.0%	40.0 (mL)	Ammonium hydroxide
	5E-05	Balance 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



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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:

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.
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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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R: 02/09/24 M5816

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CERTIFIED WEIGHT REPORT:

Part Number: 57016
Lot Number: 122923
Description: Sulfur (S)

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

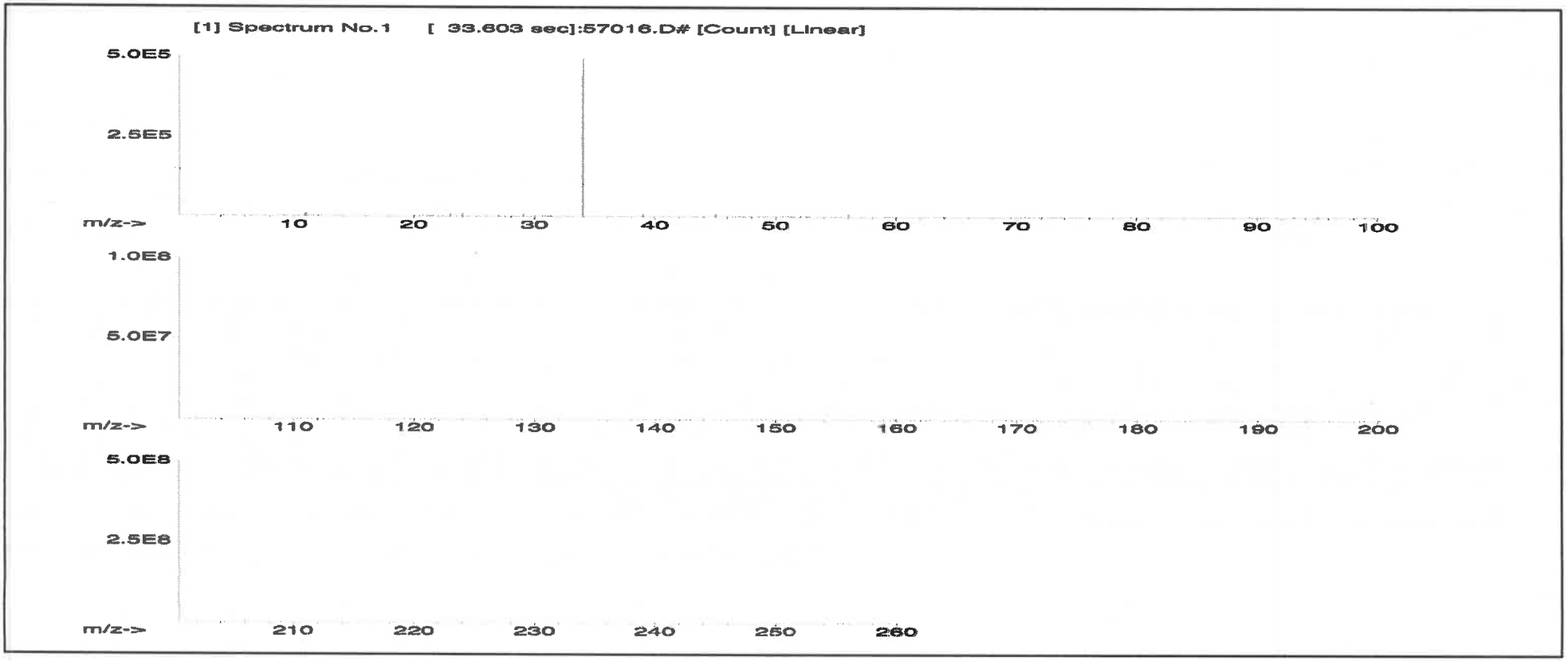
Weight shown below was diluted to (mL): 4000.0 ± 0.06 Flask Uncertainty

Solvent: Lot # 122923 ASTM Type 1 Water

5E-05 Balance 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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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	T	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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R: 02/09/24 M5820

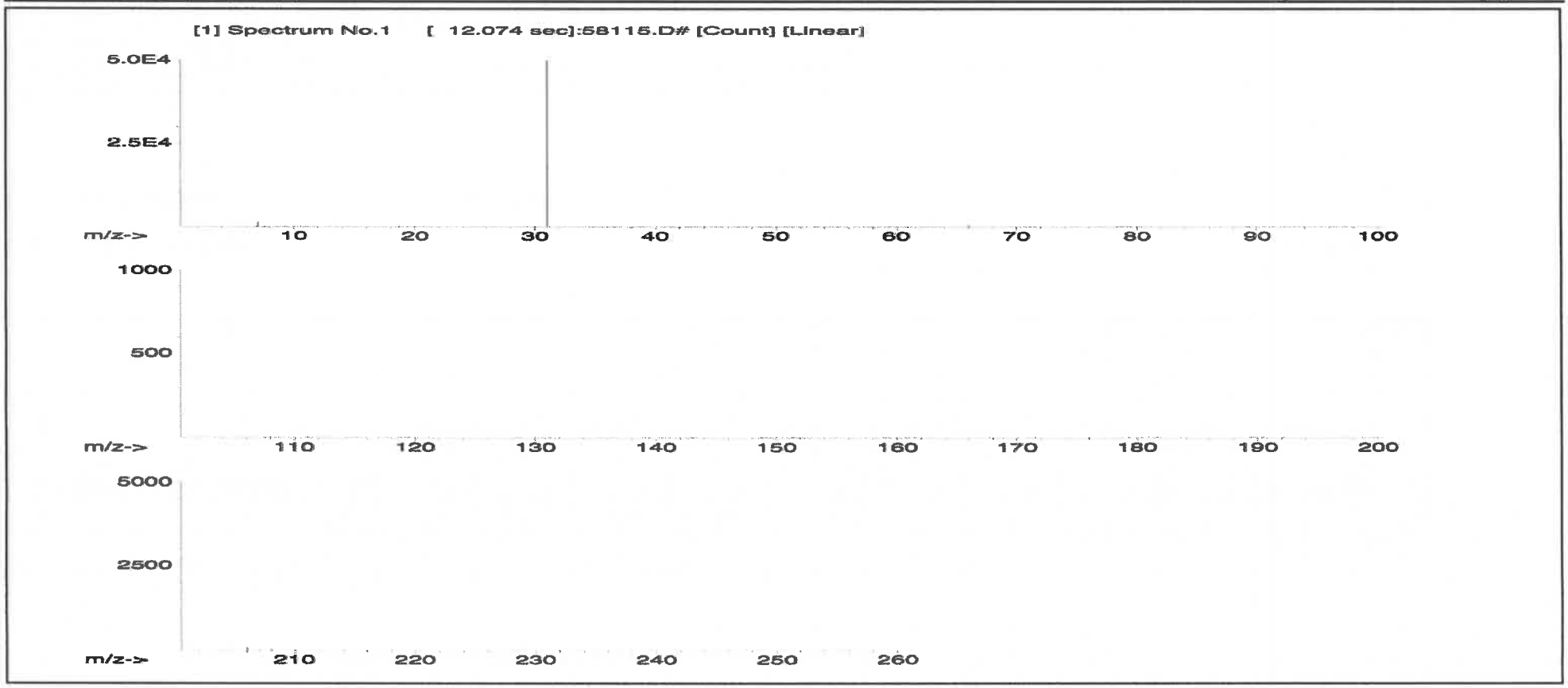
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CERTIFIED WEIGHT REPORT:

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



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5962 R! 06/14/24.

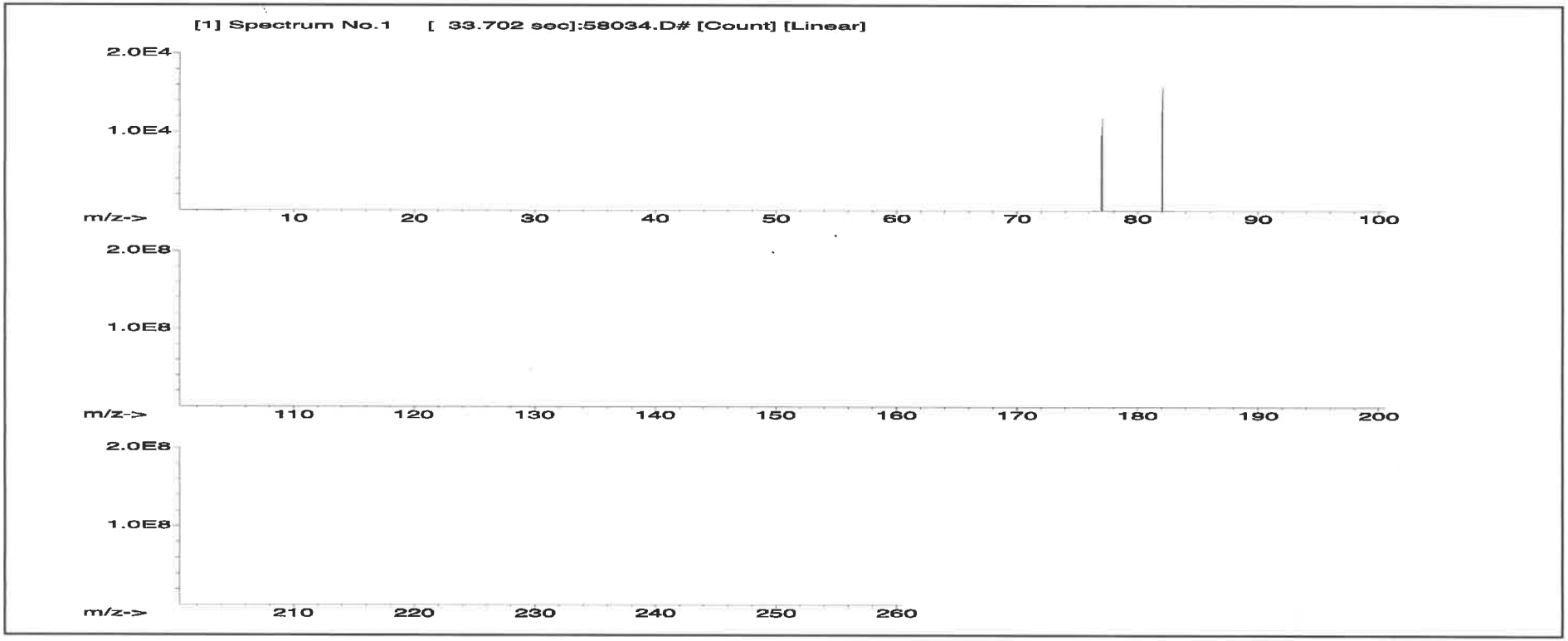
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CERTIFIED WEIGHT REPORT:

		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



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Q3764-METALS

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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:

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M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

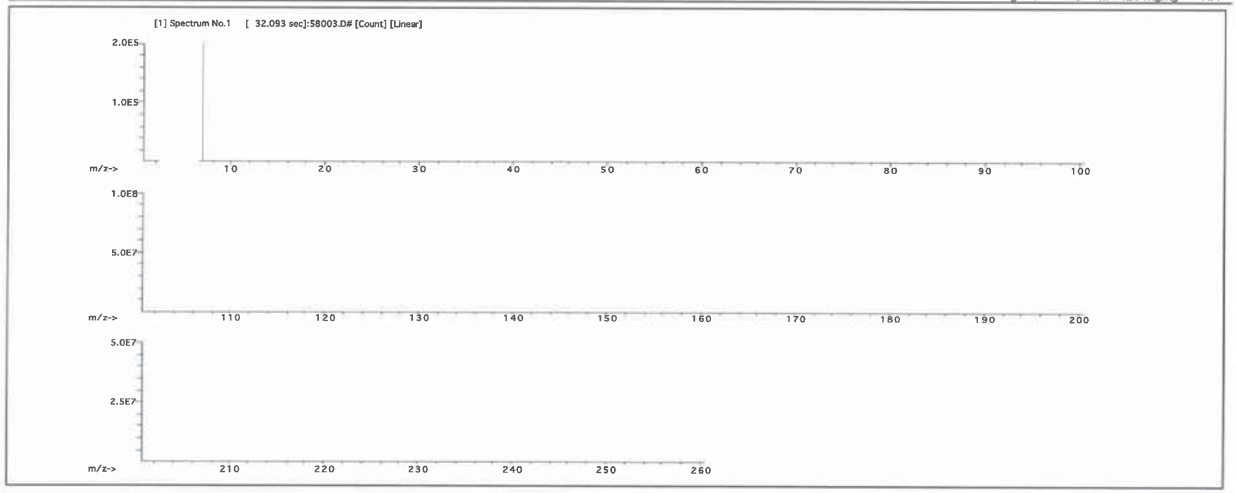
Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty
		0.016	Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
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



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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:



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R: 2/22/24

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 865.01

ACCREDITED Reference Material Producer Certificate 865.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 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, $X_{CRM/MM}$, 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 ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char} + u^2_{Lb} + u^2_{lts} + u^2_{ts})^{1/2}$

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_{Lb} = 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:

$$X_{CRM/RM} = (\Sigma x_a)\,(n_{char\ a})$$

X_a = mean of Assay Method A with $n_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty ($\pm$) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{Lb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{Lb} = 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 for months in 1% 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

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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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

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

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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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 2/22/24
MS-997

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



INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

R! 08/22/24 M6058, M6059

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:	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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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
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 (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

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->1/13/25
M6128

Part Number: 58025
Lot Number: 101124
Description: Manganese (Mn)
Expiration Date: 101127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid

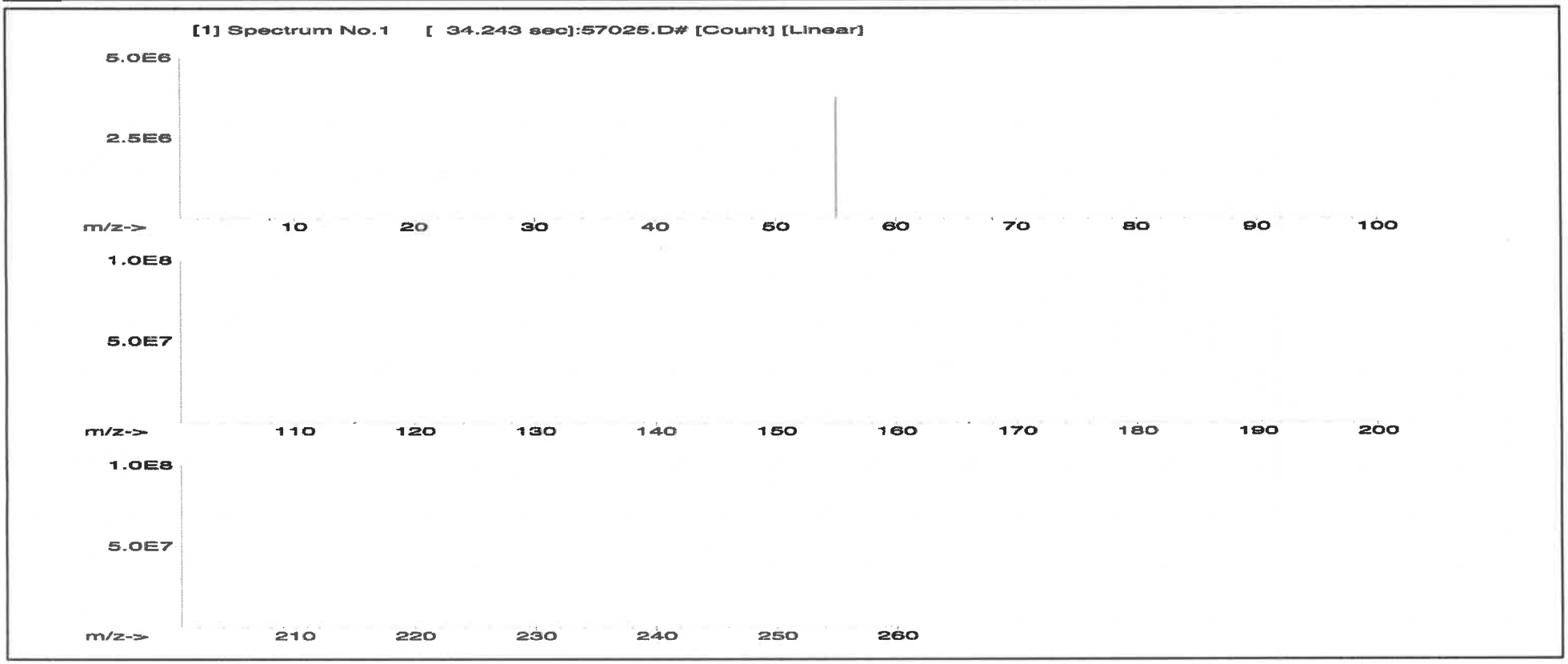
5E-05 Balance Uncertainty

Weight shown below was diluted to (mL): 4000.2 0.10 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	101124
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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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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 $u_{char\ i}$

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.

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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www.absolutestandards.com

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number: 58126 R->1|B|2S
Lot Number: 011025
Description: Iron (Fe) M6140

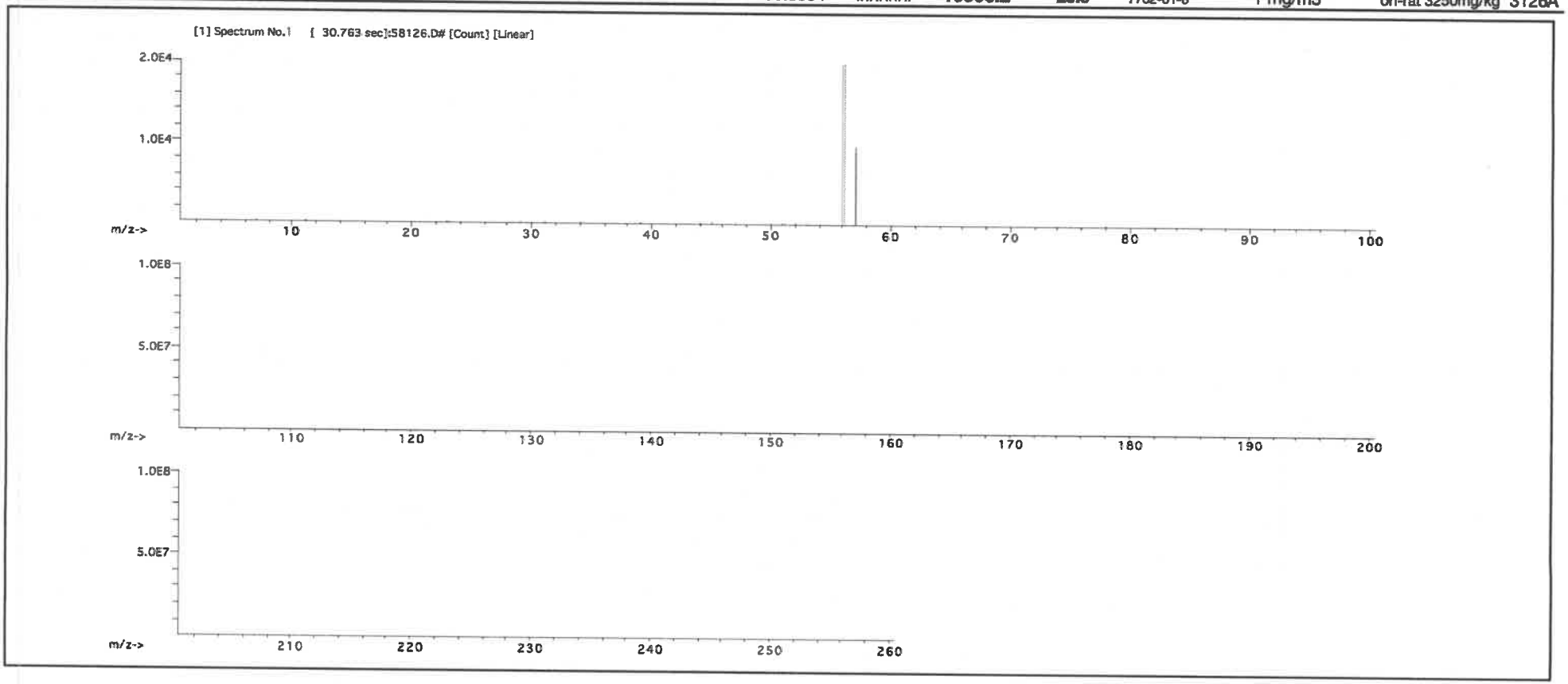
Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	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



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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:

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 WEIGHT REPORT:

R-> 1/13/25

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

M6141
M6142
M6143

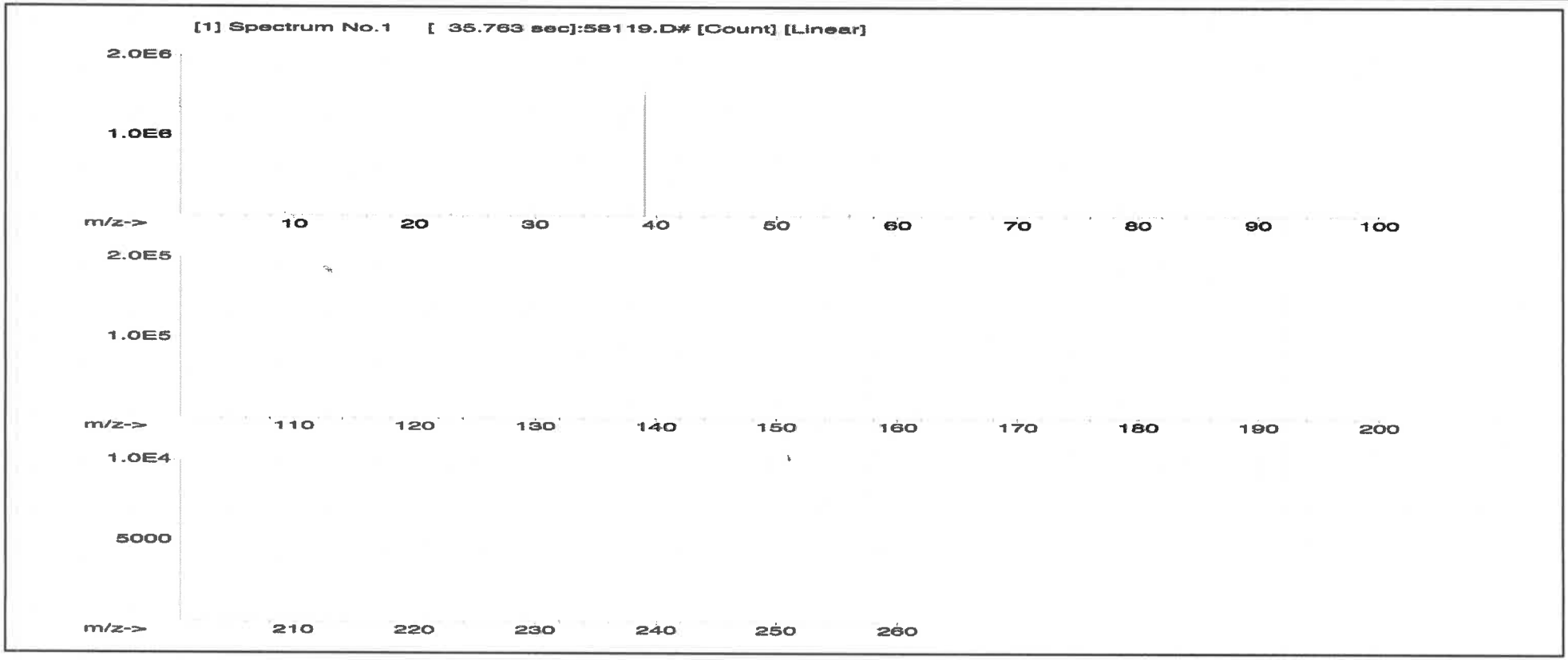
Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.1

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.15 Flask Uncertainty

Giovanni Esposito		
Formulated By:	Giovanni Esposito	103024
Pedro Rentas		
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



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AR-1539 Certificate Number
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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.
* 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

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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

Weight shown below was diluted to (mL): 2000.1 | 0.10 Flask Uncertainty

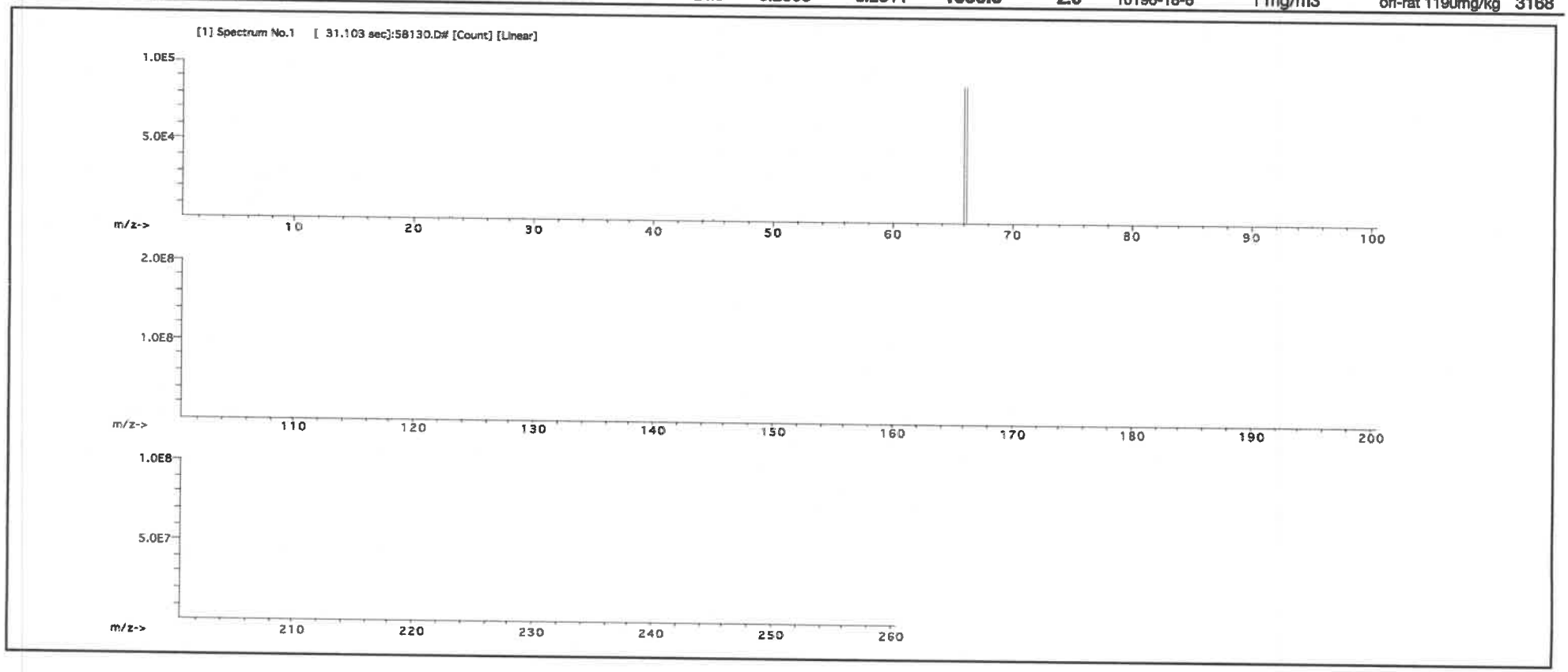
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance 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



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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.
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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).

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M6156

Certified Reference Material CRM

R→ 6/12/24

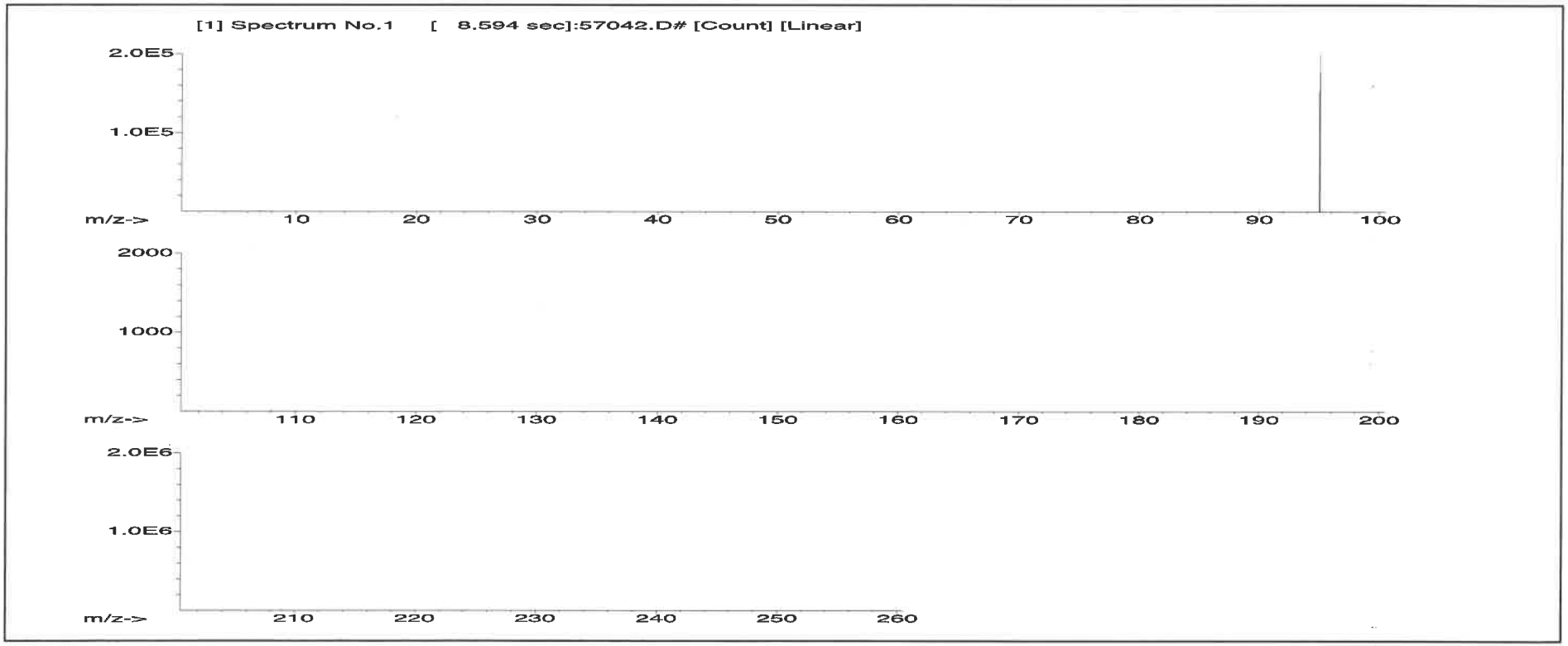
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57042**			
Lot Number:	**032123**	MKBQ8597V	Ammonium hydroxide	
Description:	**Molybdenum (Mo)**			
		0.5%	15.0 (mL)	Ammonium hydroxide
Expiration Date:	032126			
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):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032123
Reviewed By:	Pedro L. Rentas	032123

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	300.0	0.084	1000	10001.4	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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Certified Reference Material CRM

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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	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:

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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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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-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

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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

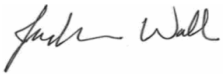
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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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:	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"

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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

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

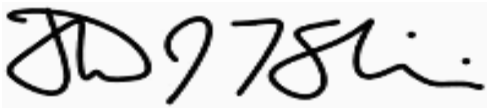
- Sealed TCT Bag Open Date: _____

- 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



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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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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:	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

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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

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

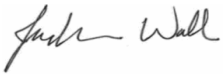
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



R -> 013125

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)

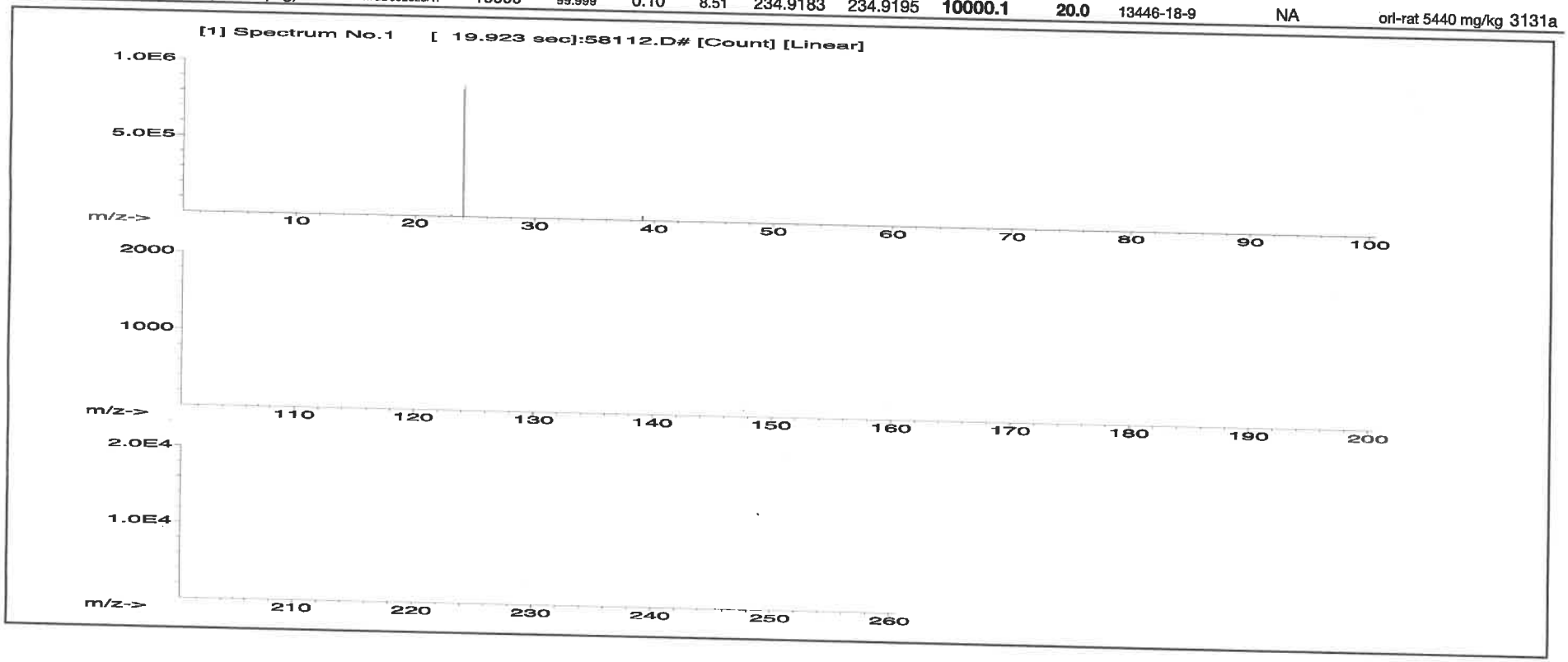
Expiration Date: 011528
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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).

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Certificate of Analysis

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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:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	V2-NA740547
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Sodium Carbonate
Starting Material Lot#:	2453 and 2606
Starting Material Purity:	99.9976%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10018 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10026 ± 18 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**9986 ± 66 µg/mL** ICP Assay NIST SRM 3152a Lot Number: 200413
Assay Method #3	**10002 ± 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	<	0.000860	M	Eu	<	0.000860	s	Na	<		O	Se	<	0.034000	O	Zn		0.000387
O	Al		0.003121	O	Fe		0.001622	M	Nb	<	0.000860	O	Si		0.044943	M	Zr	<	0.001800
M	As	<	0.001800	M	Ga	<	0.000860	M	Nd	<	0.000860	M	Sm	<	0.000860				
M	Au	<	0.005700	M	Gd	<	0.000860	O	Ni	<	0.000980	M	Sn	<	0.000860				
O	B	<	0.025000	M	Ge	<	0.003500	M	Os	<	0.029000	M	Sr		0.000436				
M	Ba		0.004494	M	Hf	<	0.000860	O	P		0.005742	M	Ta	<	0.000086				
O	Be	<	0.000160	M	Hg	<	0.002900	M	Pb	<	0.002600	M	Tb	<	0.000860				
M	Bi	<	0.000860	M	Ho	<	0.000860	M	Pd	<	0.004300	M	Te	<	0.004300				
O	Ca		0.112358	M	In	<	0.000860	M	Pr	<	0.000860	M	Th	<	0.003500				
O	Cd	<	0.000730	M	Ir	<	0.000940	M	Pt	<	0.000860	O	Ti		0.000399				
M	Ce	<	0.000860	O	K		0.349560	M	Rb		0.000436	M	Tl	<	0.000860				
M	Co	<	0.000860	M	La	<	0.000860	M	Re	<	0.000860	M	Tm	<	0.000860				
O	Cr	<	0.002000	O	Li		0.000224	M	Rh	<	0.000860	M	U	<	0.000860				
M	Cs		0.000287	M	Lu	<	0.000860	M	Ru	<	0.000940	O	V	<	0.001500				
O	Cu	<	0.004100	M	Mg		0.097377	O	S		0.018726	M	W	<	0.007700				
M	Dy	<	0.000860	M	Mn	<	0.007700	M	Sb	<	0.000860	M	Y	<	0.000860				
M	Er	<	0.000860	O	Mo	<	0.002800	O	Sc	<	0.000610	M	Yb	<	0.000860				

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 - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

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 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

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

February 23, 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 23, 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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inorganicventures.com

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F: 540-585-3012
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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-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.

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

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



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:

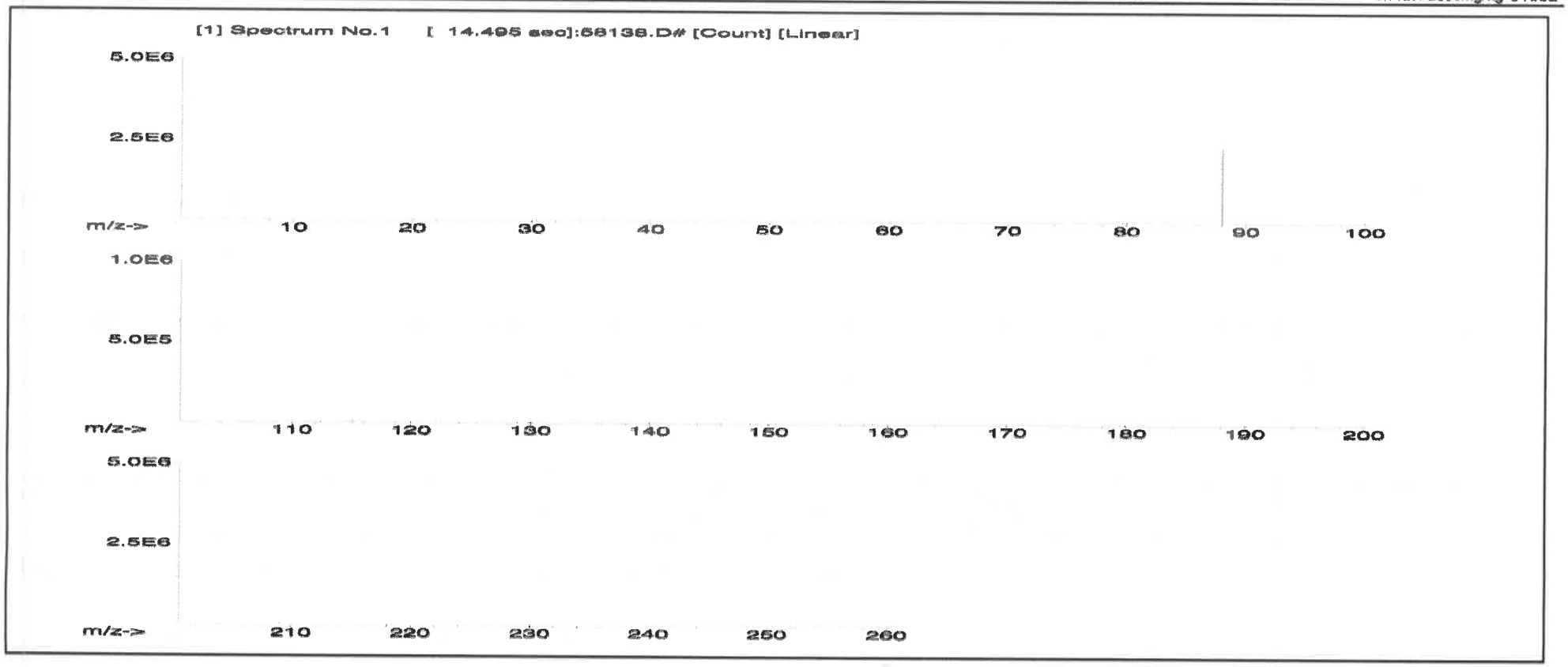
R->8/6/25

M6176

Part Number:	**57038**		**Lot #**		
Lot Number:	**092724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	092727				
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



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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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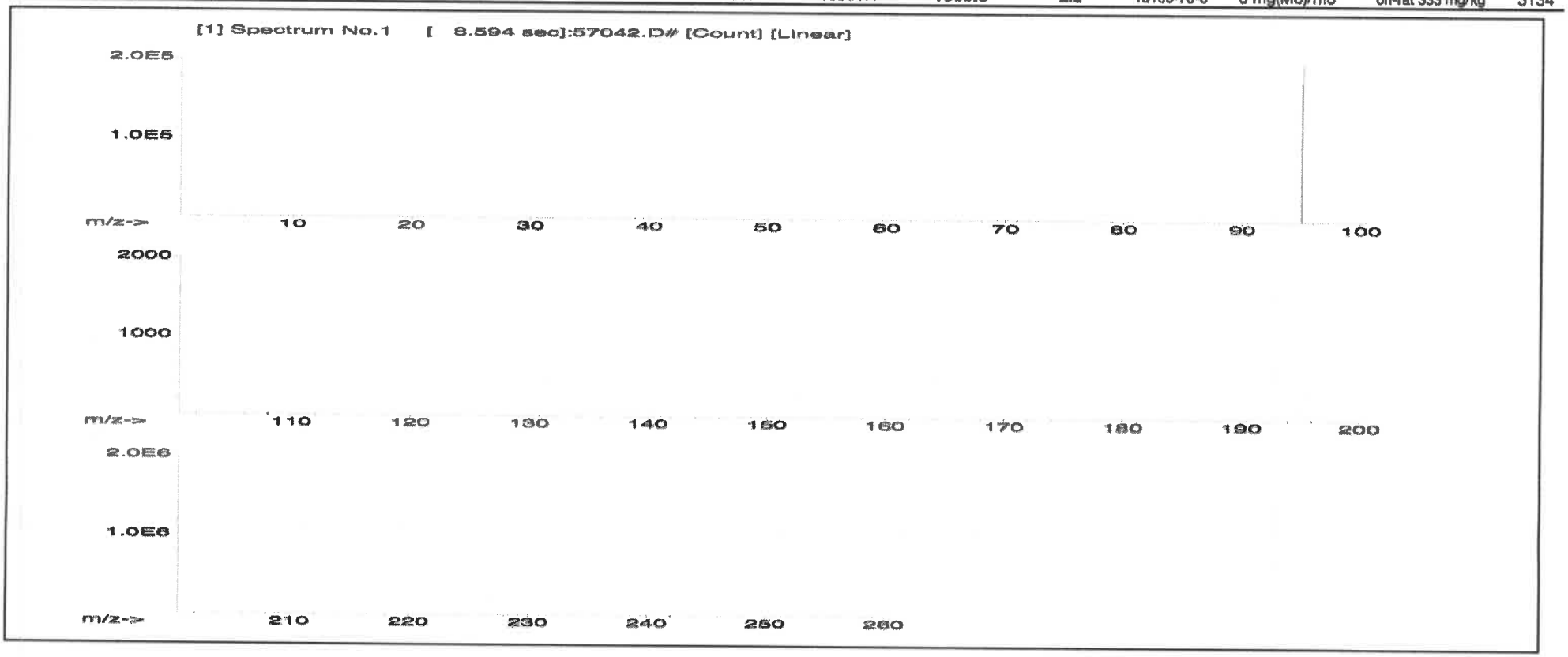
CERTIFIED WEIGHT REPORT:

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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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

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

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



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,

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.

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

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

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

R-7/20/23
M6201
M6202
M6203
M6204

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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 07, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- May 07, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

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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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

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

R -> 7/20/23

M6209
M6210
M6211
M6212

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, Cerium, Thallium,	Aluminum, Selenium,
	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, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, 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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Certified Reference Material CRM

M6027

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R 8/05/24

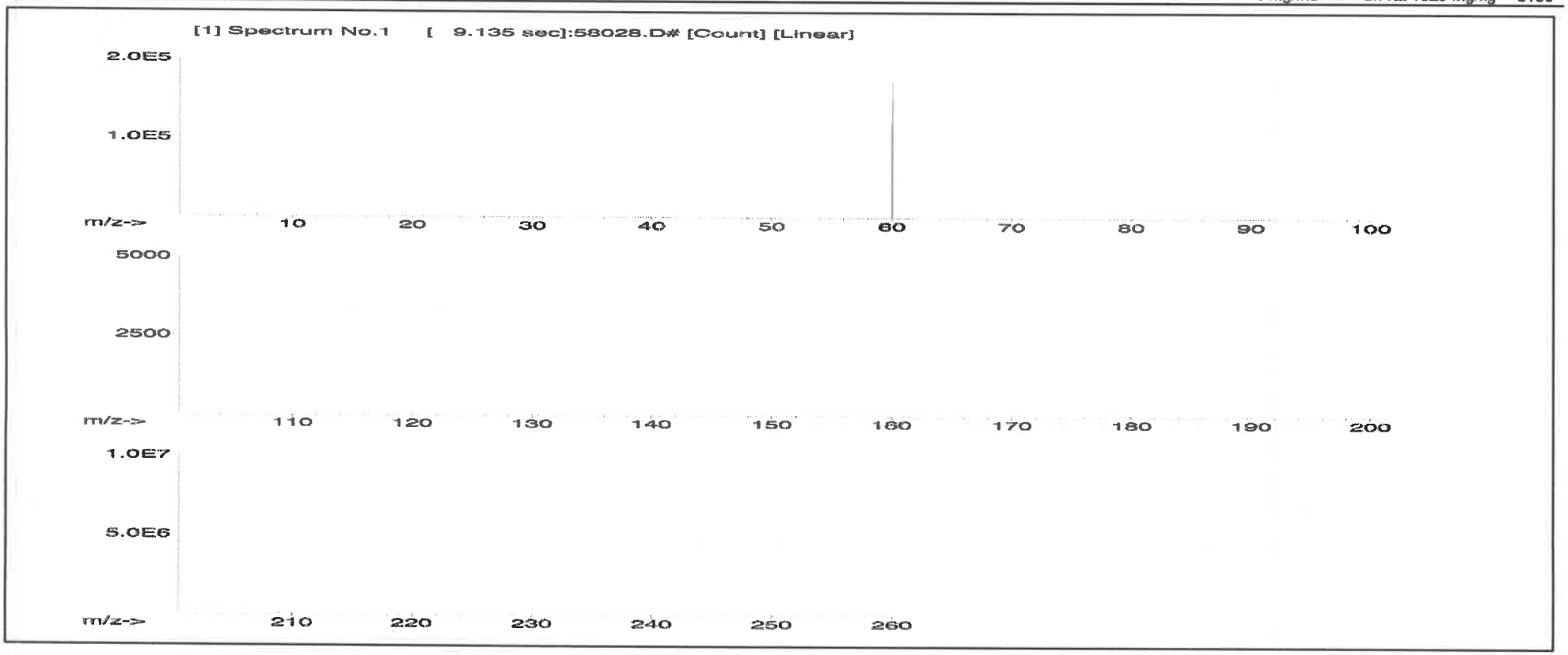
CERTIFIED WEIGHT REPORT:

Part Number:	**57028**
Lot Number:	**062024**
Description:	**Nickel (Ni)**
Expiration Date:	062027
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB
Volume shown below was diluted to (mL):	2000.07

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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



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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

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CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

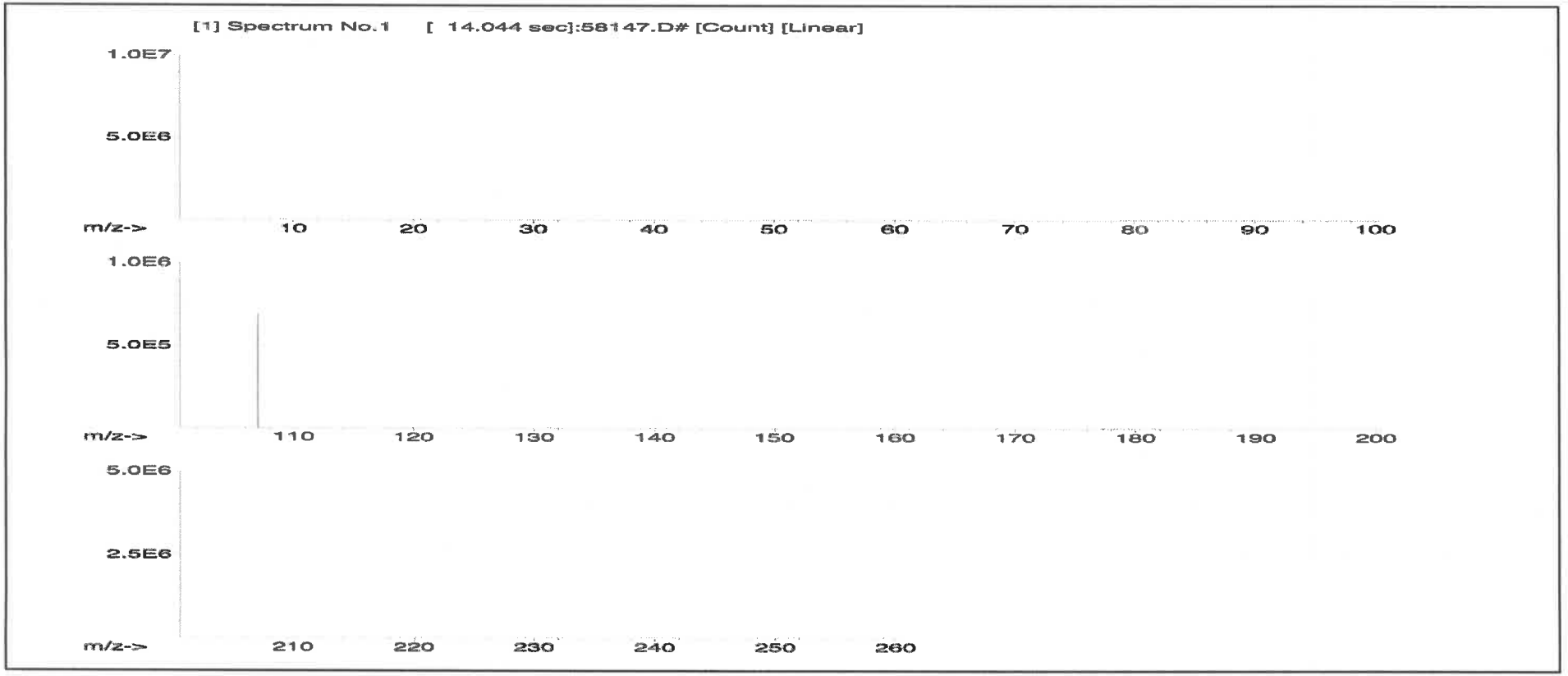
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance 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



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ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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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:

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: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

MG146

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 ± 0.058 Flask Uncertainty

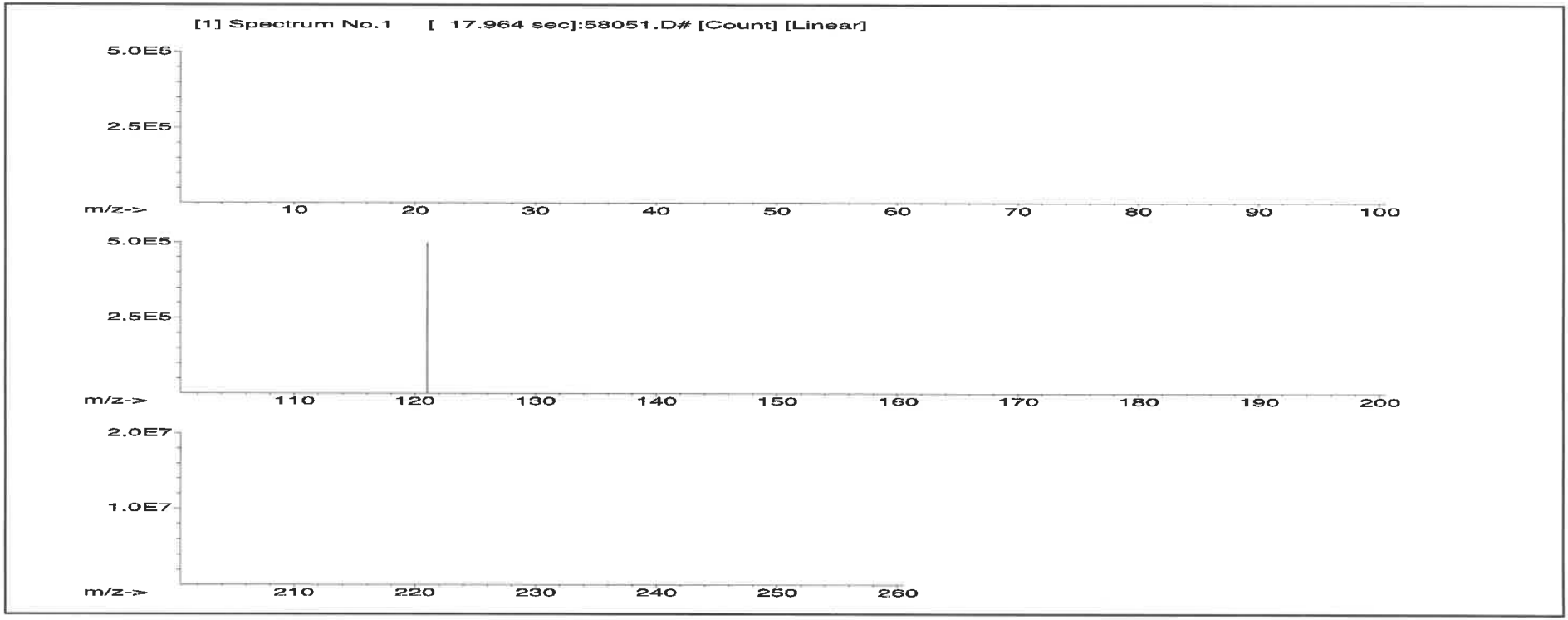
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	071724
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



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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:

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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 Reference Material CRM

M6023

B ! 8/5/24

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https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (Tl)

Expiration Date: 062727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.1

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.10	Flask Uncertainty	

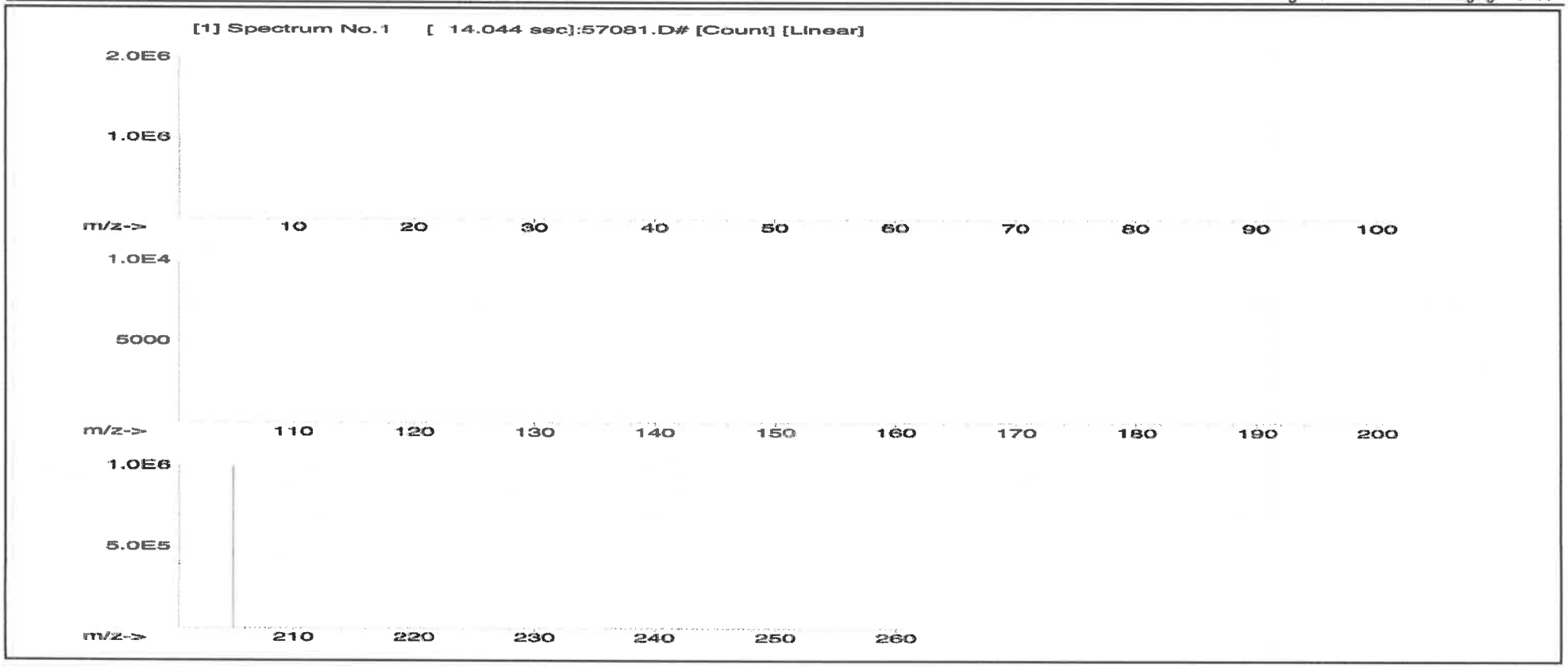
Aleah O'Brady

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



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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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Certified by:



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Certified Reference Material CRM

M6021

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Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		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	

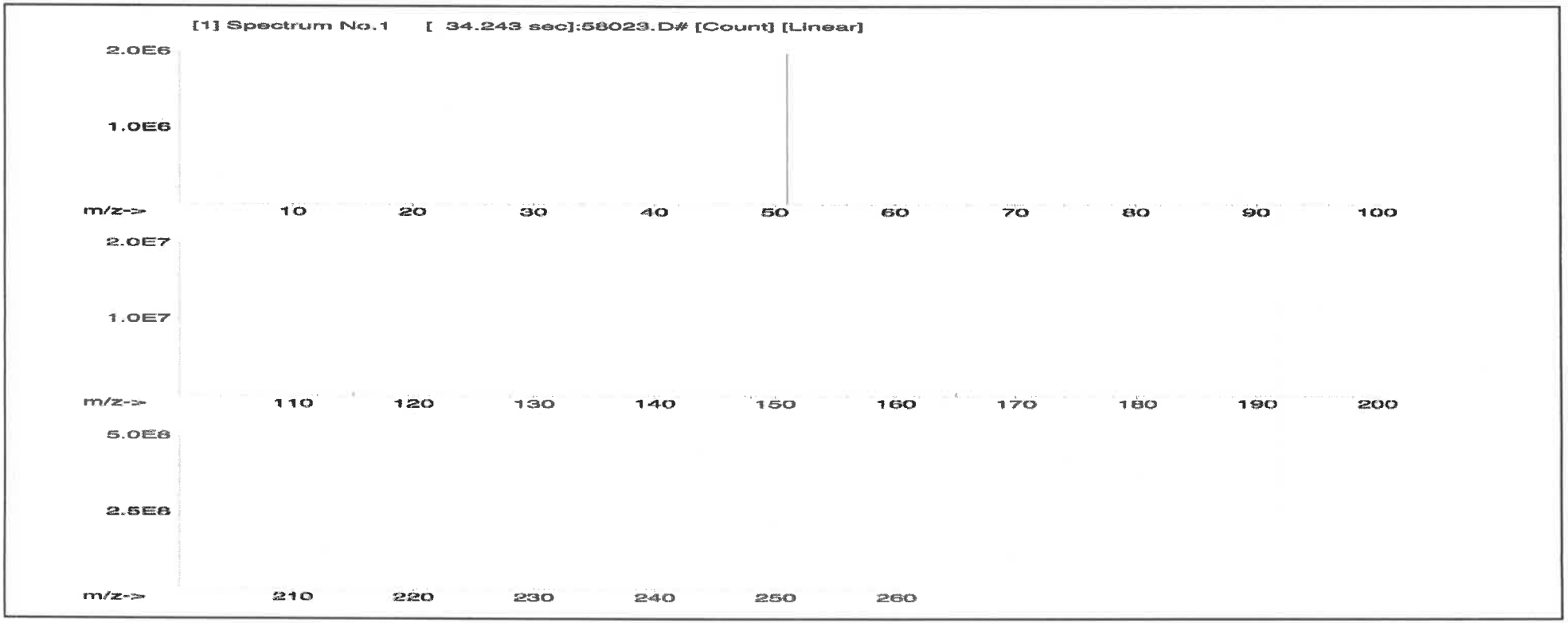
Aleah O'Brady

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



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Certified Reference Material CRM

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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

Q 3764

USEPA CLP COC (LAB COPY)
DateShipped: ~~11/26/2025~~ 12/2/2025
CarrierName: FedEx EM
AirbillNo: 8866 4105 7091

CHAIN OF CUSTODY RECORD

DAS #: R37106
Cooler #:

No: 3-112525-183225-0111
Lab: Alliance Technical Group, LLC
Lab Contact: Yazmeen Gomez
Lab Phone: (908) 728-3147

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-SW-01-20251125	MC0KD3	Surface Water/ START	Grab	Metals(7)	3196 (HNO3, 6 C) (1)	SW-01	11/25/2025 16:30	pH 1.0 # 513329
ET-SW-02-20251125	MC0KD4	Surface Water/ START	Grab	Metals(7)	3197 (HNO3, 6 C) (1)	SW-02	11/25/2025 15:25	
ET-SW-03-20251125	MC0KD5	Surface Water/ START	Grab	Metals(7)	3198 (HNO3, 6 C) (1)	SW-03	11/25/2025 15:35	
ET-SW-04-20251125	MC0KD6	Surface Water/ START	Grab	Metals(7)	3199 (HNO3, 6 C) (1)	SW-04	11/25/2025 14:20	
ET-WW-02-20251125	MC0KD8	Waste Water/ START	Grab	Metals(7)	3201 (HNO3, 6 C) (1)	WW-02	11/25/2025 15:50	
ET-WW-03-20251125	MC0KD9	Waste Water/ START	Grab	Metals(7)	3202 (HNO3, 6 C) (1)	WW-03	11/25/2025 16:50	
ET-WW-04-20251125	MC0KE0	Waste Water/ START	Grab	Metals(7)	3203 (HNO3, 6 C) (1)	WW-04	11/25/2025 14:43	
ET-WW-05-20251125	MC0KE1	Waste Water/ START	Grab	Metals(7)	3204 (HNO3, 6 C) (1)	WW-05	11/25/2025 15:07	
ET-WW-06-20251125	MC0KE2	Waste Water/ START	Grab	Metals(7)	3205 (HNO3, 6 C) (1)	WW-06	11/25/2025 16:00	
ET-WW-08-20251125	MC0KE4	Waste Water/ START	Grab	Metals(7)	3207 (HNO3, 6 C), 3219 (HNO3, 6 C) (2)	WW-08	11/25/2025 14:58	

Sample(s) to be used for Lab QC: ET-WW-08-20251125 Tag 3207, ET-WW-08-20251125 Tag 3219

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: Metals=CLP ICP-AES Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sample shipment	[signature] START	12/2/25 1130	[signature]	10:53 12/3/25	IR Gun #1 3.0°C

USEPA CLP COC (LAB COPY)
DateShipped: ~~11/25/2025~~ AH 12/2/2025
CarrierName: FedEx
AirbillNo: 8866 4105 7091

CHAIN OF CUSTODY RECORD

DAS #: R37106
Cooler #:

No: 3-112525-183225-0111
Lab: Alliance Technical Group, LLC
Lab Contact: Yazmeen Gomez
Lab Phone: (908) 728-3147

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-WW-01-20251125	MC0KF2	Waste Water/ START	Grab	Metals(7)	3215 (HNO3, 6 C) (1)	WW-01	11/25/2025 16:10	pH 1.0 # 513329
ET-DUP01-20251125	MC0KF4	Waste Water/ START	Grab	Metals(7)	3217 (HNO3, 6 C) (1)	QC	11/25/2025 12:00	1

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: Metals=CLP ICP-AES Metals	

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Sample shipment	[signature] /START	12/2/25 1130	[signature]	10:53 12/3/25	IR Gun #1 3.0°C

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