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

DATA PACKAGE

METALS

PROJECT NAME : AE1-CTY 3.2.Z-PR-DOCK-DES-ODC - 60693795-1719206

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID : Q3422

ATTENTION : Rob Forstner

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

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Cover Page

Order ID : Q3422

Project ID : AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client : AECOM

Lab Sample Number	Client Sample Number
Q3422-01	PR132-S15-000008-20251021
Q3422-02	PR132-FB2-20251021

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

Signature : _____

Date: 11/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM
Project Name: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Project # N/A
Order ID # Q3422
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 10/21/2025.
1 Water sample was received on 10/21/2025.

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

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate (COMPOSITEDUP) analysis met criteria for all compounds except for Potassium due to sample matrix interference.
The Matrix Spike (COMPOSITEMS) analysis met criteria for all compounds except for Antimony, Arsenic, Iron, Potassium, Selenium, Silver and Zinc due to Chemical Interference during Digestion process.
The Matrix Spike Duplicate (COMPOSITEMSD) analysis met criteria for all compounds except for Iron, Potassium, Selenium, Silver and Zinc 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 criteria for all compounds.

E. Additional Comments:
The Post Digest Spike (COMPOSITEA) analysis met criteria for all compounds except for Iron, Potassium and Silver, due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

In analytical Sequence LB137662, The Result was outside acceptance Limit for Sodium of CCB05 but, no any samples parameter associated under this CCB.

In analytical Sequence LB137677, The Result was outside acceptance Limit for Iron of CCB10 but, no any samples parameter associated under this CCB.

In analytical Sequence LB137677, The Recovery was outside acceptance Limit for Sodium of CCV09 but, no any samples parameter associated under this CCV.

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_____

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

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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: Q3422 MATRIX: Solid, Water

METHOD: 6010D,7470A

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
	The Serial Dilution met criteria for all compounds.			
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 (COMPOSITEMS) analysis met criteria for all compounds except for Antimony, Arsenic, Iron, Potassium, Selenium, Silver and Zinc due to Chemical Interference during Digestion process. The Matrix Spike Duplicate (COMPOSITEMSD) analysis met criteria for all compounds except for Iron, Potassium, Selenium, Silver and Zinc 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.			
	The Duplicate (COMPOSITEDUP) analysis met criteria for all compounds except for Potassium due to sample matrix interference.			
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.			

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS: The Post Digest Spike (COMPOSITEA) analysis met criteria for all compounds except for Iron, Potassium and Silver, due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

In analytical Sequence LB137662, The Result was outside acceptance Limit for Sodium of CCB05 but, no any samples parameter associated under this CCB.

In analytical Sequence LB137677, The Result was outside acceptance Limit for Iron of CCB10 but, no any samples parameter associated under this CCB.

In analytical Sequence LB137677, The Recovery was outside acceptance Limit for Sodium of CCV09 but, no any samples parameter associated under this CCV.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3422

	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:** 11/03/2025

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LAB CHRONICLE

OrderID:	Q3422	**OrderDate:**	10/22/2025 11:11:00 AM
Client:	AECOM	**Project:**	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Contact:	Rob Forstner	**Location:**	D41, VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3422-02	**PR132-FB2-20251021**	**Water**			**10/21/25**			**10/21/25**
			Mercury	7470A		10/23/25	10/24/25	
			Metals ICP-TAL	6010D		10/23/25	10/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3422 **Order ID:** Q3422

Client: AECOM **Project ID:** AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PR132-FB2-20251021								
Q3422-02	PR132-FB2-20251021	Water	Aluminum	10.0	J	5.67	50.0	ug/L
Q3422-02	PR132-FB2-20251021	Water	Chromium	2.64	J	1.06	5.00	ug/L
Q3422-02	PR132-FB2-20251021	Water	Iron	13.1	J	11.7	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	10/21/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/21/25
Client Sample ID:	PR132-FB2-20251021	SDG No.:	Q3422
Lab Sample ID:	Q3422-02	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	10.0	J	1	5.67	50.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-36-0	Antimony	25.0	UN	1	3.38	25.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-38-2	Arsenic	10.0	UN	1	2.56	10.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-39-3	Barium	50.0	U	1	7.28	50.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-41-7	Beryllium	3.00	U	1	0.28	3.00	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-43-9	Cadmium	3.00	U	1	0.25	3.00	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-70-2	Calcium	1000	U	1	117	1000	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-47-3	Chromium	2.64	J	1	1.06	5.00	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-48-4	Cobalt	15.0	U	1	1.13	15.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-50-8	Copper	10.0	U	1	2.30	10.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7439-89-6	Iron	13.1	JN	1	11.7	50.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7439-92-1	Lead	6.00	U	1	1.15	6.00	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7439-95-4	Magnesium	1000	U	1	122	1000	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7439-96-5	Manganese	10.0	U	1	2.97	10.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7439-97-6	Mercury	0.20	U	1	0.076	0.20	ug/L	10/23/25 09:32	10/24/25 10:59	7470A	
7440-02-0	Nickel	20.0	U	1	1.53	20.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-09-7	Potassium	1000	UN*	1	459	1000	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7782-49-2	Selenium	10.0	UN	1	4.82	10.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-22-4	Silver	5.00	UN	1	0.81	5.00	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-23-5	Sodium	1000	U	1	434	1000	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-28-0	Thallium	20.0	U	1	2.19	20.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-62-2	Vanadium	20.0	U	1	3.13	20.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	
7440-66-6	Zinc	20.0	UN	1	8.33	20.0	ug/L	10/23/25 10:35	10/28/25 15:57	6010D	

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

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

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV86	Mercury	4.16	4.0	104	90 - 110	CV	10/24/2025	09:20	LB137632

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV83	Mercury	4.66	5.0	93	90 - 110	CV	10/24/2025	09:25	LB137632
CCV84	Mercury	5.06	5.0	101	90 - 110	CV	10/24/2025	10:09	LB137632
CCV85	Mercury	5.05	5.0	101	90 - 110	CV	10/24/2025	10:40	LB137632
CCV86	Mercury	5.01	5.0	100	90 - 110	CV	10/24/2025	11:12	LB137632
CCV87	Mercury	4.70	5.0	94	90 - 110	CV	10/24/2025	11:33	LB137632

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	7820	8000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Antimony	4010	4000	100	90 - 110	P	10/24/2025	14:33	LB137662
	Arsenic	3950	4000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Barium	7700	8000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Beryllium	198	200	99	90 - 110	P	10/24/2025	14:33	LB137662
	Cadmium	1950	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Calcium	19400	20000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Chromium	812	800	101	90 - 110	P	10/24/2025	14:33	LB137662
	Cobalt	1960	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Copper	1010	1000	101	90 - 110	P	10/24/2025	14:33	LB137662
	Iron	3910	4000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Lead	3830	4000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Magnesium	19500	20000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Manganese	1920	2000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Nickel	1970	2000	98	90 - 110	P	10/24/2025	14:33	LB137662
	Potassium	19100	20000	96	90 - 110	P	10/24/2025	14:33	LB137662
	Selenium	3970	4000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Silver	986	1000	99	90 - 110	P	10/24/2025	14:33	LB137662
	Sodium	18600	20000	93	90 - 110	P	10/24/2025	14:33	LB137662
	Thallium	4010	4000	100	90 - 110	P	10/24/2025	14:33	LB137662
	Vanadium	1950	2000	97	90 - 110	P	10/24/2025	14:33	LB137662
	Zinc	1980	2000	99	90 - 110	P	10/24/2025	14:33	LB137662

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	108	100	108	80 - 120	P	10/24/2025	14:38	LB137662
	Antimony	52.6	50.0	105	80 - 120	P	10/24/2025	14:38	LB137662
	Arsenic	23.0	20.0	115	80 - 120	P	10/24/2025	14:38	LB137662
	Barium	100	100	100	80 - 120	P	10/24/2025	14:38	LB137662
	Beryllium	6.40	6.0	107	80 - 120	P	10/24/2025	14:38	LB137662
	Cadmium	6.05	6.0	101	80 - 120	P	10/24/2025	14:38	LB137662
	Calcium	2100	2000	105	80 - 120	P	10/24/2025	14:38	LB137662
	Chromium	10.4	10.0	104	80 - 120	P	10/24/2025	14:38	LB137662
	Cobalt	30.5	30.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Copper	22.9	20.0	114	80 - 120	P	10/24/2025	14:38	LB137662
	Iron	104	100	104	80 - 120	P	10/24/2025	14:38	LB137662
	Lead	12.9	12.0	107	80 - 120	P	10/24/2025	14:38	LB137662
	Magnesium	2170	2000	109	80 - 120	P	10/24/2025	14:38	LB137662
	Manganese	22.0	20.0	110	80 - 120	P	10/24/2025	14:38	LB137662
	Nickel	40.7	40.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Potassium	2010	2000	101	80 - 120	P	10/24/2025	14:38	LB137662
	Selenium	20.8	20.0	104	80 - 120	P	10/24/2025	14:38	LB137662
	Silver	11.2	10.0	112	80 - 120	P	10/24/2025	14:38	LB137662
	Sodium	1900	2000	95	80 - 120	P	10/24/2025	14:38	LB137662
	Thallium	45.9	40.0	115	80 - 120	P	10/24/2025	14:38	LB137662
	Vanadium	40.6	40.0	102	80 - 120	P	10/24/2025	14:38	LB137662
	Zinc	43.9	40.0	110	80 - 120	P	10/24/2025	14:38	LB137662

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Antimony	5110	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Arsenic	5130	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Barium	9810	10000	98	90 - 110	P	10/24/2025	15:12	LB137662
	Beryllium	253	250	101	90 - 110	P	10/24/2025	15:12	LB137662
	Cadmium	2550	2500	102	90 - 110	P	10/24/2025	15:12	LB137662
	Calcium	25100	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Chromium	1030	1000	103	90 - 110	P	10/24/2025	15:12	LB137662
	Cobalt	2530	2500	101	90 - 110	P	10/24/2025	15:12	LB137662
	Copper	1280	1250	102	90 - 110	P	10/24/2025	15:12	LB137662
	Iron	5070	5000	102	90 - 110	P	10/24/2025	15:12	LB137662
	Lead	5060	5000	101	90 - 110	P	10/24/2025	15:12	LB137662
	Magnesium	25100	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Manganese	2480	2500	99	90 - 110	P	10/24/2025	15:12	LB137662
	Nickel	2540	2500	102	90 - 110	P	10/24/2025	15:12	LB137662
	Potassium	24900	25000	100	90 - 110	P	10/24/2025	15:12	LB137662
	Selenium	5140	5000	103	90 - 110	P	10/24/2025	15:12	LB137662
	Silver	1270	1250	102	90 - 110	P	10/24/2025	15:12	LB137662
	Sodium	24300	25000	97	90 - 110	P	10/24/2025	15:12	LB137662
	Thallium	5220	5000	104	90 - 110	P	10/24/2025	15:12	LB137662
	Vanadium	2500	2500	100	90 - 110	P	10/24/2025	15:12	LB137662
	Zinc	2580	2500	103	90 - 110	P	10/24/2025	15:12	LB137662
CCV02	Aluminum	10300	10000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Antimony	5070	5000	101	90 - 110	P	10/24/2025	16:32	LB137662
	Arsenic	5130	5000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Barium	10100	10000	101	90 - 110	P	10/24/2025	16:32	LB137662
	Beryllium	268	250	107	90 - 110	P	10/24/2025	16:32	LB137662
	Cadmium	2580	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Calcium	25700	25000	103	90 - 110	P	10/24/2025	16:32	LB137662
	Chromium	1050	1000	105	90 - 110	P	10/24/2025	16:32	LB137662
	Cobalt	2560	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Copper	1290	1250	103	90 - 110	P	10/24/2025	16:32	LB137662
	Iron	5080	5000	102	90 - 110	P	10/24/2025	16:32	LB137662
	Lead	5110	5000	102	90 - 110	P	10/24/2025	16:32	LB137662

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	25900	25000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	16:32	LB137662
	Nickel	2570	2500	103	90 - 110	P	10/24/2025	16:32	LB137662
	Potassium	26000	25000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Selenium	5120	5000	102	90 - 110	P	10/24/2025	16:32	LB137662
	Silver	1300	1250	104	90 - 110	P	10/24/2025	16:32	LB137662
	Sodium	27200	25000	109	90 - 110	P	10/24/2025	16:32	LB137662
	Thallium	5190	5000	104	90 - 110	P	10/24/2025	16:32	LB137662
	Vanadium	2550	2500	102	90 - 110	P	10/24/2025	16:32	LB137662
	Zinc	2610	2500	104	90 - 110	P	10/24/2025	16:32	LB137662
CCV03	Aluminum	10300	10000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Antimony	4880	5000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Arsenic	4980	5000	100	90 - 110	P	10/24/2025	18:29	LB137662
	Barium	10100	10000	101	90 - 110	P	10/24/2025	18:29	LB137662
	Beryllium	274	250	110	90 - 110	P	10/24/2025	18:29	LB137662
	Cadmium	2530	2500	101	90 - 110	P	10/24/2025	18:29	LB137662
	Calcium	25800	25000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Chromium	1040	1000	104	90 - 110	P	10/24/2025	18:29	LB137662
	Cobalt	2500	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
	Copper	1250	1250	100	90 - 110	P	10/24/2025	18:29	LB137662
	Iron	5170	5000	103	90 - 110	P	10/24/2025	18:29	LB137662
	Lead	5010	5000	100	90 - 110	P	10/24/2025	18:29	LB137662
	Magnesium	26100	25000	104	90 - 110	P	10/24/2025	18:29	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	18:29	LB137662
	Nickel	2510	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
	Potassium	24500	25000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Selenium	4940	5000	99	90 - 110	P	10/24/2025	18:29	LB137662
	Silver	1270	1250	102	90 - 110	P	10/24/2025	18:29	LB137662
	Sodium	24500	25000	98	90 - 110	P	10/24/2025	18:29	LB137662
	Thallium	5060	5000	101	90 - 110	P	10/24/2025	18:29	LB137662
	Vanadium	2550	2500	102	90 - 110	P	10/24/2025	18:29	LB137662
	Zinc	2490	2500	100	90 - 110	P	10/24/2025	18:29	LB137662
CCV04	Aluminum	9950	10000	100	90 - 110	P	10/24/2025	19:19	LB137662
	Antimony	4810	5000	96	90 - 110	P	10/24/2025	19:19	LB137662

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	4830	5000	97	90 - 110	P	10/24/2025	19:19	LB137662
	Barium	10200	10000	102	90 - 110	P	10/24/2025	19:19	LB137662
	Beryllium	265	250	106	90 - 110	P	10/24/2025	19:19	LB137662
	Cadmium	2490	2500	100	90 - 110	P	10/24/2025	19:19	LB137662
	Calcium	25200	25000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Chromium	1010	1000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Cobalt	2470	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Copper	1240	1250	99	90 - 110	P	10/24/2025	19:19	LB137662
	Iron	4840	5000	97	90 - 110	P	10/24/2025	19:19	LB137662
	Lead	4940	5000	99	90 - 110	P	10/24/2025	19:19	LB137662
	Magnesium	25200	25000	101	90 - 110	P	10/24/2025	19:19	LB137662
	Manganese	2560	2500	102	90 - 110	P	10/24/2025	19:19	LB137662
	Nickel	2480	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Potassium	23800	25000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Selenium	4770	5000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Silver	1230	1250	98	90 - 110	P	10/24/2025	19:19	LB137662
	Sodium	24500	25000	98	90 - 110	P	10/24/2025	19:19	LB137662
	Thallium	4750	5000	95	90 - 110	P	10/24/2025	19:19	LB137662
	Vanadium	2480	2500	99	90 - 110	P	10/24/2025	19:19	LB137662
	Zinc	2430	2500	97	90 - 110	P	10/24/2025	19:19	LB137662
CCV05	Aluminum	9880	10000	99	90 - 110	P	10/24/2025	20:06	LB137662
	Antimony	4740	5000	95	90 - 110	P	10/24/2025	20:06	LB137662
	Arsenic	4800	5000	96	90 - 110	P	10/24/2025	20:06	LB137662
	Barium	9900	10000	99	90 - 110	P	10/24/2025	20:06	LB137662
	Beryllium	265	250	106	90 - 110	P	10/24/2025	20:06	LB137662
	Cadmium	2480	2500	99	90 - 110	P	10/24/2025	20:06	LB137662
	Calcium	24900	25000	100	90 - 110	P	10/24/2025	20:06	LB137662
	Chromium	1010	1000	101	90 - 110	P	10/24/2025	20:06	LB137662
	Cobalt	2450	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Copper	1230	1250	98	90 - 110	P	10/24/2025	20:06	LB137662
	Iron	4680	5000	94	90 - 110	P	10/24/2025	20:06	LB137662
	Lead	4890	5000	98	90 - 110	P	10/24/2025	20:06	LB137662
	Magnesium	25200	25000	101	90 - 110	P	10/24/2025	20:06	LB137662
	Manganese	2510	2500	100	90 - 110	P	10/24/2025	20:06	LB137662

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2460	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Potassium	23900	25000	96	90 - 110	P	10/24/2025	20:06	LB137662
	Selenium	4730	5000	94	90 - 110	P	10/24/2025	20:06	LB137662
	Silver	1210	1250	97	90 - 110	P	10/24/2025	20:06	LB137662
	Sodium	24900	25000	100	90 - 110	P	10/24/2025	20:06	LB137662
	Thallium	4910	5000	98	90 - 110	P	10/24/2025	20:06	LB137662
	Vanadium	2450	2500	98	90 - 110	P	10/24/2025	20:06	LB137662
	Zinc	2420	2500	97	90 - 110	P	10/24/2025	20:06	LB137662

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	7290	8000	91	90 - 110	P	10/28/2025	12:30	LB137677
	Antimony	3900	4000	97	90 - 110	P	10/28/2025	12:30	LB137677
	Arsenic	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Barium	7600	8000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Beryllium	191	200	95	90 - 110	P	10/28/2025	12:30	LB137677
	Cadmium	1900	2000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Calcium	18800	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Chromium	783	800	98	90 - 110	P	10/28/2025	12:30	LB137677
	Cobalt	1920	2000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Copper	983	1000	98	90 - 110	P	10/28/2025	12:30	LB137677
	Iron	3830	4000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Lead	3730	4000	93	90 - 110	P	10/28/2025	12:30	LB137677
	Magnesium	18800	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Manganese	1880	2000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Nickel	1920	2000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Potassium	19000	20000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Selenium	3820	4000	95	90 - 110	P	10/28/2025	12:30	LB137677
	Silver	963	1000	96	90 - 110	P	10/28/2025	12:30	LB137677
	Sodium	18700	20000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Thallium	3890	4000	97	90 - 110	P	10/28/2025	12:30	LB137677
	Vanadium	1880	2000	94	90 - 110	P	10/28/2025	12:30	LB137677
	Zinc	1930	2000	97	90 - 110	P	10/28/2025	12:30	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	104	100	104	80 - 120	P	10/28/2025	12:34	LB137677
	Antimony	52.9	50.0	106	80 - 120	P	10/28/2025	12:34	LB137677
	Arsenic	20.3	20.0	102	80 - 120	P	10/28/2025	12:34	LB137677
	Barium	93.0	100	93	80 - 120	P	10/28/2025	12:34	LB137677
	Beryllium	6.41	6.0	107	80 - 120	P	10/28/2025	12:34	LB137677
	Cadmium	5.86	6.0	98	80 - 120	P	10/28/2025	12:34	LB137677
	Calcium	1990	2000	100	80 - 120	P	10/28/2025	12:34	LB137677
	Chromium	10.6	10.0	106	80 - 120	P	10/28/2025	12:34	LB137677
	Cobalt	29.8	30.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Copper	22.2	20.0	111	80 - 120	P	10/28/2025	12:34	LB137677
	Iron	98.8	100	99	80 - 120	P	10/28/2025	12:34	LB137677
	Lead	12.0	12.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Magnesium	2050	2000	103	80 - 120	P	10/28/2025	12:34	LB137677
	Manganese	20.1	20.0	101	80 - 120	P	10/28/2025	12:34	LB137677
	Nickel	39.9	40.0	100	80 - 120	P	10/28/2025	12:34	LB137677
	Potassium	1840	2000	92	80 - 120	P	10/28/2025	12:34	LB137677
	Selenium	20.7	20.0	104	80 - 120	P	10/28/2025	12:34	LB137677
	Silver	12.0	10.0	120	80 - 120	P	10/28/2025	12:34	LB137677
	Sodium	1730	2000	86	80 - 120	P	10/28/2025	12:34	LB137677
	Thallium	44.4	40.0	111	80 - 120	P	10/28/2025	12:34	LB137677
	Vanadium	37.3	40.0	93	80 - 120	P	10/28/2025	12:34	LB137677
	Zinc	42.5	40.0	106	80 - 120	P	10/28/2025	12:34	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	10400	10000	104	90 - 110	P	10/28/2025	13:03	LB137677
	Antimony	4970	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	13:03	LB137677
	Beryllium	246	250	98	90 - 110	P	10/28/2025	13:03	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Calcium	24600	25000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Chromium	989	1000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Cobalt	2490	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	13:03	LB137677
	Iron	5030	5000	101	90 - 110	P	10/28/2025	13:03	LB137677
	Lead	4910	5000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Magnesium	24200	25000	97	90 - 110	P	10/28/2025	13:03	LB137677
	Manganese	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Nickel	2480	2500	99	90 - 110	P	10/28/2025	13:03	LB137677
	Potassium	24700	25000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Selenium	4960	5000	99	90 - 110	P	10/28/2025	13:03	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	13:03	LB137677
	Sodium	24600	25000	98	90 - 110	P	10/28/2025	13:03	LB137677
	Thallium	5020	5000	100	90 - 110	P	10/28/2025	13:03	LB137677
	Vanadium	2460	2500	98	90 - 110	P	10/28/2025	13:03	LB137677
	Zinc	2500	2500	100	90 - 110	P	10/28/2025	13:03	LB137677
CCV02	Aluminum	11000	10000	110	90 - 110	P	10/28/2025	14:01	LB137677
	Antimony	5220	5000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Arsenic	5220	5000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	14:01	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	14:01	LB137677
	Cadmium	2610	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Calcium	25900	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Chromium	1060	1000	106	90 - 110	P	10/28/2025	14:01	LB137677
	Cobalt	2600	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Copper	1300	1250	104	90 - 110	P	10/28/2025	14:01	LB137677
	Iron	5170	5000	103	90 - 110	P	10/28/2025	14:01	LB137677
	Lead	5150	5000	103	90 - 110	P	10/28/2025	14:01	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	25800	25000	103	90 - 110	P	10/28/2025	14:01	LB137677
	Manganese	2560	2500	102	90 - 110	P	10/28/2025	14:01	LB137677
	Nickel	2600	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
	Potassium	26100	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Selenium	5230	5000	105	90 - 110	P	10/28/2025	14:01	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	14:01	LB137677
	Sodium	26000	25000	104	90 - 110	P	10/28/2025	14:01	LB137677
	Thallium	5450	5000	109	90 - 110	P	10/28/2025	14:01	LB137677
	Vanadium	2590	2500	103	90 - 110	P	10/28/2025	14:01	LB137677
	Zinc	2590	2500	104	90 - 110	P	10/28/2025	14:01	LB137677
CCV03	Aluminum	10000	10000	100	90 - 110	P	10/28/2025	14:53	LB137677
	Antimony	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Arsenic	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	14:53	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	14:53	LB137677
	Cadmium	2510	2500	101	90 - 110	P	10/28/2025	14:53	LB137677
	Calcium	25900	25000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Chromium	1040	1000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Cobalt	2520	2500	101	90 - 110	P	10/28/2025	14:53	LB137677
	Copper	1260	1250	101	90 - 110	P	10/28/2025	14:53	LB137677
	Iron	5130	5000	103	90 - 110	P	10/28/2025	14:53	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Magnesium	25700	25000	103	90 - 110	P	10/28/2025	14:53	LB137677
	Manganese	2640	2500	106	90 - 110	P	10/28/2025	14:53	LB137677
	Nickel	2510	2500	100	90 - 110	P	10/28/2025	14:53	LB137677
	Potassium	26000	25000	104	90 - 110	P	10/28/2025	14:53	LB137677
	Selenium	4940	5000	99	90 - 110	P	10/28/2025	14:53	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	14:53	LB137677
	Sodium	27500	25000	110	90 - 110	P	10/28/2025	14:53	LB137677
	Thallium	5070	5000	101	90 - 110	P	10/28/2025	14:53	LB137677
	Vanadium	2570	2500	103	90 - 110	P	10/28/2025	14:53	LB137677
	Zinc	2560	2500	102	90 - 110	P	10/28/2025	14:53	LB137677
CCV04	Aluminum	9560	10000	96	90 - 110	P	10/28/2025	15:45	LB137677
	Antimony	4910	5000	98	90 - 110	P	10/28/2025	15:45	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Barium	9920	10000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Beryllium	256	250	102	90 - 110	P	10/28/2025	15:45	LB137677
	Cadmium	2500	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Calcium	24700	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Chromium	1000	1000	100	90 - 110	P	10/28/2025	15:45	LB137677
	Cobalt	2490	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	15:45	LB137677
	Iron	4890	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Lead	4920	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Magnesium	24700	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Manganese	2500	2500	100	90 - 110	P	10/28/2025	15:45	LB137677
	Nickel	2490	2500	99	90 - 110	P	10/28/2025	15:45	LB137677
	Potassium	24800	25000	99	90 - 110	P	10/28/2025	15:45	LB137677
	Selenium	4930	5000	98	90 - 110	P	10/28/2025	15:45	LB137677
	Silver	1240	1250	99	90 - 110	P	10/28/2025	15:45	LB137677
	Sodium	25700	25000	103	90 - 110	P	10/28/2025	15:45	LB137677
	Thallium	5210	5000	104	90 - 110	P	10/28/2025	15:45	LB137677
	Vanadium	2460	2500	98	90 - 110	P	10/28/2025	15:45	LB137677
	Zinc	2480	2500	99	90 - 110	P	10/28/2025	15:45	LB137677
CCV05	Aluminum	9900	10000	99	90 - 110	P	10/28/2025	16:35	LB137677
	Antimony	5120	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Arsenic	5100	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Barium	10300	10000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	16:35	LB137677
	Cadmium	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Calcium	25500	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	16:35	LB137677
	Cobalt	2580	2500	103	90 - 110	P	10/28/2025	16:35	LB137677
	Copper	1290	1250	103	90 - 110	P	10/28/2025	16:35	LB137677
	Iron	5070	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Lead	5060	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Magnesium	25400	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Manganese	2590	2500	104	90 - 110	P	10/28/2025	16:35	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Potassium	25500	25000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Selenium	5090	5000	102	90 - 110	P	10/28/2025	16:35	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	16:35	LB137677
	Sodium	26400	25000	106	90 - 110	P	10/28/2025	16:35	LB137677
	Thallium	5040	5000	101	90 - 110	P	10/28/2025	16:35	LB137677
	Vanadium	2540	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
	Zinc	2560	2500	102	90 - 110	P	10/28/2025	16:35	LB137677
CCV06	Aluminum	9680	10000	97	90 - 110	P	10/28/2025	17:27	LB137677
	Antimony	4940	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Arsenic	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Barium	10000	10000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Beryllium	264	250	106	90 - 110	P	10/28/2025	17:27	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
	Calcium	25000	25000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	17:27	LB137677
	Cobalt	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
	Copper	1260	1250	101	90 - 110	P	10/28/2025	17:27	LB137677
	Iron	4880	5000	98	90 - 110	P	10/28/2025	17:27	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Magnesium	25000	25000	100	90 - 110	P	10/28/2025	17:27	LB137677
	Manganese	2540	2500	102	90 - 110	P	10/28/2025	17:27	LB137677
	Nickel	2510	2500	100	90 - 110	P	10/28/2025	17:27	LB137677
	Potassium	24500	25000	98	90 - 110	P	10/28/2025	17:27	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	17:27	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	17:27	LB137677
	Sodium	25300	25000	101	90 - 110	P	10/28/2025	17:27	LB137677
	Thallium	4770	5000	96	90 - 110	P	10/28/2025	17:27	LB137677
	Vanadium	2480	2500	99	90 - 110	P	10/28/2025	17:27	LB137677
	Zinc	2520	2500	101	90 - 110	P	10/28/2025	17:27	LB137677
CCV07	Aluminum	9740	10000	97	90 - 110	P	10/28/2025	18:17	LB137677
	Antimony	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Arsenic	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Barium	10200	10000	102	90 - 110	P	10/28/2025	18:17	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	258	250	103	90 - 110	P	10/28/2025	18:17	LB137677
	Cadmium	2520	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Calcium	25200	25000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Cobalt	2530	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Copper	1270	1250	101	90 - 110	P	10/28/2025	18:17	LB137677
	Iron	4990	5000	100	90 - 110	P	10/28/2025	18:17	LB137677
	Lead	4950	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Magnesium	25100	25000	100	90 - 110	P	10/28/2025	18:17	LB137677
	Manganese	2570	2500	103	90 - 110	P	10/28/2025	18:17	LB137677
	Nickel	2530	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
	Potassium	24500	25000	98	90 - 110	P	10/28/2025	18:17	LB137677
	Selenium	4970	5000	99	90 - 110	P	10/28/2025	18:17	LB137677
	Silver	1260	1250	101	90 - 110	P	10/28/2025	18:17	LB137677
	Sodium	25200	25000	101	90 - 110	P	10/28/2025	18:17	LB137677
	Thallium	4740	5000	95	90 - 110	P	10/28/2025	18:17	LB137677
	Vanadium	2490	2500	100	90 - 110	P	10/28/2025	18:17	LB137677
	Zinc	2520	2500	101	90 - 110	P	10/28/2025	18:17	LB137677
CCV08	Aluminum	10800	10000	108	90 - 110	P	10/28/2025	19:06	LB137677
	Antimony	5100	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Arsenic	5110	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Barium	10500	10000	105	90 - 110	P	10/28/2025	19:06	LB137677
	Beryllium	269	250	108	90 - 110	P	10/28/2025	19:06	LB137677
	Cadmium	2600	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Calcium	26100	25000	104	90 - 110	P	10/28/2025	19:06	LB137677
	Chromium	1030	1000	103	90 - 110	P	10/28/2025	19:06	LB137677
	Cobalt	2610	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Copper	1300	1250	104	90 - 110	P	10/28/2025	19:06	LB137677
	Iron	5140	5000	103	90 - 110	P	10/28/2025	19:06	LB137677
	Lead	5090	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Magnesium	25900	25000	104	90 - 110	P	10/28/2025	19:06	LB137677
	Manganese	2670	2500	107	90 - 110	P	10/28/2025	19:06	LB137677
	Nickel	2600	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Potassium	25200	25000	101	90 - 110	P	10/28/2025	19:06	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	5120	5000	102	90 - 110	P	10/28/2025	19:06	LB137677
	Silver	1290	1250	104	90 - 110	P	10/28/2025	19:06	LB137677
	Sodium	26400	25000	106	90 - 110	P	10/28/2025	19:06	LB137677
	Thallium	4880	5000	98	90 - 110	P	10/28/2025	19:06	LB137677
	Vanadium	2590	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
	Zinc	2590	2500	104	90 - 110	P	10/28/2025	19:06	LB137677
CCV09	Aluminum	9840	10000	98	90 - 110	P	10/28/2025	19:58	LB137677
	Antimony	4980	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Arsenic	4990	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Barium	10300	10000	104	90 - 110	P	10/28/2025	19:58	LB137677
	Beryllium	262	250	105	90 - 110	P	10/28/2025	19:58	LB137677
	Cadmium	2530	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Calcium	25500	25000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Chromium	1010	1000	101	90 - 110	P	10/28/2025	19:58	LB137677
	Cobalt	2540	2500	102	90 - 110	P	10/28/2025	19:58	LB137677
	Copper	1270	1250	102	90 - 110	P	10/28/2025	19:58	LB137677
	Iron	5120	5000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Lead	4960	5000	99	90 - 110	P	10/28/2025	19:58	LB137677
	Magnesium	25300	25000	101	90 - 110	P	10/28/2025	19:58	LB137677
	Manganese	2620	2500	105	90 - 110	P	10/28/2025	19:58	LB137677
	Nickel	2530	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Potassium	25600	25000	102	90 - 110	P	10/28/2025	19:58	LB137677
	Selenium	5000	5000	100	90 - 110	P	10/28/2025	19:58	LB137677
	Silver	1280	1250	102	90 - 110	P	10/28/2025	19:58	LB137677
	Sodium	27900	25000	112	90 - 110	P	10/28/2025	19:58	LB137677
	Thallium	4670	5000	93	90 - 110	P	10/28/2025	19:58	LB137677
	Vanadium	2520	2500	101	90 - 110	P	10/28/2025	19:58	LB137677
	Zinc	2560	2500	103	90 - 110	P	10/28/2025	19:58	LB137677
CCV10	Aluminum	9480	10000	95	90 - 110	P	10/28/2025	20:49	LB137677
	Antimony	4890	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Arsenic	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Barium	10100	10000	101	90 - 110	P	10/28/2025	20:49	LB137677
	Beryllium	251	250	100	90 - 110	P	10/28/2025	20:49	LB137677
	Cadmium	2480	2500	99	90 - 110	P	10/28/2025	20:49	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	24800	25000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Chromium	987	1000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Cobalt	2490	2500	100	90 - 110	P	10/28/2025	20:49	LB137677
	Copper	1250	1250	100	90 - 110	P	10/28/2025	20:49	LB137677
	Iron	4970	5000	99	90 - 110	P	10/28/2025	20:49	LB137677
	Lead	4850	5000	97	90 - 110	P	10/28/2025	20:49	LB137677
	Magnesium	24400	25000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Manganese	2550	2500	102	90 - 110	P	10/28/2025	20:49	LB137677
	Nickel	2480	2500	99	90 - 110	P	10/28/2025	20:49	LB137677
	Potassium	24600	25000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Selenium	4880	5000	98	90 - 110	P	10/28/2025	20:49	LB137677
	Silver	1230	1250	99	90 - 110	P	10/28/2025	20:49	LB137677
	Sodium	25800	25000	103	90 - 110	P	10/28/2025	20:49	LB137677
	Thallium	4470	5000	90	90 - 110	P	10/28/2025	20:49	LB137677
	Vanadium	2450	2500	98	90 - 110	P	10/28/2025	20:49	LB137677
	Zinc	2450	2500	98	90 - 110	P	10/28/2025	20:49	LB137677

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	7260	8000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Antimony	3850	4000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Arsenic	3760	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Barium	7490	8000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Beryllium	188	200	94	90 - 110	P	10/29/2025	14:01	LB137697
	Cadmium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Calcium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Chromium	770	800	96	90 - 110	P	10/29/2025	14:01	LB137697
	Cobalt	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Copper	961	1000	96	90 - 110	P	10/29/2025	14:01	LB137697
	Iron	3790	4000	95	90 - 110	P	10/29/2025	14:01	LB137697
	Lead	3650	4000	91	90 - 110	P	10/29/2025	14:01	LB137697
	Magnesium	18700	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Manganese	1870	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Nickel	1880	2000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Potassium	18700	20000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Selenium	3780	4000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Silver	969	1000	97	90 - 110	P	10/29/2025	14:01	LB137697
	Sodium	18800	20000	94	90 - 110	P	10/29/2025	14:01	LB137697
	Thallium	3970	4000	99	90 - 110	P	10/29/2025	14:01	LB137697
	Vanadium	1860	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Zinc	1900	2000	95	90 - 110	P	10/29/2025	14:01	LB137697

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	103	100	103	80 - 120	P	10/29/2025	14:07	LB137697
	Antimony	51.5	50.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Arsenic	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Barium	105	100	105	80 - 120	P	10/29/2025	14:07	LB137697
	Beryllium	6.45	6.0	108	80 - 120	P	10/29/2025	14:07	LB137697
	Cadmium	5.83	6.0	97	80 - 120	P	10/29/2025	14:07	LB137697
	Calcium	2080	2000	104	80 - 120	P	10/29/2025	14:07	LB137697
	Chromium	10.3	10.0	102	80 - 120	P	10/29/2025	14:07	LB137697
	Cobalt	30.0	30.0	100	80 - 120	P	10/29/2025	14:07	LB137697
	Copper	22.0	20.0	110	80 - 120	P	10/29/2025	14:07	LB137697
	Iron	107	100	107	80 - 120	P	10/29/2025	14:07	LB137697
	Lead	11.7	12.0	98	80 - 120	P	10/29/2025	14:07	LB137697
	Magnesium	2160	2000	108	80 - 120	P	10/29/2025	14:07	LB137697
	Manganese	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Nickel	40.4	40.0	101	80 - 120	P	10/29/2025	14:07	LB137697
	Potassium	1880	2000	94	80 - 120	P	10/29/2025	14:07	LB137697
	Selenium	23.1	20.0	115	80 - 120	P	10/29/2025	14:07	LB137697
	Silver	10.6	10.0	106	80 - 120	P	10/29/2025	14:07	LB137697
	Sodium	2010	2000	100	80 - 120	P	10/29/2025	14:07	LB137697
	Thallium	46.3	40.0	116	80 - 120	P	10/29/2025	14:07	LB137697
	Vanadium	41.0	40.0	103	80 - 120	P	10/29/2025	14:07	LB137697
	Zinc	43.3	40.0	108	80 - 120	P	10/29/2025	14:07	LB137697

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	9780	10000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Antimony	4970	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Arsenic	4960	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Beryllium	250	250	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cadmium	2460	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Calcium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Chromium	1010	1000	100	90 - 110	P	10/29/2025	14:37	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Copper	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Iron	4870	5000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Lead	4900	5000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Nickel	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Potassium	24100	25000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Selenium	4930	5000	99	90 - 110	P	10/29/2025	14:37	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	14:37	LB137697
	Sodium	24400	25000	98	90 - 110	P	10/29/2025	14:37	LB137697
	Thallium	5060	5000	101	90 - 110	P	10/29/2025	14:37	LB137697
	Vanadium	2470	2500	99	90 - 110	P	10/29/2025	14:37	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	14:37	LB137697
CCV02	Aluminum	9400	10000	94	90 - 110	P	10/29/2025	15:43	LB137697
	Antimony	4870	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Arsenic	4840	5000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Barium	9610	10000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Beryllium	243	250	97	90 - 110	P	10/29/2025	15:43	LB137697
	Cadmium	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Calcium	24100	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Chromium	988	1000	99	90 - 110	P	10/29/2025	15:43	LB137697
	Cobalt	2420	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Iron	4870	5000	98	90 - 110	P	10/29/2025	15:43	LB137697
	Lead	4820	5000	96	90 - 110	P	10/29/2025	15:43	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	24200	25000	97	90 - 110	P	10/29/2025	15:43	LB137697
	Manganese	2390	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Nickel	2430	2500	97	90 - 110	P	10/29/2025	15:43	LB137697
	Potassium	24000	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Selenium	4790	5000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Silver	1230	1250	98	90 - 110	P	10/29/2025	15:43	LB137697
	Sodium	23900	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	15:43	LB137697
	Vanadium	2400	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Zinc	2440	2500	98	90 - 110	P	10/29/2025	15:43	LB137697
CCV03	Aluminum	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Antimony	5120	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Arsenic	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Barium	9730	10000	97	90 - 110	P	10/29/2025	16:37	LB137697
	Beryllium	249	250	100	90 - 110	P	10/29/2025	16:37	LB137697
	Cadmium	2510	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Calcium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Chromium	1030	1000	103	90 - 110	P	10/29/2025	16:37	LB137697
	Cobalt	2520	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Copper	1270	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Iron	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Lead	5020	5000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Magnesium	25000	25000	100	90 - 110	P	10/29/2025	16:37	LB137697
	Manganese	2470	2500	99	90 - 110	P	10/29/2025	16:37	LB137697
	Nickel	2510	2500	101	90 - 110	P	10/29/2025	16:37	LB137697
	Potassium	25200	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Selenium	5070	5000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Silver	1280	1250	102	90 - 110	P	10/29/2025	16:37	LB137697
	Sodium	25300	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
	Thallium	4740	5000	95	90 - 110	P	10/29/2025	16:37	LB137697
	Vanadium	2500	2500	100	90 - 110	P	10/29/2025	16:37	LB137697
	Zinc	2560	2500	102	90 - 110	P	10/29/2025	16:37	LB137697
CCV04	Aluminum	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Antimony	4930	5000	99	90 - 110	P	10/29/2025	17:27	LB137697

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	4980	5000	100	90 - 110	P	10/29/2025	17:27	LB137697
	Barium	9640	10000	96	90 - 110	P	10/29/2025	17:27	LB137697
	Beryllium	262	250	105	90 - 110	P	10/29/2025	17:27	LB137697
	Cadmium	2500	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Calcium	24600	25000	98	90 - 110	P	10/29/2025	17:27	LB137697
	Chromium	1020	1000	102	90 - 110	P	10/29/2025	17:27	LB137697
	Cobalt	2480	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Copper	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Iron	4700	5000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Lead	4950	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Magnesium	25100	25000	101	90 - 110	P	10/29/2025	17:27	LB137697
	Manganese	2460	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Nickel	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
	Potassium	23500	25000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Selenium	4940	5000	99	90 - 110	P	10/29/2025	17:27	LB137697
	Silver	1250	1250	100	90 - 110	P	10/29/2025	17:27	LB137697
	Sodium	23700	25000	95	90 - 110	P	10/29/2025	17:27	LB137697
	Thallium	5310	5000	106	90 - 110	P	10/29/2025	17:27	LB137697
	Vanadium	2460	2500	98	90 - 110	P	10/29/2025	17:27	LB137697
	Zinc	2490	2500	100	90 - 110	P	10/29/2025	17:27	LB137697
CCV05	Aluminum	9470	10000	95	90 - 110	P	10/29/2025	18:03	LB137697
	Antimony	4830	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Arsenic	4850	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Barium	9570	10000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Beryllium	252	250	101	90 - 110	P	10/29/2025	18:03	LB137697
	Cadmium	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
	Calcium	24400	25000	98	90 - 110	P	10/29/2025	18:03	LB137697
	Chromium	998	1000	100	90 - 110	P	10/29/2025	18:03	LB137697
	Cobalt	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Copper	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Iron	4780	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Lead	4840	5000	97	90 - 110	P	10/29/2025	18:03	LB137697
	Magnesium	24700	25000	99	90 - 110	P	10/29/2025	18:03	LB137697
	Manganese	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Potassium	23100	25000	92	90 - 110	P	10/29/2025	18:03	LB137697
	Selenium	4830	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Silver	1220	1250	98	90 - 110	P	10/29/2025	18:03	LB137697
	Sodium	23200	25000	93	90 - 110	P	10/29/2025	18:03	LB137697
	Thallium	5070	5000	102	90 - 110	P	10/29/2025	18:03	LB137697
	Vanadium	2430	2500	97	90 - 110	P	10/29/2025	18:03	LB137697
	Zinc	2450	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
CCV06	Aluminum	9450	10000	94	90 - 110	P	10/29/2025	18:55	LB137697
	Antimony	4740	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Arsenic	4790	5000	96	90 - 110	P	10/29/2025	18:55	LB137697
	Barium	9690	10000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Beryllium	253	250	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cadmium	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Calcium	24500	25000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Chromium	1010	1000	101	90 - 110	P	10/29/2025	18:55	LB137697
	Cobalt	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Copper	1190	1250	95	90 - 110	P	10/29/2025	18:55	LB137697
	Iron	4860	5000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Lead	4920	5000	98	90 - 110	P	10/29/2025	18:55	LB137697
	Magnesium	24800	25000	99	90 - 110	P	10/29/2025	18:55	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Nickel	2470	2500	99	90 - 110	P	10/29/2025	18:55	LB137697
	Potassium	26000	25000	104	90 - 110	P	10/29/2025	18:55	LB137697
	Selenium	4770	5000	95	90 - 110	P	10/29/2025	18:55	LB137697
	Silver	1240	1250	99	90 - 110	P	10/29/2025	18:55	LB137697
	Sodium	26300	25000	105	90 - 110	P	10/29/2025	18:55	LB137697
	Thallium	5490	5000	110	90 - 110	P	10/29/2025	18:55	LB137697
	Vanadium	2450	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Zinc	2250	2500	90	90 - 110	P	10/29/2025	18:55	LB137697

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	100	70 - 130	CV	10/23/2025	14:07	LB137626
CRI01	Aluminum	97.3	100	97	65 - 135	P	10/24/2025	14:48	LB137662
	Antimony	54.2	50.0	108	65 - 135	P	10/24/2025	14:48	LB137662
	Arsenic	22.7	20.0	114	65 - 135	P	10/24/2025	14:48	LB137662
	Barium	101	100	102	65 - 135	P	10/24/2025	14:48	LB137662
	Beryllium	6.57	6.0	110	65 - 135	P	10/24/2025	14:48	LB137662
	Cadmium	5.93	6.0	99	65 - 135	P	10/24/2025	14:48	LB137662
	Calcium	2130	2000	106	65 - 135	P	10/24/2025	14:48	LB137662
	Chromium	10.6	10.0	106	65 - 135	P	10/24/2025	14:48	LB137662
	Cobalt	30.6	30.0	102	65 - 135	P	10/24/2025	14:48	LB137662
	Copper	23.2	20.0	116	65 - 135	P	10/24/2025	14:48	LB137662
	Iron	112	100	112	65 - 135	P	10/24/2025	14:48	LB137662
	Lead	12.1	12.0	101	65 - 135	P	10/24/2025	14:48	LB137662
	Magnesium	2130	2000	107	65 - 135	P	10/24/2025	14:48	LB137662
	Manganese	22.3	20.0	112	65 - 135	P	10/24/2025	14:48	LB137662
	Nickel	40.8	40.0	102	65 - 135	P	10/24/2025	14:48	LB137662
	Potassium	2020	2000	101	65 - 135	P	10/24/2025	14:48	LB137662
	Selenium	21.3	20.0	107	65 - 135	P	10/24/2025	14:48	LB137662
	Silver	11.4	10.0	114	65 - 135	P	10/24/2025	14:48	LB137662
	Sodium	1940	2000	97	65 - 135	P	10/24/2025	14:48	LB137662
	Thallium	46.2	40.0	116	65 - 135	P	10/24/2025	14:48	LB137662
	Vanadium	41.4	40.0	103	65 - 135	P	10/24/2025	14:48	LB137662
	Zinc	44.5	40.0	111	65 - 135	P	10/24/2025	14:48	LB137662
CRI01	Aluminum	112	100	112	65 - 135	P	10/28/2025	12:42	LB137677
	Antimony	52.2	50.0	104	65 - 135	P	10/28/2025	12:42	LB137677
	Arsenic	19.5	20.0	97	65 - 135	P	10/28/2025	12:42	LB137677
	Barium	103	100	103	65 - 135	P	10/28/2025	12:42	LB137677
	Beryllium	6.40	6.0	107	65 - 135	P	10/28/2025	12:42	LB137677
	Cadmium	5.75	6.0	96	65 - 135	P	10/28/2025	12:42	LB137677
	Calcium	2060	2000	103	65 - 135	P	10/28/2025	12:42	LB137677
	Chromium	10.4	10.0	104	65 - 135	P	10/28/2025	12:42	LB137677
	Cobalt	29.6	30.0	99	65 - 135	P	10/28/2025	12:42	LB137677
	Copper	22.0	20.0	110	65 - 135	P	10/28/2025	12:42	LB137677
	Iron	99.8	100	100	65 - 135	P	10/28/2025	12:42	LB137677
	Lead	11.5	12.0	96	65 - 135	P	10/28/2025	12:42	LB137677

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2100	2000	105	65 - 135	P	10/28/2025	12:42	LB137677
	Manganese	21.2	20.0	106	65 - 135	P	10/28/2025	12:42	LB137677
	Nickel	39.4	40.0	98	65 - 135	P	10/28/2025	12:42	LB137677
	Potassium	1920	2000	96	65 - 135	P	10/28/2025	12:42	LB137677
	Selenium	20.5	20.0	102	65 - 135	P	10/28/2025	12:42	LB137677
	Silver	10.6	10.0	106	65 - 135	P	10/28/2025	12:42	LB137677
	Sodium	1990	2000	99	65 - 135	P	10/28/2025	12:42	LB137677
	Thallium	39.4	40.0	98	65 - 135	P	10/28/2025	12:42	LB137677
	Vanadium	37.9	40.0	95	65 - 135	P	10/28/2025	12:42	LB137677
	Zinc	42.4	40.0	106	65 - 135	P	10/28/2025	12:42	LB137677
CRI01	Aluminum	97.1	100	97	65 - 135	P	10/29/2025	14:16	LB137697
	Antimony	49.9	50.0	100	65 - 135	P	10/29/2025	14:16	LB137697
	Arsenic	19.9	20.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Barium	102	100	102	65 - 135	P	10/29/2025	14:16	LB137697
	Beryllium	6.41	6.0	107	65 - 135	P	10/29/2025	14:16	LB137697
	Cadmium	5.84	6.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Calcium	2050	2000	103	65 - 135	P	10/29/2025	14:16	LB137697
	Chromium	10.3	10.0	103	65 - 135	P	10/29/2025	14:16	LB137697
	Cobalt	29.6	30.0	99	65 - 135	P	10/29/2025	14:16	LB137697
	Copper	21.6	20.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Iron	98.0	100	98	65 - 135	P	10/29/2025	14:16	LB137697
	Lead	11.6	12.0	97	65 - 135	P	10/29/2025	14:16	LB137697
	Magnesium	2120	2000	106	65 - 135	P	10/29/2025	14:16	LB137697
	Manganese	22.0	20.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Nickel	40.3	40.0	101	65 - 135	P	10/29/2025	14:16	LB137697
	Potassium	1850	2000	92	65 - 135	P	10/29/2025	14:16	LB137697
	Selenium	23.0	20.0	115	65 - 135	P	10/29/2025	14:16	LB137697
	Silver	11.0	10.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Sodium	1940	2000	97	65 - 135	P	10/29/2025	14:16	LB137697
	Thallium	44.2	40.0	111	65 - 135	P	10/29/2025	14:16	LB137697
	Vanadium	43.2	40.0	108	65 - 135	P	10/29/2025	14:16	LB137697
	Zinc	42.4	40.0	106	65 - 135	P	10/29/2025	14:16	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB86	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	09:23	LB137632

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB83	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	09:30	LB137632
CCB84	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	10:11	LB137632
CCB85	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	10:43	LB137632
CCB86	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	11:14	LB137632
CCB87	Mercury	0.076	+/-0.2	U	0.20	CV	10/24/2025	11:38	LB137632

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	14:43	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	14:43	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	14:43	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	14:43	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	14:43	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	14:43	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	14:43	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	14:43	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	14:43	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	14:43	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	14:43	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	14:43	LB137662

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	16.3	+/-50	J	100	P	10/24/2025	15:16	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	15:16	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	15:16	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	15:16	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	15:16	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	15:16	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	15:16	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	15:16	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	15:16	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	15:16	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	15:16	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	15:16	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	15:16	LB137662
CCB02	Aluminum	11.3	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	16:47	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	16:47	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	16:47	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	16:47	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	16:47	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	16:47	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	16:47	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	16:47	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	16:47	LB137662

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/24/2025	16:47	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	16:47	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	16:47	LB137662
CCB03	Aluminum	11.3	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	18:33	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	18:33	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	18:33	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	18:33	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	18:33	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	18:33	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	18:33	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	18:33	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	18:33	LB137662
	Sodium	868	+/-1000	U	2000	P	10/24/2025	18:33	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	18:33	LB137662
CCB04	Aluminum	11.3	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	19:23	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	19:23	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	19:23	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	19:23	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	19:23	LB137662
	Copper	4.60	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	19:23	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	19:23	LB137662

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	19:23	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	19:23	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	19:23	LB137662
	Sodium	999	+/-1000	J	2000	P	10/24/2025	19:23	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	19:23	LB137662
CCB05	Aluminum	11.3	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Antimony	6.76	+/-25	U	50.0	P	10/24/2025	20:10	LB137662
	Arsenic	5.12	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Barium	14.6	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Beryllium	0.56	+/-3	U	6.00	P	10/24/2025	20:10	LB137662
	Cadmium	0.50	+/-3	U	6.00	P	10/24/2025	20:10	LB137662
	Calcium	234	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Chromium	2.12	+/-5	U	10.0	P	10/24/2025	20:10	LB137662
	Cobalt	2.26	+/-15	U	30.0	P	10/24/2025	20:10	LB137662
	Copper	4.82	+/-10	J	20.0	P	10/24/2025	20:10	LB137662
	Iron	23.4	+/-50	U	100	P	10/24/2025	20:10	LB137662
	Lead	2.30	+/-6	U	12.0	P	10/24/2025	20:10	LB137662
	Magnesium	244	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Manganese	5.94	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Nickel	3.06	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Potassium	918	+/-1000	U	2000	P	10/24/2025	20:10	LB137662
	Selenium	9.64	+/-10	U	20.0	P	10/24/2025	20:10	LB137662
	Silver	1.62	+/-5	U	10.0	P	10/24/2025	20:10	LB137662
	Sodium	1260	+/-1000	J*	2000	P	10/24/2025	20:10	LB137662
	Thallium	4.38	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Vanadium	6.26	+/-20	U	40.0	P	10/24/2025	20:10	LB137662
	Zinc	16.7	+/-20	U	40.0	P	10/24/2025	20:10	LB137662

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	12:38	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	12:38	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	12:38	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	12:38	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	12:38	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	12:38	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	12:38	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	12:38	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	12:38	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	12:38	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	12:38	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	12:38	LB137677

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	23.5	+/-50	J	100	P	10/28/2025	13:08	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	13:08	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	13:08	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	13:08	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	13:08	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	13:08	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	13:08	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	13:08	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	13:08	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	13:08	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	13:08	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	13:08	LB137677
CCB02	Aluminum	14.8	+/-50	J	100	P	10/28/2025	14:05	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	14:05	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:05	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	14:05	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:05	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	14:05	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	14:05	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:05	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	14:05	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:05	LB137677

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:05	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	14:05	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	14:05	LB137677
CCB03	Aluminum	11.3	+/-50	U	100	P	10/28/2025	14:57	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	14:57	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	14:57	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	14:57	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	14:57	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	14:57	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Iron	30.0	+/-50	J	100	P	10/28/2025	14:57	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	14:57	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	14:57	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	14:57	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	14:57	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	14:57	LB137677
CCB04	Aluminum	11.3	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	15:49	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	15:49	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	15:49	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	15:49	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	15:49	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	15:49	LB137677

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	15:49	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	15:49	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	15:49	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	15:49	LB137677
CCB05	Aluminum	11.3	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	16:39	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	16:39	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	16:39	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	16:39	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	16:39	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	16:39	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	16:39	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	16:39	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	16:39	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	16:39	LB137677
CCB06	Aluminum	11.3	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	17:32	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	17:32	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	17:32	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	17:32	LB137677

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	17:32	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	17:32	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	17:32	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	17:32	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	17:32	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	17:32	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	17:32	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	17:32	LB137677
CCB07	Aluminum	11.3	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	18:21	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	18:21	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	18:21	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	18:21	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	18:21	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	18:21	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	18:21	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	18:21	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	18:21	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	18:21	LB137677
CCB08	Aluminum	11.3	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	19:10	LB137677

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	19:10	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	19:10	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	19:10	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	19:10	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	19:10	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	19:10	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	19:10	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	19:10	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	19:10	LB137677
CCB09	Aluminum	11.3	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	20:02	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	20:02	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:02	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	20:02	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Iron	23.4	+/-50	U	100	P	10/28/2025	20:02	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:02	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	20:02	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:02	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:02	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	20:02	LB137677

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	20:02	LB137677
CCB10	Aluminum	14.4	+/-50	J	100	P	10/28/2025	20:54	LB137677
	Antimony	6.76	+/-25	U	50.0	P	10/28/2025	20:54	LB137677
	Arsenic	5.12	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Barium	14.6	+/-50	U	100	P	10/28/2025	20:54	LB137677
	Beryllium	0.56	+/-3	U	6.00	P	10/28/2025	20:54	LB137677
	Cadmium	0.50	+/-3	U	6.00	P	10/28/2025	20:54	LB137677
	Calcium	234	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Chromium	2.12	+/-5	U	10.0	P	10/28/2025	20:54	LB137677
	Cobalt	2.26	+/-15	U	30.0	P	10/28/2025	20:54	LB137677
	Copper	4.60	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Iron	70.4	+/-50	J*	100	P	10/28/2025	20:54	LB137677
	Lead	2.30	+/-6	U	12.0	P	10/28/2025	20:54	LB137677
	Magnesium	244	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Manganese	5.94	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Nickel	3.06	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Potassium	918	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Selenium	9.64	+/-10	U	20.0	P	10/28/2025	20:54	LB137677
	Silver	1.62	+/-5	U	10.0	P	10/28/2025	20:54	LB137677
	Sodium	868	+/-1000	U	2000	P	10/28/2025	20:54	LB137677
	Thallium	4.38	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Vanadium	6.26	+/-20	U	40.0	P	10/28/2025	20:54	LB137677
	Zinc	16.7	+/-20	U	40.0	P	10/28/2025	20:54	LB137677

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:12	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:12	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:12	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:12	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:12	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:12	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:12	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:12	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	14:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	14:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	14:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	14:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	14:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	14:41	LB137697
CCB02	Aluminum	11.3	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	15:48	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	15:48	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	15:48	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	15:48	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	15:48	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	15:48	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	10/29/2025	15:48	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	15:48	LB137697
CCB03	Aluminum	11.3	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	16:41	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	16:41	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	16:41	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	16:41	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Iron	29.0	+/-50	J	100	P	10/29/2025	16:41	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	16:41	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	16:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	16:41	LB137697
CCB04	Aluminum	11.3	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	17:31	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	17:31	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	17:31	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	17:31	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	17:31	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	17:31	LB137697
CCB05	Aluminum	12.2	+/-50	J	100	P	10/29/2025	18:07	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	18:07	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	18:07	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	18:07	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	18:07	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	18:07	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	18:07	LB137697
CCB06	Aluminum	11.3	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Antimony	6.76	+/-25	U	50.0	P	10/29/2025	19:04	LB137697
	Arsenic	5.12	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Barium	14.6	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Beryllium	0.56	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Cadmium	0.50	+/-3	U	6.00	P	10/29/2025	19:04	LB137697
	Calcium	234	+/-1000	U	2000	P	10/29/2025	19:04	LB137697

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	10/29/2025	19:04	LB137697
	Cobalt	2.26	+/-15	U	30.0	P	10/29/2025	19:04	LB137697
	Copper	4.60	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Iron	23.4	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Lead	2.30	+/-6	U	12.0	P	10/29/2025	19:04	LB137697
	Magnesium	244	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Nickel	3.06	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Potassium	918	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Selenium	9.64	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Silver	1.62	+/-5	U	10.0	P	10/29/2025	19:04	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	19:04	LB137697
	Thallium	4.38	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Vanadium	6.26	+/-20	U	40.0	P	10/29/2025	19:04	LB137697
	Zinc	16.7	+/-20	U	40.0	P	10/29/2025	19:04	LB137697

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Metals
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PREPARATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170232BL		**WATER**		**Batch Number:**	**PB170232**		**Prep Date:**	**10/23/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	10/24/2025	10:50	LB137632

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Metals
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PREPARATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q3422

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170225BL		**WATER**		**Batch Number:**	**PB170225**		**Prep Date:**	**10/23/2025**	
	Aluminum	5.67	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Antimony	3.38	<12.5	U	25.0	P	10/24/2025	15:20	LB137662
	Arsenic	2.56	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Barium	7.28	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Beryllium	0.28	<1.5	U	3.00	P	10/24/2025	15:20	LB137662
	Cadmium	0.25	<1.5	U	3.00	P	10/24/2025	15:20	LB137662
	Calcium	117	<500	U	1000	P	10/24/2025	15:20	LB137662
	Chromium	1.06	<2.5	U	5.00	P	10/24/2025	15:20	LB137662
	Cobalt	1.13	<7.5	U	15.0	P	10/24/2025	15:20	LB137662
	Copper	2.30	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Iron	11.7	<25	U	50.0	P	10/24/2025	15:20	LB137662
	Lead	1.15	<3	U	6.00	P	10/24/2025	15:20	LB137662
	Magnesium	122	<500	U	1000	P	10/24/2025	15:20	LB137662
	Manganese	2.97	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Nickel	1.53	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Potassium	459	<500	U	1000	P	10/24/2025	15:20	LB137662
	Selenium	4.82	<5	U	10.0	P	10/24/2025	15:20	LB137662
	Silver	0.81	<2.5	U	5.00	P	10/24/2025	15:20	LB137662
	Sodium	434	<500	U	1000	P	10/24/2025	15:20	LB137662
	Thallium	2.19	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Vanadium	3.13	<10	U	20.0	P	10/24/2025	15:20	LB137662
	Zinc	8.33	<10	U	20.0	P	10/24/2025	15:20	LB137662

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Metals
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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	250000	255000	98	216000	294000	10/24/2025	14:52	LB137662
	Antimony	-3.33			-50	50	10/24/2025	14:52	LB137662
	Arsenic	8.44			-20	20	10/24/2025	14:52	LB137662
	Barium	-0.70	6.0	12	-94	106	10/24/2025	14:52	LB137662
	Beryllium	1.60			-6	6	10/24/2025	14:52	LB137662
	Cadmium	2.28	1.0	228	-5	7	10/24/2025	14:52	LB137662
	Calcium	237000	245000	97	208000	282000	10/24/2025	14:52	LB137662
	Chromium	50.0	52.0	96	42	62	10/24/2025	14:52	LB137662
	Cobalt	2.04			-30	30	10/24/2025	14:52	LB137662
	Copper	9.81	2.0	490	-18	22	10/24/2025	14:52	LB137662
	Iron	99200	101000	98	85600	116500	10/24/2025	14:52	LB137662
	Lead	3.20			-12	12	10/24/2025	14:52	LB137662
	Magnesium	251000	255000	98	216000	294000	10/24/2025	14:52	LB137662
	Manganese	7.87	7.0	112	-13	27	10/24/2025	14:52	LB137662
	Nickel	4.35	2.0	218	-38	42	10/24/2025	14:52	LB137662
	Potassium	111			0	0	10/24/2025	14:52	LB137662
	Selenium	7.23			-20	20	10/24/2025	14:52	LB137662
	Silver	2.11			-10	10	10/24/2025	14:52	LB137662
	Sodium	118			0	0	10/24/2025	14:52	LB137662
	Thallium	15.3			-40	40	10/24/2025	14:52	LB137662
	Vanadium	3.29			-40	40	10/24/2025	14:52	LB137662
	Zinc	4.78			-40	40	10/24/2025	14:52	LB137662
ICSAB01	Aluminum	257000	247000	104	209000	285000	10/24/2025	14:56	LB137662
	Antimony	610	618	99	525	711	10/24/2025	14:56	LB137662
	Arsenic	110	104	106	88.4	120	10/24/2025	14:56	LB137662
	Barium	506	537	94	437	637	10/24/2025	14:56	LB137662
	Beryllium	525	495	106	420	570	10/24/2025	14:56	LB137662
	Cadmium	1030	972	106	826	1120	10/24/2025	14:56	LB137662
	Calcium	243000	235000	103	199000	271000	10/24/2025	14:56	LB137662
	Chromium	566	542	104	460	624	10/24/2025	14:56	LB137662
	Cobalt	517	476	109	404	548	10/24/2025	14:56	LB137662
	Copper	499	511	98	434	588	10/24/2025	14:56	LB137662
	Iron	101000	99300	102	84400	114500	10/24/2025	14:56	LB137662
	Lead	51.7	49.0	106	37	61	10/24/2025	14:56	LB137662
	Magnesium	258000	248000	104	210000	286000	10/24/2025	14:56	LB137662
	Manganese	507	507	100	430	584	10/24/2025	14:56	LB137662
	Nickel	1030	954	108	810	1100	10/24/2025	14:56	LB137662
	Potassium	46.1			0	0	10/24/2025	14:56	LB137662
	Selenium	54.0	46.0	117	26	66	10/24/2025	14:56	LB137662
	Silver	213	201	106	170	232	10/24/2025	14:56	LB137662
	Sodium	89.3			0	0	10/24/2025	14:56	LB137662
	Thallium	129	108	119	68	148	10/24/2025	14:56	LB137662

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Metals
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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	499	491	102	417	565	10/24/2025	14:56	LB137662
	Zinc	1050	952	110	809	1095	10/24/2025	14:56	LB137662
ICSA01	Aluminum	230000	255000	90	216000	294000	10/28/2025	12:47	LB137677
	Antimony	-1.12			-50	50	10/28/2025	12:47	LB137677
	Arsenic	5.71			-20	20	10/28/2025	12:47	LB137677
	Barium	0.81	6.0	14	-94	106	10/28/2025	12:47	LB137677
	Beryllium	1.34			-6	6	10/28/2025	12:47	LB137677
	Cadmium	2.04	1.0	204	-5	7	10/28/2025	12:47	LB137677
	Calcium	225000	245000	92	208000	282000	10/28/2025	12:47	LB137677
	Chromium	48.4	52.0	93	42	62	10/28/2025	12:47	LB137677
	Cobalt	1.65			-30	30	10/28/2025	12:47	LB137677
	Copper	12.6	2.0	630	-18	22	10/28/2025	12:47	LB137677
	Iron	95500	101000	95	85600	116500	10/28/2025	12:47	LB137677
	Lead	4.98			-12	12	10/28/2025	12:47	LB137677
	Magnesium	236000	255000	92	216000	294000	10/28/2025	12:47	LB137677
	Manganese	-0.32	7.0	4	-13	27	10/28/2025	12:47	LB137677
	Nickel	6.84	2.0	342	-38	42	10/28/2025	12:47	LB137677
	Potassium	78.1			0	0	10/28/2025	12:47	LB137677
	Selenium	1.71			-20	20	10/28/2025	12:47	LB137677
	Silver	1.71			-10	10	10/28/2025	12:47	LB137677
	Sodium	154			0	0	10/28/2025	12:47	LB137677
	Thallium	5.36			-40	40	10/28/2025	12:47	LB137677
	Vanadium	4.12			-40	40	10/28/2025	12:47	LB137677
	Zinc	3.63			-40	40	10/28/2025	12:47	LB137677
ICSAB01	Aluminum	229000	247000	93	209000	285000	10/28/2025	12:51	LB137677
	Antimony	577	618	93	525	711	10/28/2025	12:51	LB137677
	Arsenic	104	104	100	88.4	120	10/28/2025	12:51	LB137677
	Barium	472	537	88	437	637	10/28/2025	12:51	LB137677
	Beryllium	489	495	99	420	570	10/28/2025	12:51	LB137677
	Cadmium	966	972	99	826	1120	10/28/2025	12:51	LB137677
	Calcium	223000	235000	95	199000	271000	10/28/2025	12:51	LB137677
	Chromium	530	542	98	460	624	10/28/2025	12:51	LB137677
	Cobalt	488	476	102	404	548	10/28/2025	12:51	LB137677
	Copper	473	511	93	434	588	10/28/2025	12:51	LB137677
	Iron	95900	99300	97	84400	114500	10/28/2025	12:51	LB137677
	Lead	52.4	49.0	107	37	61	10/28/2025	12:51	LB137677
	Magnesium	235000	248000	95	210000	286000	10/28/2025	12:51	LB137677
	Manganese	463	507	91	430	584	10/28/2025	12:51	LB137677
	Nickel	968	954	102	810	1100	10/28/2025	12:51	LB137677
	Potassium	18.5			0	0	10/28/2025	12:51	LB137677
	Selenium	46.1	46.0	100	26	66	10/28/2025	12:51	LB137677
	Silver	203	201	101	170	232	10/28/2025	12:51	LB137677

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Metals
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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	129			0	0	10/28/2025	12:51	LB137677
	Thallium	102	108	94	68	148	10/28/2025	12:51	LB137677
	Vanadium	461	491	94	417	565	10/28/2025	12:51	LB137677
	Zinc	1000	952	105	809	1095	10/28/2025	12:51	LB137677
ICSA01	Aluminum	238000	255000	93	216000	294000	10/29/2025	14:21	LB137697
	Antimony	-3.02			-50	50	10/29/2025	14:21	LB137697
	Arsenic	4.77			-20	20	10/29/2025	14:21	LB137697
	Barium	5.72	6.0	95	-94	106	10/29/2025	14:21	LB137697
	Beryllium	1.70			-6	6	10/29/2025	14:21	LB137697
	Cadmium	0.66	1.0	66	-5	7	10/29/2025	14:21	LB137697
	Calcium	231000	245000	94	208000	282000	10/29/2025	14:21	LB137697
	Chromium	48.9	52.0	94	42	62	10/29/2025	14:21	LB137697
	Cobalt	1.62			-30	30	10/29/2025	14:21	LB137697
	Copper	14.1	2.0	705	-18	22	10/29/2025	14:21	LB137697
	Iron	95000	101000	94	85600	116500	10/29/2025	14:21	LB137697
	Lead	0.038			-12	12	10/29/2025	14:21	LB137697
	Magnesium	246000	255000	96	216000	294000	10/29/2025	14:21	LB137697
	Manganese	7.78	7.0	111	-13	27	10/29/2025	14:21	LB137697
	Nickel	4.85	2.0	242	-38	42	10/29/2025	14:21	LB137697
	Potassium	22.1			0	0	10/29/2025	14:21	LB137697
	Selenium	1.76			-20	20	10/29/2025	14:21	LB137697
	Silver	0.89			-10	10	10/29/2025	14:21	LB137697
	Sodium	125			0	0	10/29/2025	14:21	LB137697
	Thallium	10.3			-40	40	10/29/2025	14:21	LB137697
	Vanadium	4.98			-40	40	10/29/2025	14:21	LB137697
	Zinc	3.72			-40	40	10/29/2025	14:21	LB137697
ICSAB01	Aluminum	236000	247000	96	209000	285000	10/29/2025	14:25	LB137697
	Antimony	580	618	94	525	711	10/29/2025	14:25	LB137697
	Arsenic	105	104	101	88.4	120	10/29/2025	14:25	LB137697
	Barium	478	537	89	437	637	10/29/2025	14:25	LB137697
	Beryllium	501	495	101	420	570	10/29/2025	14:25	LB137697
	Cadmium	963	972	99	826	1120	10/29/2025	14:25	LB137697
	Calcium	229000	235000	97	199000	271000	10/29/2025	14:25	LB137697
	Chromium	538	542	99	460	624	10/29/2025	14:25	LB137697
	Cobalt	486	476	102	404	548	10/29/2025	14:25	LB137697
	Copper	474	511	93	434	588	10/29/2025	14:25	LB137697
	Iron	94700	99300	95	84400	114500	10/29/2025	14:25	LB137697
	Lead	47.4	49.0	97	37	61	10/29/2025	14:25	LB137697
	Magnesium	244000	248000	98	210000	286000	10/29/2025	14:25	LB137697
	Manganese	479	507	94	430	584	10/29/2025	14:25	LB137697
	Nickel	968	954	102	810	1100	10/29/2025	14:25	LB137697
	Potassium	-81.1			0	0	10/29/2025	14:25	LB137697

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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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	Selenium	51.1	46.0	111	26	66	10/29/2025	14:25	LB137697
	Silver	202	201	100	170	232	10/29/2025	14:25	LB137697
	Sodium	95.8			0	0	10/29/2025	14:25	LB137697
	Thallium	105	108	97	68	148	10/29/2025	14:25	LB137697
	Vanadium	469	491	96	417	565	10/29/2025	14:25	LB137697
	Zinc	999	952	105	809	1095	10/29/2025	14:25	LB137697

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3422

contract: AECO02 **lab code:** ACE

matrix: Water **sample id:** Q3420-05 **client id:** COMPOSITEMS

Percent Solids for Sample: NA **Spiked ID:** Q3420-05MS **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	2560		1360		1000	120		P
Antimony	ug/L	75 - 125	507		25.0	U	400	127	N	P
Arsenic	ug/L	75 - 125	563		51.5		400	128	N	P
Barium	ug/L	75 - 125	111		50.0	U	100	111		P
Beryllium	ug/L	75 - 125	96.0		3.00	U	100	96		P
Cadmium	ug/L	75 - 125	108		3.00	U	100	108		P
Calcium	ug/L	75 - 125	1360		809	J	500	110		P
Chromium	ug/L	75 - 125	221		15.9		200	103		P
Cobalt	ug/L	75 - 125	108		15.0	U	100	108		P
Copper	ug/L	75 - 125	149		7.37	J	150	94		P
Iron	ug/L	75 - 125	2550		473		1500	138	N	P
Lead	ug/L	75 - 125	492		1.84	J	500	98		P
Magnesium	ug/L	75 - 125	1640		642	J	1000	100		P
Manganese	ug/L	75 - 125	112		10.1		100	102		P
Nickel	ug/L	75 - 125	282		15.0	J	250	107		P
Potassium	ug/L	75 - 125	30200		11400		5000	378	N	P
Selenium	ug/L	75 - 125	1880		492		1000	139	N	P
Silver	ug/L	75 - 125	55.1		5.00	U	37.5	147	N	P
Sodium	ug/L	75 - 125	5870000	D	6230000	D	1500	-24427		P
Thallium	ug/L	75 - 125	1020		20.0	U	1000	102		P
Vanadium	ug/L	75 - 125	161		20.0	U	150	107		P
Zinc	ug/L	75 - 125	413		266		100	146	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3422

contract: AECO02 **lab code:** ACE

matrix: Water **sample id:** Q3420-05 **client id:** COMPOSITEMSD

Percent Solids for Sample: NA **Spiked ID:** Q3420-05MSD **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	2410		1360		1000	105		P
Antimony	ug/L	75 - 125	460		25.0	U	400	115		P
Arsenic	ug/L	75 - 125	513		51.5		400	115		P
Barium	ug/L	75 - 125	99.6		50.0	U	100	100		P
Beryllium	ug/L	75 - 125	81.9		3.00	U	100	82		P
Cadmium	ug/L	75 - 125	97.2		3.00	U	100	97		P
Calcium	ug/L	75 - 125	1300		809	J	500	97		P
Chromium	ug/L	75 - 125	200		15.9		200	92		P
Cobalt	ug/L	75 - 125	97.6		15.0	U	100	98		P
Copper	ug/L	75 - 125	135		7.37	J	150	85		P
Iron	ug/L	75 - 125	2420		473		1500	130	N	P
Lead	ug/L	75 - 125	441		1.84	J	500	88		P
Magnesium	ug/L	75 - 125	1500		642	J	1000	86		P
Manganese	ug/L	75 - 125	101		10.1		100	91		P
Nickel	ug/L	75 - 125	255		15.0	J	250	96		P
Potassium	ug/L	75 - 125	32500		11400		5000	422	N	P
Selenium	ug/L	75 - 125	1760		492		1000	127	N	P
Silver	ug/L	75 - 125	49.9		5.00	U	37.5	133	N	P
Sodium	ug/L	75 - 125	5840000	D	6230000	D	1500	-26205		P
Thallium	ug/L	75 - 125	931		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	144		20.0	U	150	96		P
Zinc	ug/L	75 - 125	401		266		100	134	N	P

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metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3422

contract: AECO02 **lab code:** ACE

matrix: Water **sample id:** Q3434-02 **client id:** PR132-WC2-20251022MS

Percent Solids for Sample: NA **Spiked ID:** Q3434-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.65		1.03		4.0	91		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3422

contract: AECO02 **lab code:** ACE

matrix: Water **sample id:** Q3434-02 **client id:** PR132-WC2-20251022MSD

Percent Solids for Sample: NA **Spiked ID:** Q3434-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.62		1.03		4.0	90		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

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

Sample ID: Q3420-05 **Spiked ID:** Q3420-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	452		25.0	U	400	113		P
Arsenic	ug/L	75 - 125	505		51.5		400	113		P
Iron	ug/L	75 - 125	2360		473		1500	126	N	P
Potassium	ug/L	75 - 125	31000		11400		5000	393	N	P
Selenium	ug/L	75 - 125	1690		492		1000	120		P
Silver	ug/L	75 - 125	48.8		5.00	U	37.5	130	N	P
Zinc	ug/L	75 - 125	376		266		100	110		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3420-05 **Client ID:** COMPOSITEDUP

Percent Solids for Sample: NA **Duplicate ID** Q3420-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1360		1400		3		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	51.5		52.1		1		P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	809	J	816	J	1		P
Chromium	ug/L	20	15.9		16.1		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	7.37	J	7.41	J	1		P
Iron	ug/L	20	473		470		1		P
Lead	ug/L	20	1.84	J	2.17	J	16		P
Magnesium	ug/L	20	642	J	652	J	2		P
Manganese	ug/L	20	10.1		10.1		0		P
Nickel	ug/L	20	15.0	J	14.8	J	1		P
Potassium	ug/L	20	11400		18000		45	*	P
Selenium	ug/L	20	492		491		0		P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	6230000	D	5950000	D	5		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	4.20	J	200.0		P
Zinc	ug/L	20	266		271		2		P

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

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3420-05MS **Client ID:** COMPOSITEMSD

Percent Solids for Sample: NA **Duplicate ID** Q3420-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2560		2410		6		P
Antimony	ug/L	20	507		460		10		P
Arsenic	ug/L	20	563		513		9		P
Barium	ug/L	20	111		99.6		11		P
Beryllium	ug/L	20	96.0		81.9		16		P
Cadmium	ug/L	20	108		97.2		11		P
Calcium	ug/L	20	1360		1300		5		P
Chromium	ug/L	20	221		200		10		P
Cobalt	ug/L	20	108		97.6		10		P
Copper	ug/L	20	149		135		10		P
Iron	ug/L	20	2550		2420		5		P
Lead	ug/L	20	492		441		11		P
Magnesium	ug/L	20	1640		1500		9		P
Manganese	ug/L	20	112		101		10		P
Nickel	ug/L	20	282		255		10		P
Potassium	ug/L	20	30200		32500		7		P
Selenium	ug/L	20	1880		1760		7		P
Silver	ug/L	20	55.1		49.9		10		P
Sodium	ug/L	20	5870000	D	5840000	D	1		P
Thallium	ug/L	20	1020		931		9		P
Vanadium	ug/L	20	161		144		11		P
Zinc	ug/L	20	413		401		3		P

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

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3434-02 **Client ID:** PR132-WC2-20251022DUP

Percent Solids for Sample: NA **Duplicate ID** Q3434-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	1.03		1.04		1		CV

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

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3434-02MS **Client ID:** PR132-WC2-20251022MSD

Percent Solids for Sample: NA **Duplicate ID** Q3434-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.65		4.62		1		CV

"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: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170225BS							
Aluminum	ug/L	1000	1000		100	80 - 120	P
Antimony	ug/L	400	411		103	80 - 120	P
Arsenic	ug/L	400	393		98	80 - 120	P
Barium	ug/L	100	102		102	80 - 120	P
Beryllium	ug/L	100	103		103	80 - 120	P
Cadmium	ug/L	100	95.9		96	80 - 120	P
Calcium	ug/L	500	517	J	103	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	159		106	80 - 120	P
Iron	ug/L	1500	1520		101	80 - 120	P
Lead	ug/L	500	481		96	80 - 120	P
Magnesium	ug/L	1000	1010		101	80 - 120	P
Manganese	ug/L	100	105		105	80 - 120	P
Nickel	ug/L	250	248		99	80 - 120	P
Potassium	ug/L	5000	4850		97	80 - 120	P
Selenium	ug/L	1000	997		100	80 - 120	P
Silver	ug/L	37.5	38.5		103	80 - 120	P
Sodium	ug/L	1500	1390		93	80 - 120	P
Thallium	ug/L	1000	981		98	80 - 120	P
Vanadium	ug/L	150	152		101	80 - 120	P
Zinc	ug/L	100	104		104	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170232BS							
Mercury	ug/L	4.0	3.75		94	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

COMPOSITEL

Lab Name: Alliance **Contract:** AECO02

Lab Code: ACE **Lb No.:** lb137697 **Lab Sample ID :** Q3420-05L **SDG No.:** Q3422

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	1360		1520		12		P
Antimony	25.0	U	125	U			P
Arsenic	51.5		55.6		8		P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	809	J	976	J	21		P
Chromium	15.9		19.1	J	20		P
Cobalt	15.0	U	75.0	U			P
Copper	7.37	J	50.0	U	100.0		P
Iron	473		476		1		P
Lead	1.84	J	30.0	U	100.0		P
Magnesium	642	J	761	J	19		P
Manganese	10.1		50.0	U	100.0		P
Nickel	15.0	J	17.2	J	15		P
Potassium	11400		34800		207		P
Selenium	492		468		5		P
Silver	5.00	U	25.0	U			P
Sodium	6230000	D	6360000	D	2		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	266		272		2		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

PR132-WC2-20251022L

Lab Name: Alliance **Contract:** AECO02

Lab Code: ACE **Lb No.:** lb137632 **Lab Sample ID :** Q3434-02L **SDG No.:** Q3422

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
Mercury	1.03		0.78	J	24		CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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: AECOM **SDG No.:** Q3422

Contract: AECO02 **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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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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:	**PB170225**						
PB170225BL	PB170225BL	MB	WATER	10/23/2025	50.0	25.0	
PB170225BS	PB170225BS	LCS	WATER	10/23/2025	50.0	25.0	
Q3420-05DUP	COMPOSITEDUP	DUP	WATER	10/23/2025	50.0	25.0	
Q3420-05MS	COMPOSITEMS	MS	WATER	10/23/2025	50.0	25.0	
Q3420-05MSD	COMPOSITEMSD	MSD	WATER	10/23/2025	50.0	25.0	
Q3422-02	PR132-FB2-20251021	SAM	WATER	10/23/2025	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q3422

Contract: AECO02 **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:	**PB170232**						
PB170232BL	PB170232BL	MB	WATER	10/23/2025	30.0	30.0	
PB170232BS	PB170232BS	LCS	WATER	10/23/2025	30.0	30.0	
Q3422-02	PR132-FB2-20251021	SAM	WATER	10/23/2025	30.0	30.0	
Q3434-02DUP	PR132-WC2-20251022DUP	DUP	WATER	10/23/2025	30.0	30.0	
Q3434-02MS	PR132-WC2-20251022MS	MS	WATER	10/23/2025	30.0	30.0	
Q3434-02MSD	PR132-WC2-20251022MSD	MSD	WATER	10/23/2025	30.0	30.0	

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: ACE **Sdg no.:** Q3422

Instrument id number: **Method:** **Run number:** LB137632

Start date: 10/24/2025 **End date:** 10/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0858	HG
S0.2	S0.2	1	0901	HG
S2.5	S2.5	1	0903	HG
S5	S5	1	0905	HG
S7.5	S7.5	1	0908	HG
S10	S10	1	0910	HG
ICV86	ICV86	1	0920	HG
ICB86	ICB86	1	0923	HG
CCV83	CCV83	1	0925	HG
CCB83	CCB83	1	0930	HG
CRA	CRA	1	0932	HG
CCV84	CCV84	1	1009	HG
CCB84	CCB84	1	1011	HG
CCV85	CCV85	1	1040	HG
CCB85	CCB85	1	1043	HG
PB170232BL	PB170232BL	1	1050	HG
PB170232BS	PB170232BS	1	1052	HG
Q3422-02	PR132-FB2-20251021	1	1059	HG
Q3434-02DUP	PR132-WC2-20251022DUP	1	1104	HG
Q3434-02MS	PR132-WC2-20251022MS	1	1106	HG
CCV86	CCV86	1	1112	HG
CCB86	CCB86	1	1114	HG
Q3434-02MSD	PR132-WC2-20251022MSD	1	1117	HG
Q3434-02L	PR132-WC2-20251022L	5	1129	HG
CCV87	CCV87	1	1133	HG
CCB87	CCB87	1	1138	HG

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: ACE **Sdg no.:** Q3422

Instrument id number: **Method:** **Run number:** LB137662

Start date: 10/24/2025 **End date:** 10/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1407	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	1412	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	1416	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	1420	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	1424	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	1429	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	1433	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	1438	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	1443	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	1448	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	1452	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	1456	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	1512	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	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170225BL	PB170225BL	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB170225BS	PB170225BS	1	1524	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	1632	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	1647	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	1829	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	1833	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	1919	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	1923	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	2006	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	2010	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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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: ACE **Sdg no.:** Q3422

Instrument id number: **Method:** **Run number:** LB137677

Start date: 10/28/2025 **End date:** 10/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1152	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	1156	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	1201	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	1205	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	1209	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	1213	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	1230	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	1234	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	1238	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	1242	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	1247	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	1251	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	1303	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	1308	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	1401	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	1405	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	1453	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	1457	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	1545	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	1549	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3422-02	PR132-FB2-20251021	1	1557	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	1635	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	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05DUP	COMPOSITEDUP	10	1710	Na
Q3420-05L	COMPOSITEL	50	1715	Na
Q3420-05MS	COMPOSITEMS	10	1719	Na
Q3420-05MSD	COMPOSITEMSD	10	1723	Na
CCV06	CCV06	1	1727	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	1732	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	1817	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	1821	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	1906	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	1910	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	1958	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	2002	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	2049	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	2054	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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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

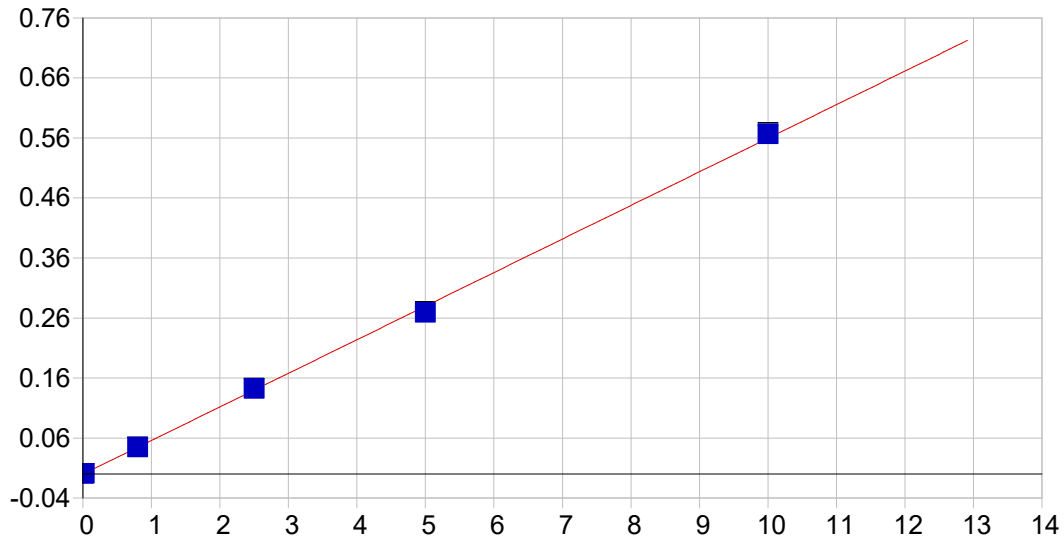
Lab code: ACE **Sdg no.:** Q3422

Instrument id number: **Method:** **Run number:** LB137697

Start date: 10/29/2025 **End date:** 10/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	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	1340	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	1344	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	1349	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	1353	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	1357	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	1401	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	1407	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	1412	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	1416	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	1421	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	1425	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	1437	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	1441	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	1543	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	1548	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	1637	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	1641	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	1727	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	1731	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	1803	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	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05DUP	COMPOSITEDUP	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05L	COMPOSITEL	5	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05MS	COMPOSITEMS	1	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05MSD	COMPOSITEMSD	1	1829	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
Q3420-05A	COMPOSITEA	1	1833	Ag,As,Fe,K,Sb,Se,Zn
CCV06	CCV06	1	1855	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	1904	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

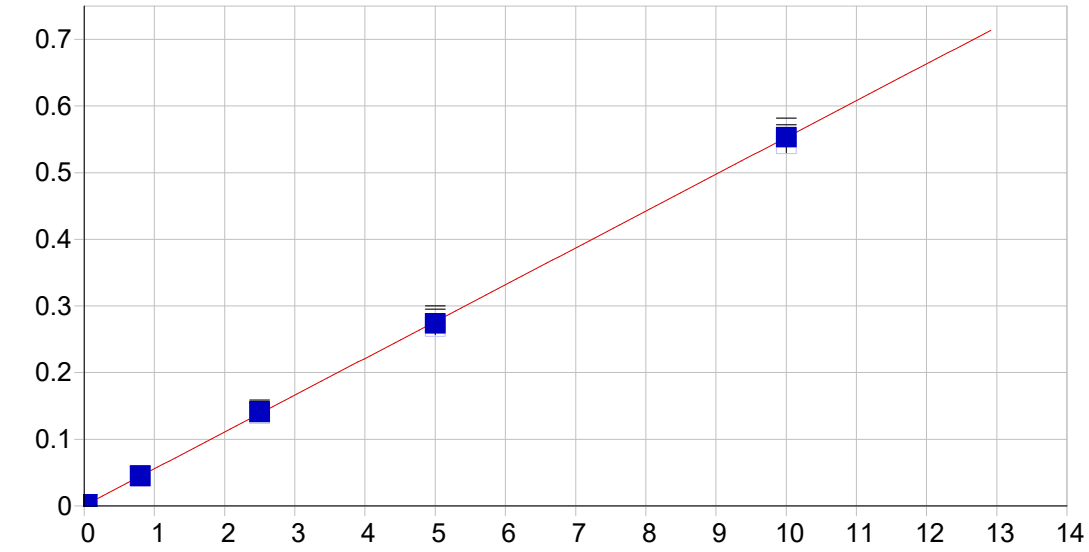


As 189.042 {479}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000140	Re-Slope:	1.000000
A1 (Gain):	0.055969	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999703	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002100		
Predicted MQL:	0.007001		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00014	.000	1
S1	.02000	.02487	.005	24.4	.00125	.000	1
S3	2.5000	2.5476	.048	1.90	.14230	.001	1
S4	5.0000	4.8135	-.186	-3.73	.26898	.002	1
S5	10.000	10.135	.135	1.35	.56652	.002	1
S2	.80000	.79916	-.001	-.105	.04454	.000	1

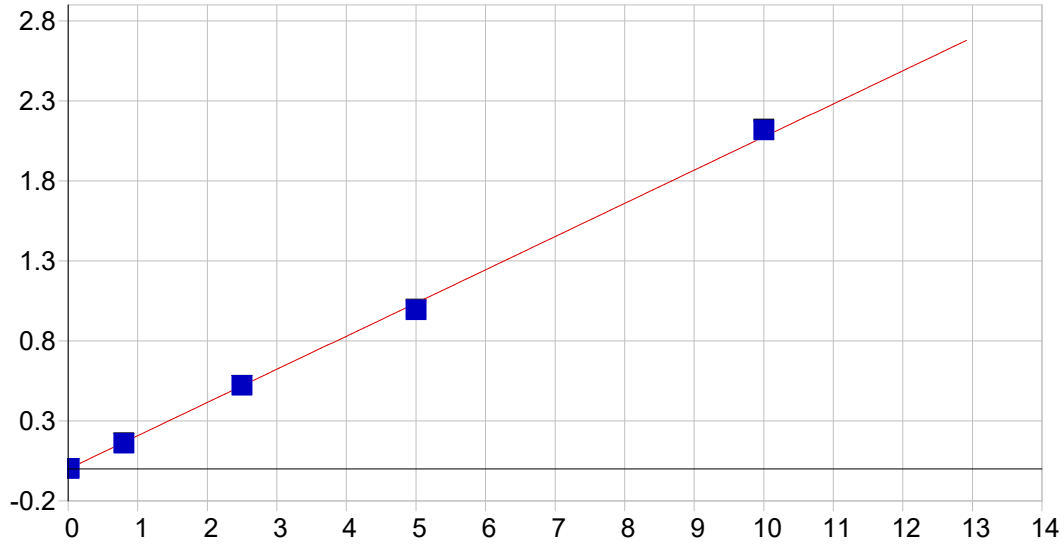


Tl 190.856 {477}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000434	Re-Slope:	1.000000
A1 (Gain):	0.055231	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.002774		
Predicted MQL:	0.009247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00043	.000	1
S1	.04000	.04329	.003	8.23	.00268	.000	1
S3	2.5000	2.5424	.042	1.70	.13833	.003	1
S4	5.0000	4.9480	-.052	-1.04	.26868	.012	1
S5	10.000	10.004	.004	.039	.54289	.014	1
S2	.80000	.80259	.003	.324	.04396	.000	1

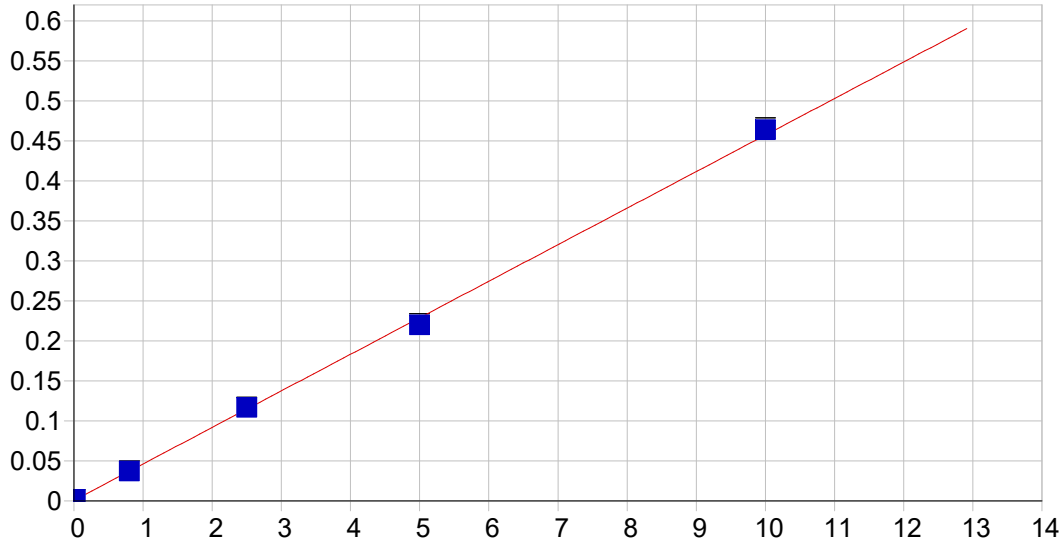


Pb 220.353 {453}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000088	Re-Slope:	1.000000
A1 (Gain):	0.207404	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999615	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.001242		
Predicted MQL:	0.004140		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.01200	.01327	.001	10.6	.00279	.000	1
S3	2.5000	2.5192	.019	.769	.52201	.000	1
S4	5.0000	4.7926	-.207	-4.15	.99295	.004	1
S5	10.000	10.211	.211	2.11	2.1156	.005	1
S2	.80000	.77565	-.024	-3.04	.16078	.000	1

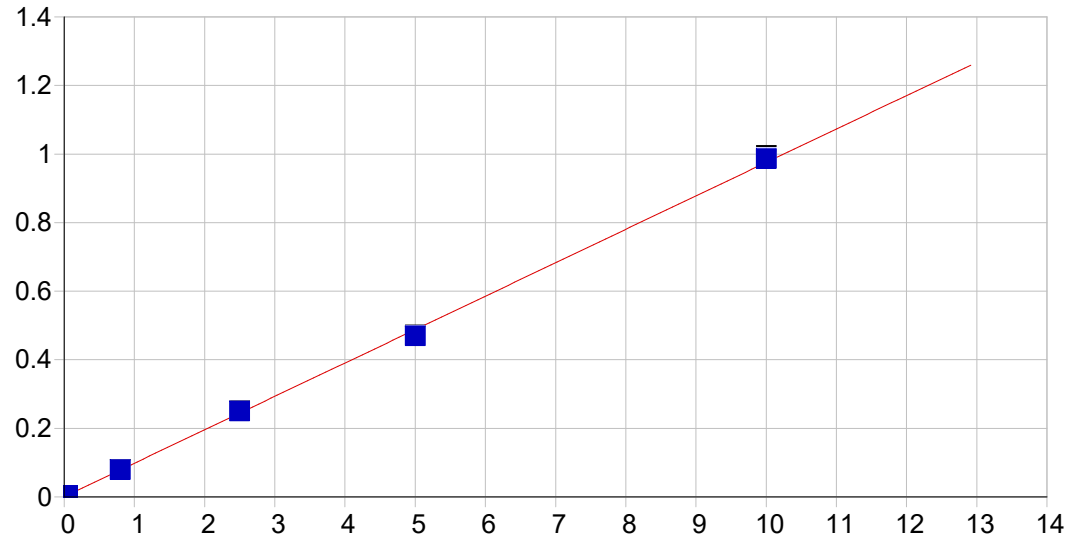


Se 196.090 {472}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000551	Re-Slope:	1.000000
A1 (Gain):	0.045672	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999685	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.003094		
Predicted MQL:	0.010313		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00055	.000	1
S1	.02000	.02387	.004	19.3	.00164	.000	1
S3	2.5000	2.5457	.046	1.83	.11679	.000	1
S4	5.0000	4.8018	-.198	-3.96	.21980	.002	1
S5	10.000	10.144	.144	1.44	.46373	.003	1
S2	.80000	.80457	.005	.572	.03729	.000	1

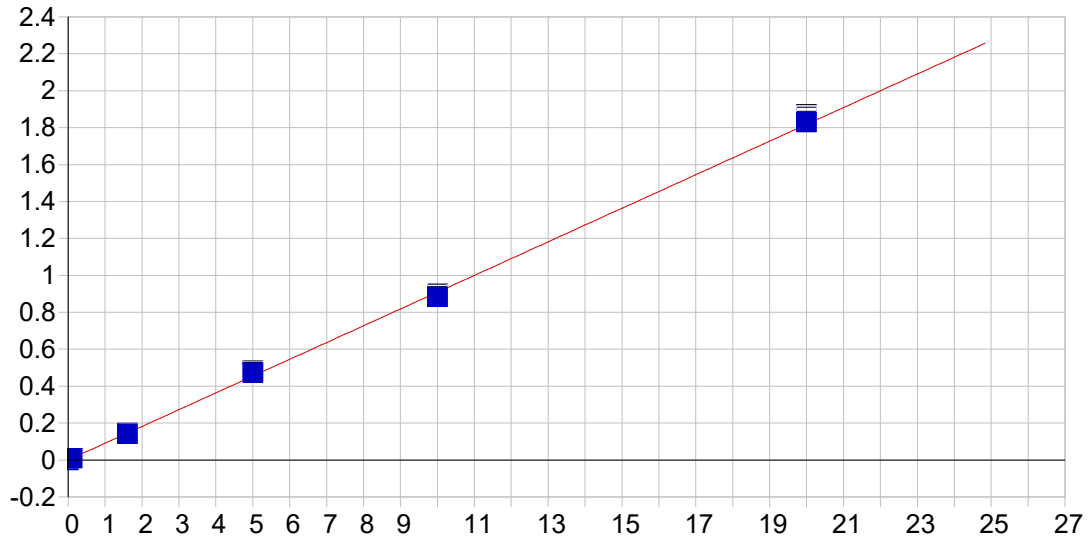


Sb 206.833 {463}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000754	Re-Slope:	1.000000
A1 (Gain):	0.097467	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999726	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.001854		
Predicted MQL:	0.006181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00075	.000	1
S1	.05000	.05289	.003	5.79	.00592	.000	1
S3	2.5000	2.5624	.062	2.49	.25116	.001	1
S4	5.0000	4.8128	-.187	-3.74	.47116	.002	1
S5	10.000	10.117	.117	1.17	.98943	.007	1
S2	.80000	.80539	.005	.673	.07946	.000	1

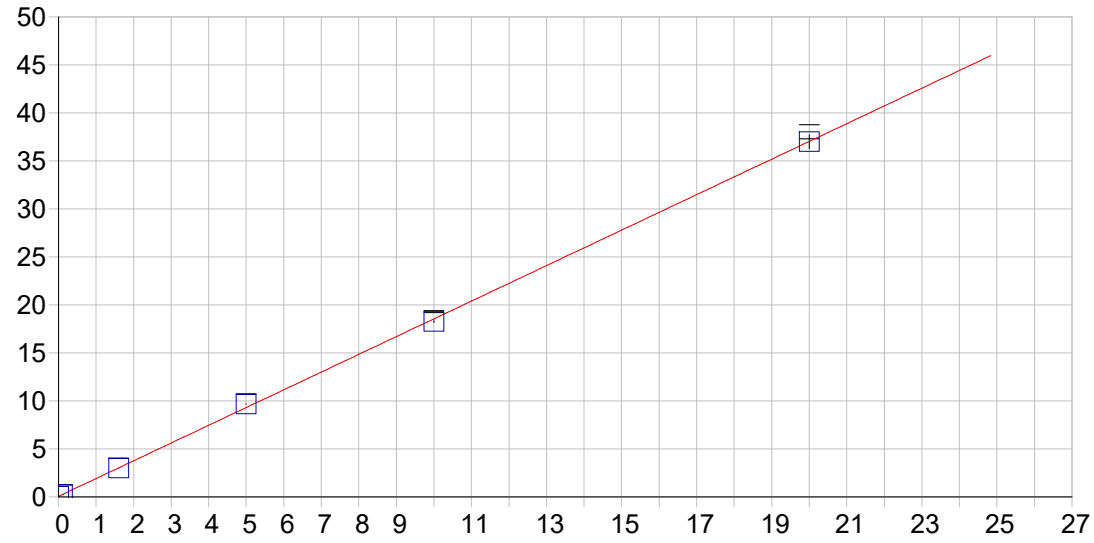


Al 396.152 { 85}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000038	Re-Slope:	1.000000
A1 (Gain):	0.090899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.000149		
Predicted MDL:	0.011545		
Predicted MQL:	0.038483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.10000	.10029	.000	.286	.00978	.000	1
S3	5.0000	5.1988	.199	3.98	.48134	.001	1
S4	10.000	9.7096	-.290	-2.90	.90019	.003	1
S5	20.000	20.126	.126	.628	1.8646	.006	1
S2	1.6000	1.5658	-.034	-2.14	.14511	.000	1

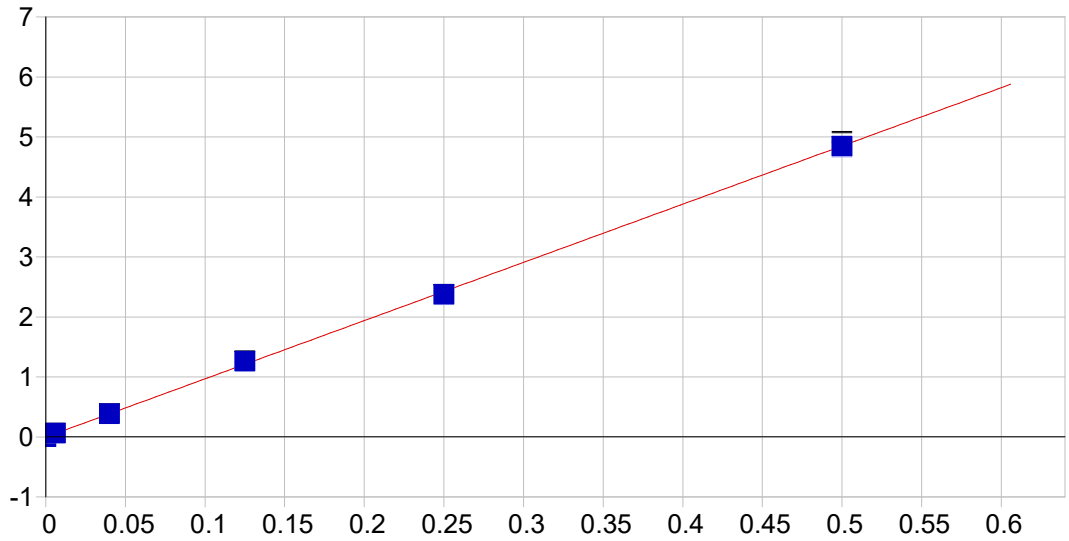


Ba 493.409 { 68}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.068210	Re-Slope:	1.000000
A1 (Gain):	1.848121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.002299		
Predicted MDL:	0.001573		
Predicted MQL:	0.005242		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.06821	.004	1
S1	.10000	.09696	-.003	-3.04	.24741	.002	1
S3	5.0000	5.1947	.195	3.89	9.6687	.021	1
S4	10.000	9.8467	-.153	-1.53	18.266	.089	1
S5	20.000	19.983	-.017	-.084	37.000	.743	1
S2	1.6000	1.5784	-.022	-1.35	2.9852	.014	1

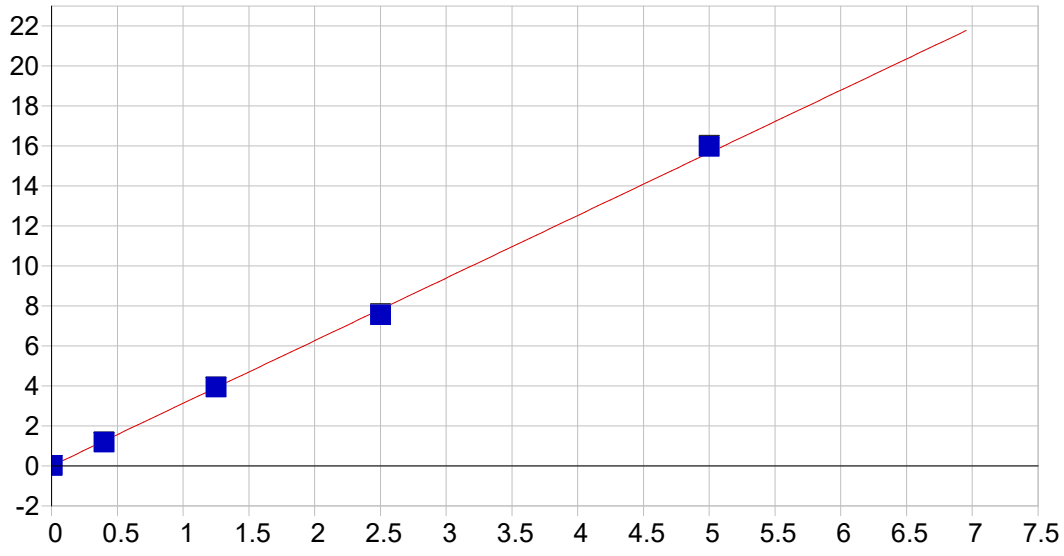


Be 234.861 {144}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002262	Re-Slope:	1.000000
A1 (Gain):	9.704089	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999817	Status:	OK.
Std Error of Est:	0.000532		
Predicted MDL:	0.000066		
Predicted MQL:	0.000219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00227	.000	1
S1	.00600	.00637	.000	6.11	.05908	.001	1
S3	.12500	.13011	.005	4.09	1.2549	.005	1
S4	.25000	.24494	-.005	-2.02	2.3638	.002	1
S5	.50000	.49973	-.000	-.055	4.8254	.080	1
S2	.04000	.03985	-.000	-.369	.38273	.002	1

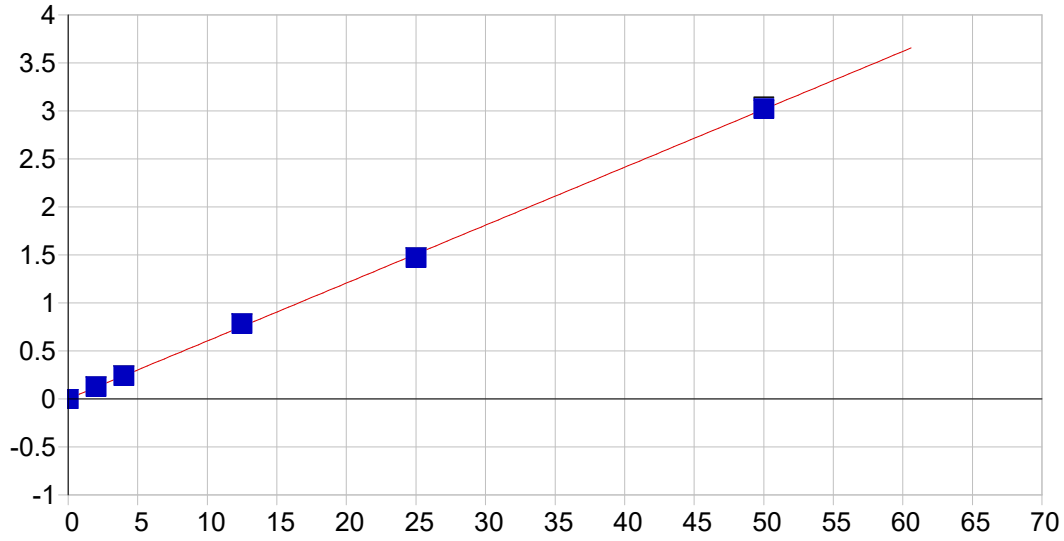


Cd 226.502 {449}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000507	Re-Slope:	1.000000
A1 (Gain):	3.131963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999660	Status:	OK.
Std Error of Est:	0.000741		
Predicted MDL:	0.000070		
Predicted MQL:	0.000233		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00051	.000	1
S1	.00600	.00594	-.000	-1.06	.01815	.000	1
S3	1.2500	1.2555	.006	.442	3.9343	.003	1
S4	2.5000	2.4131	-.087	-3.47	7.5625	.043	1
S5	5.0000	5.1023	.102	2.05	15.990	.048	1
S2	.40000	.37905	-.021	-5.24	1.1875	.000	1

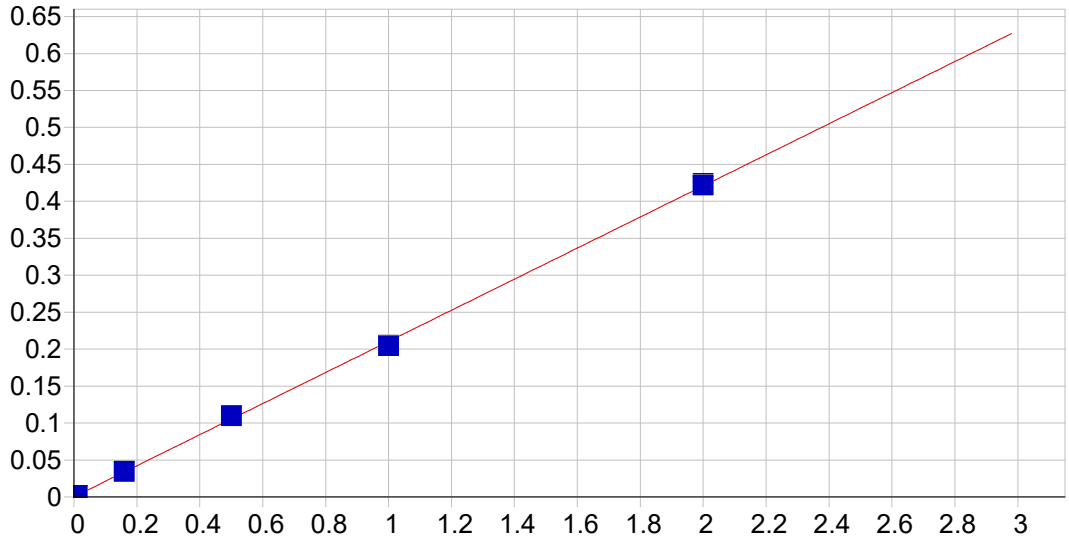


Ca 373.690 { 90}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000400	Re-Slope:	1.000000
A1 (Gain):	0.060318	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999803	Status:	OK.
Std Error of Est:	0.000633		
Predicted MDL:	0.013645		
Predicted MQL:	0.045483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00010	-.000	.000	.00039	.000	1
S2	4.0000	3.9739	-.026	-.653	.24010	.000	1
S3	12.500	12.960	.460	3.68	.78212	.001	1
S4	25.000	24.366	-.634	-2.54	1.4701	.004	1
S5	50.000	50.119	.119	.239	3.0235	.015	1
S1	2.0000	2.0812	.081	4.06	.12593	.001	1

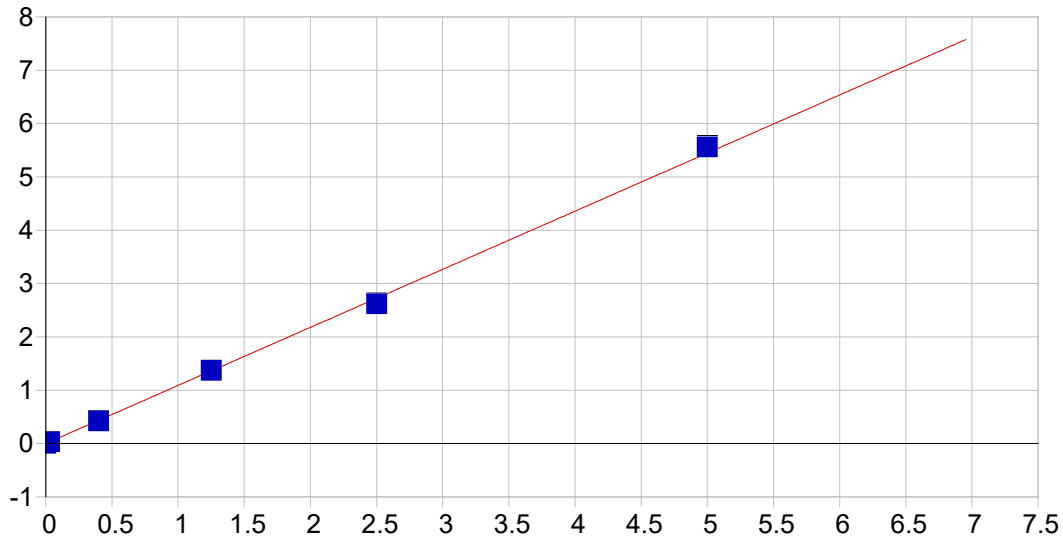


Cr 267.716 {126}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.210391	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999767	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000333		
Predicted MQL:	0.001109		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00011	.000	1
S1	.01000	.01078	.001	7.80	.00238	.000	1
S3	.50000	.52015	.020	4.03	.10963	.000	1
S4	1.0000	.97198	-.028	-2.80	.20478	.000	1
S5	2.0000	2.0044	.004	.221	.42216	.002	1
S2	.16000	.16266	.003	1.67	.03436	.000	1

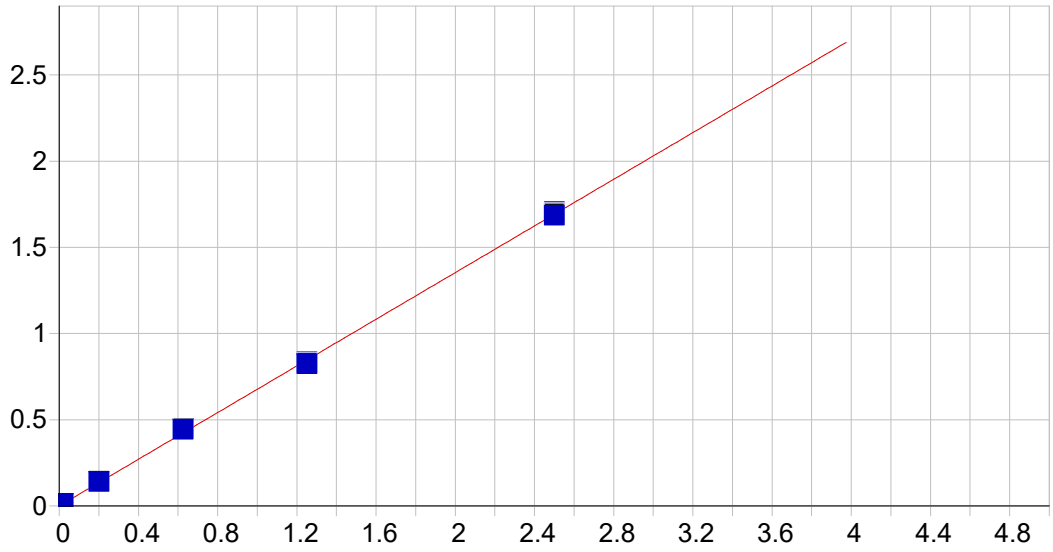


Co 228.616 {448}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	1.089455	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999650	Status:	OK.
Std Error of Est:	0.000587		
Predicted MDL:	0.000178		
Predicted MQL:	0.000594		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.03000	.03000	-.000	-.004	.03254	.000	1
S3	1.2500	1.2574	.007	.588	1.3721	.001	1
S4	2.5000	2.4037	-.096	-3.85	2.6234	.013	1
S5	5.0000	5.1038	.104	2.08	5.5696	.019	1
S2	.40000	.38513	-.015	-3.72	.42031	.000	1

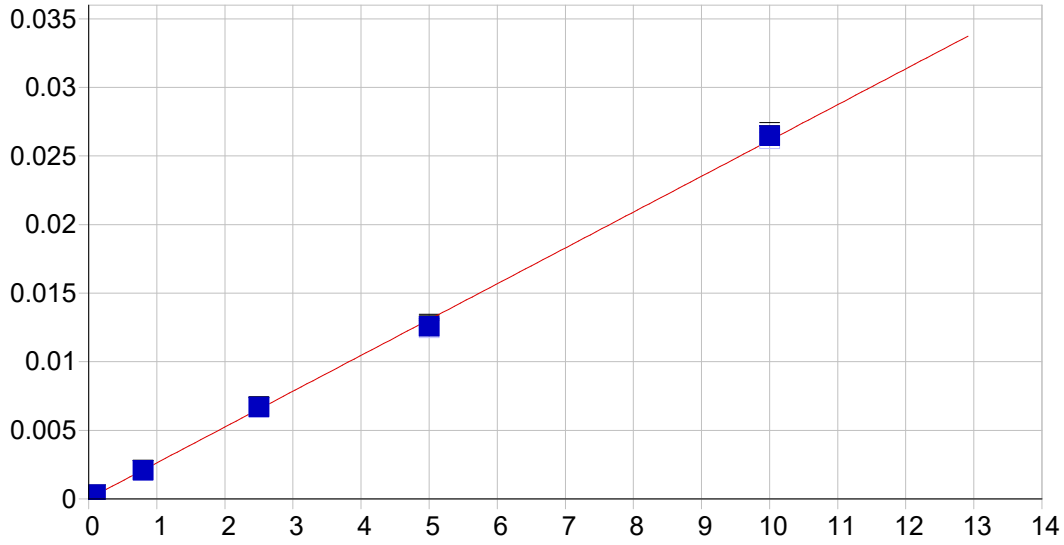


Cu 224.700 {450}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000244	Re-Slope:	1.000000
A1 (Gain):	0.676741	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999652	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.000406		
Predicted MQL:	0.001355		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00024	.000	1
S1	.02000	.02307	.003	15.4	.01601	.000	1
S3	.62500	.65653	.032	5.05	.44807	.001	1
S4	1.2500	1.2170	-.033	-2.64	.83085	.004	1
S5	2.5000	2.4910	-.009	-.361	1.7001	.007	1
S2	.20000	.20746	.007	3.73	.14177	.001	1

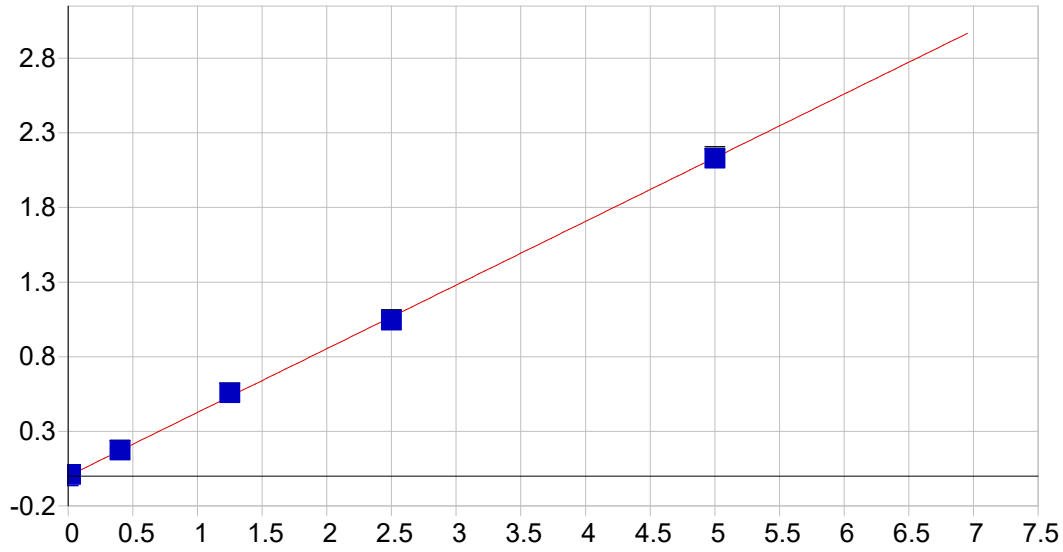


Fe 240.488 {140}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	0.002611	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999689	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.008390		
Predicted MQL:	0.027967		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00002	.000	1
S1	.10000	.10846	.008	8.46	.00030	.000	1
S3	2.5000	2.5608	.061	2.43	.00665	.000	1
S4	5.0000	4.8086	-.191	-3.83	.01246	.000	1
S5	10.000	10.130	.130	1.30	.02625	.000	1
S2	.80000	.79259	-.007	-.926	.00207	.000	1

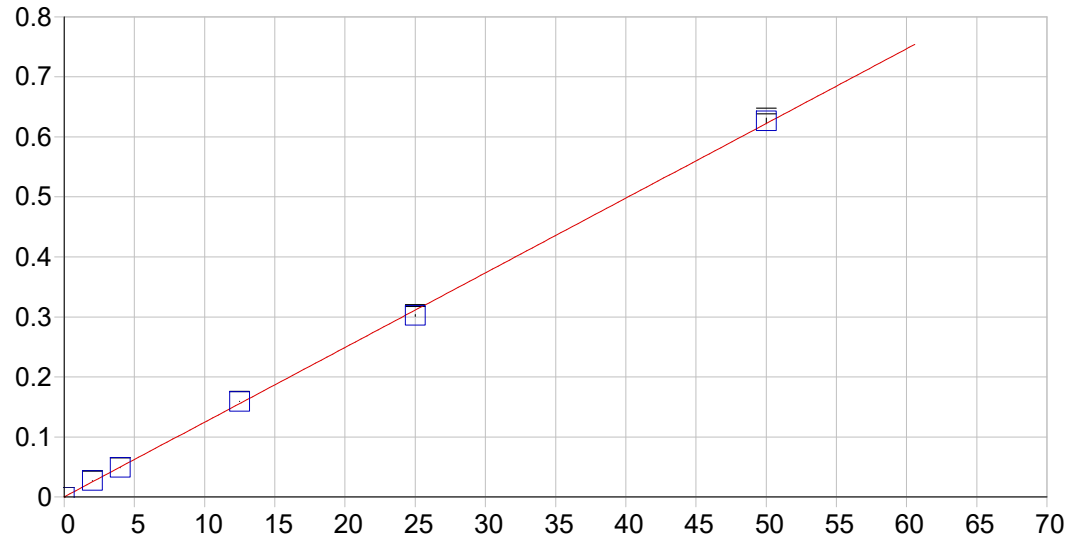


Mn 257.610 {131}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000071	Re-Slope:	1.000000
A1 (Gain):	0.426682	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999795	Status:	OK.
Std Error of Est:	0.000143		
Predicted MDL:	0.000703		
Predicted MQL:	0.002344		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.02000	.02184	.002	9.22	.00939	.000	1
S3	1.2500	1.3052	.055	4.41	.55708	.001	1
S4	2.5000	2.4475	-.052	-2.10	1.0446	.004	1
S5	5.0000	4.9917	-.008	-.165	2.1304	.009	1
S2	.40000	.40373	.004	.932	.17237	.000	1

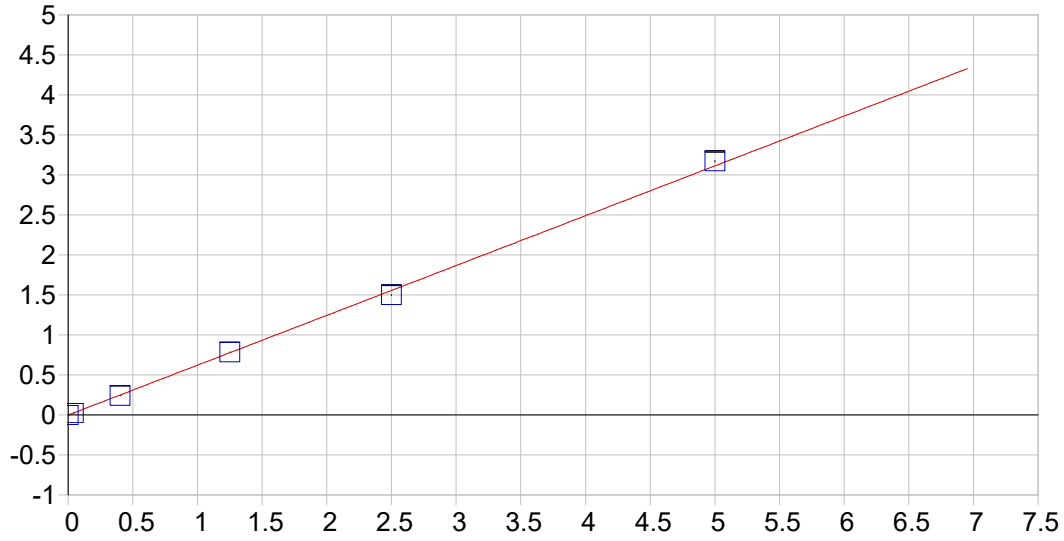


Mg 279.079 {121}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000117	Re-Slope:	1.000000
A1 (Gain):	0.012444	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999772	Status:	OK.
Std Error of Est:	0.000141		
Predicted MDL:	0.031376		
Predicted MQL:	0.104585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00012	.000	1
S2	4.0000	3.9279	-.072	-1.80	.04900	.000	1
S3	12.500	12.773	.273	2.18	.15906	.000	1
S4	25.000	24.288	-.712	-2.85	.30235	.001	1
S5	50.000	50.353	.353	.705	.62670	.005	1
S1	2.0000	2.1591	.159	7.95	.02698	.000	1

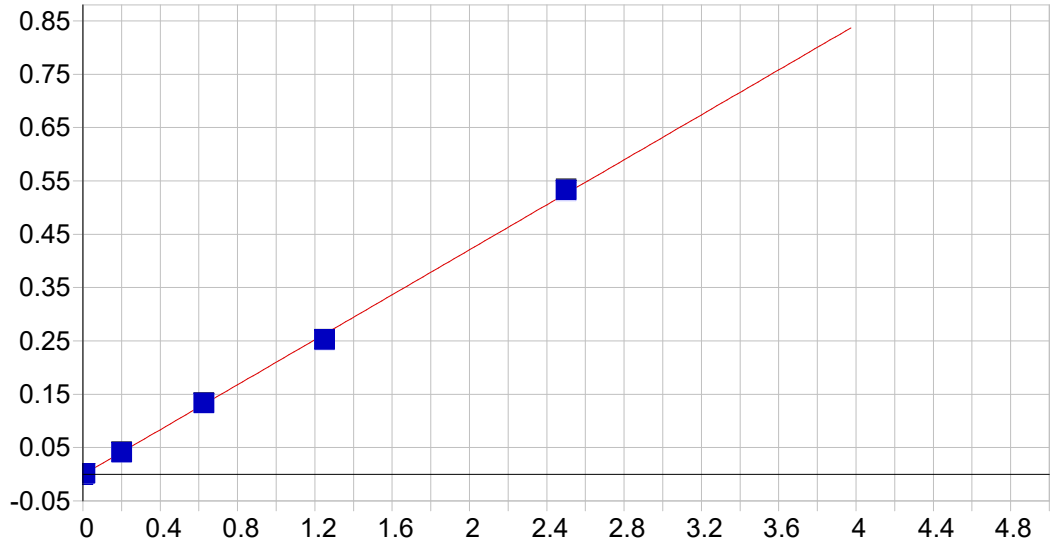


Ni 231.604 {446}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000670	Re-Slope:	1.000000
A1 (Gain):	0.622609	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.000364		
Predicted MDL:	0.000333		
Predicted MQL:	0.001108		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00067	.000	1
S1	.04000	.04051	.001	1.28	.02455	.000	1
S3	1.2500	1.2619	.012	.951	.78499	.000	1
S4	2.5000	2.4072	-.093	-3.71	1.4981	.007	1
S5	5.0000	5.0931	.093	1.86	3.1704	.011	1
S2	.40000	.38728	-.013	-3.18	.24045	.001	1

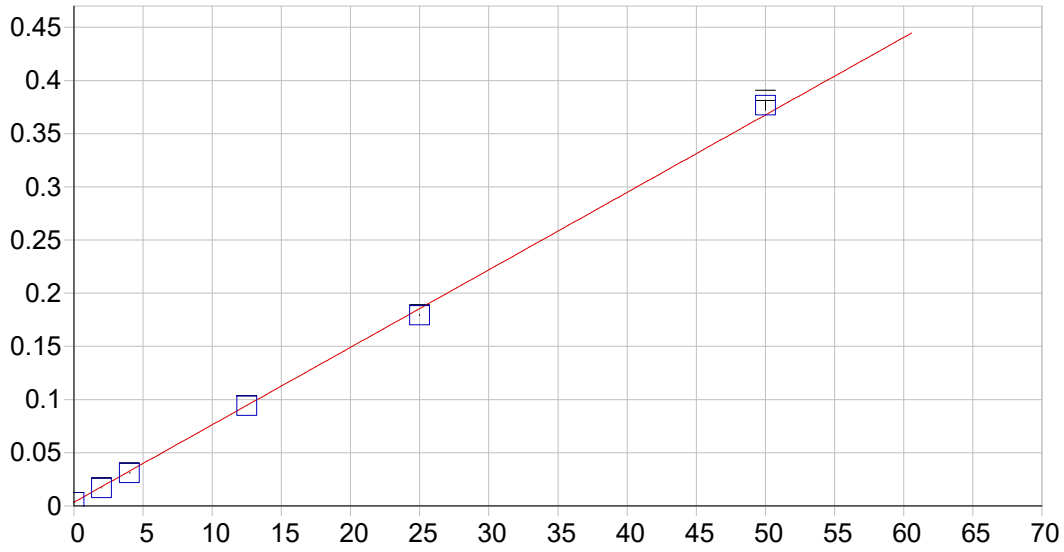


Ag 328.068 {103}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000871	Re-Slope:	1.000000
A1 (Gain):	0.210848	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999691	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.000520		
Predicted MQL:	0.001734		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00087	.000	1
S1	.01000	.01161	.002	16.1	.00156	.000	1
S3	.62500	.63806	.013	2.09	.13302	.000	1
S4	1.2500	1.2020	-.048	-3.84	.25130	.000	1
S5	2.5000	2.5331	.033	1.32	.53067	.001	1
S2	.20000	.20018	.000	.091	.04113	.000	1

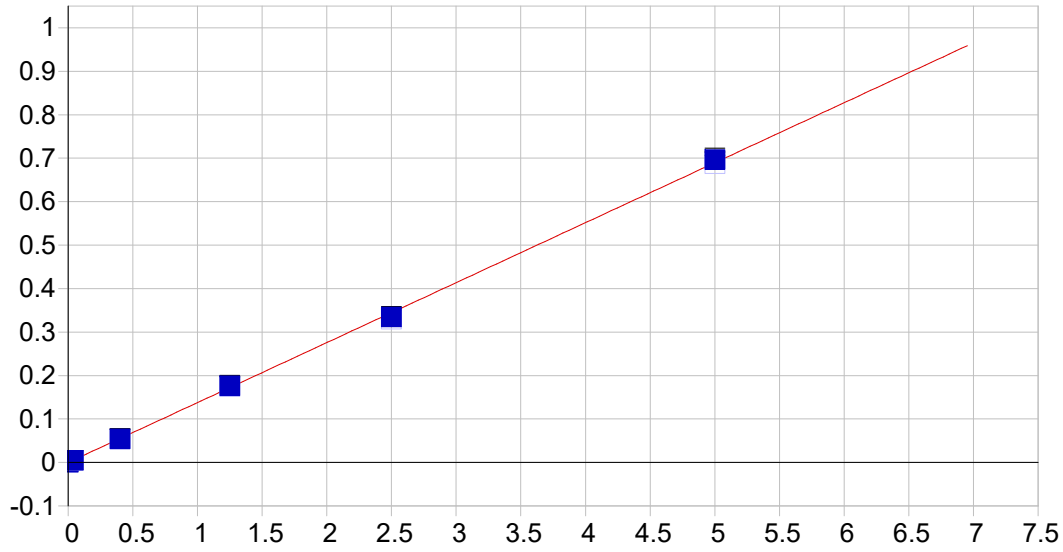


Na 589.592 { 57}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003471	Re-Slope:	1.000000
A1 (Gain):	0.007283	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999558	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.021067		
Predicted MQL:	0.070224		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00028	.000	.000	.00347	.000	1
S2	4.0000	3.7825	-.218	-5.44	.03102	.000	1
S3	12.500	12.470	-.030	-.236	.09430	.000	1
S4	25.000	24.157	-.843	-3.37	.17941	.001	1
S5	50.000	51.242	1.24	2.48	.37668	.005	1
S1	2.0000	1.8489	-.151	-7.55	.01694	.000	1

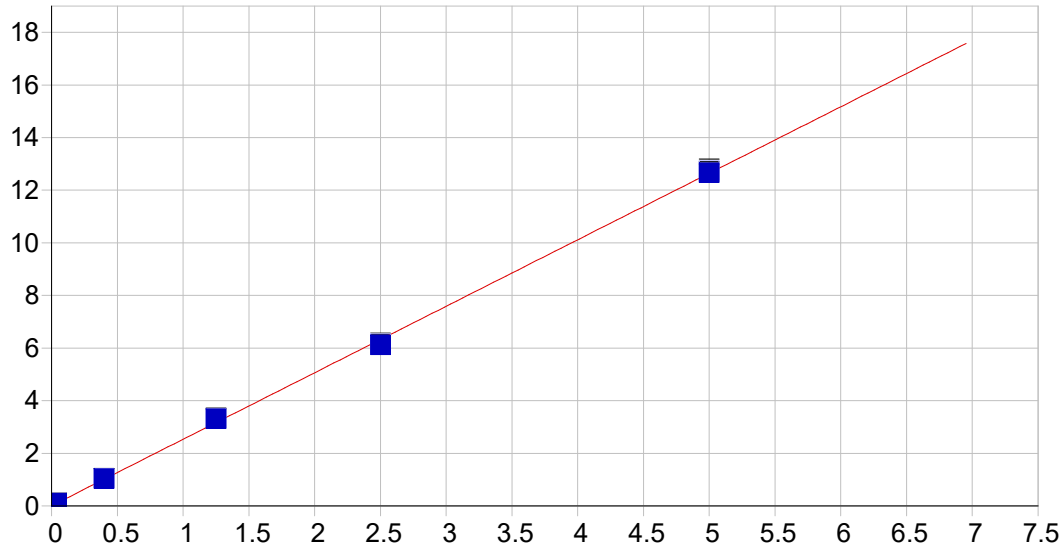


V 292.402 {115}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000201	Re-Slope:	1.000000
A1 (Gain):	0.137954	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999787	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.003317		
Predicted MQL:	0.011057		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00020	.001	1
S1	.04000	.03650	-.004	-8.76	.00463	.000	1
S3	1.2500	1.2803	.030	2.42	.17391	.001	1
S4	2.5000	2.4269	-.073	-2.92	.32958	.001	1
S5	5.0000	5.0519	.052	1.04	.68668	.004	1
S2	.40000	.39423	-.006	-1.44	.05338	.000	1

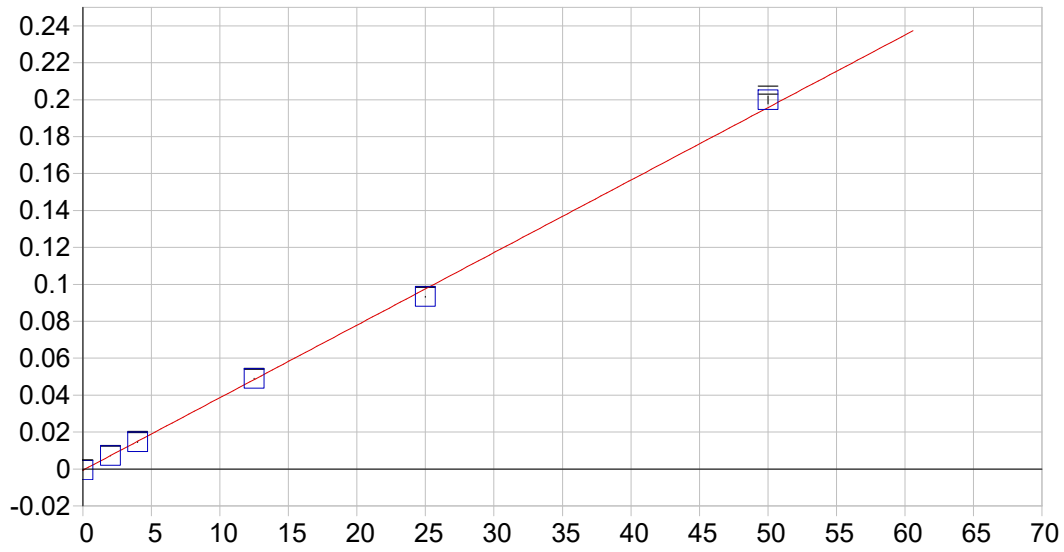


Zn 213.856 {158}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004419	Re-Slope:	1.000000
A1 (Gain):	2.528011	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.001502		
Predicted MDL:	0.000240		
Predicted MQL:	0.000800		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00441	.000	1
S1	.04000	.04382	.004	9.56	.11591	.001	1
S3	1.2500	1.3084	.058	4.68	3.3341	.008	1
S4	2.5000	2.4201	-.080	-3.20	6.1663	.022	1
S5	5.0000	5.0083	.008	.166	12.753	.052	1
S2	.40000	.40937	.009	2.34	1.0463	.002	1

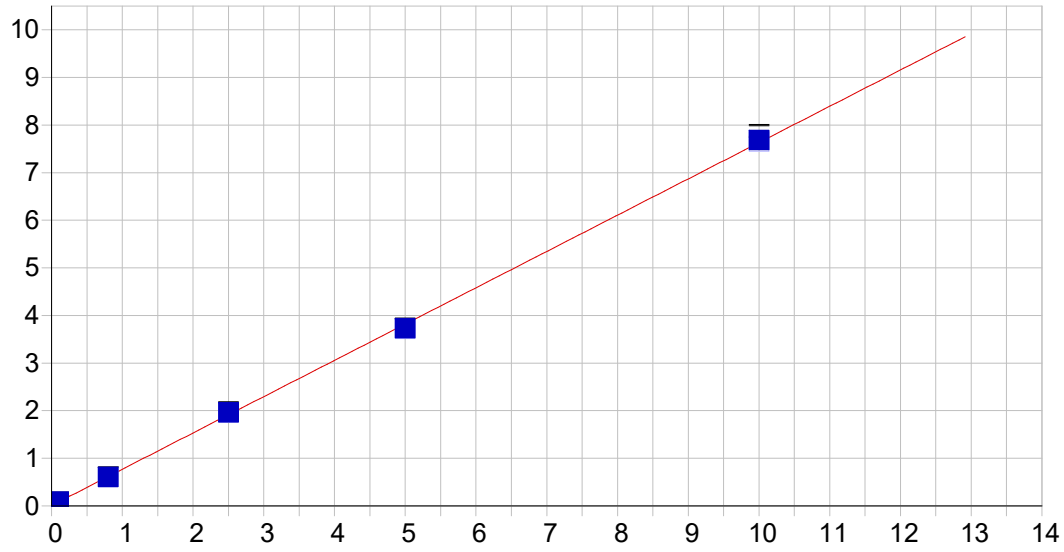


K 766.490 { 44}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000670	Re-Slope:	1.000000
A1 (Gain):	0.003928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999611	Status:	OK.
Std Error of Est:	0.000058		
Predicted MDL:	0.047131		
Predicted MQL:	0.157102		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	-.00067	.000	1
S2	4.0000	3.8913	-.109	-2.72	.01461	.000	1
S3	12.500	12.625	.125	1.00	.04892	.000	1
S4	25.000	23.922	-1.08	-4.31	.09329	.000	1
S5	50.000	51.048	1.05	2.10	.19983	.002	1
S1	2.0000	2.0133	.013	.667	.00724	.000	1

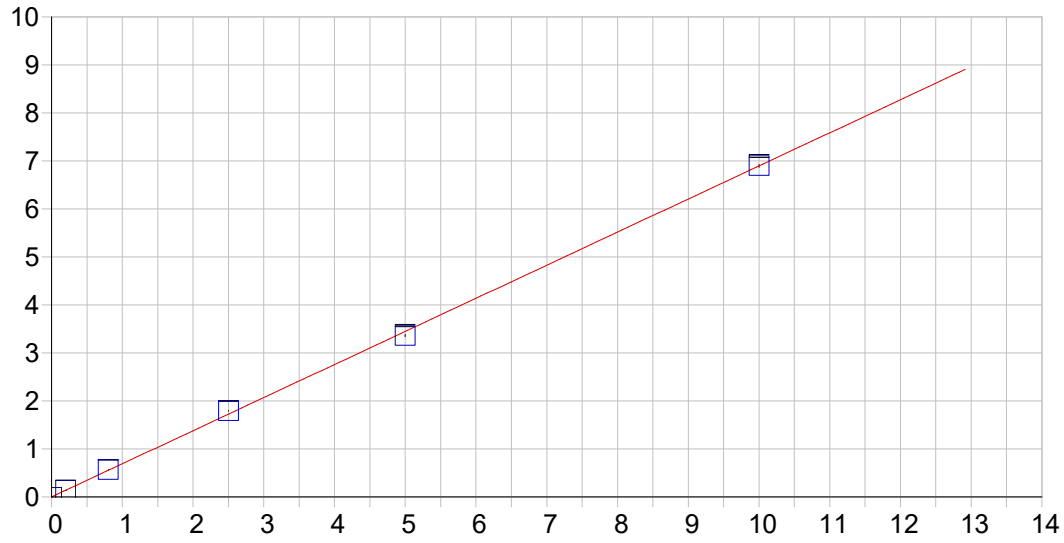


B 249.678 {135}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007553	Re-Slope:	1.000000
A1 (Gain):	0.762477	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999858	Status:	OK.
Std Error of Est:	0.000671		
Predicted MDL:	0.000834		
Predicted MQL:	0.002781		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00755	.000	1
S1	.10000	.10154	.002	1.54	.08453	.002	1
S3	2.5000	2.5664	.066	2.65	1.9575	.009	1
S4	5.0000	4.8821	-.118	-2.36	3.7163	.007	1
S5	10.000	10.063	.063	.630	7.6528	.126	1
S2	.80000	.78702	-.013	-1.62	.60543	.003	1

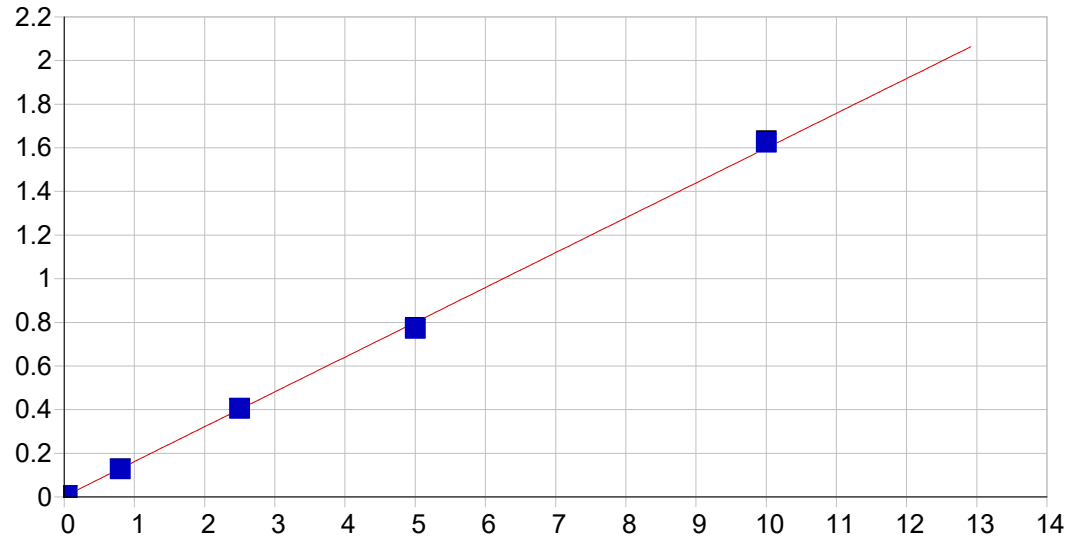


Mo 202.030 {467}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000548	Re-Slope:	1.000000
A1 (Gain):	0.689527	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999793	Status:	OK.
Std Error of Est:	0.001045		
Predicted MDL:	0.000250		
Predicted MQL:	0.000834		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00054	.000	1
S1	.20000	.20542	.005	2.71	.14219	.000	1
S3	2.5000	2.5992	.099	3.97	1.7928	.006	1
S4	5.0000	4.8751	-.125	-2.50	3.3620	.022	1
S5	10.000	10.001	.001	.012	6.8967	.032	1
S2	.80000	.81904	.019	2.38	.56530	.001	1

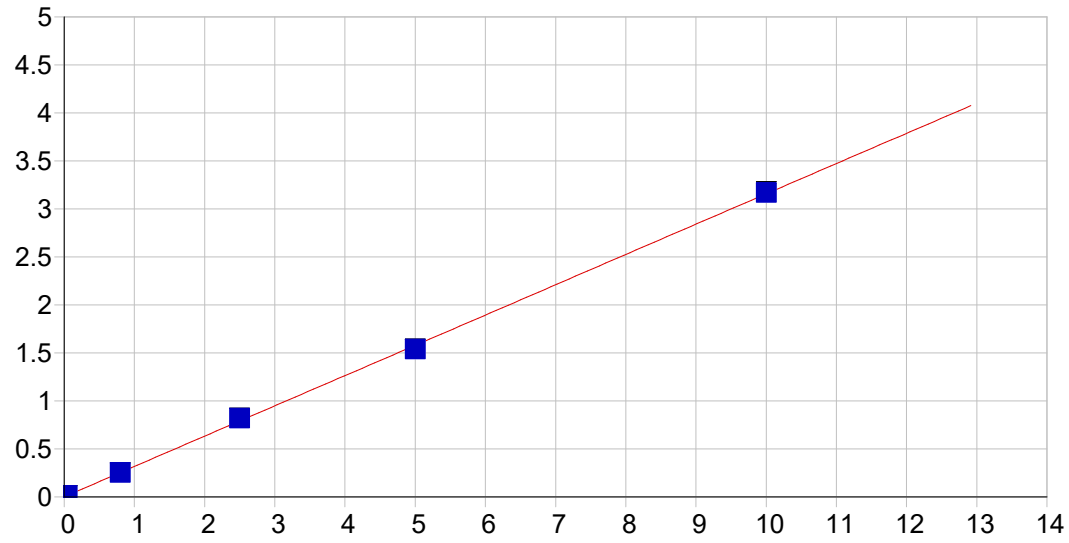


Sn 189.989 {478}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002383	Re-Slope:	1.000000
A1 (Gain):	0.159598	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999734	Status:	OK.
Std Error of Est:	0.000122		
Predicted MDL:	0.000587		
Predicted MQL:	0.001958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00238	.000	1
S1	.04000	.03824	-.002	-4.41	.00848	.000	1
S3	2.5000	2.5224	.022	.896	.40454	.001	1
S4	5.0000	4.8225	-.178	-3.55	.77122	.004	1
S5	10.000	10.171	.171	1.71	1.6240	.006	1
S2	.80000	.78621	-.014	-1.72	.12773	.000	1

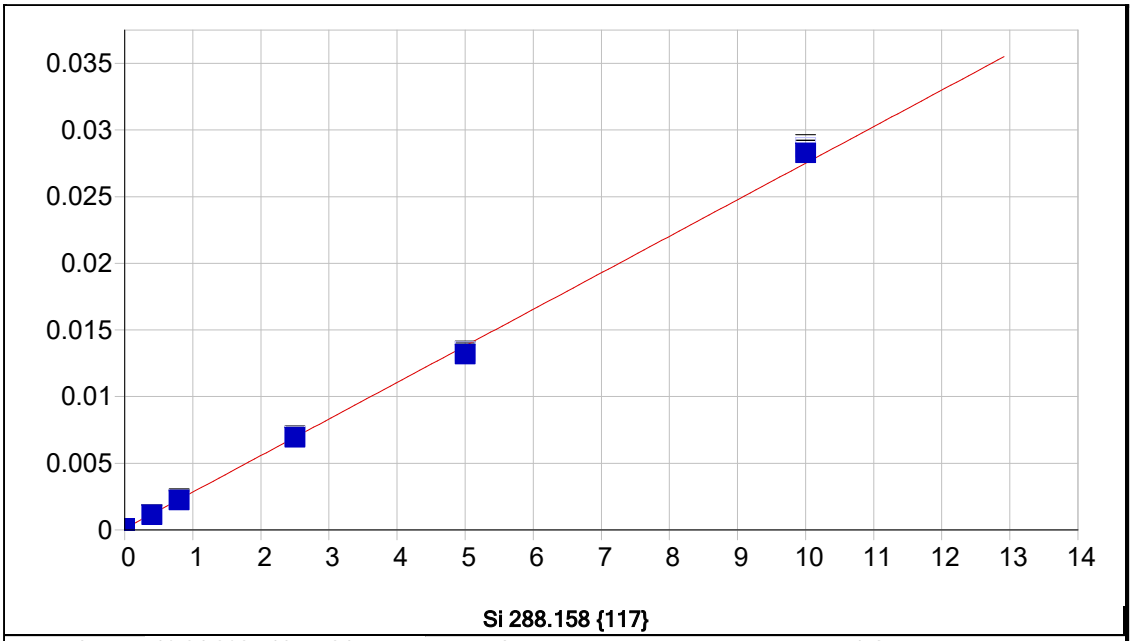


Ti 336.121 {100}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001603	Re-Slope:	1.000000
A1 (Gain):	0.315488	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999811	Status:	OK.
Std Error of Est:	0.000203		
Predicted MDL:	0.001878		
Predicted MQL:	0.006259		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00160	.001	1
S1	.04000	.03954	-.000	-1.16	.01407	.000	1
S3	2.5000	2.5918	.092	3.67	.81900	.001	1
S4	5.0000	4.8711	-.129	-2.58	1.5378	.003	1
S5	10.000	10.043	.043	.429	3.1689	.010	1
S2	.80000	.79463	-.005	-.671	.25221	.001	1

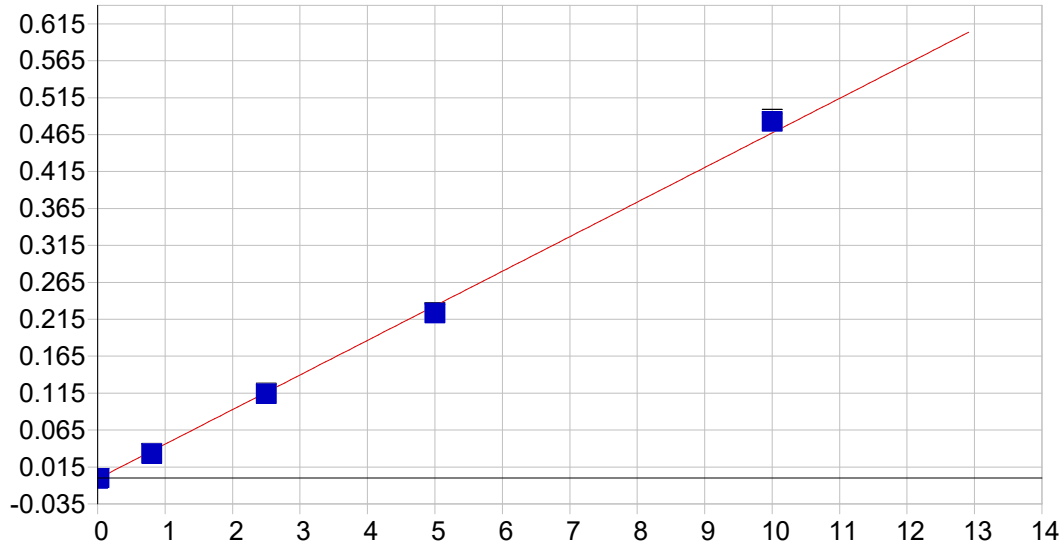


Si 288.158 {117}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000093	Re-Slope:	1.000000
A1 (Gain):	0.002742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999471	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.014545		
Predicted MQL:	0.048483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00009	.000	1
S1	.40000	.37588	-.024	-6.03	.00113	.000	1
S3	2.5000	2.4939	-.006	-.246	.00703	.000	1
S4	5.0000	4.7712	-.229	-4.58	.01338	.000	1
S5	10.000	10.280	.280	2.80	.02869	.000	1
S2	.80000	.77858	-.021	-2.68	.00226	.000	1

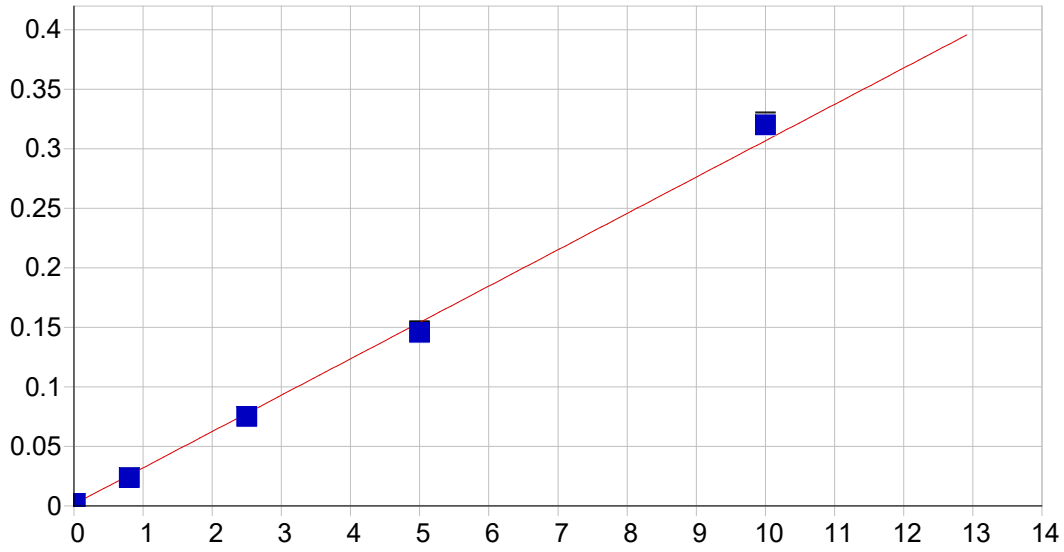


P 177.495 {490}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000936	Re-Slope:	1.000000
A1 (Gain):	0.046817	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999260	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.001637		
Predicted MQL:	0.005455		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00094	.000	1
S1	.02000	.01931	-.001	-3.46	-.00003	.000	1
S3	2.5000	2.4573	-.043	-1.71	.11409	.001	1
S4	5.0000	4.7847	-.215	-4.31	.22303	.001	1
S5	10.000	10.329	.329	3.29	.48258	.003	1
S2	.80000	.72925	-.071	-8.84	.03320	.000	1

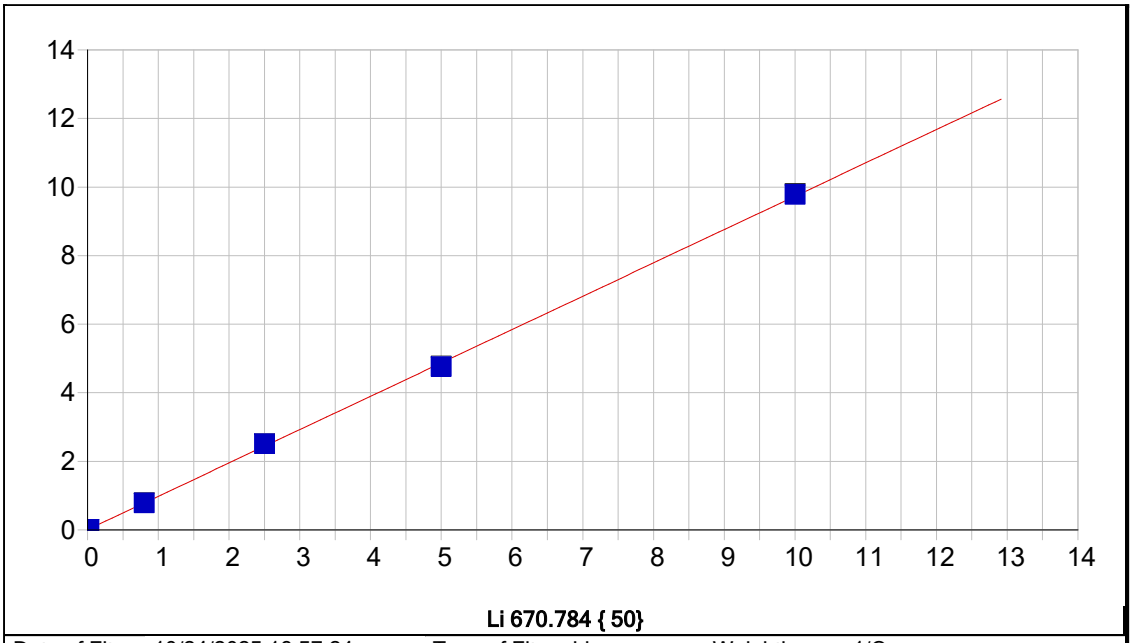


S 182.034 {485}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001437	Re-Slope:	1.000000
A1 (Gain):	0.030538	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998786	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.002763		
Predicted MQL:	0.009209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00144	.000	1
S1	.02000	.02212	.002	10.6	.00209	.000	1
S3	2.5000	2.4098	-.090	-3.61	.07483	.000	1
S4	5.0000	4.7225	-.278	-5.55	.14525	.001	1
S5	10.000	10.437	.437	4.37	.31937	.002	1
S2	.80000	.72868	-.071	-8.92	.02363	.000	1

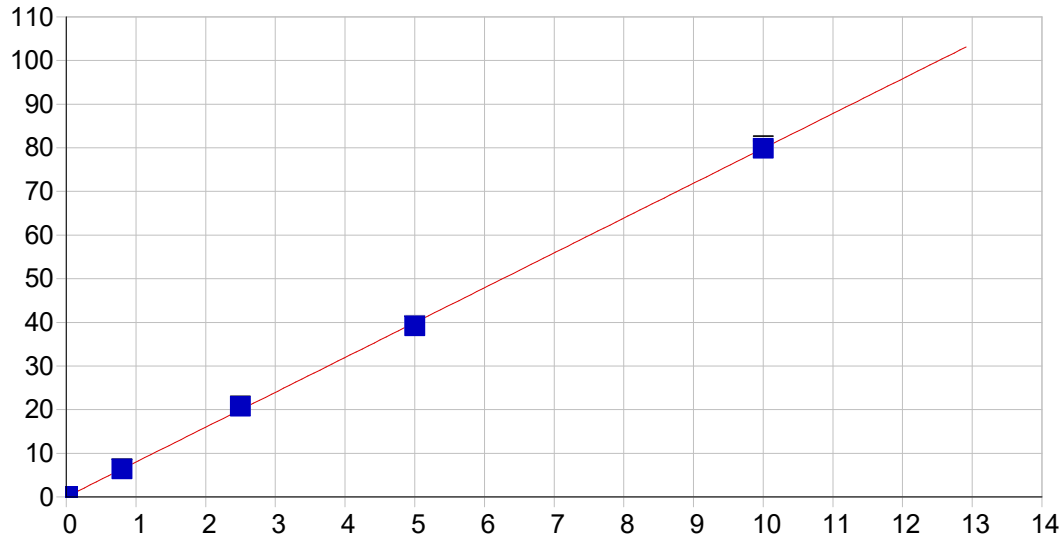


Li 670.784 { 50}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008433	Re-Slope:	1.000000
A1 (Gain):	0.972397	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000386		
Predicted MDL:	0.001967		
Predicted MQL:	0.006557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00843	.002	1
S5	10.000	10.052	.052	.519	9.7906	.019	1
S4	5.0000	4.8837	-.116	-2.33	4.7612	.016	1
S3	2.5000	2.5721	.072	2.88	2.5115	.002	1
S1	.02000	.01825	-.002	-8.74	.02652	.001	1
S2	.80000	.79408	-.006	-.740	.78122	.001	1

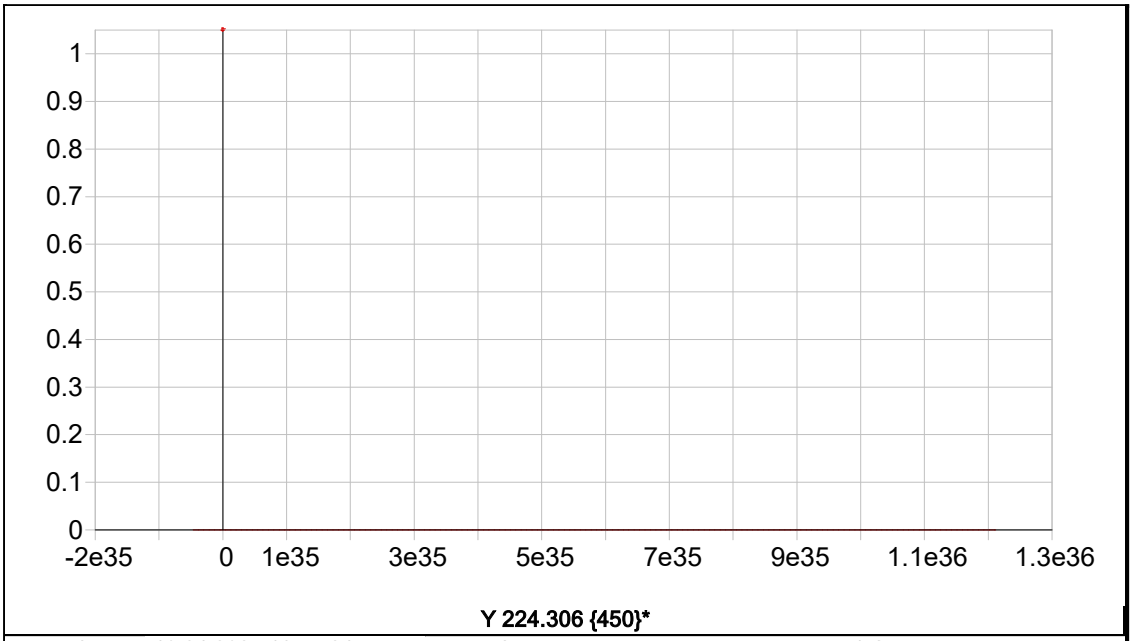


Sr 407.771 { 83}

Date of Fit:	10/24/2025 16:57:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000742	Re-Slope:	1.000000
A1 (Gain):	7.986233	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.003312		
Predicted MDL:	0.000125		
Predicted MQL:	0.000418		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00073	.001	1
S1	.02000	.02080	.001	3.99	.16761	.001	1
S3	2.5000	2.5991	.099	3.96	20.777	.016	1
S4	5.0000	4.9061	-.094	-1.88	39.220	.115	1
S5	10.000	9.9974	-.003	-.026	79.919	.537	1
S2	.80000	.79658	-.003	-.428	6.3685	.016	1

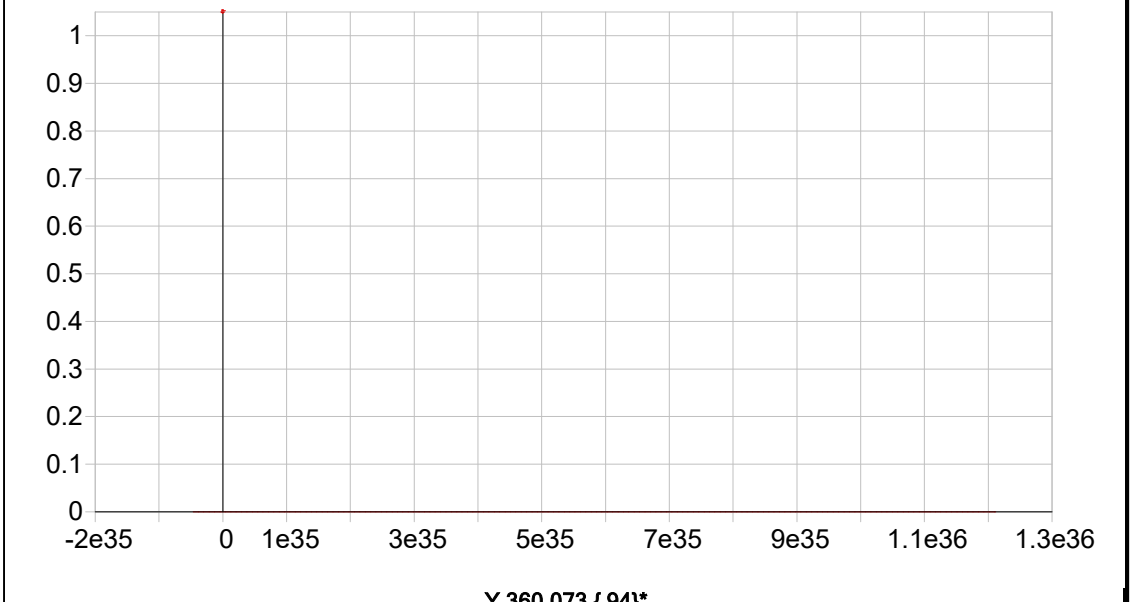


Y 224.306 {450}*

Date of Fit:	10/24/2025 16:57:24	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

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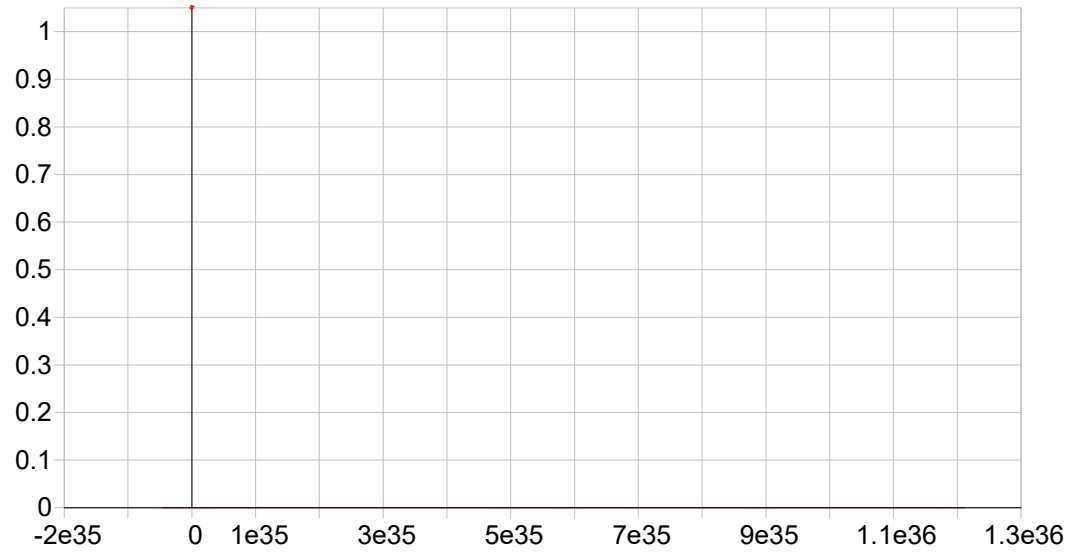
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

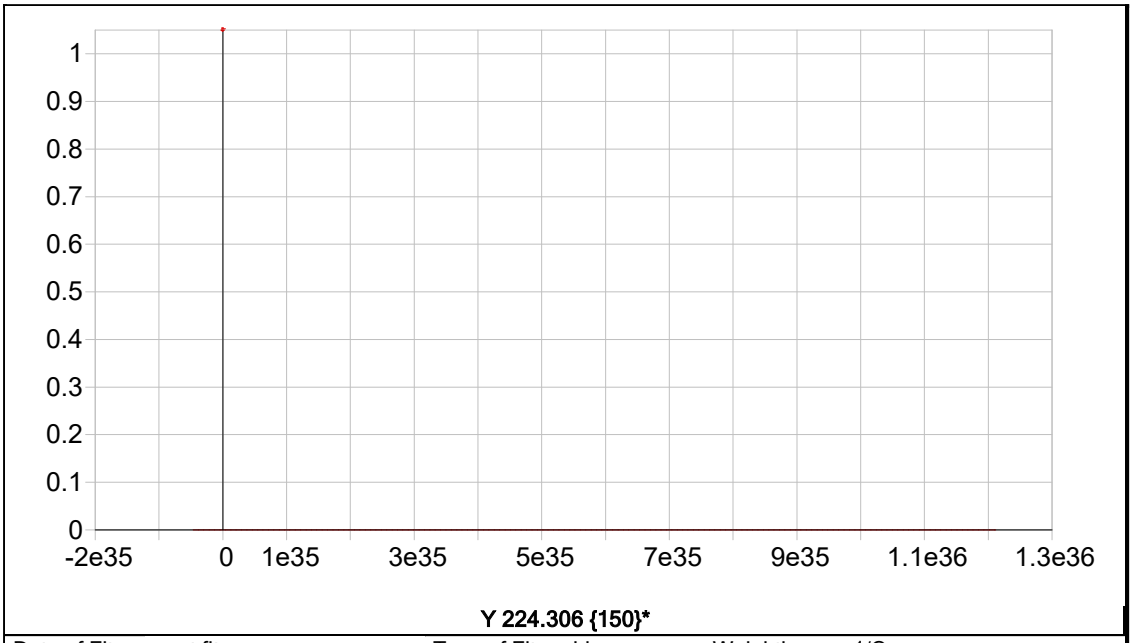
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

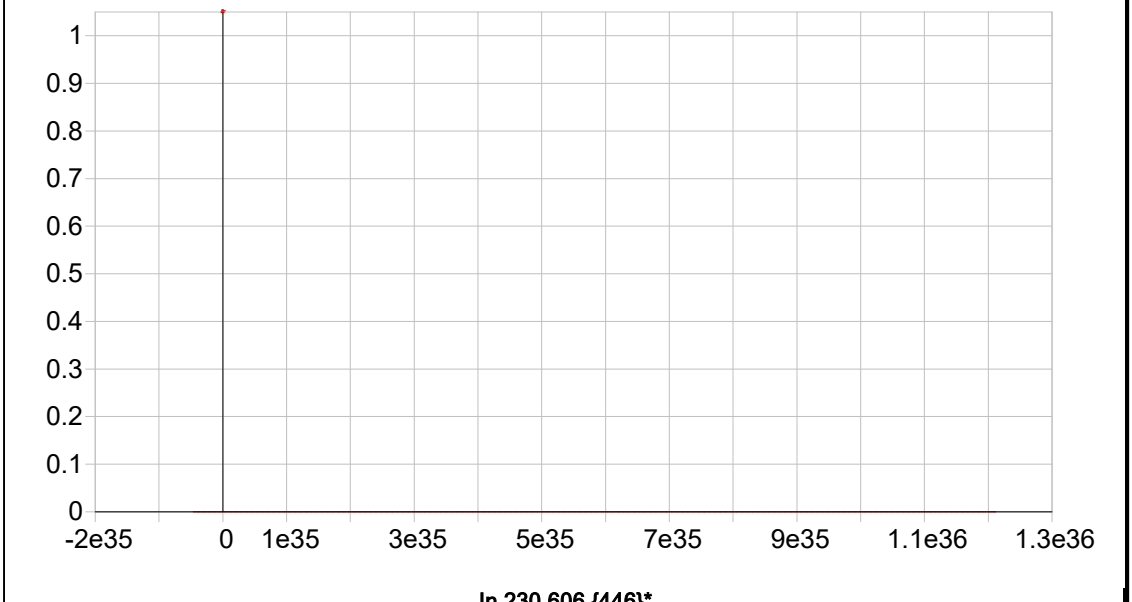
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S0 Acquired: 10/24/2025 14:07:51 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**-.00014**	**.00043**	**.00009**	**.00055**	**.00075**	**-.00004**	**.06821**	**-.00227**
Stddev	.00012	.00008	.00018	.00007	.00008	.00024	.00384	.00024
%RSD	84.510	18.862	203.06	13.253	10.280	642.09	5.6231	10.542
#1	-.00000	.00052	-.00011	.00063	.00073	-.00008	.07181	-.00215
#2	-.00022	.00043	.00014	.00052	.00069	-.00026	.06418	-.00211
#3	-.00019	.00035	.00023	.00050	.00084	.00022	.06866	-.00254

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	**-.00051**	**.00039**	**.00011**	**-.00000**	**.00024**	**.00002**	**.00007**	**.00012**
Stddev	.00009	.00047	.00005	.00013	.00018	.00002	.00015	.00005
%RSD	17.368	120.59	44.245	2816.7	73.448	89.457	210.08	43.717
#1	-.00043	.00078	.00006	.00011	.00008	.00004	.00003	.00015
#2	-.00049	.00054	.00012	.00002	.00043	.00001	-.00005	.00006
#3	-.00060	-.00014	.00016	-.00015	.00022	.00001	.00023	.00014

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	**-.00067**	**-.00087**	**.00347**	**-.00020**	**.00441**	**-.00067**	**.00755**	**.00054**
Stddev	.00005	.00016	.00016	.00056	.00012	.00018	.00045	.00012
%RSD	6.8022	18.470	4.5705	277.61	2.7288	26.425	5.9263	21.597
#1	-.00070	-.00069	.00351	.00041	.00432	-.00064	.00704	.00042
#2	-.00062	-.00093	.00330	-.00069	.00454	-.00086	.00788	.00065
#3	-.00070	-.00100	.00361	-.00032	.00435	-.00051	.00774	.00055

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	**.00238**	**.00160**	**.00009**	**-.00094**	**.00144**	**.00843**	**.00073**
Stddev	.00004	.00054	.00002	.00003	.00003	.00152	.00054
%RSD	1.7207	33.543	25.332	3.4427	1.7749	17.997	73.152
#1	.00234	.00099	.00012	-.00092	.00142	.00987	.00118
#2	.00242	.00201	.00008	-.00091	.00147	.00858	.00014
#3	.00239	.00181	.00008	-.00097	.00143	.00685	.00089

Sample Name: S0 Acquired: 10/24/2025 14:07:51 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**5494.8**	**91758.**	**7265.4**	**4138.4**	**7152.7**
Stddev	10.0	350.	54.5	19.5	14.5
%RSD	.18250	.38196	.74949	.47048	.20243
#1	5484.5	92157.	7207.5	4159.8	7136.6
#2	5495.5	91622.	7315.5	4121.8	7156.6
#3	5504.5	91497.	7273.2	4133.5	7164.7

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S1 Acquired: 10/24/2025 14:12:13 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**.00125**	**.00268**	**.00279**	**.00164**	**.00592**	**.00978**	**.24741**	**.05908**
Stddev	.00010	.00008	.00005	.00005	.00011	.00049	.00241	.00087
%RSD	7.7162	3.0999	1.8535	3.3229	1.8682	5.0144	.97249	1.4705
#1	.00131	.00262	.00278	.00170	.00605	.00922	.24681	.05935
#2	.00114	.00278	.00275	.00160	.00586	.01011	.25006	.05979
#3	.00129	.00265	.00285	.00163	.00585	.01003	.24536	.05811

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	**.01815**	**.12593**	**.00238**	**.03254**	**.01601**	**.00030**	**.00939**	**.02698**
Stddev	.00007	.00113	.00002	.00016	.00017	.00002	.00020	.00030
%RSD	.36663	.89706	.92876	.50453	1.0854	5.9524	2.1565	1.1301
#1	.01822	.12465	.00236	.03235	.01607	.00028	.00919	.02667
#2	.01809	.12679	.00238	.03267	.01582	.00031	.00959	.02728
#3	.01814	.12635	.00241	.03259	.01615	.00031	.00940	.02700

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	**.02455**	**.00156**	**.01694**	**.00463**	**.11591**	**.00724**	**.08453**	**.14219**
Stddev	.00013	.00005	.00012	.00043	.00068	.00013	.00160	.00042
%RSD	.54614	3.0201	.71729	9.3705	.59020	1.7680	1.8963	.29748
#1	.02462	.00159	.01692	.00419	.11626	.00716	.08394	.14251
#2	.02440	.00150	.01707	.00463	.11512	.00739	.08634	.14235
#3	.02465	.00158	.01683	.00506	.11635	.00717	.08330	.14171

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	**.00848**	**.01407**	**.00113**	**-.00003**	**.00209**	**.02652**	**.16761**
Stddev	.00004	.00045	.00003	.00004	.00008	.00065	.00138
%RSD	.47794	3.1921	2.3432	113.64	3.9547	2.4381	.82417
#1	.00847	.01356	.00115	-.00007	.00217	.02619	.16835
#2	.00852	.01441	.00110	-.00001	.00201	.02727	.16847
#3	.00844	.01423	.00113	-.00001	.00208	.02611	.16602

Sample Name: S1 Acquired: 10/24/2025 14:12:13 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**5486.8**	**91337.**	**7439.4**	**4179.9**	**6963.8**
Stddev	3.9	352.	62.1	20.1	12.2
%RSD	.07041	.38496	.83532	.48120	.17475
#1	5483.2	91141.	7436.4	4156.7	6973.1
#2	5486.3	91127.	7378.7	4190.8	6968.3
#3	5490.9	91743.	7502.9	4192.1	6950.0

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S2 Acquired: 10/24/2025 14:16:36 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**.04454**	**.04396**	**.16078**	**.03729**	**.07946**	**.14511**	**2.9852**	**.38273**	**1.1875**
Stddev	.00015	.00048	.00030	.00016	.00022	.00044	.0135	.00156	.0001
%RSD	.33648	1.1032	.18548	.44091	.27271	.30337	.45313	.40700	.01272
#1	.04440	.04439	.16043	.03710	.07932	.14480	2.9696	.38448	1.1873
#2	.04470	.04404	.16094	.03739	.07935	.14561	2.9935	.38149	1.1875
#3	.04453	.04343	.16096	.03738	.07971	.14491	2.9926	.38223	1.1876

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	**.24010**	**.03436**	**.42031**	**.14177**	**.00207**	**.17237**	**.04900**	**.24045**	**.04113**
Stddev	.00027	.00012	.00041	.00050	.00001	.00032	.00030	.00056	.00019
%RSD	.11202	.34789	.09701	.35367	.54364	.18375	.60328	.23403	.46947
#1	.23997	.03433	.41989	.14130	.00208	.17245	.04888	.24006	.04100
#2	.24041	.03426	.42070	.14230	.00206	.17202	.04877	.24020	.04104
#3	.23992	.03450	.42034	.14171	.00207	.17264	.04933	.24110	.04135

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	**.03102**	**.05338**	**1.0463**	**.01461**	**.60543**	**.56530**	**.12773**	**.25221**	**.00226**
Stddev	.00010	.00030	.0019	.00034	.00258	.00072	.00021	.00085	.00006
%RSD	.31083	.55511	.18442	2.3325	.42595	.12789	.16722	.33717	2.7422
#1	.03091	.05372	1.0445	.01424	.60831	.56452	.12776	.25128	.00221
#2	.03105	.05324	1.0462	.01469	.60468	.56594	.12750	.25239	.00224
#3	.03110	.05318	1.0483	.01491	.60331	.56545	.12792	.25295	.00233

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03320**	**.02363**	**.78122**	**6.3685**
Stddev	.00007	.00008	.00066	.0160
%RSD	.21341	.32611	.08509	.25182
#1	.03324	.02370	.78045	6.3531
#2	.03325	.02364	.78161	6.3673
#3	.03312	.02354	.78160	6.3851

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S2 Acquired: 10/24/2025 14:16:36 Type: Cal
Method: 6010-200.7 NEW(v308) 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	5560.1	92125.	7445.1	4258.9	6871.4
Stddev	15.2	189.	33.2	17.9	13.3
%RSD	.27275	.20568	.44549	.42012	.19318
#1	5576.3	92268.	7406.9	4279.5	6873.8
#2	5557.7	92197.	7461.4	4248.4	6883.4
#3	5546.2	91910.	7466.9	4248.7	6857.2

Sample Name: S3 Acquired: 10/24/2025 14:20:43 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**.14230**	**.13833**	**.52201**	**.11679**	**.25116**	**.48134**	**9.6687**	**1.2549**	**3.9343**
Stddev	.00052	.00333	.00037	.00032	.00069	.00141	.0208	.0051	.0032
%RSD	.36773	2.4091	.07170	.27727	.27483	.29265	.21488	.40606	.08053
#1	.14242	.14218	.52158	.11692	.25192	.48216	9.6500	1.2491	3.9307
#2	.14276	.13645	.52222	.11702	.25098	.47971	9.6650	1.2582	3.9366
#3	.14173	.13638	.52223	.11642	.25058	.48214	9.6910	1.2576	3.9357

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	**.78212**	**.10963**	**1.3721**	**.44807**	**.00665**	**.55708**	**.15906**	**.78499**	**.13302**
Stddev	.00058	.00031	.0010	.00087	.00001	.00086	.00018	.00007	.00007
%RSD	.07452	.28239	.07467	.19445	.15799	.15377	.11469	.00883	.05074
#1	.78196	.10999	1.3712	.44877	.00664	.55609	.15885	.78491	.13310
#2	.78163	.10948	1.3732	.44835	.00666	.55758	.15913	.78500	.13298
#3	.78276	.10943	1.3719	.44709	.00665	.55756	.15920	.78505	.13298

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	**.09430**	**.17391**	**3.3341**	**.04892**	**1.9575**	**1.7928**	**.40454**	**.81900**	**.00703**
Stddev	.00025	.00089	.0083	.00024	.0088	.0055	.00102	.00086	.00002
%RSD	.26157	.51319	.24942	.49908	.44899	.30720	.25232	.10507	.30590
#1	.09425	.17298	3.3381	.04918	1.9474	1.7975	.40367	.81831	.00701
#2	.09408	.17476	3.3246	.04869	1.9615	1.7942	.40566	.81997	.00703
#3	.09457	.17398	3.3397	.04889	1.9635	1.7867	.40430	.81874	.00706

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11409**	**.07483**	**2.5115**	**20.777**
Stddev	.00071	.00012	.0016	.016
%RSD	.62370	.16337	.06532	.07921
#1	.11328	.07473	2.5107	20.759
#2	.11463	.07479	2.5104	20.781
#3	.11436	.07497	2.5134	20.791

Sample Name: S3 Acquired: 10/24/2025 14:20:43 Type: Cal
Method: 6010-200.7 NEW(v308) 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	5502.9	90119.	7258.0	4222.6	6536.0
Stddev	14.5	295.	16.4	20.7	5.7
%RSD	.26370	.32733	.22635	.48908	.08698
#1	5493.2	89836.	7268.4	4201.2	6538.6
#2	5495.9	90424.	7266.6	4224.0	6529.5
#3	5519.6	90098.	7239.1	4242.4	6539.9

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S4 Acquired: 10/24/2025 14:24:54 Type: Cal
Method: 6010-200.7 NEW(v308) 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	**.26898**	**.26868**	**.99295**	**.21980**	**.47116**	**.90019**	**18.266**	**2.3638**	**7.5625**
Stddev	.00189	.01166	.00427	.00193	.00152	.00275	.089	.0022	.0433
%RSD	.70313	4.3395	.42977	.87680	.32250	.30525	.48847	.09158	.57283
#1	.26695	.25530	.98920	.21780	.46985	.89708	18.312	2.3623	7.5207
#2	.26929	.27410	.99205	.21995	.47081	.90231	18.323	2.3629	7.5596
#3	.27069	.27665	.99760	.22165	.47283	.90118	18.163	2.3663	7.6072

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	**1.4701**	**.20478**	**2.6234**	**.83085**	**.01246**	**1.0446**	**.30235**	**1.4981**	**.25130**
Stddev	.0037	.00029	.0126	.00408	.00016	.0045	.00144	.0075	.00017
%RSD	.25009	.14103	.48123	.49083	1.2732	.42573	.47497	.50050	.06902
#1	1.4699	.20454	2.6122	.82754	.01239	1.0439	.30216	1.4917	.25112
#2	1.4739	.20469	2.6209	.82961	.01265	1.0493	.30387	1.4961	.25131
#3	1.4665	.20510	2.6370	.83541	.01235	1.0405	.30102	1.5063	.25147

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	**.17941**	**.32958**	**6.1663**	**.09329**	**3.7163**	**3.3620**	**.77122**	**1.5378**	**.01338**
Stddev	.00051	.00146	.0216	.00029	.0071	.0224	.00432	.0027	.00003
%RSD	.28419	.44181	.35093	.31275	.19224	.66524	.56051	.17418	.24695
#1	.17917	.32941	6.1417	.09296	3.7193	3.3396	.76680	1.5367	.01336
#2	.18000	.33111	6.1747	.09350	3.7214	3.3622	.77142	1.5409	.01342
#3	.17907	.32821	6.1825	.09341	3.7081	3.3843	.77544	1.5359	.01337

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22303**	**.14525**	**4.7612**	**39.220**
Stddev	.00115	.00131	.0161	.115
%RSD	.51569	.90271	.33798	.29314
#1	.22208	.14374	4.7518	39.256
#2	.22431	.14593	4.7798	39.313
#3	.22271	.14609	4.7521	39.092

Sample Name: S4 Acquired: 10/24/2025 14:24:54 Type: Cal
Method: 6010-200.7 NEW(v308) 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	5528.4	90347.	7277.1	4229.5	6388.2
Stddev	23.8	128.	27.5	19.4	25.0
%RSD	.43116	.14155	.37753	.45889	.39063
#1	5543.8	90229.	7252.6	4244.8	6402.5
#2	5540.5	90328.	7271.9	4236.0	6402.7
#3	5501.0	90483.	7306.8	4207.7	6359.4

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: S5 Acquired: 10/24/2025 14:29:06 Type: Cal
Method: 6010-200.7 NEW(v308) 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	.56652	.54289	2.1156	.46373	.98943	1.8646	37.000	4.8254	15.990
Stddev	.00219	.01417	.0055	.00273	.00673	.0063	.743	.0796	.048
%RSD	.38609	2.6098	.25759	.58765	.68067	.33900	2.0092	1.6496	.30023
#1	.56812	.54546	2.1184	.46574	.99609	1.8574	36.186	4.7336	15.998
#2	.56403	.52761	2.1094	.46063	.98262	1.8673	37.643	4.8756	15.939
#3	.56742	.55559	2.1191	.46482	.98959	1.8691	37.171	4.8669	16.034

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	3.0235	.42216	5.5696	1.7001	.02625	2.1304	.62670	3.1704	.53067
Stddev	.0152	.00172	.0190	.0070	.00023	.0095	.00465	.0106	.00147
%RSD	.50243	.40763	.34055	.40916	.88944	.44553	.74234	.33380	.27760
#1	3.0060	.42059	5.5802	1.7056	.02652	2.1198	.62153	3.1748	.52899
#2	3.0334	.42400	5.5477	1.6922	.02610	2.1382	.63055	3.1583	.53172
#3	3.0311	.42189	5.5809	1.7024	.02612	2.1331	.62802	3.1780	.53132

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	.37668	.68668	12.753	.19983	7.6528	6.8967	1.6240	3.1689	.02869
Stddev	.00475	.00357	.052	.00210	.1261	.0317	.0062	.0095	.00020
%RSD	1.2604	.52016	.40596	1.0512	1.6474	.45997	.38240	.30046	.70599
#1	.38216	.68321	12.694	.20226	7.5073	6.9195	1.6227	3.1580	.02892
#2	.37417	.69034	12.783	.19857	7.7246	6.8605	1.6185	3.1754	.02854
#3	.37371	.68648	12.783	.19867	7.7267	6.9101	1.6307	3.1733	.02862

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.48258	.31937	9.7906	79.919
Stddev	.00301	.00240	.0195	.537
%RSD	.62468	.75195	.19891	.67150
#1	.48380	.32014	9.7681	79.332
#2	.47915	.31667	9.8021	80.384
#3	.48480	.32129	9.8016	80.042

Sample Name: S5 Acquired: 10/24/2025 14:29:06 Type: Cal
Method: 6010-200.7 NEW(v308) 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	5220.4	85882.	7115.7	3925.3	5831.7
Stddev	20.2	250.	106.7	23.1	18.9
%RSD	.38651	.29063	1.4989	.58808	.32427
#1	5206.7	85942.	7236.6	3944.6	5823.9
#2	5243.6	85608.	7035.1	3899.7	5853.2
#3	5211.1	86096.	7075.3	3931.5	5817.9

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICV01 Acquired: 10/24/2025 14:33:21 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**3.946691**	**4.010212**	**3.831660**	**3.965162**	**4.014583**	**7.816199**
Stddev	.003566	.081410	.002335	.003670	.008871	.004257
%RSD	.0903617	2.030078	.0609414	.0925503	.2209599	.0544584
#1	3.950626	3.966747	3.830546	3.964406	4.008383	7.820606
#2	3.943672	4.104130	3.834343	3.961929	4.010622	7.815879
#3	3.945775	3.959758	3.830090	3.969150	4.024744	7.812111

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.702571**	**.1983100**	**1.952729**	**19.42713**	**.8115328**	**1.962817**
Stddev	.017753	.0003871	.001409	.07504	.0003949	.000917
%RSD	.2304874	.1952037	.0721363	.3862544	.0486594	.0467048
#1	7.722992	.1978869	1.952495	19.48766	.8118204	1.963850
#2	7.690799	.1986464	1.954240	19.34317	.8116953	1.962501
#3	7.693923	.1983969	1.951452	19.45055	.8110825	1.962100

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.012453**	**3.912338**	**1.921927**	**19.46911**	**1.965889**	**.9856361**
Stddev	.001261	.002069	.006290	.07794	.001104	.0013845
%RSD	.1245402	.0528748	.3272622	.4003079	.0561444	.1404647
#1	1.012859	3.914223	1.927268	19.44407	1.964655	.9849200
#2	1.011039	3.910125	1.914994	19.40678	1.966783	.9847564
#3	1.013461	3.912668	1.923518	19.55649	1.966228	.9872320

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.64352**	**1.945296**	**1.979441**	**19.09814**	**3.855170**	**4.013535**
Stddev	.09440	.009262	.002814	.05092	.000592	.002614
%RSD	.5063254	.4761228	.1421364	.2665983	.0153513	.0651355
#1	18.75102	1.948206	1.978580	19.14952	3.854640	4.014360
#2	18.57418	1.934928	1.982585	19.09719	3.855060	4.015638
#3	18.60536	1.952753	1.977159	19.04771	3.855809	4.010608

Sample Name: ICV01 Acquired: 10/24/2025 14:33:21 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.922953	3.857162	3.676229	F .0071298	F .0290161	F -.002264
Stddev	.009169	.011704	.011102	.0001877	.0029254	.001362
%RSD	.2337282	.3034411	.3019838	2.632663	10.08205	60.16693
#1	3.918080	3.867409	3.683940	.0071621	.0261337	-.003290
#2	3.933529	3.844407	3.663505	.0069281	.0319827	-.002783
#3	3.917249	3.859671	3.681242	.0072993	.0289320	-.000719

Elem	Sr4077
Units	ppm
Avg	F -.003075
Stddev	.000054
%RSD	1.759297
#1	-.003013
#2	-.003114
#3	-.003098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5534.913	89862.66	7393.435	4167.904	6516.334
Stddev	8.972	15.04	7.200	22.623	8.424
%RSD	.1620999	.0167412	.0973813	.5427825	.1292767
#1	5525.335	89874.19	7398.823	4189.377	6506.974
#2	5543.121	89845.64	7396.224	4144.285	6518.724
#3	5536.284	89868.14	7385.258	4170.049	6523.306

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LLICV01 Acquired: 10/24/2025 14:38:12 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0230168**	**.0458710**	**.0128885**	**.0208044**	**.0526278**	**.1084305**	**.1002582**
Stddev	.0007296	.0047728	.0006909	.0014244	.0005584	.0051273	.0011701
%RSD	3.170052	10.40488	5.360935	6.846369	1.061019	4.728674	1.167045
#1	.0226950	.0419721	.0134452	.0221059	.0531028	.1132212	.0996451
#2	.0225034	.0444473	.0121152	.0192828	.0527678	.1090479	.0995222
#3	.0238521	.0511937	.0131051	.0210244	.0520127	.1030224	.1016075

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063973**	**.0060545**	**2.103756**	**.0104385**	**.0304928**	**.0228792**	**.1037907**
Stddev	.0000734	.0001474	.009377	.0002648	.0000944	.0002551	.0069870
%RSD	1.146939	2.435058	.4457264	2.536753	.3096614	1.115090	6.731806
#1	.0064801	.0060662	2.114080	.0107057	.0305047	.0228149	.0981017
#2	.0063717	.0059015	2.095766	.0104336	.0305807	.0226624	.1115894
#3	.0063402	.0061957	2.101423	.0101761	.0303930	.0231604	.1016809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0219910**	**2.174898**	**.0407468**	**.0111786**	**1.897983**	**.0406001**	**.0439213**
Stddev	.0004552	.043402	.0002080	.0003432	.032906	.0020577	.0000561
%RSD	2.069965	1.995609	.5103670	3.069905	1.733725	5.068243	.1277586
#1	.0221440	2.125044	.0406696	.0109203	1.864870	.0420259	.0438828
#2	.0214790	2.204267	.0405885	.0110474	1.930678	.0415333	.0439857
#3	.0223499	2.195382	.0409823	.0115680	1.898401	.0382412	.0438953

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.012117**	**.1138557**	**.2071809**	**.0397022**	**.0398994**	**.3772939**	**.0192105**
Stddev	.033027	.0007200	.0003198	.0003578	.0005414	.0074121	.0005806
%RSD	1.641415	.6323540	.1543563	.9011106	1.356823	1.964545	3.022413
#1	1.975993	.1143741	.2070291	.0393113	.0395026	.3795095	.0194582
#2	2.040766	.1130337	.2075484	.0397819	.0405161	.3833455	.0196262
#3	2.019593	.1141594	.2069654	.0400134	.0396794	.3690266	.0185471

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LLICV01 Acquired: 10/24/2025 14:38:12 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0221505	.0203854	.0215004
Stddev	.0022177	.0007304	.0002276
%RSD	10.01178	3.582923	1.058451
#1	.0235722	.0198725	.0215229
#2	.0232841	.0200620	.0212623
#3	.0195952	.0212216	.0217158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5507.172	90880.30	7265.641	4222.454	6942.727
Stddev	6.517	392.62	22.902	18.538	14.330
%RSD	.1183369	.4320157	.3152030	.4390416	.2063967
#1	5511.907	91053.97	7240.133	4224.498	6952.862
#2	5499.739	90430.79	7284.436	4202.978	6926.332
#3	5509.869	91156.12	7272.353	4239.885	6948.986

Sample Name: ICB01 Acquired: 10/24/2025 14:43:40 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0005225**	**-.003204**	**.0002466**	**-.000715**	**-.001053**	**.0101780**	**-.002863**
Stddev	.0011738	.000630	.0006352	.002236	.002184	.0103907	.000780
%RSD	224.6391	19.64643	257.5715	312.6031	207.3710	102.0896	27.24183
#1	.0017616	-.003744	.0002255	.001864	-.003429	.0048647	-.003344
#2	.0003788	-.002513	.0008920	-.002107	.000866	.0035183	-.003281
#3	-.000573	-.003357	-.000378	-.001902	-.000596	.0221509	-.001963

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000163**	**.0000375**	**-.003347**	**.0002131**	**-.000092**	**.0003341**	**.0034940**
Stddev	.000046	.0000579	.002865	.0002462	.000157	.0002433	.0040340
%RSD	28.42265	154.2898	85.59781	115.5647	169.8853	72.81843	115.4537
#1	-.000110	.0000476	-.006503	-.000069	.000046	.0002628	-.001153
#2	-.000194	.0000897	-.000910	.000386	-.000061	.0001344	.005546
#3	-.000186	-.000025	-.002628	.000322	-.000263	.0006050	.006090

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002037**	**.0070993**	**.0000607**	**.0006944**	**-.433441**	**-.000081**	**.0003571**
Stddev	.0003484	.0229095	.0003001	.0001548	.011972	.003211	.0003106
%RSD	171.0146	322.6994	494.2694	22.29169	2.762123	3948.961	86.96246
#1	.0005123	-.014899	-.000192	.0007334	-.445158	.003118	.0006259
#2	-.000174	.005374	.000392	.0008259	-.421229	-.003304	.0004284
#3	.000273	.030823	-.000019	.0005238	-.433937	-.000058	.0000171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.120180**	**.0040337**	**.0002623**	**-.013337**	**-.000677**	**-.001790**	**.0004393**
Stddev	.038640	.0004331	.0000755	.000206	.000603	.006168	.0005228
%RSD	32.15143	10.73782	28.76233	1.542992	89.09059	344.5625	118.9880
#1	-.107566	.0045191	.0003325	-.013366	-.000652	-.006547	.0000490
#2	-.163550	.0038956	.0002720	-.013527	-.000086	.005178	.0010333
#3	-.089424	.0036865	.0001825	-.013119	-.001292	-.004001	.0002358

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICB01 Acquired: 10/24/2025 14:43:40 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0074630	-.006422	.0000231
Stddev	.0014755	.000465	.0000954
%RSD	19.77066	7.234619	413.5049
#1	.0091643	-.006538	.0001061
#2	.0065349	-.006818	.0000442
#3	.0066897	-.005911	-.000081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5757.502	96256.73	7317.398	4489.925	7459.945
Stddev	2.763	282.27	12.723	19.364	2.118
%RSD	.0479918	.2932452	.1738751	.4312858	.0283899
#1	5760.531	96262.05	7325.039	4512.148	7462.125
#2	5756.855	95971.84	7302.710	4480.960	7459.816
#3	5755.120	96536.30	7324.443	4476.668	7457.895

Sample Name: CRI01 Acquired: 10/24/2025 14:48:00 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227144**	**.0462293**	**.0121151**	**.0213113**	**.0541965**	**.0973350**	**.1014896**
Stddev	.0007710	.0010342	.0007200	.0015837	.0007509	.0063655	.0003266
%RSD	3.394487	2.236992	5.943108	7.431169	1.385577	6.539819	.3218075
#1	.0218699	.0463701	.0127939	.0221456	.0546571	.0915435	.1018537
#2	.0228924	.0471858	.0113600	.0194849	.0546024	.0963111	.1012224
#3	.0233809	.0451319	.0121915	.0223035	.0533300	.1041505	.1013928

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065705**	**.0059319**	**2.125558**	**.0106194**	**.0305693**	**.0232312**	**.1116665**
Stddev	.0000671	.0000645	.025863	.0001799	.0000739	.0004913	.0056095
%RSD	1.020544	1.088097	1.216750	1.693579	.2418731	2.115005	5.023468
#1	.0065709	.0059901	2.139922	.0108115	.0305537	.0237276	.1179035
#2	.0066373	.0059431	2.141051	.0104549	.0305044	.0227450	.1070343
#3	.0065032	.0058625	2.095702	.0105918	.0306498	.0232210	.1100617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0223423**	**2.131416**	**.0407587**	**.0114004**	**1.937661**	**.0413538**	**.0445026**
Stddev	.0003001	.027170	.0002675	.0003512	.012250	.0019377	.0003371
%RSD	1.343296	1.274759	.6562893	3.080477	.6322275	4.685604	.7574009
#1	.0223026	2.138654	.0406809	.0115787	1.926409	.0412269	.0447187
#2	.0220639	2.154235	.0405388	.0116267	1.935863	.0433517	.0441142
#3	.0226602	2.101360	.0410565	.0109958	1.950711	.0394826	.0446748

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.024896**	**.1108460**	**.2067866**	**.0392653**	**.0406808**	**.3716379**	**.0194841**
Stddev	.025689	.0005107	.0005717	.0003665	.0027079	.0116959	.0010433
%RSD	1.268648	.4607157	.2764643	.9334485	6.656357	3.147118	5.354800
#1	1.995876	.1104136	.2069303	.0393236	.0416305	.3595984	.0206881
#2	2.034085	.1114094	.2061568	.0388732	.0427858	.3723584	.0188449
#3	2.044726	.1107149	.2072728	.0395993	.0376259	.3829569	.0189193

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CRI01 Acquired: 10/24/2025 14:48:00 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0247494	.0213720	.0212631
Stddev	.0013213	.0005759	.0001856
%RSD	5.338732	2.694857	.8728541
#1	.0257415	.0207284	.0211904
#2	.0252572	.0215486	.0214740
#3	.0232495	.0218389	.0211248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5367.911	89942.83	7200.092	4143.453	6823.767
Stddev	5.156	234.36	29.162	14.828	7.498
%RSD	.0960518	.2605673	.4050264	.3578732	.1098805
#1	5363.104	89759.35	7218.889	4130.898	6817.652
#2	5373.357	90206.84	7166.498	4159.813	6821.516
#3	5367.273	89862.29	7214.889	4139.649	6832.132

Sample Name: ICSA01 Acquired: 10/24/2025 14:52:18 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0084422**	**.0152877**	**.0031965**	**.0072332**	**-.003328**	**249.9961**	**-.000701**
Stddev	.0020177	.0041524	.0015847	.0036175	.003617	.3663	.000719
%RSD	23.90038	27.16145	49.57665	50.01172	108.6969	.1465096	102.6740
#1	.0073333	.0152253	.0018419	.0114012	-.001153	250.1627	-.001529
#2	.0072221	.0111670	.0049393	.0049112	-.001327	250.2494	-.000336
#3	.0107711	.0194710	.0028084	.0053872	-.007503	249.5761	-.000236

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015984**	**.0022829**	**237.0336**	**.0500113**	**.0020420**	**.0098105**	**99.15595**
Stddev	.0000427	.0001465	.3023	.0002720	.0003308	.0015423	1.45278
%RSD	2.672720	6.418429	.1275149	.5438831	16.20018	15.72063	1.465145
#1	.0016270	.0023699	237.0346	.0497705	.0022927	.0100430	98.56035
#2	.0016190	.0021138	237.3354	.0503064	.0016670	.0081652	100.8119
#3	.0015493	.0023651	236.7309	.0499572	.0021662	.0112233	98.0956

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078694**	**251.2314**	**.0043536**	**.0021130**	**.1178018**	**.0032856**	**.0047838**
Stddev	.0007552	.3514	.0001711	.0005198	.0092385	.0018261	.0005604
%RSD	9.596383	.1398594	3.930399	24.60172	7.842416	55.57827	11.71488
#1	.0072417	251.6305	.0041591	.0015490	.1071363	.0013861	.0054233
#2	.0087074	251.0949	.0044209	.0025729	.1229441	.0050281	.0043782
#3	.0076590	250.9688	.0044808	.0022172	.1233249	.0034424	.0045500

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1109515**	**.0152533**	**.0007827**	**.0059793**	**-.004261**	**.0158876**	**.0035249**
Stddev	.0606753	.0068499	.0004466	.0006195	.001277	.0136744	.0013520
%RSD	54.68636	44.90733	57.05543	10.36137	29.96615	86.06986	38.35463
#1	.0535669	.0123103	.0012971	.0066755	-.003543	.0041793	.0024762
#2	.1744540	.0230829	.0005576	.0054887	-.003505	.0125669	.0050507
#3	.1048337	.0103668	.0004935	.0057735	-.005735	.0309165	.0030478

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSA01 Acquired: 10/24/2025 14:52:18 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0072068	F -.027863	.0032117
Stddev	.0043567	.000730	.0011160
%RSD	60.45185	2.619445	34.74852
#1	.0119772	-.028618	.0036761
#2	.0034384	-.027161	.0019384
#3	.0062049	-.027811	.0040205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5107.228	82024.30	7156.944	3835.885	5578.651
Stddev	7.068	311.48	49.885	8.797	11.972
%RSD	.1383837	.3797402	.6970121	.2293231	.2145968
#1	5105.274	82155.06	7130.688	3844.810	5577.756
#2	5101.343	81668.76	7214.473	3827.223	5567.151
#3	5115.067	82249.09	7125.670	3835.622	5591.044

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSAB01 Acquired: 10/24/2025 14:56:31 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.1103160**	**.1285914**	**.0516550**	**.0540033**	**.6101858**	**256.9169**
Stddev	.0002570	.0054818	.0024701	.0072307	.0027279	1.0381
%RSD	.2330037	4.262980	4.781957	13.38928	.4470549	.4040625
#1	.1105404	.1223212	.0500282	.0616158	.6122301	256.5158
#2	.1103721	.1324773	.0544973	.0472272	.6070883	258.0958
#3	.1100355	.1309758	.0504394	.0531669	.6112389	256.1393

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5064363**	**.5252553**	**1.027757**	**242.8299**	**.5659798**	**.5168173**
Stddev	.0036285	.0070164	.001559	1.2077	.0020674	.0001302
%RSD	.7164742	1.335816	.1517363	.4973279	.3652831	.0252006
#1	.5040869	.5216053	1.026383	242.3637	.5673940	.5167015
#2	.5106153	.5333444	1.029452	244.2012	.5669384	.5167920
#3	.5046066	.5208162	1.027435	241.9248	.5636071	.5169583

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4987869**	**100.7446**	**.5073479**	**257.6382**	**1.026031**	**.2127207**
Stddev	.0011692	.5762	.0022013	1.5727	.000552	.0009475
%RSD	.2344130	.5719686	.4338875	.6104120	.0537610	.4454249
#1	.4993634	100.9160	.5056830	256.8948	1.025402	.2116784
#2	.4995559	100.1021	.5098438	259.4447	1.026262	.2135299
#3	.4974413	101.2157	.5065170	256.5750	1.026431	.2129537

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0893248**	**.4994049**	**1.054608**	**.0461103**	**.9643674**	**.9951021**
Stddev	.0289962	.0050418	.004680	.0127049	.0097697	.0029586
%RSD	32.46153	1.009559	.4437206	27.55320	1.013068	.2973197
#1	.0741623	.4952645	1.059950	.0355416	.9611567	.9920423
#2	.0710535	.5050195	1.052640	.0602060	.9753384	.9979480
#3	.1227586	.4979308	1.051234	.0425833	.9566071	.9953159

Sample Name: ICSAB01 Acquired: 10/24/2025 14:56:31 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.014136	.9839186	1.014443	F .0087032	F .0072220	F -.028888
Stddev	.003673	.0057467	.022553	.0006489	.0019394	.001264
%RSD	.3621881	.5840634	2.223170	7.456311	26.85388	4.376907
#1	1.010321	.9832166	1.037805	.0094524	.0093332	-.030295
#2	1.017648	.9899841	.992798	.0083176	.0068134	-.028522
#3	1.014438	.9785552	1.012726	.0083395	.0055195	-.027847

Elem	Sr4077
Units	ppm
Avg	F .0045453
Stddev	.0008502
%RSD	18.70389
#1	.0043529
#2	.0054752
#3	.0038079

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5080.918	81867.33	7069.408	3845.130	5530.127
Stddev	4.000	96.85	82.634	23.434	4.132
%RSD	.0787316	.1183005	1.168899	.6094415	.0747107
#1	5078.128	81756.27	7110.026	3818.085	5534.773
#2	5079.124	81911.49	6974.325	3859.407	5526.864
#3	5085.501	81934.23	7123.872	3857.898	5528.744

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSA01DLX20 Acquired: 10/24/2025 15:01:33 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0036116**	**.0005457**	**.0011018**	**-.000728**	**.0013259**	**12.18624**	**-.003549**
Stddev	.0027236	.0013491	.0003267	.001178	.0002866	.02043	.001234
%RSD	75.41235	247.2432	29.65282	161.7603	21.61332	.1676580	34.76695
#1	.0049985	-.000002	.0009478	.000565	.0014284	12.20502	-.002314
#2	.0004737	-.000444	.0014771	-.001740	.0010022	12.18922	-.004782
#3	.0053625	.002082	.0008806	-.001009	.0015471	12.16448	-.003550

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000681**	**.0000685**	**12.17480**	**.0022942**	**.0001468**	**.0007715**	**4.873201**
Stddev	.0000764	.0000280	.06553	.0003031	.0001529	.0001789	.049445
%RSD	112.2341	40.91692	.5382640	13.21001	104.1881	23.18725	1.014637
#1	.0001563	.0000463	12.21870	.0026400	.0002630	.0008539	4.827107
#2	.0000218	.0001000	12.20624	.0021673	.0002038	.0008943	4.925426
#3	.0000261	.0000592	12.09947	.0020752	-.000026	.0005662	4.867069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007497**	**12.49671**	**.0000490**	**.0007342**	**-.097477**	**-.000053**	**.0003496**
Stddev	.0005115	.04241	.0001221	.0002806	.026652	.002819	.0000386
%RSD	68.23697	.3393554	249.4505	38.22112	27.34179	5271.197	11.03566
#1	.0013383	12.52708	.0001335	.0006505	-.114564	-.002972	.0003938
#2	.0004972	12.51480	.0001044	.0005049	-.066767	.002655	.0003324
#3	.0004134	12.44826	-.000091	.0010471	-.111100	.000156	.0003226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.059978**	**.0023429**	**-.000082**	**.0082491**	**.0003827**	**-.013025**	**-.001439**
Stddev	.009316	.0004508	.000081	.0008567	.0011727	.012943	.000474
%RSD	15.53271	19.24335	98.69405	10.38481	306.4663	99.37444	32.90188
#1	-.063922	.0027653	-.000065	.0072974	.0008148	-.000977	-.001015
#2	-.049338	.0023951	-.000169	.0089586	.0012780	-.011389	-.001951
#3	-.066672	.0018682	-.000011	.0084913	-.000945	-.026709	-.001352

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSA01DLX20 Acquired: 10/24/2025 15:01:33 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0050642	-.002498	.0004494
Stddev	.0009966	.000494	.0000935
%RSD	19.67979	19.78045	20.81591
#1	.0045778	-.002366	.0004203
#2	.0044041	-.002083	.0005540
#3	.0062106	-.003044	.0003738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5455.096	89536.79	7226.108	4237.384	6677.525
Stddev	12.507	40.61	35.039	13.549	21.453
%RSD	.2292750	.0453565	.4848957	.3197514	.3212708
#1	5469.492	89583.41	7192.211	4248.066	6700.516
#2	5446.896	89517.87	7223.926	4222.144	6658.042
#3	5448.900	89509.10	7262.187	4241.944	6674.015

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSAB01DLX20 Acquired: 10/24/2025 15:07:53 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0093749**	**.0088558**	**.0028420**	**.0014569**	**.0288357**	**12.50927**	**.0212085**
Stddev	.0014250	.0010327	.0002187	.0022287	.0011029	.02668	.0012994
%RSD	15.20043	11.66117	7.696321	152.9766	3.824864	.2132426	6.126759
#1	.0078891	.0080542	.0027998	.0011945	.0287715	12.48065	.0203725
#2	.0107302	.0100211	.0030787	.0038052	.0299693	12.53344	.0205476
#3	.0095054	.0084920	.0026474	-.000629	.0277663	12.51371	.0227056

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0263637**	**.0488434**	**12.45536**	**.0283595**	**.0248110**	**.0271495**	**4.976195**
Stddev	.0003443	.0000151	.03181	.0002521	.0000585	.0002217	.081988
%RSD	1.305858	.0309820	.2554126	.8891304	.2358852	.8165108	1.647598
#1	.0261211	.0488345	12.42088	.0280816	.0248546	.0273559	5.031086
#2	.0262123	.0488608	12.46161	.0285736	.0247445	.0269152	5.015550
#3	.0267578	.0488348	12.48358	.0284234	.0248338	.0271774	4.881950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0263837**	**12.86582**	**.0494602**	**.0107287**	**-.112254**	**.0257116**	**.0523342**
Stddev	.0004834	.09287	.0003569	.0003339	.008986	.0019392	.0003390
%RSD	1.832209	.7218331	.7216100	3.111828	8.005477	7.541955	.6477922
#1	.0260425	12.79108	.0490644	.0106233	-.122262	.0260953	.0521543
#2	.0261718	12.83659	.0497575	.0104603	-.104877	.0236093	.0521232
#3	.0269369	12.96979	.0495588	.0111026	-.109621	.0274302	.0527253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109347**	**.0501676**	**.0521557**	**.0568901**	**.0507771**	**.0453219**	**-.000701**
Stddev	.0260305	.0007177	.0001432	.0002582	.0010485	.0065968	.001670
%RSD	238.0550	1.430587	.2746287	.4538520	2.064978	14.55548	238.2701
#1	-.018128	.0499800	.0520917	.0568517	.0508528	.0518040	.001223
#2	.018824	.0495624	.0523197	.0566533	.0517857	.0386160	-.001779
#3	.032108	.0509605	.0520556	.0571654	.0496928	.0455458	-.001546

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: ICSAB01DLX20 Acquired: 10/24/2025 15:07:53 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0046021	-.004976	.0003131
Stddev	.0021870	.002221	.0000981
%RSD	47.52159	44.62635	31.33917
#1	.0021735	-.006028	.0003442
#2	.0064160	-.002425	.0002032
#3	.0052168	-.006475	.0003920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5489.305	89887.71	7209.106	4233.766	6727.542
Stddev	3.765	87.97	53.075	16.864	11.860
%RSD	.0685959	.0978720	.7362154	.3983211	.1762957
#1	5485.043	89932.08	7238.459	4244.387	6715.422
#2	5492.180	89786.38	7241.020	4242.591	6728.078
#3	5490.691	89944.66	7147.838	4214.321	6739.125

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV01 Acquired: 10/24/2025 15:12:04 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.126538**	**5.219710**	**5.060322**	**5.143939**	**5.105430**	**10.14501**	**9.805675**
Stddev	.016967	.292566	.009568	.024536	.009364	.01499	.055639
%RSD	.3309600	5.605018	.1890719	.4769882	.1834210	.1477722	.5674186
#1	5.107079	4.894404	5.052951	5.116752	5.105505	10.16129	9.772325
#2	5.138238	5.303453	5.056882	5.150627	5.096029	10.13177	9.869906
#3	5.134297	5.461273	5.071134	5.164437	5.114757	10.14198	9.774794

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2533747**	**2.545050**	**25.06948**	**1.025928**	**2.532754**	**1.280827**	**5.072505**
Stddev	.0008594	.006399	.04385	.000463	.004331	.001647	.033594
%RSD	.3391700	.2514180	.1749261	.0451284	.1710134	.1286159	.6622670
#1	.2542274	2.539376	25.08829	1.026451	2.529945	1.280831	5.085662
#2	.2533881	2.543787	25.01936	1.025572	2.530575	1.279177	5.097529
#3	.2525088	2.551985	25.10079	1.025760	2.537742	1.282472	5.034325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.475556**	**25.06573**	**2.536820**	**1.271186**	**24.30114**	**2.497645**	**2.584606**
Stddev	.009890	.06594	.004375	.002684	.06647	.012069	.002137
%RSD	.3995139	.2630593	.1724613	.2111395	.2735226	.4832112	.0826908
#1	2.486356	25.10811	2.533369	1.269302	24.28214	2.510231	2.587054
#2	2.466941	25.09932	2.535349	1.274259	24.24625	2.486169	2.583652
#3	2.473372	24.98976	2.541740	1.269996	24.37505	2.496536	2.583111

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.90974**	**5.037678**	**5.119442**	**5.095399**	**4.969143**	**5.040832**	**5.091665**
Stddev	.06171	.015025	.013972	.017711	.012482	.002956	.046981
%RSD	.2477368	.2982468	.2729222	.3475802	.2511997	.0586421	.9226952
#1	24.85404	5.044115	5.104915	5.075041	4.983497	5.038335	5.037543
#2	24.89910	5.048412	5.120627	5.103896	4.960839	5.040067	5.115519
#3	24.97608	5.020507	5.132784	5.107260	4.963092	5.044096	5.121932

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV01 Acquired: 10/24/2025 15:12:04 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.058024**	**4.829790**	**4.997226**
Stddev	.055776	.003481	.010080
%RSD	1.102717	.0720729	.2017075
#1	4.994416	4.830656	4.999941
#2	5.081088	4.825958	5.005671
#3	5.098569	4.832757	4.986067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5353.791**	**87700.59**	**7298.298**	**4053.702**	**6182.728**
Stddev	14.526	100.11	32.600	23.009	12.420
%RSD	.2713276	.1141469	.4466831	.5676067	.2008814
#1	5337.780	87664.33	7269.478	4027.529	6168.409
#2	5366.128	87623.66	7291.736	4070.744	6190.583
#3	5357.464	87813.77	7333.681	4062.833	6189.192

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB01 Acquired: 10/24/2025 15:16:15 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0006303**	**.0026764**	**.0013323**	**-.001569**	**-.000915**	**.0162529**	**-.003382**
Stddev	.0010504	.0012776	.0003480	.001376	.000600	.0065148	.001272
%RSD	166.6397	47.73702	26.11827	87.67547	65.53607	40.08385	37.60709
#1	-.000049	.0019905	.0015839	-.000909	-.001555	.0236146	-.002604
#2	.001840	.0041505	.0014778	-.000647	-.000826	.0112317	-.004850
#3	.000100	.0018882	.0009352	-.003150	-.000365	.0139125	-.002693

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000030**	**.0000425**	**.0199988**	**-.000024**	**.0001544**	**.0002883**	**.0033002**
Stddev	.000056	.0000129	.0136779	.000045	.0000253	.0001630	.0093913
%RSD	188.3633	30.25515	68.39346	186.3056	16.39736	56.54208	284.5694
#1	-.000070	.0000492	.0099295	-.000002	.0001327	.0003817	-.002001
#2	-.000053	.0000506	.0355710	-.000076	.0001483	.0003831	.014143
#3	.000034	.0000277	.0144958	.000005	.0001822	.0001001	-.002242

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001959**	**-.013485**	**-.000202**	**.0006834**	**-.146623**	**.0013919**	**.0006187**
Stddev	.0003203	.018848	.000351	.0003205	.005702	.0005261	.0001196
%RSD	163.5178	139.7669	174.0016	46.89731	3.888859	37.79610	19.33903
#1	.0004656	-.033308	-.000129	.0004899	-.148209	.0007955	.0007383
#2	-.000158	-.011355	-.000583	.0005070	-.140295	.0017901	.0006186
#3	.000280	.004207	.000107	.0010534	-.151363	.0015901	.0004991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.034013**	**.0062345**	**.0004763**	**.0022827**	**.0005563**	**.0061448**	**.0002546**
Stddev	.029278	.0007310	.0002525	.0003719	.0003328	.0095642	.0008411
%RSD	86.07887	11.72430	53.00895	16.29322	59.82424	155.6488	330.3734
#1	-.042294	.0059358	.0005015	.0024086	.0009080	.0114928	-.000081
#2	-.058259	.0070676	.0002122	.0025753	.0002464	.0118388	-.000367
#3	-.001487	.0057003	.0007152	.0018641	.0005145	-.004897	.001212

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB01 Acquired: 10/24/2025 15:16:15 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.001026	-.002723	.0002509
Stddev	.002333	.001347	.0000431
%RSD	227.3400	49.46889	17.16705
#1	-.003653	-.004129	.0002848
#2	.000805	-.001444	.0002024
#3	-.000230	-.002595	.0002656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5440.790	90655.60	7234.082	4200.402	7030.418
Stddev	15.073	438.68	26.466	28.045	28.396
%RSD	.2770448	.4838990	.3658449	.6676716	.4039056
#1	5438.066	91110.86	7232.950	4204.653	7022.957
#2	5427.265	90620.31	7261.096	4226.079	7006.498
#3	5457.040	90235.63	7208.201	4170.475	7061.800

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: PB170225BL Acquired: 10/24/2025 15:20:34 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0008791**	**.0000467**	**.0003020**	**.0006051**	**-.000033**	**-.004318**	**-.000796**
Stddev	.0015065	.0019820	.0004373	.0010410	.001252	.006745	.002569
%RSD	171.3553	4241.082	144.7705	172.0292	3785.348	156.2199	322.7385
#1	.0022797	.0012813	.0000366	.0008145	-.000909	-.000437	-.003459
#2	.0010723	-.002239	.0000628	-.000525	.001401	-.000410	-.000597
#3	-.000715	.001098	.0008067	.001526	-.000592	-.012107	.001667

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000050**	**.0000145**	**.0063186**	**-.000182**	**.0000315**	**.0002249**	**-.001120**
Stddev	.000038	.0000324	.0050284	.000097	.0000183	.0001263	.004682
%RSD	75.14884	223.6922	79.58114	53.28451	58.25044	56.16340	418.2322
#1	-.000093	.0000286	.0097235	-.000115	.0000475	.0001806	.004076
#2	-.000021	.0000374	.0005431	-.000293	.0000115	.0003675	-.002421
#3	-.000037	-.000023	.0086891	-.000138	.0000355	.0001268	-.005013

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001964**	**-.027636**	**-.000058**	**.0006195**	**-.145862**	**-.001755**	**.0005706**
Stddev	.0003351	.017473	.000081	.0005131	.020909	.002254	.0000825
%RSD	170.5959	63.22522	140.0235	82.81983	14.33466	128.4519	14.46605
#1	.0005499	-.008297	-.000129	.0001884	-.122215	-.003344	.0006617
#2	-.000117	-.032327	.000030	.0011871	-.153468	-.002746	.0005009
#3	.000156	-.042286	-.000073	.0004832	-.161904	.000825	.0005491

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.082120**	**.0019035**	**.0001913**	**.0004773**	**-.000077**	**-.004521**	**.0002781**
Stddev	.030582	.0007119	.0002546	.0004125	.000569	.012775	.0004332
%RSD	37.24050	37.39974	133.0832	86.42829	734.3390	282.5992	155.7838
#1	-.046813	.0010913	.0004525	.0000021	.000505	-.012421	.0007453
#2	-.100322	.0024194	.0001777	.0007434	-.000105	.010218	-.000110
#3	-.099225	.0021999	-.000056	.0006865	-.000632	-.011359	.000199

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: PB170225BL Acquired: 10/24/2025 15:20:34 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.002050	-.001813	.0000443
Stddev	.001197	.000506	.0001124
%RSD	58.40951	27.90403	253.6276
#1	-.002822	-.001229	-.000027
#2	-.002656	-.002125	.000174
#3	-.000671	-.002084	-.000014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5456.027	90681.48	7087.459	4262.913	7012.222
Stddev	2.441	46.11	27.528	13.501	2.236
%RSD	.0447408	.0508433	.3884051	.3167171	.0318923
#1	5458.241	90661.10	7118.249	4250.023	7011.921
#2	5453.409	90734.26	7078.903	4276.952	7010.151
#3	5456.430	90649.07	7065.225	4261.764	7014.593

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: PB170225BS Acquired: 10/24/2025 15:24:53 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.7869132**	**1.961928**	**.9620576**	**1.993697**	**.8226908**	**1.999504**	**.2033171**
Stddev	.0035227	.069225	.0047146	.006161	.0037990	.005752	.0015007
%RSD	.4476617	3.528421	.4900520	.3090461	.4617826	.2876530	.7380847
#1	.7835828	1.925940	.9566138	1.986901	.8227451	2.003239	.2021759
#2	.7906010	2.041734	.9648020	1.998919	.8188649	1.992881	.2050170
#3	.7865557	1.918109	.9647571	1.995271	.8264624	2.002393	.2027585

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2057894**	**.1918200**	**1.033285**	**.4033428**	**.1972125**	**.3170857**	**3.037094**
Stddev	.0012295	.0003139	.010294	.0016360	.0003888	.0005405	.025505
%RSD	.5974739	.1636481	.9962834	.4056061	.1971377	.1704532	.8397805
#1	.2048877	.1916288	1.024206	.4052210	.1969777	.3165213	3.056984
#2	.2052905	.1921823	1.031181	.4022287	.1976613	.3171372	3.045957
#3	.2071900	.1916489	1.044469	.4025787	.1969985	.3175985	3.008340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2101410**	**2.022804**	**.4955252**	**.0768999**	**2.785781**	**.3035373**	**.2076388**
Stddev	.0005191	.026131	.0007517	.0004124	.032714	.0021144	.0008554
%RSD	.2470152	1.291818	.1516956	.5362272	1.174320	.6965812	.4119544
#1	.2095706	2.029251	.4948332	.0771366	2.774819	.3028940	.2073484
#2	.2102665	2.045107	.4963249	.0771394	2.822568	.3018192	.2069664
#3	.2105858	1.994053	.4954173	.0764238	2.759956	.3058986	.2086015

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.709140**	**.3049189**	**.4123853**	**.6806292**	**.2017141**	**.8710858**	**5.621405**
Stddev	.124988	.0015780	.0011243	.0017861	.0010307	.0087055	.020395
%RSD	1.287322	.5175238	.2726405	.2624129	.5109674	.9993813	.3628012
#1	9.837261	.3034270	.4111426	.6787732	.2011422	.8790949	5.627453
#2	9.702618	.3047588	.4133320	.6823359	.2010962	.8723421	5.638091
#3	9.587540	.3065708	.4126814	.6807784	.2029040	.8618204	5.598671

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: PB170225BS Acquired: 10/24/2025 15:24:53 Type: Unk
Method: 6010-200.7 NEW(v308) 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 -.004225	.2033037	.2012867
Stddev	.000476	.0017942	.0002785
%RSD	11.27515	.8825367	.1383364
#1	-.003921	.2029328	.2009830
#2	-.003980	.2017239	.2013473
#3	-.004774	.2052544	.2015300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5485.230	91121.59	7185.384	4336.675	6773.543
Stddev	6.192	426.99	36.594	13.932	5.928
%RSD	.1128909	.4685892	.5092864	.3212513	.0875108
#1	5480.073	90631.63	7207.804	4322.573	6769.975
#2	5492.098	91318.92	7205.192	4350.430	6770.269
#3	5483.520	91414.22	7143.155	4337.021	6780.386

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LR-2 Acquired: 10/24/2025 15:33:22 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.1219988**	**-.067989**	**.1157756**	**.0153529**	**-.136715**	**1932.128**	**.0227106**
Stddev	.0076860	.004170	.0066818	.0045857	.002787	35.553	.0015712
%RSD	6.300034	6.133351	5.771323	29.86873	2.038851	1.840089	6.918361
#1	.1308204	-.072609	.1089547	.0204867	-.137463	1898.445	.0210849
#2	.1167468	-.064505	.1160633	.0139091	-.139053	1928.644	.0228258
#3	.1184291	-.066853	.1223090	.0116628	-.133630	1969.294	.0242210

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0422068**	**.0277407**	**10.93894**	**-.255040**	**.0654177**	**.1756525**	**2661.815**
Stddev	.0005231	.0007932	.21610	.000677	.0000789	.0037947	5.593
%RSD	1.239448	2.859478	1.975502	.2654775	.1205297	2.160363	.2101100
#1	.0418176	.0286411	10.81342	-.254581	.0653869	.1758618	2657.797
#2	.0420013	.0271448	10.81494	-.255817	.0655073	.1717575	2668.203
#3	.0428015	.0274362	11.18847	-.254721	.0653589	.1793383	2659.446

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.202580**	**1.092358**	**.0474187**	**^ *****	**3.814174**	**.0503225**	**.0722893**
Stddev	.000869	.006920	.0014959	-----	.075790	.0017217	.0020450
%RSD	.4291944	.6334508	3.154589	-----	1.987072	3.421360	2.828914
#1	-.202545	1.090572	.0462370	^ -----	3.796910	.0490210	.0738969
#2	-.203467	1.099995	.0469185	^ -----	3.897106	.0522748	.0729834
#3	-.201729	1.086506	.0491006	^ -----	3.748504	.0496718	.0699875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1902.213**	**^ *****	**-.015275**	**.0230955**	**.0044883**	**.4879168**	**.0852635**
Stddev	4.153	-----	.001127	.0004712	.0009943	.0032797	.0064231
%RSD	.2183004	-----	7.376296	2.040219	22.15222	.6721927	7.533282
#1	1897.511	^ -----	-.014351	.0236228	.0055723	.4849823	.0793274
#2	1903.750	^ -----	-.014945	.0227157	.0042738	.4914573	.0920824
#3	1905.378	^ -----	-.016530	.0229480	.0036188	.4873108	.0843808

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LR-2 Acquired: 10/24/2025 15:33:22 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.465130	.2676922	-2.55159
Stddev	.003356	.0024612	.00537
%RSD	.7215499	.9194341	.2105519
#1	-.466589	.2662781	-2.54782
#2	-.467511	.2705341	-2.55774
#3	-.461292	.2662642	-2.54922

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4642.282	71757.38	6777.908	3450.909	4753.675
Stddev	3.565	32.60	56.278	19.073	9.331
%RSD	.0768048	.0454372	.8303220	.5526839	.1962811
#1	4638.657	71781.20	6809.229	3469.757	4755.185
#2	4642.405	71770.72	6811.559	3431.620	4743.681
#3	4645.785	71720.22	6712.938	3451.349	4762.158

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LR-3 Acquired: 10/24/2025 15:37:51 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.1009421**	**.0287872**	**233.0419**	**.0036065**	**.1287433**	**.0836622**	**.0015717**
Stddev	.0002788	.0033135	.6443	.0010547	.0041011	.0019525	.0012732
%RSD	.2761658	11.51022	.2764645	29.24517	3.185453	2.333836	81.00902
#1	.1012027	.0273690	233.7827	.0043649	.1309114	.0842812	.0013585
#2	.1006482	.0325737	232.7310	.0024020	.1240133	.0814752	.0004185
#3	.1009753	.0264189	232.6120	.0040526	.1313053	.0852302	.0029380

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005489**	**-.001405**	**.2474917**	**24.51025**	**.0066759**	**54.51720**	**.1583551**
Stddev	.000120	.000032	.0080765	.08531	.0001010	.20658	.0042646
%RSD	2.186343	2.284209	3.263355	.3480648	1.513223	.3789264	2.693058
#1	-.005397	-.001405	.2407205	24.48481	.0066378	54.71081	.1614373
#2	-.005446	-.001373	.2453236	24.60538	.0067905	54.29972	.1534880
#3	-.005625	-.001437	.2564310	24.44054	.0065995	54.54105	.1601399

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.64631**	**-.049728**	**23.96344**	**.0047699**	**.6733729**	**-.031196**	**30.10355**
Stddev	1.02971	.018291	.09519	.0004314	.0183232	.003950	.11049
%RSD	1.884323	36.78197	.3972096	9.044751	2.721107	12.66050	.3670228
#1	53.67648	-.061408	24.06683	.0050617	.6807176	-.033731	30.16963
#2	54.53549	-.028648	23.87944	.0042743	.6868842	-.026646	30.16502
#3	55.72695	-.059127	23.94405	.0049737	.6525167	-.033212	29.97600

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5344005**	**.0011894**	**-.015023**	**-.005321**	**-.044733**	**-.109551**	**.1592619**
Stddev	.0653540	.0005839	.000170	.000516	.001879	.004448	.0022750
%RSD	12.22941	49.09668	1.129769	9.705043	4.199967	4.060192	1.428461
#1	.5875455	.0010884	-.015022	-.005578	-.045187	-.114525	.1566487
#2	.5542268	.0006625	-.015193	-.005658	-.046343	-.105954	.1603367
#3	.4614292	.0018172	-.014854	-.004726	-.042669	-.108174	.1608004

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LR-3 Acquired: 10/24/2025 15:37:51 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0636138	.0030895	.0005751
Stddev	.0069047	.0025832	.0000260
%RSD	10.85409	83.61146	4.524537
#1	.0677410	.0060370	.0005600
#2	.0674577	.0020118	.0005601
#3	.0556426	.0012197	.0006051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5112.097	89660.09	7151.830	4015.769	6695.378
Stddev	15.466	402.62	93.785	30.551	15.324
%RSD	.3025337	.4490560	1.311343	.7607819	.2288730
#1	5104.033	89478.31	7260.053	3986.666	6683.085
#2	5129.928	89380.41	7101.110	4013.053	6712.546
#3	5102.329	90121.55	7094.327	4047.588	6690.503

Sample Name: LR-1 Acquired: 10/24/2025 15:42:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0112401**	**.0131373**	**.0256447**	**-.014824**	**.0239525**	**.4707634**	**.0161795**
Stddev	.0041321	.0021770	.0010549	.003309	.0005941	.0088300	.0016157
%RSD	36.76180	16.57144	4.113641	22.32380	2.480483	1.875686	9.985956
#1	.0144733	.0148431	.0265508	-.011384	.0237218	.4692581	.0171347
#2	.0126621	.0106853	.0258967	-.015105	.0235084	.4627827	.0143141
#3	.0065848	.0138835	.0244866	-.017985	.0246274	.4802493	.0170899

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010281**	**.0012374**	**2237.636**	**.0648217**	**.0072506**	**.0121609**	**.9455519**
Stddev	.0000903	.0000345	20.907	.0002947	.0000817	.0006635	.0061645
%RSD	8.781276	2.786825	.9343370	.4545728	1.127287	5.456091	.6519516
#1	.0010626	.0012461	2221.930	.0645349	.0071563	.0128698	.9447804
#2	.0009257	.0012667	2261.367	.0651236	.0072949	.0120580	.9398095
#3	.0010961	.0011994	2229.613	.0648067	.0073007	.0115549	.9520659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0329476**	**2174.363**	**.0489029**	**.0032955**	**2527.614**	**.0119280**	**.0850173**
Stddev	.0005484	7.016	.0002512	.0002134	33.861	.0051501	.0002089
%RSD	1.664557	.3226765	.5135587	6.475283	1.339638	43.17634	.2457266
#1	.0330838	2170.126	.0486840	.0032431	2495.409	.0142305	.0850396
#2	.0334151	2182.462	.0491771	.0031131	2562.918	.0155251	.0852142
#3	.0323439	2170.502	.0488476	.0035302	2524.516	.0060284	.0847982

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.120679**	**.0097970**	**.0135198**	**-.007384**	**-.100075**	**-.010519**	**.0163822**
Stddev	.540368	.0011524	.0002602	.000941	.002806	.024298	.0013654
%RSD	13.11357	11.76305	1.924353	12.74350	2.803901	230.9796	8.334590
#1	3.543269	.0089617	.0134602	-.006788	-.100735	.006937	.0179570
#2	4.204576	.0093175	.0138046	-.006894	-.096998	-.038270	.0156607
#3	4.614192	.0111117	.0132946	-.008468	-.102492	-.000225	.0155289

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: LR-1 Acquired: 10/24/2025 15:42:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.2598571	-.345857	.0587404
Stddev	.0118985	.004275	.0002699
%RSD	4.578862	1.235918	.4595178
#1	.2630341	-.344399	.0589191
#2	.2698446	-.350670	.0584299
#3	.2466926	-.342503	.0588723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3579.338	60454.98	6172.740	2804.747	3780.202
Stddev	19.482	229.38	37.382	10.389	9.427
%RSD	.5442949	.3794309	.6056013	.3704094	.2493881
#1	3600.557	60698.43	6205.373	2815.479	3787.132
#2	3562.258	60242.88	6131.954	2794.739	3769.466
#3	3575.201	60423.62	6180.894	2804.023	3784.007

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3422-02 Acquired: 10/24/2025 15:51:14 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0011368**	**-.002619**	**.0010518**	**.0240300**	**.0024111**	**.0056040**	**-.001118**
Stddev	.0018766	.002195	.0007722	.0034313	.0004408	.0030312	.000337
%RSD	165.0832	83.82730	73.41368	14.27929	18.28362	54.08955	30.14849
#1	.0026045	-.000512	.0014234	.0274848	.0021559	.0063835	-.000965
#2	-.000978	-.002451	.0015679	.0239824	.0029201	.0081694	-.001505
#3	.001783	-.004893	.0001641	.0206227	.0021572	.0022592	-.000885

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000144**	**-.000018**	**.0470118**	**.0053107**	**-.000139**	**.0007511**	**.0275015**
Stddev	.000011	.000036	.0062356	.0003318	.000061	.0003354	.0076127
%RSD	7.860993	197.8737	13.26386	6.247722	43.97719	44.65728	27.68113
#1	-.000133	-.000041	.0418568	.0049289	-.000069	.0011108	.0265674
#2	-.000144	-.000036	.0539427	.0055290	-.000162	.0006956	.0203989
#3	-.000155	.000023	.0452359	.0054742	-.000185	.0004468	.0355381

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023340**	**.0415975**	**.0011019**	**.0004334**	**.1294906**	**.0015566**	**.0021828**
Stddev	.0001980	.0194145	.0000918	.0007726	.0217661	.0030799	.0001522
%RSD	8.484142	46.67218	8.330207	178.2709	16.80902	197.8653	6.974388
#1	.0023992	.0559822	.0011615	.0013193	.1446357	.0050848	.0020070
#2	.0021116	.0492960	.0009962	-.000101	.1392886	.0001790	.0022732
#3	.0024912	.0195145	.0011479	.000082	.1045476	-.000594	.0022681

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.055884**	**-.000481**	**.0004333**	**-.010010**	**.0011339**	**.0075231**	**.0067388**
Stddev	.027139	.000595	.0002266	.000377	.0006711	.0049083	.0016576
%RSD	48.56376	123.6536	52.28186	3.762250	59.18148	65.24283	24.59807
#1	-.047576	-.000407	.0001742	-.010327	.0014762	.0024196	.0067313
#2	-.086207	-.001111	.0005318	-.009593	.0015649	.0079403	.0084001
#3	-.033870	.000073	.0005940	-.010108	.0003607	.0122096	.0050849

Sample Name: Q3422-02 Acquired: 10/24/2025 15:51:14 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0766234	-.007775	.0002472
Stddev	.0018465	.002037	.0000641
%RSD	2.409846	26.20281	25.94433
#1	.0786380	-.006617	.0002110
#2	.0750114	-.006581	.0002094
#3	.0762207	-.010128	.0003213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5515.612	92152.39	7017.464	4200.867	7216.186
Stddev	17.674	254.45	18.170	9.732	14.704
%RSD	.3204443	.2761183	.2589187	.2316612	.2037631
#1	5502.378	91891.64	7018.381	4211.114	7199.342
#2	5508.773	92400.03	7035.158	4199.738	7222.756
#3	5535.684	92165.49	6998.854	4191.749	7226.459

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3434-02 Acquired: 10/24/2025 15:55:50 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0172709**	**-.005306**	**.1419183**	**.0166100**	**.0094242**	**8.424387**
Stddev	.0007564	.000722	.0014075	.0040153	.0013000	.010770
%RSD	4.379534	13.60038	.9917308	24.17375	13.79455	.1278444
#1	.0169298	-.005474	.1435272	.0131388	.0079266	8.431051
#2	.0181378	-.005930	.1413125	.0156837	.0102616	8.430149
#3	.0167451	-.004516	.1409151	.0210075	.0100845	8.411962

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4651355**	**.0004151**	**.0024898**	**155.7241**	**.0908376**	**.0067397**
Stddev	.0021946	.0000848	.0000421	.2705	.0005562	.0002081
%RSD	.4718103	20.42403	1.691267	.1736735	.6122708	3.088221
#1	.4631374	.0003621	.0025050	155.8395	.0902278	.0066902
#2	.4674843	.0003704	.0025222	155.9177	.0913170	.0069682
#3	.4647849	.0005129	.0024422	155.4151	.0909678	.0065608

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1019672**	**22.52155**	**1.127798**	**477.7935**	**.0312257**	**.0041524**
Stddev	.0004439	.26849	.002106	1.9608	.0005881	.0004363
%RSD	.4353891	1.192164	.1867144	.4103780	1.883425	10.50686
#1	.1015362	22.21157	1.125599	479.2127	.0319016	.0036637
#2	.1019423	22.67176	1.129796	478.6117	.0308304	.0042906
#3	.1024230	22.68133	1.128001	475.5562	.0309451	.0045028

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4042.644**	**.0274166**	**.6334742**	**238.6260**	**1.495136**	**.0246476**
Stddev	19.918	.0017598	.0008482	3.5143	.013194	.0001390
%RSD	.4927093	6.418619	.1339034	1.472712	.8824731	.5641109
#1	4024.774	.0255776	.6344516	234.8113	1.508898	.0245179
#2	4064.119	.0275877	.6329306	239.3349	1.493914	.0246306
#3	4039.040	.0290846	.6330404	241.7318	1.482595	.0247944

Sample Name: Q3434-02 Acquired: 10/24/2025 15:55:50 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0050028	.2345427	F 23.43294	3.709824	F 395.4251	.0811164
Stddev	.0007119	.0031404	.19416	.024430	2.9936	.0015497
%RSD	14.23085	1.338933	.8285917	.6585117	.7570552	1.910508
#1	.0045211	.2312196	23.24001	3.684245	392.5632	.0799103
#2	.0046668	.2374612	23.43050	3.712313	395.1772	.0805745
#3	.0058206	.2349474	23.62831	3.732914	398.5349	.0828643

Elem	Sr4077
Units	ppm
Avg	2.713181
Stddev	.020071
%RSD	.7397624
#1	2.711234
#2	2.694155
#3	2.734155

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4105.840	67307.69	6927.056	3143.711	4272.563
Stddev	9.276	180.38	82.884	8.592	10.030
%RSD	.2259218	.2679931	1.196528	.2733026	.2347461
#1	4112.281	67110.18	6839.767	3135.122	4283.207
#2	4095.208	67349.19	6936.711	3152.306	4271.194
#3	4110.031	67463.71	7004.689	3143.705	4263.289

Sample Name: Q3417-01 Acquired: 10/24/2025 16:00:15 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.5533084**	F **-1.26531**	**-.057338**	**1.328961**	**.3112514**	**.6027663**	**-.011628**
Stddev	.0056735	.01680	.001050	.021072	.0046916	.0040210	.000876
%RSD	1.025378	1.327443	1.830955	1.585591	1.507330	.6670938	7.530948
#1	.5473741	-1.25092	-.058422	1.307602	.3119898	.6066760	-.012411
#2	.5586790	-1.26124	-.057265	1.349734	.3155299	.6029803	-.010682
#3	.5538722	-1.28377	-.056327	1.329547	.3062343	.5986426	-.011791

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018939**	**-.000087**	**3.172242**	**.0012474**	**.0144253**	**.0466009**	**36.75744**
Stddev	.0000234	.000138	.040850	.0004346	.0000489	.0012520	.21234
%RSD	1.234907	157.8794	1.287730	34.83979	.3392356	2.686683	.5776847
#1	.0019051	-.000119	3.135627	.0017419	.0144816	.0451621	36.52044
#2	.0019095	-.000206	3.216303	.0009266	.0143934	.0474429	36.93039
#3	.0018670	.000064	3.164797	.0010736	.0144008	.0471976	36.82148

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6882365**	**.5202777**	**.0245347**	**.0033521**	**17.48902**	**-.000571**	**.1905582**
Stddev	.0072216	.0257345	.0000977	.0005504	.13391	.000615	.0010192
%RSD	1.049290	4.946295	.3981444	16.41825	.7657023	107.7025	.5348442
#1	.6812027	.5107267	.0244589	.0028589	17.38742	-.000518	.1916708
#2	.6956323	.5494221	.0245003	.0039458	17.64077	.000016	.1903341
#3	.6878743	.5006841	.0246450	.0032516	17.43887	-.001211	.1896697

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.38727**	**.1600088**	**.0057043**	**.4942441**	**.0041825**	**.7168486**	**3.345184**
Stddev	.22321	.0023891	.0000913	.0037339	.0004845	.0021571	.031800
%RSD	.4710371	1.493086	1.601067	.7554798	11.58377	.3009179	.9506105
#1	47.15116	.1573593	.0057382	.4899338	.0037787	.7160122	3.312354
#2	47.59483	.1606681	.0057739	.4964888	.0047198	.7152349	3.375842
#3	47.41582	.1619989	.0056009	.4963097	.0040491	.7192986	3.347356

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3417-01 Acquired: 10/24/2025 16:00:15 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**9.312178**	**-.001148**	**-.024197**
Stddev	.115514	.000664	.000054
%RSD	1.240457	57.83766	.2211421
#1	9.179067	-.001802	-.024137
#2	9.386114	-.000475	-.024214
#3	9.371353	-.001167	-.024240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4976.285**	**79144.95**	**7436.594**	**3850.564**	**6293.803**
Stddev	39.229	175.93	75.763	18.078	43.110
%RSD	.7883284	.2222876	1.018788	.4694946	.6849659
#1	5007.399	79058.45	7406.860	3835.278	6327.385
#2	4932.217	79029.01	7380.208	3845.895	6245.189
#3	4989.240	79347.38	7522.714	3870.519	6308.834

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV02 Acquired: 10/24/2025 16:32:12 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.130229**	**5.187898**	**5.113869**	**5.122566**	**5.068437**	**10.33686**
Stddev	.004951	.147450	.023383	.002148	.020154	.05968
%RSD	.0964998	2.842189	.4572407	.0419349	.3976281	.5773221
#1	5.135187	5.184692	5.140233	5.125042	5.088838	10.34476
#2	5.125285	5.042077	5.095644	5.121441	5.067932	10.39219
#3	5.130215	5.336925	5.105728	5.121213	5.048540	10.27362

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.14209**	**.2675559**	**2.581096**	**25.66293**	**1.047568**	**2.564152**
Stddev	.06606	.0005523	.013158	.09172	.000384	.012172
%RSD	.6513117	.2064244	.5097649	.3574215	.0366833	.4746979
#1	10.19627	.2679848	2.595452	25.71684	1.047265	2.577761
#2	10.16149	.2677502	2.569612	25.71493	1.047439	2.554306
#3	10.06850	.2669327	2.578223	25.55702	1.048000	2.560388

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.288183**	**5.075015**	**2.555098**	**25.90813**	**2.566213**	**1.302603**
Stddev	.005335	.018637	.010254	.07621	.012559	.002352
%RSD	.4141233	.3672207	.4013075	.2941397	.4894039	.1805686
#1	1.294148	5.087538	2.561903	25.94526	2.580324	1.303481
#2	1.286535	5.053598	2.560086	25.95866	2.556261	1.299938
#3	1.283868	5.083909	2.543304	25.82048	2.562052	1.304389

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.22903**	**2.551100**	**2.606210**	**25.96189**	**5.356281**	**5.152479**
Stddev	.23015	.021139	.005488	.08870	.009409	.012627
%RSD	.8452264	.8286298	.2105618	.3416546	.1756584	.2450583
#1	27.41619	2.554983	2.611632	26.05240	5.361437	5.167021
#2	27.29884	2.570029	2.600659	25.87511	5.361985	5.144293
#3	26.97206	2.528289	2.606338	25.95817	5.345421	5.146125

Sample Name: CCV02 Acquired: 10/24/2025 16:32:12 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.151359**	**5.084536**	F **5.622870**	**5.138682**	**5.105444**	**5.063326**
Stddev	.021201	.026402	.029052	.016660	.027045	.030383
%RSD	.4115517	.5192629	.5166829	.3242130	.5297192	.6000536
#1	5.171509	5.107494	5.589746	5.157828	5.120092	5.087286
#2	5.129245	5.090429	5.634833	5.127485	5.074235	5.073540
#3	5.153322	5.055686	5.644031	5.130734	5.122005	5.029152

Elem	Sr4077
Units	ppm
Avg	**5.019290**
Stddev	.065504
%RSD	1.305037
#1	5.015062
#2	5.086806
#3	4.956003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5283.114**	**84639.07**	**6893.647**	**3917.469**	**6091.855**
Stddev	14.363	198.82	43.376	5.625	21.478
%RSD	.2718664	.2349073	.6292147	.1435939	.3525636
#1	5268.460	84713.61	6888.741	3923.964	6067.172
#2	5283.714	84413.74	6852.932	3914.312	6106.279
#3	5297.168	84789.84	6939.267	3914.131	6102.116

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB02 Acquired: 10/24/2025 16:47:26 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014543**	**-.001522**	**.0009109**	**.0021860**	**.0002958**	**-.007683**
Stddev	.0002898	.000361	.0002925	.0027724	.0006943	.015184
%RSD	19.92714	23.71665	32.11013	126.8258	234.7328	197.6380
#1	.0012782	-.001757	.0007497	.0045469	.0006632	.005132
#2	.0017888	-.001703	.0007345	-.000867	.0007292	-.024454
#3	.0012958	-.001107	.0012485	.002878	-.000505	-.003727

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010715**	**-.000084**	**.0000103**	**.0122912**	**-.000051**	**.0002109**
Stddev	.0006243	.000030	.0000398	.0067098	.000244	.0000766
%RSD	58.26674	35.41706	386.3434	54.59060	479.9916	36.31240
#1	.0009513	-.000050	-.000036	.0146095	.000144	.0002051
#2	.0017472	-.000099	.000036	.0175346	-.000325	.0001374
#3	.0005160	-.000104	.000030	.0047297	.000028	.0002903

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005108**	**-.002626**	**.0003340**	**-.018233**	**-.000107**	**.0002219**
Stddev	.0001885	.001468	.0003106	.043729	.000215	.0003464
%RSD	36.90227	55.89798	93.01568	239.8342	201.4485	156.1438
#1	.0005134	-.001200	.0001209	.029661	-.000171	.0004704
#2	.0006980	-.004132	.0006904	-.028330	.000133	.0003690
#3	.0003210	-.002546	.0001906	-.056030	-.000282	-.000174

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8385219**	**-.000623**	**.0003527**	**.6187587**	**.0234984**	**.0001775**
Stddev	.0227915	.003825	.0001178	.0095098	.0010046	.0003028
%RSD	2.718060	614.3555	33.38189	1.536919	4.275375	170.6454
#1	.8132755	-.000968	.0004368	.6252270	.0223383	-.000138
#2	.8447093	.003363	.0002182	.6232094	.0240737	.000204
#3	.8575808	-.004263	.0004032	.6078396	.0240831	.000466

Sample Name: CCB02 Acquired: 10/24/2025 16:47:26 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007477	-.000069	.0535595	.0008364	F .0389714	.0026414
Stddev	.0008286	.001556	.0020357	.0006151	.0033590	.0007557
%RSD	110.8171	2243.314	3.800728	73.54855	8.619093	28.60863
#1	.0016843	-.000840	.0520473	.0005615	.0360627	.0031473
#2	.0004487	-.001090	.0558741	.0004066	.0382038	.0030042
#3	.0001101	.001721	.0527572	.0015410	.0426478	.0017728

Elem	Sr4077
Units	ppm
Avg	.0000349
Stddev	.0001334
%RSD	382.0328
#1	.0001886
#2	-.000033
#3	-.000051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5435.430	89387.12	6901.680	4160.103	6978.699
Stddev	8.584	219.18	20.868	21.140	19.005
%RSD	.1579283	.2452011	.3023637	.5081701	.2723337
#1	5427.243	89304.00	6925.011	4155.851	6959.527
#2	5434.685	89635.70	6895.234	4183.046	6979.037
#3	5444.362	89221.66	6884.795	4141.411	6997.533

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3440-01 Acquired: 10/24/2025 17:55:09 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.3540642**	**-.010606**	**19.55639**	**.0056803**	**.3480377**	**104.7045**
Stddev	.0021118	.003978	.05498	.0052388	.0033632	.7730
%RSD	.5964397	37.50537	.2811111	92.22874	.9663363	.7382803
#1	.3561955	-.014855	19.60242	.0095777	.3509449	103.8126
#2	.3540246	-.009992	19.49552	.0077382	.3488140	105.1816
#3	.3519725	-.006971	19.57124	-.000275	.3443542	105.1193

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.793956**	**.0196814**	**.0262636**	**99.26233**	**.2859864**	**.2940172**
Stddev	.013571	.0002097	.0004011	.66231	.0012564	.0013309
%RSD	.7564924	1.065333	1.527089	.6672309	.4393087	.4526493
#1	1.778410	.0196030	.0267221	98.50116	.2856042	.2951014
#2	1.803435	.0199190	.0259777	99.70713	.2873894	.2925319
#3	1.800024	.0195222	.0260911	99.57869	.2849655	.2944184

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.94842**	**382.9283**	**5.371101**	**53.65942**	**.6099446**	**-.051000**
Stddev	.06784	2.9147	.029055	.39944	.0027544	.000570
%RSD	.3091097	.7611499	.5409594	.7443967	.4515776	1.117816
#1	21.99314	379.5711	5.338121	53.20176	.6114378	-.051469
#2	21.87035	384.8125	5.392927	53.93787	.6067661	-.051166
#3	21.98175	384.4013	5.382253	53.83864	.6116300	-.050366

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.827763**	**.4301370**	**14.13704**	**16.67508**	**.1417061**	**.0130130**
Stddev	.035846	.0043114	.06857	.16773	.0185680	.0001518
%RSD	.4579359	1.002326	.4850443	1.005858	13.10317	1.166523
#1	7.795319	.4252069	14.07506	16.48896	.1211216	.0131780
#2	7.866245	.4332010	14.21070	16.72175	.1468044	.0128793
#3	7.821727	.4320031	14.12535	16.81454	.1571924	.0129818

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3440-01 Acquired: 10/24/2025 17:55:09 Type: Unk
Method: 6010-200.7 NEW(v308) 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	2.261367	7.708787	7.765214	F 14.01328	F 12.66069	.1535943
Stddev	.004163	.044934	.108435	.02498	.07565	.0021720
%RSD	.1840958	.5828942	1.396417	.1782238	.5975263	1.414142
#1	2.264791	7.659273	7.875119	13.99060	12.60987	.1513584
#2	2.256733	7.746974	7.762212	14.04005	12.74763	.1537282
#3	2.262576	7.720113	7.658311	14.00919	12.62457	.1556963

Elem	Sr4077
Units	ppm
Avg	.2437034
Stddev	.0010788
%RSD	.4426661
#1	.2424583
#2	.2443580
#3	.2442939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6372.716	103534.2	8603.654	4910.659	5922.184
Stddev	17.905	310.8	20.912	12.285	15.536
%RSD	.2809705	.3002241	.2430577	.2501761	.2623327
#1	6363.357	103841.1	8606.024	4922.101	5911.721
#2	6393.361	103219.6	8581.658	4897.676	5940.035
#3	6361.429	103541.8	8623.280	4912.202	5914.796

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3447-01 Acquired: 10/24/2025 17:59:16 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.5391144**	**-.162738**	**10.93966**	**-.027503**	**.2830233**	**11.39935**
Stddev	.0015924	.003401	.02089	.004989	.0011634	.18917
%RSD	.2953668	2.089589	.1909747	18.13868	.4110772	1.659442
#1	.5379379	-.165082	10.95355	-.027111	.2837478	11.61125
#2	.5384788	-.164294	10.91563	-.032677	.2816813	11.24749
#3	.5409264	-.158838	10.94979	-.022722	.2836409	11.33930

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7342871**	**.0381855**	**.0502081**	**53.62915**	**.0499186**	**.2631668**
Stddev	.0150120	.0006922	.0016933	.96877	.0021105	.0006262
%RSD	2.044429	1.812805	3.372577	1.806421	4.227808	.2379619
#1	.7488169	.0386350	.0482669	54.66961	.0475562	.2626642
#2	.7188354	.0373884	.0509758	52.75311	.0505818	.2638684
#3	.7352091	.0385332	.0513815	53.46474	.0516178	.2629679

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.516851**	**1979.739**	**11.44725**	**9.710947**	**.4821893**	**^ *****
Stddev	.033660	18.489	.20315	.178503	.0016534	-----
%RSD	.4477998	.9338986	1.774645	1.838163	.3428960	-----
#1	7.486341	2000.700	11.64948	9.895936	.4833040	^ -----
#2	7.511252	1972.765	11.24320	9.539727	.4802896	^ -----
#3	7.552960	1965.751	11.44908	9.697180	.4829743	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.97609**	**.2291475**	**6.492662**	**2.007351**	**^ *****	**.0114548**
Stddev	.43017	.0062673	.016823	.056147	-----	.0001418
%RSD	1.000945	2.735053	.2591137	2.797047	-----	1.237529
#1	43.43663	.2363414	6.508406	1.986344	^ -----	.0112978
#2	42.58466	.2248692	6.474935	1.964738	^ -----	.0115735
#3	42.90698	.2262317	6.494645	2.070972	^ -----	.0114931

Sample Name: Q3447-01 Acquired: 10/24/2025 17:59:16 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.4941316	.5224100	5.768023	3.006362	F 78.58411	.2138898
Stddev	.0002707	.0093191	.021804	.011001	.25952	.0039368
%RSD	.0547824	1.783859	.3780186	.3659304	.3302448	1.840585
#1	.4939175	.5303195	5.793194	3.009634	78.42567	.2183728
#2	.4940414	.5121366	5.754972	2.994096	78.44305	.2123006
#3	.4944359	.5247738	5.755902	3.015356	78.88361	.2109960

Elem	Sr4077
Units	ppm
Avg	F -1.39653
Stddev	.01235
%RSD	.8842998
#1	-1.40707
#2	-1.39959
#3	-1.38294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5154.551	86131.45	7044.114	3980.581	6157.532
Stddev	13.340	51.28	88.998	8.092	4.638
%RSD	.2588067	.0595379	1.263435	.2032763	.0753193
#1	5165.589	86104.89	6963.334	3972.509	6156.307
#2	5158.338	86190.57	7139.518	3988.692	6162.659
#3	5139.727	86098.91	7029.490	3980.541	6153.629

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3447-03 Acquired: 10/24/2025 18:03:23 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**3.884126**	**-.098821**	**200.1867**	**.3868004**	**8.538133**	**155.9449**
Stddev	.005405	.005310	.0841	.0076016	.013720	.2976
%RSD	.1391455	5.373117	.0420331	1.965260	.1606852	.1908246
#1	3.881235	-.092744	200.1767	.3787139	8.537425	155.6210
#2	3.880782	-.102566	200.2755	.3878873	8.552193	156.0075
#3	3.890362	-.101153	200.1081	.3938001	8.524782	156.2062

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.65579**	**.0389907**	**.3867653**	**349.3323**	**1.297913**	**.5440942**
Stddev	.20055	.0000612	.0011435	.6704	.006127	.0003552
%RSD	1.584632	.1570249	.2956560	.1919180	.4720781	.0652802
#1	12.72199	.0390556	.3880763	348.8471	1.304491	.5441923
#2	12.81486	.0389825	.3862458	349.0525	1.292368	.5443900
#3	12.43051	.0389339	.3859737	350.0973	1.296879	.5437003

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**41.28774**	**1603.593**	**10.29017**	**56.70904**	**2.780506**	^ *****
Stddev	.04329	16.392	.04405	.07834	.001380	-----
%RSD	.1048478	1.022214	.4281144	.1381512	.0496342	-----
#1	41.30675	1584.915	10.29195	56.63472	2.779479	^ -----
#2	41.31827	1615.589	10.24525	56.70153	2.782075	^ -----
#3	41.23820	1610.275	10.33330	56.79087	2.779964	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.726782**	**.9370325**	**25.37047**	**15.83885**	^ *****	**.0961410**
Stddev	.081191	.0031318	.19956	.11448	-----	.0004444
%RSD	.9303607	.3342199	.7865930	.7227606	-----	.4622104
#1	8.687789	.9353441	25.14702	15.74200	^ -----	.0956376
#2	8.672443	.9351073	25.53094	15.80936	^ -----	.0964787
#3	8.820113	.9406462	25.43346	15.96519	^ -----	.0963066

Sample Name: Q3447-03 Acquired: 10/24/2025 18:03:23 Type: Unk
Method: 6010-200.7 NEW(v308) 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	8.303977	5.268423	8.038822	F 30.60947	F 71.00193	.3064063
Stddev	.009690	.013592	.040797	.05654	.39643	.0016474
%RSD	.1166915	.2579854	.5075044	.1847087	.5583366	.5376559
#1	8.298209	5.273327	7.991779	30.66414	70.70042	.3046323
#2	8.315164	5.253060	8.064492	30.61303	71.45097	.3066987
#3	8.298557	5.278883	8.060196	30.55123	70.85439	.3078880

Elem	Sr4077
Units	ppm
Avg	.7169989
Stddev	.0263618
%RSD	3.676680
#1	.7173410
#2	.7431879
#3	.6904678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5614.231	95568.53	8170.514	4286.134	5510.122
Stddev	8.823	188.85	30.818	11.484	5.724
%RSD	.1571543	.1976118	.3771911	.2679241	.1038793
#1	5608.364	95422.69	8136.034	4274.096	5504.787
#2	5609.951	95781.85	8180.129	4296.968	5509.412
#3	5624.378	95501.04	8195.379	4287.338	5516.168

Sample Name: Q3447-05 Acquired: 10/24/2025 18:08:01 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.8305624	.0467462	F 1145.057	.0133128	F 23.18494	26.67059
Stddev	.0543552	.0097421	62.600	.0058698	1.79826	1.04556
%RSD	6.544385	20.84050	5.466990	44.09158	7.756163	3.920267
#1	.7680487	.0542887	1204.189	.0151001	21.12090	27.85184
#2	.8666689	.0502029	1151.495	.0180811	24.41330	26.29602
#3	.8569696	.0357471	1079.487	.0067570	24.02063	25.86391

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.362862	.0096380	.1795062	30.63991	.1822746	.1617317
Stddev	.033492	.0012114	.0081666	1.41307	.0048373	.0071953
%RSD	2.457450	12.56886	4.549469	4.611859	2.653871	4.448938
#1	1.398972	.0110281	.1701225	32.21399	.1830318	.1542612
#2	1.356798	.0090784	.1833896	30.22496	.1771033	.1623179
#3	1.332818	.0088077	.1850064	29.48077	.1866887	.1686160

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 452.7759	587.2732	2.739358	6.466081	1.579138	.1697121
Stddev	20.9679	36.8467	.136433	.376772	.064232	.0055597
%RSD	4.630970	6.274209	4.980482	5.826899	4.067514	3.275945
#1	438.5147	562.1639	2.890075	6.885540	1.520749	.1658643
#2	476.8510	570.0819	2.703717	6.356344	1.568724	.1671857
#3	442.9620	629.5739	2.624283	6.156361	1.647940	.1760864

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.921185	1.738531	16.64226	5.795486	^ *****	.0507592
Stddev	.591525	.062091	.81336	.564899	-----	.0036878
%RSD	9.989976	3.571471	4.887320	9.747230	-----	7.265355
#1	5.348353	1.806375	16.01530	5.247545	^ -----	.0465544
#2	5.885423	1.724689	16.35014	5.762974	^ -----	.0522788
#3	6.529780	1.684530	17.56134	6.375940	^ -----	.0534445

Sample Name: Q3447-05 Acquired: 10/24/2025 18:08:01 Type: Unk
Method: 6010-200.7 NEW(v308) 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	F 286.7953	.6637014	2.778532	1.783865	F 93.46327	.0810309
Stddev	20.0965	.0185501	.194641	.117980	3.89671	.0032020
%RSD	7.007276	2.794949	7.005174	6.613755	4.169240	3.951608
#1	294.9557	.6818085	2.592950	1.825000	89.68986	.0798624
#2	263.9022	.6645577	2.761531	1.650824	93.22739	.0785772
#3	301.5281	.6447380	2.981116	1.875770	97.47256	.0846530

Elem	Sr4077
Units	ppm
Avg	-.387240
Stddev	.038264
%RSD	9.881196
#1	-.359163
#2	-.371733
#3	-.430823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4540.355	109254.3	9028.389	3992.630	6468.588
Stddev	240.136	3542.2	957.574	56.596	218.306
%RSD	5.288923	3.242193	10.60625	1.417500	3.374861
#1	4816.195	109955.3	7954.337	4043.773	6720.253
#2	4377.951	112393.5	9337.915	4002.293	6355.237
#3	4426.918	105413.9	9792.915	3931.826	6330.273

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3447-07 Acquired: 10/24/2025 18:12:40 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0263881	-.001336	6.814924	.0023726	-.234015	3.153905
Stddev	.0013635	.001232	.016866	.0035820	.000941	.006314
%RSD	5.166925	92.21972	.2474913	150.9725	.4019540	.2001945
#1	.0248151	-.000770	6.831955	.0052098	-.234443	3.151234
#2	.0271165	-.002749	6.814591	.0035605	-.234667	3.161116
#3	.0272326	-.000488	6.798227	-.001652	-.232937	3.149365

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0605689	.0016907	.0323098	4.409227	.0566872	.0305202
Stddev	.0002821	.0001146	.0001098	.002946	.0005300	.0002112
%RSD	.4656838	6.778716	.3399526	.0668171	.9348814	.6918781
#1	.0604489	.0016930	.0323795	4.412607	.0564086	.0307634
#2	.0608911	.0018041	.0323667	4.407868	.0572983	.0303837
#3	.0603667	.0015749	.0321832	4.407205	.0563546	.0304134

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.43708	86.54650	1.230397	2.930437	.7418209	-.013676
Stddev	.06497	.66604	.003812	.009416	.0022319	.000742
%RSD	.2368040	.7695749	.3098151	.3213176	.3008687	5.422299
#1	27.50309	86.43976	1.233122	2.921328	.7442673	-.013459
#2	27.43494	85.94028	1.226041	2.940133	.7412996	-.014502
#3	27.37320	87.25947	1.232027	2.929849	.7398958	-.013068

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.388373	.8984121	13.44776	1.341262	.0056286	.0040996
Stddev	.052536	.0030158	.02382	.042550	.0029274	.0005664
%RSD	1.550479	.3356798	.1771548	3.172362	52.00855	13.81554
#1	3.351008	.9018923	13.43575	1.366364	.0043467	.0047368
#2	3.365668	.8965662	13.47520	1.292134	.0035609	.0039084
#3	3.448443	.8967777	13.43233	1.365288	.0089783	.0036535

Sample Name: Q3447-07 Acquired: 10/24/2025 18:12:40 Type: Unk
Method: 6010-200.7 NEW(v308) 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	F 23.97596	.0426568	.3498037	.1793629	F 24.82000	.0188310
Stddev	.02304	.0005295	.0043735	.0011640	.16298	.0022129
%RSD	.0961122	1.241242	1.250275	.6489452	.6566358	11.75152
#1	23.97319	.0422162	.3538612	.1801066	24.63188	.0182604
#2	24.00026	.0425099	.3451711	.1780215	24.90974	.0212734
#3	23.95443	.0432442	.3503790	.1799606	24.91839	.0169593

Elem	Sr4077
Units	ppm
Avg	-.071640
Stddev	.000584
%RSD	.8154266
#1	-.071509
#2	-.071132
#3	-.072278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5381.785	89738.30	6755.363	4179.118	6826.396
Stddev	11.630	224.49	31.606	12.284	15.852
%RSD	.2160982	.2501616	.4678721	.2939268	.2322099
#1	5374.091	89980.01	6760.625	4191.472	6814.404
#2	5376.100	89698.54	6721.456	4166.906	6820.417
#3	5395.164	89536.34	6784.008	4178.977	6844.368

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3449-01 Acquired: 10/24/2025 18:16:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0600190**	**-.000304**	**1.329723**	**.0031593**	**-.007018**	**114.9983**	**.5994365**
Stddev	.0008987	.000712	.001567	.0017590	.000362	.8201	.0051450
%RSD	1.497382	234.0865	.1178492	55.67586	5.156031	.7131478	.8583005
#1	.0606246	-.001089	1.329578	.0016517	-.007056	115.7928	.6015624
#2	.0604459	-.000122	1.328233	.0027344	-.007359	115.0473	.6031778
#3	.0589864	.000299	1.331357	.0050918	-.006638	114.1548	.5935693

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085273**	**.0067803**	**32.93807**	**.2099912**	**.0755879**	**.2587193**	**187.5907**
Stddev	.0000446	.0002242	.19671	.0007671	.0001244	.0007876	1.4018
%RSD	.5226483	3.307139	.5972025	.3653230	.1645203	.3044103	.7472537
#1	.0084976	.0069341	33.08258	.2092620	.0755211	.2594581	186.4883
#2	.0085058	.0068839	33.01758	.2107914	.0757314	.2588092	187.1155
#3	.0085786	.0065230	32.71405	.2099202	.0755112	.2578907	189.1683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.345484**	**24.73872**	**.1675755**	**-.033238**	**3.522160**	**.3227923**	**.7892310**
Stddev	.020537	.16983	.0005548	.000780	.026907	.0053553	.0023151
%RSD	.6138637	.6865001	.3310948	2.345277	.7639459	1.659067	.2933356
#1	3.357929	24.87730	.1681441	-.033964	3.496609	.3261666	.7917789
#2	3.356743	24.78960	.1670355	-.033336	3.519627	.3255930	.7872565
#3	3.321780	24.54927	.1675468	-.032414	3.550245	.3166174	.7886575

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.071498**	**.0091974**	**.0063208**	**.0298386**	**2.834194**	**7.107347**	**9.696399**
Stddev	.062451	.0081664	.0002090	.0005187	.020060	.171115	.042895
%RSD	.8831383	88.79114	3.306679	1.738451	.7077811	2.407576	.4423758
#1	7.050180	.0091473	.0061333	.0298166	2.853163	7.304509	9.735188
#2	7.022498	.0010561	.0062829	.0293312	2.836222	6.997562	9.703678
#3	7.141817	.0173887	.0065462	.0303679	2.813197	7.019969	9.650330

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3449-01 Acquired: 10/24/2025 18:16:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.529482**	**.1045228**	**-.038757**
Stddev	.034184	.0015672	.002200
%RSD	.7547109	1.499365	5.677602
#1	4.555298	.1029074	-.037006
#2	4.542433	.1046239	-.038038
#3	4.490714	.1060369	-.041227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6323.046**	**101598.0**	**7862.235**	**4971.829**	**6332.733**
Stddev	10.922	248.3	85.598	12.811	12.084
%RSD	.1727336	.2444145	1.088719	.2576813	.1908104
#1	6315.879	101784.0	7804.346	4986.216	6322.663
#2	6335.616	101693.9	7821.801	4961.653	6346.132
#3	6317.642	101316.0	7960.560	4967.619	6329.406

Sample Name: PB170252BL Acquired: 10/24/2025 18:20:46 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0021974**	**.0000511**	**.0023015**	**.0012672**	**.0010243**	**.0031655**
Stddev	.0013676	.0019399	.0003061	.0026165	.0011772	.0071195
%RSD	62.23884	3797.475	13.29981	206.4804	114.9289	224.9058
#1	.0006267	.0022616	.0025835	.0036417	.0010038	.0075338
#2	.0028412	-.000741	.0019759	-.001538	-.000143	-.005050
#3	.0031243	-.001368	.0023452	.001698	.002212	.007013

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000240**	**-.000033**	**.0000064**	**.0027153**	**.0000533**	**.0000533**
Stddev	.000918	.000012	.0000015	.0064456	.0001288	.0001895
%RSD	383.0298	35.70467	23.20759	237.3771	241.4315	355.7056
#1	.000627	-.000020	.0000050	-.004670	.0001764	.0002361
#2	-.000144	-.000043	.0000064	.005611	-.000081	-.000142
#3	-.001202	-.000035	.0000079	.007205	.000064	.000066

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009658**	**.0217966**	**.0005595**	**.0137784**	**.0000105**	**.0003970**
Stddev	.0001755	.0071791	.0004362	.0125314	.0001323	.0003092
%RSD	18.16924	32.93667	77.96291	90.94924	1255.404	77.86183
#1	.0011649	.0135134	.0002688	.0102758	-.000047	.0004197
#2	.0008991	.0256549	.0003486	.0276885	.000162	.0006942
#3	.0008335	.0262214	.0010611	.0033710	-.000083	.0000772

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9559862**	**-.002391**	**.0002526**	**.5735233**	**.0201819**	**.0000899**
Stddev	.0455009	.004174	.0004066	.0628118	.0012322	.0000388
%RSD	4.759577	174.5728	161.0006	10.95192	6.105335	43.10153
#1	.9046112	.001668	.0002058	.5165082	.0207918	.0000711
#2	.9721454	-.002170	.0006805	.5632071	.0209901	.0001345
#3	.9912020	-.006672	-.000129	.6408546	.0187637	.0000641

Sample Name: PB170252BL Acquired: 10/24/2025 18:20:46 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0138319	.0015832	.0054363	-.001206	F .0308096	.0014295
Stddev	.0006875	.0021943	.0098371	.001702	.0028996	.0037361
%RSD	4.970285	138.6057	180.9512	141.1884	9.411357	261.3510
#1	.0143151	.0033599	.0086405	-.002919	.0335792	.0057171
#2	.0141357	.0022593	-.005603	.000485	.0310541	-.001128
#3	.0130448	-.000870	.013272	-.001183	.0277955	-.000300

Elem	Sr4077
Units	ppm
Avg	.0000650
Stddev	.0001454
%RSD	223.7390
#1	-.000101
#2	.000124
#3	.000172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5700.322	92924.96	6810.857	4421.081	7250.213
Stddev	13.355	187.34	198.191	34.677	9.127
%RSD	.2342904	.2016014	2.909927	.7843537	.1258808
#1	5702.575	93079.17	6703.480	4446.935	7245.462
#2	5685.984	92979.24	6689.525	4434.633	7244.442
#3	5712.408	92716.48	7039.567	4381.674	7260.735

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: PB170252BS Acquired: 10/24/2025 18:25:04 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.7606418**	**1.942612**	**.9360105**	**1.893714**	**.7701252**	**1.938582**
Stddev	.0021793	.052558	.0014964	.006594	.0013245	.047601
%RSD	.2865097	2.705520	.1598721	.3482159	.1719810	2.455457
#1	.7607221	1.931060	.9345586	1.886130	.7700826	1.907321
#2	.7627798	1.999985	.9359251	1.896922	.7688225	1.915061
#3	.7584234	1.896791	.9375478	1.898090	.7714705	1.993365

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1925651**	**.2152081**	**.1879286**	**1.014787**	**.4067695**	**.1906910**
Stddev	.0039279	.0010926	.0000997	.021321	.0008556	.0004112
%RSD	2.039777	.5076936	.0530412	2.101081	.2103352	.2156575
#1	.1912748	.2147759	.1879017	.998890	.4062811	.1907065
#2	.1894448	.2143978	.1878452	1.006455	.4077575	.1902722
#3	.1969759	.2164507	.1880390	1.039017	.4062700	.1910943

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3042366**	**2.759997**	**.2002846**	**2.009629**	**.4805457**	**.0735012**
Stddev	.0002071	.028736	.0040457	.047000	.0002487	.0005992
%RSD	.0680669	1.041174	2.019959	2.338738	.0517593	.8152825
#1	.3040436	2.743964	.1982774	1.970443	.4802948	.0738639
#2	.3044554	2.742855	.1976351	1.996706	.4807922	.0728095
#3	.3042108	2.793173	.2049414	2.061739	.4805502	.0738302

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.309370**	**.2904358**	**.1954928**	**9.243754**	**.3319467**	**.3986244**
Stddev	.044026	.0084172	.0007305	.136241	.0011710	.0007167
%RSD	1.330339	2.898111	.3736441	1.473866	.3527795	.1797974
#1	3.283175	.2876093	.1949866	9.131547	.3332375	.3981413
#2	3.284736	.2837958	.1963302	9.204365	.3309524	.3994479
#3	3.360198	.2999025	.1951616	9.395349	.3316503	.3982841

Sample Name: PB170252BS Acquired: 10/24/2025 18:25:04 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.6776417**	**.1920291**	**.8132965**	**5.503556**	F **.0269768**	**.1912701**
Stddev	.0008551	.0045564	.0294878	.012345	.0014094	.0028529
%RSD	.1261819	2.372769	3.625707	.2243105	5.224487	1.491581
#1	.6774453	.1879342	.8221662	5.515856	.0266627	.1902657
#2	.6785779	.1912157	.7803919	5.503644	.0285167	.1890552
#3	.6769020	.1969374	.8373313	5.491166	.0257509	.1944894

Elem	Sr4077
Units	ppm
Avg	**.1880738**
Stddev	.0041425
%RSD	2.202602
#1	.1861058
#2	.1852821
#3	.1928334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5544.147**	**89517.95**	**6680.190**	**4222.777**	**6828.251**
Stddev	4.877	83.77	46.802	26.181	4.535
%RSD	.0879614	.0935774	.7006055	.6199969	.0664081
#1	5545.333	89608.15	6711.870	4240.909	6833.072
#2	5548.322	89442.60	6702.265	4192.761	6827.611
#3	5538.787	89503.10	6626.433	4234.659	6824.070

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV03 Acquired: 10/24/2025 18:29:06 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.977248**	**5.064179**	**5.010155**	**4.936229**	**4.884780**	**10.31114**	**10.11292**
Stddev	.044979	.093889	.034984	.036176	.042468	.06473	.08592
%RSD	.9036913	1.853981	.6982548	.7328648	.8693942	.6277486	.8496029
#1	4.934065	5.148284	4.975153	4.906355	4.845401	10.30372	10.06991
#2	5.023831	5.081373	5.045120	4.976451	4.929778	10.37926	10.21185
#3	4.973849	4.962882	5.010193	4.925879	4.879163	10.25044	10.05700

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2736783**	**2.531328**	**25.79513**	**1.040236**	**2.498219**	**1.249537**	**5.167231**
Stddev	.0024692	.018482	.18001	.004768	.018542	.009860	.040701
%RSD	.9022400	.7301499	.6978341	.4583798	.7422147	.7891075	.7876709
#1	.2731445	2.514140	25.77705	1.034874	2.480287	1.239946	5.120556
#2	.2763708	2.550878	25.98350	1.043999	2.517316	1.259646	5.185813
#3	.2715196	2.528966	25.62485	1.041836	2.497055	1.249019	5.195325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.562361**	**26.06534**	**2.505207**	**1.272909**	**24.45580**	**2.545960**	**2.494776**
Stddev	.022530	.21441	.019247	.003074	.12217	.017417	.012005
%RSD	.8792692	.8225934	.7682642	.2415231	.4995576	.6841145	.4812197
#1	2.547539	26.11113	2.486860	1.269639	24.32002	2.547702	2.482664
#2	2.588288	26.25316	2.525242	1.273345	24.55684	2.562441	2.494993
#3	2.551257	25.83174	2.503519	1.275742	24.49055	2.527738	2.506672

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.50398**	**5.422170**	**5.009423**	**5.062916**	**5.077379**	**5.046399**	**5.080480**
Stddev	.08423	.045685	.038805	.037659	.040215	.049651	.020906
%RSD	.3437263	.8425540	.7746352	.7438150	.7920348	.9838854	.4115059
#1	24.40762	5.408567	4.973885	5.025749	5.068917	4.990328	5.071049
#2	24.56356	5.473111	5.050826	5.101048	5.121151	5.084788	5.104441
#3	24.54077	5.384832	5.003557	5.061950	5.042069	5.064082	5.065951

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV03 Acquired: 10/24/2025 18:29:06 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.902153**	**4.997382**	**5.015117**
Stddev	.029390	.038284	.024040
%RSD	.5995244	.7660795	.4793441
#1	4.889270	4.984652	5.002204
#2	4.935784	5.040410	5.042854
#3	4.881406	4.967085	5.000294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5444.314**	**85378.72**	**6679.845**	**4021.354**	**6248.227**
Stddev	29.433	187.02	67.858	13.683	30.679
%RSD	.5406121	.2190476	1.015864	.3402611	.4910103
#1	5472.120	85435.69	6674.174	4036.884	6275.482
#2	5413.488	85169.84	6615.000	4011.070	6215.001
#3	5447.333	85530.62	6750.361	4016.109	6254.197

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB03 Acquired: 10/24/2025 18:33:09 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021085**	**.0034151**	**.0013671**	**.0005722**	**.0011862**	**-.003295**
Stddev	.0011217	.0011684	.0006112	.0016544	.0022952	.008718
%RSD	53.19676	34.21331	44.70871	289.1295	193.4847	264.5753
#1	.0009729	.0031584	.0010899	.0005971	-.000813	-.013240
#2	.0021370	.0023964	.0020679	-.001095	.003693	.003027
#3	.0032157	.0046905	.0009437	.002214	.000679	.000328

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015285**	**-.000009**	**.0000196**	**.0128991**	**-.000042**	**.0001797**
Stddev	.0012123	.000053	.0000174	.0144367	.000250	.0001386
%RSD	79.31549	591.2791	88.51075	111.9201	595.8182	77.10473
#1	.0006149	.000043	.0000001	.0278831	-.000002	.0003354
#2	.0029038	-.000063	.0000333	.0117337	-.000309	.0001338
#3	.0010667	-.000007	.0000255	-.000920	.000186	.0000699

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004190**	**.0011000**	**.0003378**	**-.012861**	**.0001036**	**.0005337**
Stddev	.0002171	.0059669	.0002325	.028054	.0001071	.0000962
%RSD	51.82176	542.4267	68.83014	218.1316	103.3673	18.02587
#1	.0005219	.0070668	.0003786	-.012344	.0000081	.0004408
#2	.0005654	-.004867	.0005472	-.041170	.0000833	.0005274
#3	.0001695	.001100	.0000876	.014931	.0002193	.0006328

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7451984**	**-.002015**	**.0001982**	**.5047702**	**.0287533**	**.0003774**
Stddev	.0623228	.003206	.0002018	.0315247	.0011550	.0000228
%RSD	8.363245	159.0829	101.7852	6.245364	4.016937	6.047436
#1	.6803067	.000687	-.000031	.4685407	.0300829	.0003810
#2	.7507014	-.005557	.000350	.5198225	.0281779	.0003982
#3	.8045872	-.001175	.000276	.5259474	.0279989	.0003530

Sample Name: CCB03 Acquired: 10/24/2025 18:33:09 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067509	.0016597	.0136451	-.001683	F .0229733	.0014360
Stddev	.0002737	.0011123	.0148617	.001453	.0004203	.0017760
%RSD	4.054715	67.01570	108.9167	86.37088	1.829659	123.6791
#1	.0064369	.0015873	.0267071	-.003129	.0225273	-.000334
#2	.0068772	.0028065	-.002525	-.000223	.0233621	.001424
#3	.0069387	.0005855	.016753	-.001696	.0230305	.003218

Elem	Sr4077
Units	ppm
Avg	.0000290
Stddev	.0000149
%RSD	51.40815
#1	.0000436
#2	.0000138
#3	.0000297

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5518.858	87605.53	6878.600	4147.454	6999.342
Stddev	5.912	207.68	24.982	15.569	3.519
%RSD	.1071204	.2370612	.3631879	.3753949	.0502713
#1	5514.012	87837.62	6855.635	4129.521	7001.159
#2	5517.116	87541.77	6874.965	4157.521	6995.286
#3	5525.445	87437.21	6905.201	4155.321	7001.581

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-01 Acquired: 10/24/2025 18:37:28 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**-.003117**	**-.000588**	**.0058180**	**-.002551**	**.0020746**	**.0321887**
Stddev	.002129	.002284	.0012244	.001269	.0016021	.0123566
%RSD	68.29552	388.1776	21.04517	49.74009	77.22575	38.38795
#1	-.001895	.000489	.0071958	-.001207	.0015469	.0209481
#2	-.001881	.000958	.0048544	-.002718	.0008029	.0454197
#3	-.005575	-.003212	.0054038	-.003729	.0038740	.0301983

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0869594**	**-.000172**	**.0000214**	**152.9359**	**.0009769**	**.0002976**
Stddev	.0000873	.000048	.0000979	.9149	.0003893	.0000395
%RSD	.1003883	27.82322	456.9536	.5982045	39.85405	13.26420
#1	.0869162	-.000143	.0000947	151.8959	.0013728	.0002525
#2	.0869022	-.000145	-.000090	153.2954	.0009634	.0003261
#3	.0870599	-.000227	.000059	153.6163	.0005945	.0003141

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0197135**	**.0401324**	**.0797162**	**56.19623**	**.0019160**	**.0002380**
Stddev	.0001597	.0120308	.0003906	.40589	.0000752	.0001681
%RSD	.8100557	29.97785	.4899985	.7222677	3.923744	70.63533
#1	.0198063	.0465266	.0798247	55.72923	.0018316	.0001678
#2	.0198050	.0476161	.0792828	56.39545	.0019758	.0004299
#3	.0195291	.0262547	.0800411	56.46402	.0019407	.0001164

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**243.5460**	**.0000439**	**.0856481**	**5.527222**	**.0758238**	**.0048440**
Stddev	2.7842	.0037709	.0006702	.024498	.0007413	.0001666
%RSD	1.143207	8581.203	.7825241	.4432262	.9776413	3.438854
#1	243.9381	-.003552	.0850193	5.505533	.0753049	.0046807
#2	246.1134	.003968	.0855720	5.553794	.0766728	.0048376
#3	240.5866	-.000284	.0863532	5.522339	.0754937	.0050137

Sample Name: Q3444-01 Acquired: 10/24/2025 18:37:28 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.012032	-.005238	F 12.74862	.0090415	F 13.68232	-.021832
Stddev	.000451	.002783	.08197	.0002335	.02933	.002240
%RSD	3.745424	53.13966	.6429607	2.582781	.2143628	10.25921
#1	-.012397	-.003249	12.65513	.0092995	13.65980	-.020290
#2	-.011528	-.008419	12.78259	.0088445	13.67167	-.020805
#3	-.012172	-.004046	12.80814	.0089806	13.71548	-.024401

Elem	Sr4077
Units	ppm
Avg	.2907519
Stddev	.0005953
%RSD	.2047331
#1	.2900665
#2	.2911391
#3	.2910502

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5079.235	81779.08	6599.184	3952.202	5831.707
Stddev	3.690	138.78	17.361	16.977	10.505
%RSD	.0726509	.1696985	.2630845	.4295645	.1801358
#1	5077.420	81939.30	6619.108	3955.595	5821.168
#2	5083.481	81701.20	6591.148	3933.785	5842.178
#3	5076.804	81696.73	6587.297	3967.227	5831.776

Sample Name: Q3444-02 Acquired: 10/24/2025 18:41:49 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0010562**	**-.002055**	**.0139417**	**-.004066**	**.0044209**	**.0615986**
Stddev	.0006168	.004567	.0017362	.002488	.0010325	.0082275
%RSD	58.40089	222.2180	12.45300	61.18851	23.35553	13.35664
#1	.0016925	-.003227	.0159360	-.006812	.0044772	.0691654
#2	.0010151	.002983	.0127670	-.003423	.0033614	.0528403
#3	.0004610	-.005921	.0131222	-.001963	.0054241	.0627899

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2527473**	**-.000288**	**.0001970**	**468.6895**	**.0065422**	**.0023729**
Stddev	.0024454	.000041	.0001185	.8080	.0010404	.0000158
%RSD	.9675345	14.16739	60.15129	.1723969	15.90265	.6649574
#1	.2526581	-.000331	.0001766	467.9082	.0077370	.0023888
#2	.2552361	-.000250	.0000901	468.6384	.0060529	.0023727
#3	.2503477	-.000282	.0003245	469.5218	.0058367	.0023572

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0365028**	**.1033822**	**1.265488**	**140.4246**	**.0148292**	**-.000490**
Stddev	.0002986	.0064990	.005762	.0551	.0002097	.000302
%RSD	.8181173	6.286371	.4553508	.0392383	1.413999	61.58432
#1	.0362557	.1104365	1.261443	140.3632	.0148176	-.000584
#2	.0368347	.0976383	1.272086	140.4410	.0150444	-.000152
#3	.0364180	.1020718	1.262935	140.4697	.0146255	-.000734

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1006.183**	**.0008222**	**.0938580**	**15.52974**	**.1060978**	**.0022264**
Stddev	8.019	.0015945	.0001196	.11190	.0009337	.0000544
%RSD	.7969535	193.9237	.1274830	.7205326	.8800546	2.442462
#1	1011.261	-.000188	.0939726	15.50593	.1053283	.0021669
#2	1010.349	-.000006	.0938675	15.65163	.1071366	.0022734
#3	996.938	.002660	.0937338	15.43167	.1058286	.0022390

Sample Name: Q3444-02 Acquired: 10/24/2025 18:41:49 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.010944	-.017115	F 23.24867	.0083739	F 18.42607	-.049787
Stddev	.001078	.001498	.07788	.0000694	.06644	.000348
%RSD	9.853066	8.755206	.3350003	.8283219	.3605858	.6988542
#1	-.010219	-.015948	23.19400	.0083015	18.42691	-.050167
#2	-.010429	-.018804	23.33785	.0084397	18.49208	-.049484
#3	-.012183	-.016592	23.21417	.0083806	18.35920	-.049710

Elem	Sr4077
Units	ppm
Avg	1.266642
Stddev	.003619
%RSD	.2857286
#1	1.264257
#2	1.270807
#3	1.264863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4636.689	74326.68	6431.415	3568.571	5104.803
Stddev	6.450	198.04	18.955	17.027	2.535
%RSD	.1390979	.2664399	.2947324	.4771290	.0496631
#1	4642.909	74469.20	6426.123	3563.033	5106.187
#2	4630.032	74100.55	6452.454	3587.678	5101.877
#3	4637.125	74410.29	6415.668	3555.003	5106.344

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-03 Acquired: 10/24/2025 18:46:09 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**-.001613**	**-.000565**	**.0050740**	**.0049734**	**.0024062**	**.0493062**	**.0019525**
Stddev	.001154	.000905	.0009196	.0013673	.0023890	.0030350	.0018099
%RSD	71.54235	160.2381	18.12362	27.49324	99.28385	6.155421	92.69461
#1	-.000345	-.000931	.0057386	.0065519	.0028078	.0527842	.0002984
#2	-.002603	-.001228	.0040245	.0042121	.0045690	.0471946	.0016735
#3	-.001892	.000466	.0054591	.0041562	-.000158	.0479397	.0038857

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000258**	**-.000039**	**.0399289**	**.0033537**	**-.000112**	**.0335704**	**.0404214**
Stddev	.000019	.000066	.0148573	.0001229	.000165	.0003365	.0101299
%RSD	7.374363	169.1708	37.20931	3.662976	147.8492	1.002477	25.06069
#1	-.000272	.000025	.0530053	.0032386	-.000027	.0335623	.0298483
#2	-.000236	-.000036	.0237733	.0034831	-.000007	.0332379	.0413755
#3	-.000266	-.000107	.0430083	.0033395	-.000302	.0339109	.0500405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011952**	**-.025808**	**.0013957**	**.0002425**	**40.14529**	**.0016836**	**.0260214**
Stddev	.0009291	.005348	.0002394	.0008094	.11596	.0033303	.0002853
%RSD	77.73955	20.72160	17.15025	333.7678	.2888542	197.8120	1.096412
#1	.0021896	-.026558	.0015273	.0007309	40.17142	-.001539	.0257226
#2	.0010468	-.030742	.0015403	-.000692	40.24596	.001479	.0260507
#3	.0003492	-.020125	.0011194	.000688	40.01849	.005112	.0262909

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.077224**	**.0945626**	**.0007220**	**-.007875**	**.0009295**	**.6526481**	**.0049766**
Stddev	.014304	.0011031	.0002345	.000386	.0008714	.0134281	.0017901
%RSD	18.52248	1.166527	32.48139	4.905167	93.75136	2.057486	35.97044
#1	-.084996	.0933010	.0005587	-.008305	.0017759	.6448371	.0031173
#2	-.085959	.0950420	.0006166	-.007762	.0009776	.6681534	.0051242
#3	-.060717	.0953449	.0009907	-.007557	.0000350	.6449537	.0066884

Sample Name: Q3444-03 Acquired: 10/24/2025 18:46:09 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0358113	-.004562	.0000691
Stddev	.0016157	.001177	.0000506
%RSD	4.511816	25.80081	73.20262
#1	.0353255	-.003607	.0001272
#2	.0376141	-.004202	.0000346
#3	.0344941	-.005877	.0000456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5290.167	86134.09	6772.640	4028.768	6542.792
Stddev	5.675	117.14	16.231	10.669	9.179
%RSD	.1072709	.1359928	.2396619	.2648309	.1402856
#1	5285.764	86253.13	6782.409	4017.077	6534.911
#2	5296.571	86018.95	6781.607	4031.246	6552.870
#3	5288.166	86130.20	6753.903	4037.980	6540.594

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-04 Acquired: 10/24/2025 18:50:28 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0003789**	**-.001561**	**.0065273**	**-.002783**	**.0040762**	**.0427558**
Stddev	.0006650	.001446	.0013253	.001250	.0026558	.0164296
%RSD	175.5173	92.68089	20.30326	44.90946	65.15505	38.42668
#1	-.000352	-.002603	.0074724	-.002606	.0038599	.0410467
#2	.000540	.000091	.0050124	-.001631	.0015351	.0599732
#3	.000949	-.002169	.0070970	-.004111	.0068335	.0272475

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2266143**	**.0003628**	**-.000006**	**250.0858**	**.0022778**	**-.000157**
Stddev	.0014411	.0000283	.000071	1.1138	.0002798	.000175
%RSD	.6359338	7.804114	1150.179	.4453547	12.28160	111.7145
#1	.2256159	.0003949	.000072	249.2769	.0019624	-.000323
#2	.2282665	.0003521	-.000024	251.3562	.0023750	.000026
#3	.2259606	.0003413	-.000067	249.6245	.0024960	-.000173

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065361**	**.3304824**	**.8654379**	**52.14242**	**.0007793**	**.0002258**
Stddev	.0004494	.0033507	.0090358	.30016	.0001879	.0005002
%RSD	6.875477	1.013869	1.044075	.5756500	24.11186	221.5556
#1	.0065779	.3327952	.8553757	51.85631	.0006750	-.000336
#2	.0060672	.3320122	.8728587	52.45488	.0006667	.000390
#3	.0069631	.3266399	.8680793	52.11606	.0009963	.000623

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**197.2479**	**.0013267**	**.0256284**	**4.480134**	**.0795847**	**.0088689**
Stddev	1.0448	.0013427	.0003097	.077932	.0005445	.0002671
%RSD	.5296818	101.2038	1.208541	1.739497	.6842237	3.012081
#1	197.0910	.0000885	.0252712	4.564662	.0798715	.0091709
#2	196.2905	.0027539	.0258221	4.411138	.0799258	.0087728
#3	198.3623	.0011377	.0257920	4.464601	.0789567	.0086632

Sample Name: Q3444-04 Acquired: 10/24/2025 18:50:28 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.011107	-.007896	F 18.04154	.0058710	F 14.59026	-.030236
Stddev	.001085	.001179	.10948	.0020757	.16687	.000999
%RSD	9.770013	14.92768	.6068102	35.35576	1.143699	3.303300
#1	-.010552	-.007989	18.16782	.0071228	14.40362	-.029502
#2	-.010412	-.009026	17.97334	.0034750	14.64215	-.031374
#3	-.012358	-.006674	17.98346	.0070153	14.72503	-.029833

Elem	Sr4077
Units	ppm
Avg	.4961093
Stddev	.0021942
%RSD	.4422734
#1	.4935785
#2	.4974781
#3	.4972712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5077.409	82640.92	6858.529	3861.964	5847.844
Stddev	7.805	219.70	46.275	5.544	8.884
%RSD	.1537297	.2658451	.6747044	.1435588	.1519125
#1	5071.474	82387.72	6876.952	3862.157	5857.957
#2	5086.251	82753.86	6805.880	3867.408	5841.297
#3	5074.501	82781.17	6892.754	3856.325	5844.279

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-05 Acquired: 10/24/2025 18:54:42 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**-.001797**	**.0004199**	**.0022847**	**-.000124**	**.0041921**	**.0477031**
Stddev	.001972	.0009687	.0013472	.003243	.0005558	.0119928
%RSD	109.7632	230.7108	58.96476	2614.999	13.25713	25.14055
#1	-.002475	-.000600	.0007454	.000397	.0035559	.0606999
#2	.000425	.000533	.0032485	.002827	.0044370	.0370646
#3	-.003340	.001327	.0028602	-.003597	.0045833	.0453448

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0718297**	**-.000171**	**-.000023**	**193.4748**	**.0023080**	**.0003238**
Stddev	.0019376	.000071	.000080	.2353	.0003596	.0000963
%RSD	2.697481	41.47819	343.0403	.1215960	15.58163	29.74804
#1	.0740482	-.000093	-.000092	193.2298	.0019673	.0002868
#2	.0704692	-.000232	-.000042	193.4956	.0022727	.0002515
#3	.0709719	-.000189	.000064	193.6989	.0026839	.0004331

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0356660**	**.0208319**	**.0010183**	**78.17697**	**.0017617**	**.0001463**
Stddev	.0005127	.0014449	.0006133	.16236	.0004433	.0002719
%RSD	1.437473	6.935917	60.22583	.2076869	25.16126	185.7865
#1	.0358528	.0223361	.0010450	78.18802	.0014154	-.000110
#2	.0360591	.0194547	.0003921	78.00937	.0022613	.000118
#3	.0350861	.0207049	.0016178	78.33353	.0016085	.000431

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**288.1139**	**.0017775**	**.0494025**	**6.458928**	**.0809357**	**.0049802**
Stddev	2.4373	.0017300	.0001253	.034287	.0008787	.0000912
%RSD	.8459476	97.32509	.2536290	.5308494	1.085627	1.831170
#1	285.9810	.0035496	.0494712	6.472620	.0800318	.0049151
#2	287.5903	.0000930	.0492579	6.419911	.0817867	.0050844
#3	290.7705	.0016898	.0494785	6.484254	.0809886	.0049411

Sample Name: Q3444-05 Acquired: 10/24/2025 18:54:42 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.014310	-.005433	F 15.78098	.0105427	F 16.10525	-.027840
Stddev	.000766	.001357	.03008	.0004016	.09075	.000784
%RSD	5.351748	24.98312	.1905968	3.809112	.5634661	2.814880
#1	-.013469	-.006819	15.81474	.0103932	16.15678	-.028724
#2	-.014967	-.005373	15.77117	.0102374	16.00047	-.027564
#3	-.014494	-.004106	15.75703	.0109976	16.15850	-.027231

Elem	Sr4077
Units	ppm
Avg	.3170361
Stddev	.0009252
%RSD	.2918180
#1	.3161770
#2	.3180156
#3	.3169158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4910.724	79120.72	6461.511	3781.025	5627.120
Stddev	6.307	162.92	23.776	11.132	2.670
%RSD	.1284361	.2059148	.3679604	.2944084	.0474401
#1	4907.109	78943.37	6488.661	3784.331	5624.701
#2	4918.007	79263.75	6444.410	3790.129	5629.984
#3	4907.056	79155.03	6451.461	3768.615	5626.675

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06 Acquired: 10/24/2025 18:59:05 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**-.001233**	**-.004718**	**.0051168**	**.0014693**	**.0047147**	**.0332250**
Stddev	.001604	.002932	.0008019	.0008674	.0011187	.0021876
%RSD	130.0868	62.14002	15.67244	59.03871	23.72854	6.584105
#1	-.003075	-.001333	.0042854	.0017832	.0051508	.0310014
#2	-.000146	-.006465	.0058856	.0021360	.0055496	.0332989
#3	-.000478	-.006357	.0051794	.0004886	.0034436	.0353746

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0559987**	**-.000212**	**.0000475**	**204.5107**	**.0046387**	**.0001383**
Stddev	.0009287	.000010	.0001051	1.5808	.0001620	.0001600
%RSD	1.658426	4.515000	221.4212	.7729458	3.491964	115.6591
#1	.0559792	-.000223	-.000070	206.3292	.0047715	.0000249
#2	.0550799	-.000205	.000132	203.4649	.0046865	.0003212
#3	.0569370	-.000207	.000081	203.7380	.0044582	.0000688

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0245288**	**.2847855**	**.0030524**	**91.59095**	**.0035431**	**-.000386**
Stddev	.0004437	.0042951	.0004705	.83200	.0004336	.000081
%RSD	1.809013	1.508200	15.41311	.9083813	12.23904	20.85019
#1	.0250238	.2838749	.0034316	92.54164	.0033137	-.000479
#2	.0243958	.2894630	.0031996	90.99575	.0032723	-.000347
#3	.0241668	.2810188	.0025259	91.23547	.0040433	-.000332

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**203.5053**	**.0024812**	**.1147621**	**4.515785**	**.0589241**	**.0080433**
Stddev	1.2913	.0046840	.0003987	.035803	.0003264	.0001149
%RSD	.6345303	188.7764	.3473791	.7928498	.5539717	1.428236
#1	203.3211	.0074066	.1152164	4.533432	.0591056	.0080986
#2	204.8788	.0019538	.1144709	4.539339	.0585472	.0081200
#3	202.3159	-.001917	.1145989	4.474584	.0591193	.0079112

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06 Acquired: 10/24/2025 18:59:05 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.013676	-.007797	F 15.56957	.0186599	F 15.72164	-.031291
Stddev	.000315	.001397	.04798	.0003705	.16402	.000461
%RSD	2.299635	17.92045	.3081430	1.985588	1.043244	1.471899
#1	-.013538	-.006270	15.61394	.0190698	15.79052	-.030838
#2	-.013454	-.009011	15.57611	.0183488	15.83999	-.031758
#3	-.014036	-.008110	15.51866	.0185610	15.53442	-.031276

Elem	Sr4077
Units	ppm
Avg	.3114643
Stddev	.0021165
%RSD	.6795220
#1	.3138378
#2	.3107818
#3	.3097733

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5025.958	81285.62	6581.851	3903.419	5793.236
Stddev	43.373	219.97	69.305	33.346	47.441
%RSD	.8629755	.2706141	1.052968	.8542801	.8189028
#1	4988.265	81055.61	6508.098	3864.960	5754.286
#2	5016.247	81493.94	6645.627	3921.018	5779.351
#3	5073.364	81307.30	6591.827	3924.279	5846.070

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06DUP Acquired: 10/24/2025 19:03:17 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**-.000351**	**.0005742**	**.0044446**	**.0007572**	**.0035191**	**.0402438**
Stddev	.002961	.0016448	.0009913	.0020296	.0015551	.0132062
%RSD	842.5969	286.4430	22.30396	268.0420	44.19119	32.81538
#1	-.003710	.0003015	.0033853	-.001174	.0030753	.0514963
#2	.000775	-.000917	.0045987	.000573	.0022341	.0257047
#3	.001881	.002338	.0053499	.002873	.0052479	.0435305

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0601293**	**-.000167**	**.0000620**	**209.0772**	**.0046760**	**.0002765**
Stddev	.0003826	.000024	.0000251	.2707	.0001470	.0000623
%RSD	.6363510	14.55967	40.44272	.1294527	3.143692	22.51854
#1	.0605661	-.000195	.0000895	208.8243	.0045144	.0002236
#2	.0598536	-.000154	.0000404	209.0446	.0048019	.0003451
#3	.0599681	-.000152	.0000560	209.3626	.0047117	.0002608

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255573**	**.2841186**	**.0028913**	**94.44897**	**.0035426**	**.0005516**
Stddev	.0002802	.0092657	.0006010	.42816	.0003939	.0003188
%RSD	1.096493	3.261222	20.78469	.4533233	11.11875	57.79264
#1	.0253017	.2738746	.0035622	94.14006	.0039938	.0004197
#2	.0255133	.2865666	.0027094	94.93772	.0033665	.0009151
#3	.0258570	.2919144	.0024024	94.26914	.0032675	.0003200

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**205.9360**	**.0011497**	**.1172150**	**4.505817**	**.0590321**	**.0085717**
Stddev	.8613	.0026583	.0004284	.014024	.0008184	.0003438
%RSD	.4182307	231.2232	.3655001	.3112477	1.386379	4.010508
#1	205.5091	.0027368	.1167281	4.502392	.0584457	.0089663
#2	205.3715	-.001919	.1173828	4.521237	.0599671	.0083372
#3	206.9274	.002632	.1175341	4.493823	.0586834	.0084115

Sample Name: Q3444-06DUP Acquired: 10/24/2025 19:03:17 Type: Unk
Method: 6010-200.7 NEW(v308) 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	-.012964	-.007669	F 15.95011	.0206350	F 16.08827	-.033601
Stddev	.000573	.000253	.15250	.0025291	.07272	.001580
%RSD	4.422624	3.302348	.9561156	12.25629	.4520153	4.703287
#1	-.012305	-.007936	15.77804	.0177493	16.13846	-.032179
#2	-.013346	-.007432	16.00371	.0224659	16.00487	-.035303
#3	-.013241	-.007639	16.06857	.0216899	16.12147	-.033320

Elem	Sr4077
Units	ppm
Avg	.3140380
Stddev	.0009352
%RSD	.2978023
#1	.3147732
#2	.3129854
#3	.3143555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4902.609	79437.52	6430.186	3773.048	5673.239
Stddev	13.914	490.56	25.277	16.452	17.393
%RSD	.2838022	.6175412	.3931020	.4360531	.3065742
#1	4897.759	80001.85	6436.745	3786.031	5659.450
#2	4891.769	79112.95	6402.276	3754.546	5667.489
#3	4918.299	79197.77	6451.537	3778.567	5692.779

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06LX5 Acquired: 10/24/2025 19:07:30 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0006009**	**.0015063**	**.0021898**	**.0030279**	**.0007028**	**.0000974**	**.0186004**
Stddev	.0013555	.0026463	.0011087	.0013588	.0007893	.0035785	.0019719
%RSD	225.5995	175.6793	50.63135	44.87558	112.3036	3673.890	10.60143
#1	.0017619	.0005971	.0034091	.0036868	.0005313	.0008719	.0165135
#2	-.000889	.0044873	.0012422	.0014653	.0000134	.0032253	.0188551
#3	.000929	-.000565	.0019180	.0039315	.0015638	-.003805	.0204326

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000080**	**.0000386**	**42.81041**	**.0008060**	**.0002487**	**.0071584**	**.0561413**
Stddev	.000045	.0000540	.18264	.0000651	.0002433	.0002044	.0087131
%RSD	56.20844	139.9933	.4266249	8.071893	97.82619	2.855712	15.51994
#1	-.000065	.0000034	42.60284	.0007310	.0001180	.0069233	.0466969
#2	-.000044	.0001008	42.94649	.0008399	.0000987	.0072943	.0638670
#3	-.000130	.0000115	42.88191	.0008471	.0005294	.0072576	.0578601

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006439**	**19.34747**	**.0013229**	**.0005615**	**40.09644**	**-.002156**	**.0249387**
Stddev	.0003949	.07374	.0007830	.0004310	.23631	.002089	.0002374
%RSD	61.33150	.3811511	59.19152	76.75314	.5893430	96.88876	.9517518
#1	.0002358	19.26332	.0005354	.0004954	40.35724	-.004135	.0248367
#2	.0006716	19.37826	.0013319	.0010217	39.89655	.000028	.0247694
#3	.0010242	19.40082	.0021013	.0001674	40.03553	-.002362	.0252100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.438353**	**.0182198**	**.0020168**	**-.000933**	**-.001020**	**3.112780**	**.0015319**
Stddev	.057095	.0004531	.0002538	.000684	.001075	.028342	.0009574
%RSD	3.969499	2.487048	12.58283	73.38749	105.4420	.9104965	62.49973
#1	1.372641	.0179430	.0019938	-.000152	-.002202	3.139762	.0005286
#2	1.475825	.0179735	.0022813	-.001217	-.000758	3.083251	.0024356
#3	1.466594	.0187427	.0017754	-.001429	-.000100	3.115328	.0016315

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06LX5 Acquired: 10/24/2025 19:07:30 Type: Unk
Method: 6010-200.7 NEW(v308) 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	3.208370	.0031200	.0637821
Stddev	.021691	.0033843	.0004876
%RSD	.6760635	108.4720	.7644622
#1	3.233350	-.000624	.0633379
#2	3.194311	.004023	.0637047
#3	3.197448	.005961	.0643038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5220.688	83699.63	6564.719	3947.476	6262.842
Stddev	46.725	440.22	62.300	29.135	59.014
%RSD	.8949979	.5259487	.9490175	.7380577	.9422913
#1	5167.150	83770.04	6635.503	3948.783	6195.206
#2	5241.667	84100.39	6540.442	3975.935	6289.471
#3	5253.246	83228.44	6518.212	3917.710	6303.849

Sample Name: Q3444-06MS Acquired: 10/24/2025 19:11:46 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.8073792**	**1.804923**	**.9318763**	**1.960095**	**.8033421**	**2.012663**
Stddev	.0033273	.009177	.0012150	.006622	.0025084	.012606
%RSD	.4121141	.5084305	.1303853	.3378584	.3122480	.6263389
#1	.8086192	1.794973	.9317113	1.964246	.8020149	1.998465
#2	.8099085	1.813054	.9331654	1.963581	.8017762	2.016983
#3	.8036099	1.806742	.9307522	1.952458	.8062354	2.022541

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2481488**	**.2069834**	**.1945851**	**204.6301**	**.4202618**	**.1954002**
Stddev	.0026370	.0009053	.0001755	.5475	.0021817	.0003417
%RSD	1.062656	.4373596	.0901884	.2675790	.5191295	.1748683
#1	.2452149	.2065691	.1946045	204.1052	.4178648	.1952674
#2	.2503213	.2080217	.1947502	205.1978	.4207892	.1957884
#3	.2489102	.2063594	.1944008	204.5874	.4221315	.1951449

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3164557**	**3.214832**	**.1997746**	**94.01019**	**.4899315**	**.0752873**
Stddev	.0070565	.025266	.0014029	.26283	.0013901	.0005042
%RSD	2.229850	.7859320	.7022477	.2795729	.2837389	.6697324
#1	.3246036	3.186100	.1982913	93.71013	.4912714	.0758191
#2	.3123221	3.224811	.2010803	94.19960	.4884960	.0748161
#3	.3124416	3.233586	.1999520	94.12085	.4900270	.0752267

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**198.1261**	**.2975924**	**.3223885**	**14.51426**	**.3284044**	**.4309781**
Stddev	1.4180	.0009050	.0012668	.10106	.0019241	.0009641
%RSD	.7157304	.3041220	.3929562	.6962761	.5858961	.2237068
#1	196.4894	.2965483	.3233409	14.41211	.3284036	.4320617
#2	198.9878	.2981541	.3209508	14.51648	.3303289	.4306573
#3	198.9010	.2980747	.3228739	14.61419	.3264807	.4302152

Sample Name: Q3444-06MS Acquired: 10/24/2025 19:11:46 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.6940536	.1834096	F 16.63322	6.108118	F 16.02518	.1633693
Stddev	.0016345	.0013618	.05572	.018518	.03095	.0008359
%RSD	.2354944	.7425068	.3350022	.3031773	.1931604	.5116728
#1	.6947202	.1818620	16.57241	6.099268	16.03108	.1627245
#2	.6952495	.1839423	16.64544	6.129401	16.05276	.1643138
#3	.6921913	.1844246	16.68182	6.095686	15.99170	.1630697

Elem	Sr4077
Units	ppm
Avg	.4902689
Stddev	.0021590
%RSD	.4403625
#1	.4880335
#2	.4923422
#3	.4904311

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4960.153	79897.29	6548.467	3754.519	5676.972
Stddev	13.960	484.44	35.844	22.053	7.446
%RSD	.2814472	.6063283	.5473574	.5873764	.1311608
#1	4945.790	80454.68	6582.367	3774.741	5670.341
#2	4960.994	79659.44	6510.954	3757.812	5675.548
#3	4973.673	79577.75	6552.080	3731.005	5685.027

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06MSD Acquired: 10/24/2025 19:15:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.7936357**	**1.765966**	**.9235916**	**1.935744**	**.8300407**	**1.987215**
Stddev	.0038852	.020285	.0002112	.006112	.0007689	.016861
%RSD	.4895456	1.148653	.0228682	.3157412	.0926298	.8484739
#1	.7980618	1.766673	.9238349	1.942245	.8299774	2.005788
#2	.7907883	1.785888	.9234845	1.934871	.8293055	1.972872
#3	.7920571	1.745337	.9234553	1.930115	.8308393	1.982986

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2497157**	**.2054946**	**.1921882**	**211.1591**	**.4062251**	**.1932867**
Stddev	.0005300	.0008442	.0001756	.7065	.0007928	.0003535
%RSD	.2122530	.4108253	.0913717	.3345908	.1951583	.1828939
#1	.2500809	.2059873	.1920732	211.9180	.4064120	.1931230
#2	.2491078	.2045198	.1923903	211.0390	.4053555	.1936924
#3	.2499584	.2059768	.1921011	210.5203	.4069077	.1930448

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3107683**	**3.193687**	**.2003720**	**96.09102**	**.4844558**	**.0736750**
Stddev	.0001216	.006632	.0011851	.34041	.0006691	.0003584
%RSD	.0391155	.2076466	.5914496	.3542535	.1381056	.4864026
#1	.3108760	3.201253	.2001165	96.47260	.4850675	.0735874
#2	.3107924	3.190927	.2016641	95.98195	.4845586	.0740690
#3	.3106365	3.188881	.1993356	95.81852	.4837413	.0733685

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**203.8846**	**.2936485**	**.3195849**	**14.43039**	**.3303761**	**.4437102**
Stddev	.5920	.0036520	.0003342	.04596	.0024007	.0004198
%RSD	.2903456	1.243660	.1045813	.3184801	.7266639	.0946089
#1	203.8741	.2941460	.3193433	14.43958	.3325130	.4439457
#2	204.4817	.2897733	.3194450	14.47106	.3277784	.4432255
#3	203.2979	.2970262	.3199663	14.38053	.3308368	.4439593

Sample Name: Q3444-06MSD Acquired: 10/24/2025 19:15:44 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.7158923	.1939549	F 16.67158	6.143677	F 16.49152	.1637503
Stddev	.0004712	.0009378	.03938	.008413	.02642	.0003302
%RSD	.0658215	.4835139	.2362056	.1369444	.1601932	.2016737
#1	.7164257	.1934040	16.66866	6.136364	16.47222	.1637875
#2	.7155326	.1950377	16.71234	6.141796	16.48072	.1640604
#3	.7157186	.1934230	16.63375	6.152872	16.52163	.1634031

Elem	Sr4077
Units	ppm
Avg	.5079320
Stddev	.0015103
%RSD	.2973475
#1	.5095377
#2	.5077185
#3	.5065397

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4959.496	81474.91	6522.079	3902.141	5652.789
Stddev	4.747	218.65	44.164	8.921	5.727
%RSD	.0957150	.2683684	.6771395	.2286053	.1013087
#1	4955.547	81401.93	6501.298	3892.598	5655.639
#2	4958.177	81720.71	6572.799	3910.269	5646.196
#3	4964.763	81302.07	6492.138	3903.557	5656.532

Sample Name: CCV04 Acquired: 10/24/2025 19:19:43 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.828514**	**4.750388**	**4.938443**	**4.766302**	**4.814072**	**9.946799**	**10.20860**
Stddev	.007232	.158339	.006070	.016422	.005602	.042115	.05430
%RSD	.1497857	3.333178	.1229049	.3445445	.1163618	.4233982	.5318605
#1	4.835995	4.924646	4.936762	4.778369	4.807718	9.898410	10.18485
#2	4.827988	4.615333	4.945176	4.747600	4.816201	9.966803	10.17023
#3	4.821559	4.711186	4.933391	4.772936	4.818298	9.975183	10.27073

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2651833**	**2.490958**	**25.17372**	**1.008111**	**2.468042**	**1.239960**	**4.844027**
Stddev	.0019538	.002092	.06135	.001422	.003491	.000277	.050183
%RSD	.7367855	.0839648	.2437201	.1410488	.1414563	.0223721	1.035970
#1	.2629550	2.492146	25.18418	1.007401	2.465972	1.239707	4.896636
#2	.2659915	2.492186	25.22916	1.007183	2.472073	1.239917	4.838757
#3	.2666034	2.488543	25.10780	1.009748	2.466081	1.240256	4.796687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.557878**	**25.23483**	**2.478975**	**1.229997**	**24.53539**	**2.482911**	**2.430686**
Stddev	.018738	.04782	.002998	.002937	.38163	.003878	.000998
%RSD	.7325673	.1895126	.1209564	.2388173	1.555438	.1562010	.0410772
#1	2.557263	25.24874	2.477880	1.227317	24.92441	2.478564	2.431463
#2	2.576915	25.18160	2.482367	1.229535	24.52017	2.484149	2.431034
#3	2.539454	25.27416	2.476678	1.233138	24.16160	2.486018	2.429560

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.83875**	**5.235551**	**4.953983**	**4.966324**	**4.997779**	**4.723850**	**5.044567**
Stddev	.21448	.044666	.007865	.011780	.022795	.012907	.027583
%RSD	.8997131	.8531342	.1587657	.2371893	.4560967	.2732291	.5467908
#1	24.06249	5.184281	4.960078	4.979855	5.009548	4.714931	5.076313
#2	23.81883	5.256322	4.945104	4.958363	5.012285	4.717968	5.030927
#3	23.63492	5.266049	4.956766	4.960752	4.971506	4.738650	5.026462

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV04 Acquired: 10/24/2025 19:19:43 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.753641**	**4.836717**	**4.990343**
Stddev	.031675	.024774	.056495
%RSD	.6663411	.5122135	1.132093
#1	4.789952	4.851510	5.032005
#2	4.731681	4.850526	5.012984
#3	4.739291	4.808116	4.926039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5435.166**	**86990.19**	**6671.045**	**4244.243**	**6231.846**
Stddev	2.899	144.04	34.636	11.146	9.216
%RSD	.0533446	.1655768	.5191935	.2626159	.1478898
#1	5438.465	86848.86	6710.264	4234.895	6233.452
#2	5434.009	86984.92	6644.651	4241.256	6221.932
#3	5433.024	87136.78	6658.220	4256.578	6240.154

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB04 Acquired: 10/24/2025 19:23:48 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001199**	**.0017453**	**.0009205**	**.0031934**	**-.000882**	**-.001590**
Stddev	.0017243	.0018086	.0008891	.0018849	.001013	.004552
%RSD	1437.865	103.6233	96.59241	59.02279	114.7930	286.3411
#1	-.001722	.0030059	-.000103	.0039067	-.001836	-.006843
#2	.001696	.0025570	.001498	.0010561	.000181	.000871
#3	.000386	-.000327	.001367	.0046176	-.000991	.001202

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000092**	**-.000044**	**.0000469**	**.0104980**	**-.000024**	**.0000198**
Stddev	.002384	.000029	.0000210	.0170868	.000265	.0001482
%RSD	2598.758	65.09510	44.77807	162.7621	1094.407	749.8539
#1	.002085	-.000012	.0000231	-.005135	.000116	.0001697
#2	-.002641	-.000052	.0000548	.028739	.000141	-.000127
#3	.000281	-.000068	.0000629	.007890	-.000330	.000016

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005588**	**.0077050**	**.0006101**	**-.017484**	**.0000640**	**.0007768**
Stddev	.0001966	.0018398	.0004898	.026395	.0000660	.0004799
%RSD	35.17529	23.87795	80.28308	150.9686	103.0431	61.78083
#1	.0007067	.0060322	.0004301	-.031603	.0000649	.0010057
#2	.0003358	.0074072	.0002357	.012968	.0001296	.0002253
#3	.0006338	.0096755	.0011644	-.033816	-.000002	.0010996

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9990747**	**-.001305**	**.0007525**	**.5228735**	**.0114579**	**.0005188**
Stddev	.0386958	.002279	.0000456	.0479356	.0005658	.0001186
%RSD	3.873169	174.5898	6.059519	9.167722	4.938271	22.86032
#1	.9551381	.000470	.0007128	.4831682	.0114712	.0006508
#2	1.014004	-.000511	.0008023	.5093280	.0120170	.0004847
#3	1.028082	-.003875	.0007424	.5761243	.0108856	.0004210

Sample Name: CCB04 Acquired: 10/24/2025 19:23:48 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016598	-.000621	.0009437	-.000856	F .0220219	.0023389
Stddev	.0006057	.002320	.0046995	.000271	.0018657	.0020499
%RSD	36.49105	373.8206	497.9875	31.60823	8.472180	87.64124
#1	.0010128	.000858	.0036307	-.001051	.0220798	.0040226
#2	.0017535	.000575	-.004483	-.000547	.0201279	.0029378
#3	.0022132	-.003295	.003683	-.000971	.0238580	.0000563

Elem	Sr4077
Units	ppm
Avg	.0001554
Stddev	.0001530
%RSD	98.46254
#1	.0002444
#2	-.000021
#3	.000243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5622.608	90702.10	6965.928	4294.594	7213.211
Stddev	58.404	201.63	15.927	28.282	64.913
%RSD	1.038735	.2222983	.2286400	.6585572	.8999205
#1	5689.761	90919.66	6947.573	4302.555	7288.103
#2	5583.656	90665.11	6974.106	4263.185	7178.421
#3	5594.408	90521.53	6976.104	4318.043	7173.109

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3444-06A Acquired: 10/24/2025 19:28:06 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.7961882**	**1.772508**	**.9233347**	**1.928586**	**.7881599**	**2.005789**
Stddev	.0007070	.016170	.0034737	.003797	.0027650	.026418
%RSD	.0888049	.9122467	.3762070	.1968924	.3508207	1.317102
#1	.7962523	1.790336	.9262796	1.925934	.7913490	1.997434
#2	.7968611	1.758790	.9195039	1.932936	.7864315	2.035375
#3	.7954513	1.768397	.9242207	1.926889	.7866993	1.984558

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2411675**	**.2047490**	**.1923100**	**198.5694**	**.4101553**	**.1929716**
Stddev	.0015192	.0005965	.0003420	.4354	.0027200	.0004707
%RSD	.6299183	.2913340	.1778158	.2192932	.6631588	.2439061
#1	.2425537	.2044352	.1926376	198.3034	.4122843	.1934284
#2	.2395434	.2054369	.1919553	198.3330	.4110906	.1929984
#3	.2414055	.2043749	.1923371	199.0719	.4070911	.1924882

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3087915**	**3.170998**	**.1948583**	**91.61139**	**.4841452**	**.0720075**
Stddev	.0004713	.026794	.0011152	.29652	.0016791	.0002097
%RSD	.1526352	.8449813	.5723183	.3236768	.3468069	.2911683
#1	.3089582	3.180889	.1942776	91.26900	.4839306	.0718203
#2	.3082594	3.140664	.1941532	91.78094	.4825838	.0722340
#3	.3091568	3.191440	.1961440	91.78424	.4859212	.0719681

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**191.1895**	**.2962079**	**.3149041**	**14.15638**	**.3292968**	**.4250507**
Stddev	1.7005	.0007691	.0018456	.12121	.0024693	.0004101
%RSD	.8894296	.2596446	.5860919	.8562262	.7498783	.0964914
#1	192.2311	.2961608	.3168075	14.29515	.3266294	.4249585
#2	189.2271	.2969994	.3147825	14.07123	.3315030	.4246945
#3	192.1101	.2954634	.3131222	14.10275	.3297578	.4254991

Sample Name: Q3444-06A Acquired: 10/24/2025 19:28:06 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.6791029	.1825981	F 16.16690	6.005328	F 15.44684	.1632982
Stddev	.0013929	.0011454	.07434	.006867	.02129	.0016478
%RSD	.2051115	.6272632	.4598253	.1143477	.1378323	1.009084
#1	.6774952	.1827053	16.25239	6.012477	15.42720	.1638628
#2	.6798658	.1814029	16.13079	5.998783	15.46946	.1614423
#3	.6799477	.1836861	16.11751	6.004724	15.44384	.1645895

Elem	Sr4077
Units	ppm
Avg	.4779312
Stddev	.0034058
%RSD	.7126067
#1	.4770962
#2	.4750205
#3	.4816768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5069.402	81881.71	6692.406	3833.273	5827.608
Stddev	9.670	299.70	21.913	16.890	13.160
%RSD	.1907476	.3660121	.3274355	.4406082	.2258200
#1	5061.312	81672.33	6714.720	3817.288	5814.596
#2	5080.112	81747.79	6670.917	3831.588	5840.911
#3	5066.782	82225.02	6691.580	3850.941	5827.316

Sample Name: Q3434-02DLX5 Acquired: 10/24/2025 19:32:05 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.0053039**	**.0016235**	**.0320040**	**-.001297**	**.0027075**	**2.001209**
Stddev	.0036102	.0020231	.0006685	.000994	.0016634	.086007
%RSD	68.06690	124.6190	2.088829	76.62729	61.43531	4.297731
#1	.0076276	.0039246	.0318233	-.000489	.0010461	2.082439
#2	.0011447	.0001243	.0314444	-.002407	.0027037	1.911113
#3	.0071394	.0008214	.0327443	-.000995	.0043728	2.010074

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1023888**	**.0001021**	**.0004167**	**34.86450**	**.0212751**	**.0013710**
Stddev	.0029980	.0000766	.0000887	.97977	.0001661	.0000949
%RSD	2.928055	75.04320	21.28977	2.810231	.7808689	6.920769
#1	.1056949	.0000155	.0003569	35.80892	.0213128	.0014223
#2	.0998467	.0001299	.0005186	33.85284	.0210934	.0014292
#3	.1016247	.0001610	.0003745	34.93175	.0214192	.0012615

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227059**	**4.463706**	**.2499274**	**105.7928**	**.0061203**	**-.000334**
Stddev	.0008767	.038084	.0080010	3.1097	.0001383	.000558
%RSD	3.860963	.8531871	3.201316	2.939431	2.259726	167.2677
#1	.0235814	4.477030	.2581471	108.6887	.0061005	.000208
#2	.0227081	4.420751	.2421647	102.5062	.0059930	-.000303
#3	.0218281	4.493338	.2494704	106.1836	.0062674	-.000906

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**994.7661**	**.0094019**	**.1231646**	**41.31491**	**.3858058**	**.0051552**
Stddev	18.5897	.0001068	.0008329	.36639	.0061334	.0000899
%RSD	1.868750	1.136102	.6762357	.8868144	1.589766	1.743491
#1	1015.636	.0092790	.1222325	41.33048	.3912349	.0052334
#2	979.983	.0094541	.1234254	40.94099	.3791527	.0050570
#3	988.679	.0094726	.1238359	41.67327	.3870300	.0051753

Sample Name: Q3434-02DLX5 Acquired: 10/24/2025 19:32:05 Type: Unk
Method: 6010-200.7 NEW(v308) 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	.0018964	.0643248	5.293469	.7076888	F 78.59658	.0249903
Stddev	.0002927	.0030399	.098908	.0028064	.69632	.0020907
%RSD	15.43232	4.725822	1.868485	.3965527	.8859413	8.366012
#1	.0018097	.0653198	5.345039	.7108397	79.39718	.0258268
#2	.0016569	.0609121	5.179434	.7067686	78.13193	.0226109
#3	.0022227	.0667425	5.355935	.7054580	78.26064	.0265332

Elem	Sr4077
Units	ppm
Avg	.5693889
Stddev	.0166767
%RSD	2.928879
#1	.5861510
#2	.5527989
#3	.5692168

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4979.513	73976.15	6721.366	3546.414	5471.357
Stddev	35.009	560.94	174.345	24.635	41.453
%RSD	.7030619	.7582718	2.593885	.6946519	.7576325
#1	4940.937	74040.98	6557.402	3552.733	5426.957
#2	5009.268	74501.87	6904.506	3567.273	5509.043
#3	4988.334	73385.62	6702.191	3519.234	5478.071

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3417-01DLX5 Acquired: 10/24/2025 19:36:26 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**.1368794**	**-.178682**	**-.003867**	**.5636205**	**.1235169**	**.1296048**	**-.014735**
Stddev	.0002259	.003055	.000897	.0137253	.0015878	.0090992	.002028
%RSD	.1650742	1.709491	23.20204	2.435199	1.285526	7.020686	13.76379
#1	.1370613	-.176877	-.003751	.5778394	.1238622	.1399403	-.012666
#2	.1369503	-.182209	-.004817	.5625732	.1217848	.1228006	-.014819
#3	.1366265	-.176961	-.003033	.5504488	.1249037	.1260736	-.016719

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003466**	**-.000177**	**.7509003**	**.0009020**	**.0025336**	**.0088821**	**8.300406**
Stddev	.0000550	.000048	.0104825	.0001803	.0000373	.0002463	.047496
%RSD	15.86819	27.05767	1.395987	19.98566	1.471200	2.772741	.5722075
#1	.0002835	-.000187	.7600575	.0009170	.0025090	.0087869	8.299589
#2	.0003843	-.000219	.7531768	.0007147	.0025765	.0086976	8.348305
#3	.0003719	-.000125	.7394667	.0010743	.0025154	.0091618	8.253324

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1605433**	**.1466273**	**.0072898**	**.0000990**	**4.858064**	**-.001437**	**.0390894**
Stddev	.0006416	.0283169	.0001023	.0002776	.022622	.000486	.0003790
%RSD	.3996399	19.31213	1.403781	280.5325	.4656652	33.80653	.9695393
#1	.1609184	.1155230	.0071832	.0003854	4.833655	-.001915	.0394321
#2	.1598025	.1709107	.0073872	-.000169	4.878326	-.001451	.0386824
#3	.1609090	.1534482	.0072991	.000080	4.862209	-.000944	.0391537

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.61658**	**.0331383**	**.0017325**	**.0773008**	**-.000377**	**.1733349**	**.5601521**
Stddev	.01722	.0012226	.0003680	.0007059	.000588	.0107928	.0058752
%RSD	.1622420	3.689264	21.23954	.9132296	156.0915	6.226546	1.048864
#1	10.63332	.0325956	.0018929	.0777900	.000007	.1845111	.5587227
#2	10.61750	.0345383	.0019931	.0764916	-.000084	.1725223	.5551235
#3	10.59891	.0322811	.0013116	.0776209	-.001054	.1629714	.5666102

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: Q3417-01DLX5 Acquired: 10/24/2025 19:36:26 Type: Unk
Method: 6010-200.7 NEW(v308) 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	1.535133	.0030446	-.005449
Stddev	.008293	.0012643	.000121
%RSD	.5402310	41.52572	2.214066
#1	1.526183	.0038638	-.005318
#2	1.536658	.0015885	-.005474
#3	1.542558	.0036814	-.005555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4966.096	82296.50	7359.528	3883.076	7047.890
Stddev	8.240	314.96	13.264	17.439	8.695
%RSD	.1659193	.3827097	.1802288	.4491109	.1233644
#1	4971.649	82184.29	7366.778	3865.070	7052.113
#2	4970.010	82053.01	7367.587	3884.271	7053.667
#3	4956.628	82652.19	7344.219	3899.887	7037.891

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV05 Acquired: 10/24/2025 20:06:47 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.800875**	**4.906092**	**4.892214**	**4.725940**	**4.737067**	**9.875027**	**9.904050**
Stddev	.015103	.033061	.002802	.010145	.004933	.021093	.020131
%RSD	.3145823	.6738682	.0572817	.2146753	.1041446	.2136043	.2032642
#1	4.810987	4.892767	4.895013	4.729345	4.739836	9.885089	9.926953
#2	4.783514	4.881774	4.892220	4.714530	4.731371	9.889207	9.896043
#3	4.808123	4.943736	4.889408	4.733944	4.739994	9.850787	9.889154

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2649608**	**2.478119**	**24.94405**	**1.008985**	**2.446994**	**1.230494**	**4.679831**
Stddev	.0007756	.001694	.06493	.001497	.001676	.002598	.018484
%RSD	.2927062	.0683466	.2602924	.1483770	.0685110	.2110941	.3949696
#1	.2656655	2.479258	25.01498	1.009200	2.447660	1.228475	4.700856
#2	.2650870	2.478927	24.92961	1.010363	2.448236	1.229583	4.672502
#3	.2641298	2.476173	24.88756	1.007392	2.445087	1.233424	4.666136

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.512790**	**25.20127**	**2.459421**	**1.213132**	**24.88221**	**2.450834**	**2.420643**
Stddev	.007741	.08821	.001952	.000341	.17804	.005484	.003180
%RSD	.3080712	.3500209	.0793856	.0280968	.7155508	.2237551	.1313710
#1	2.521617	25.23822	2.460247	1.213005	25.08760	2.447420	2.424031
#2	2.509594	25.26501	2.460825	1.213519	24.77153	2.457160	2.420175
#3	2.507158	25.10060	2.457192	1.212874	24.78752	2.447923	2.417723

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.90181**	**5.198637**	**4.913067**	**4.952394**	**4.936694**	**5.219615**	**5.053957**
Stddev	.12455	.007592	.007895	.005272	.017711	.028351	.010909
%RSD	.5210895	.1460304	.1606906	.1064521	.3587671	.5431563	.2158564
#1	24.02183	5.205984	4.918723	4.949705	4.955066	5.212672	5.057561
#2	23.91044	5.190822	4.904048	4.949009	4.935291	5.250792	5.062607
#3	23.77318	5.199106	4.916431	4.958468	4.919727	5.195380	5.041701

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCV05 Acquired: 10/24/2025 20:06:47 Type: Unk
Method: 6010-200.7 NEW(v308) 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	**4.748359**	**4.851021**	**4.914556**
Stddev	.014554	.016845	.033429
%RSD	.3064955	.3472540	.6801945
#1	4.762935	4.870433	4.952802
#2	4.733828	4.842391	4.899947
#3	4.748313	4.840239	4.890919

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5337.535**	**84828.57**	**6453.770**	**4103.958**	**6117.794**
Stddev	9.450	309.75	28.741	21.435	7.269
%RSD	.1770551	.3651450	.4453331	.5223114	.1188208
#1	5328.049	84848.34	6435.919	4097.668	6109.801
#2	5346.949	84509.41	6438.466	4086.370	6119.572
#3	5337.608	85127.96	6486.924	4127.834	6124.009

Reviewed By:jaswal
On:10/28/2025 3:16:27 PM
Inst Id :P4
LB :LB137662

Sample Name: CCB05 Acquired: 10/24/2025 20:10:50 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017168**	**.0005289**	**.0014671**	**.0011169**	**.0004427**	**-.008326**
Stddev	.0003539	.0006921	.0002708	.0013347	.0021480	.004370
%RSD	20.61393	130.8510	18.46065	119.5009	485.1742	52.48264
#1	.0020719	.0013208	.0013143	.0013380	.0016390	-.003714
#2	.0017144	.0000400	.0013071	-.000315	-.002037	-.012405
#3	.0013641	.0002259	.0017798	.002327	.001726	-.008860

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011458**	**-.000032**	**.0000110**	**.0068094**	**.0000167**	**.0001121**
Stddev	.0014516	.000056	.0000496	.0050521	.0001129	.0000313
%RSD	126.6956	177.4032	452.1980	74.19255	675.5180	27.96151
#1	.0001190	-.000019	-.000039	.0072238	.0000434	.0001168
#2	.0005117	-.000093	.000012	.0116414	-.000107	.0001408
#3	.0028065	.000017	.000060	.0015629	.000114	.0000787

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048181**	**.0029978**	**.0006277**	**-.022368**	**-.000137**	**.0005301**
Stddev	.0002366	.0113401	.0009238	.034256	.000297	.0004185
%RSD	4.911043	378.2788	147.1790	153.1508	217.3311	78.95207
#1	.0045830	-.009130	-.000398	-.009425	.000134	.0003189
#2	.0050562	.004786	.001393	-.061210	-.000090	.0010121
#3	.0048152	.013338	.000888	.003532	-.000454	.0002592

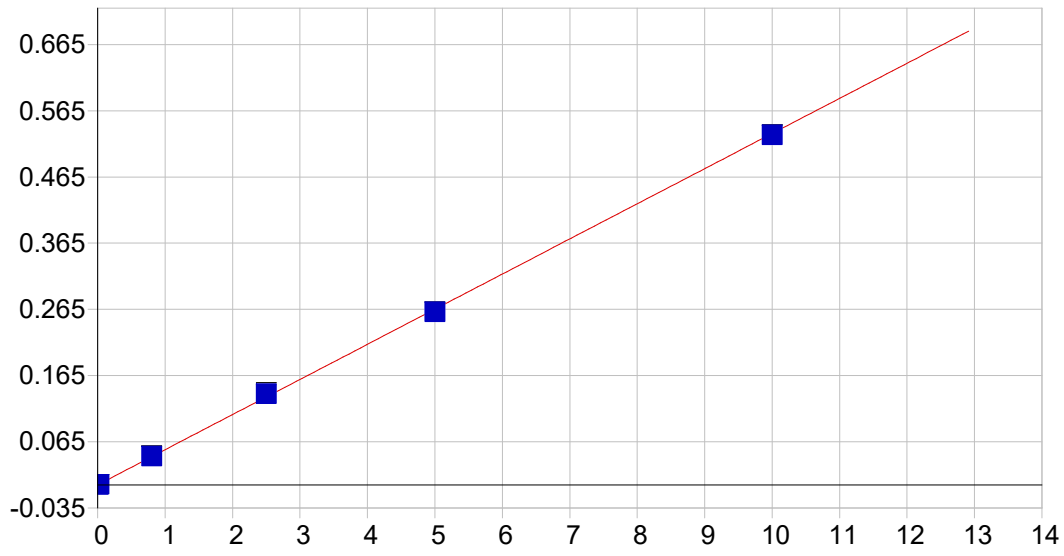
Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1.263720**	**-.000945**	**.0002712**	**.6051534**	**.0215364**	**.0006406**
Stddev	.041464	.002613	.0003116	.0240948	.0011177	.0001606
%RSD	3.281087	276.4822	114.8821	3.981600	5.189971	25.06450
#1	1.218376	-.001602	.0003163	.5773365	.0225449	.0007917
#2	1.273082	.001934	-.000060	.6185870	.0203346	.0006580
#3	1.299702	-.003167	.000558	.6195366	.0217296	.0004720

Sample Name: CCB05 Acquired: 10/24/2025 20:10:50 Type: Unk
Method: 6010-200.7 NEW(v308) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001630	.0018790	.0956398	-.001818	F .0322131	.0044047
Stddev	.0007929	.0016160	.0077018	.000576	.0014983	.0020896
%RSD	486.3576	86.00657	8.052960	31.70465	4.651133	47.44065
#1	-.000614	.0001604	.0896194	-.001404	.0339385	.0027401
#2	.000971	.0033679	.1043187	-.002476	.0314599	.0037242
#3	.000133	.0021087	.0929813	-.001575	.0312409	.0067497

Elem	Sr4077
Units	ppm
Avg	.0001213
Stddev	.0001119
%RSD	92.22468
#1	.0002486
#2	.0000384
#3	.0000770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5582.750	90854.45	6842.333	4282.939	7122.873
Stddev	10.664	541.35	43.960	17.340	20.976
%RSD	.1910159	.5958450	.6424764	.4048570	.2944854
#1	5589.204	91317.04	6832.054	4297.824	7141.362
#2	5570.441	90987.25	6890.523	4287.093	7100.079
#3	5588.605	90259.06	6804.424	4263.899	7127.179

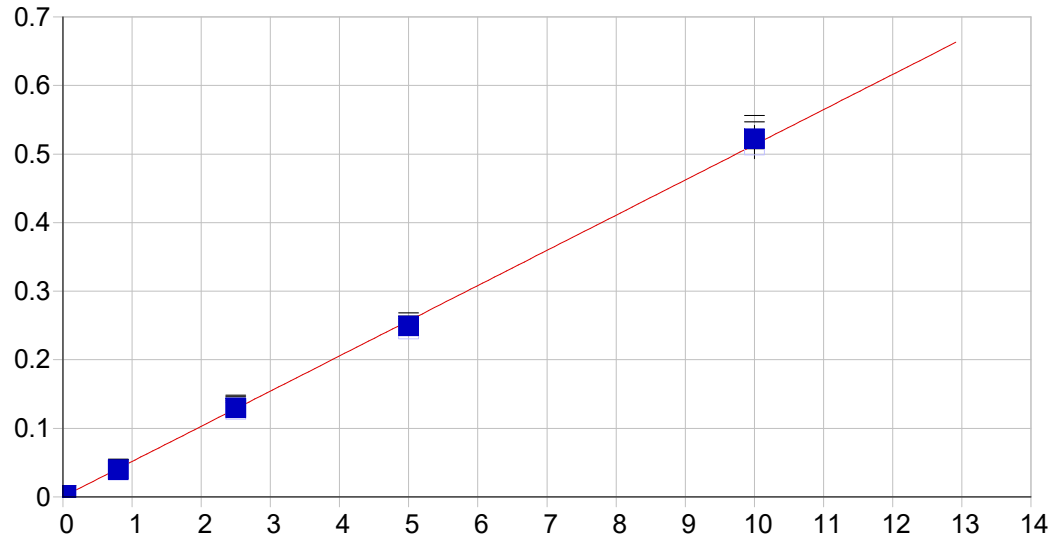


As 189.042 {479}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000061	Re-Slope:	1.000000
A1 (Gain):	0.053070	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.002115		
Predicted MQL:	0.007048		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.02000	.01944	-.001	-2.79	.00097	.000	1
S3	2.5000	2.5960	.096	3.84	.13757	.002	1
S4	5.0000	4.9205	-.080	-1.59	.26080	.000	1
S5	10.000	9.9645	-.035	-.355	.52822	.000	1
S2	.80000	.81954	.020	2.44	.04339	.000	1

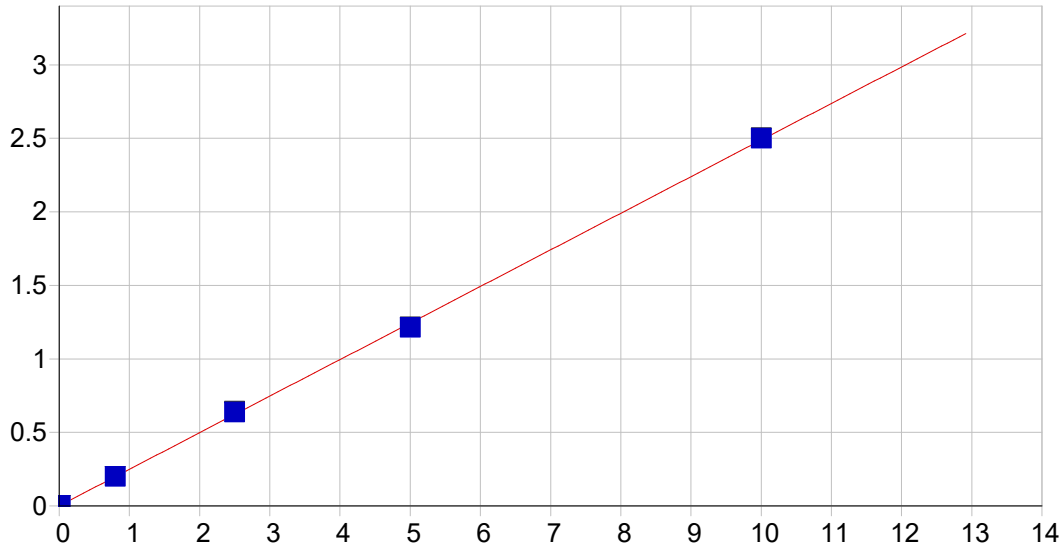


Tl 190.856 {477}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	0.051309	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999699	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.002306		
Predicted MQL:	0.007686		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00035	.000	1
S1	.04000	.03242	-.008	-19.0	.00189	.000	1
S3	2.5000	2.5248	.025	.991	.12756	.004	1
S4	5.0000	4.8529	-.147	-2.94	.24467	.004	1
S5	10.000	10.168	.168	1.68	.51270	.020	1
S2	.80000	.76181	-.038	-4.77	.03869	.001	1

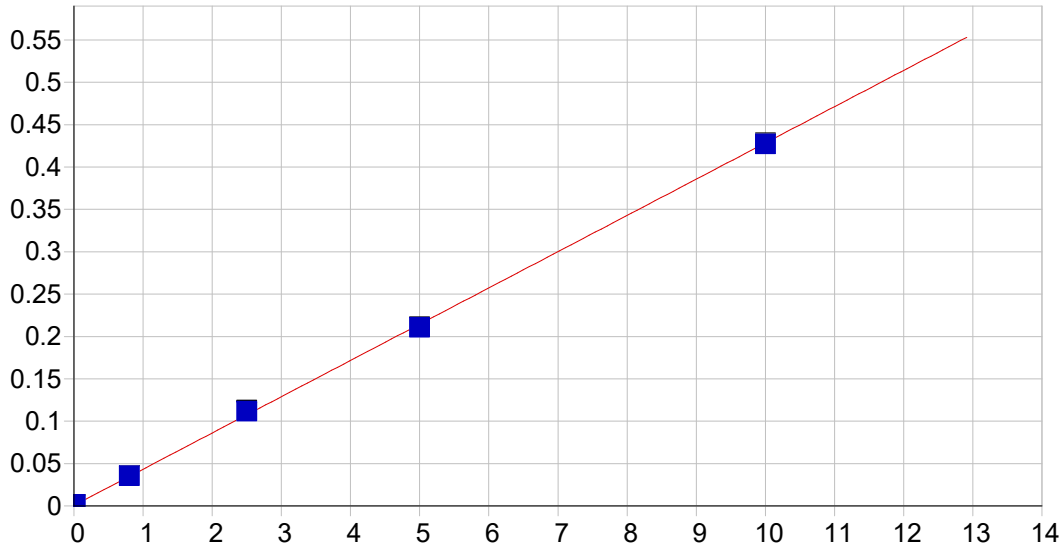


Pb 220.353 {453}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000170	Re-Slope:	1.000000
A1 (Gain):	0.248808	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.001065		
Predicted MQL:	0.003550		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00017	.000	1
S1	.01200	.01235	.000	2.88	.00318	.000	1
S3	2.5000	2.5652	.065	2.61	.63772	.005	1
S4	5.0000	4.8792	-.121	-2.42	1.2128	.002	1
S5	10.000	10.050	.050	.505	2.4981	.002	1
S2	.80000	.80475	.005	.594	.20018	.001	1

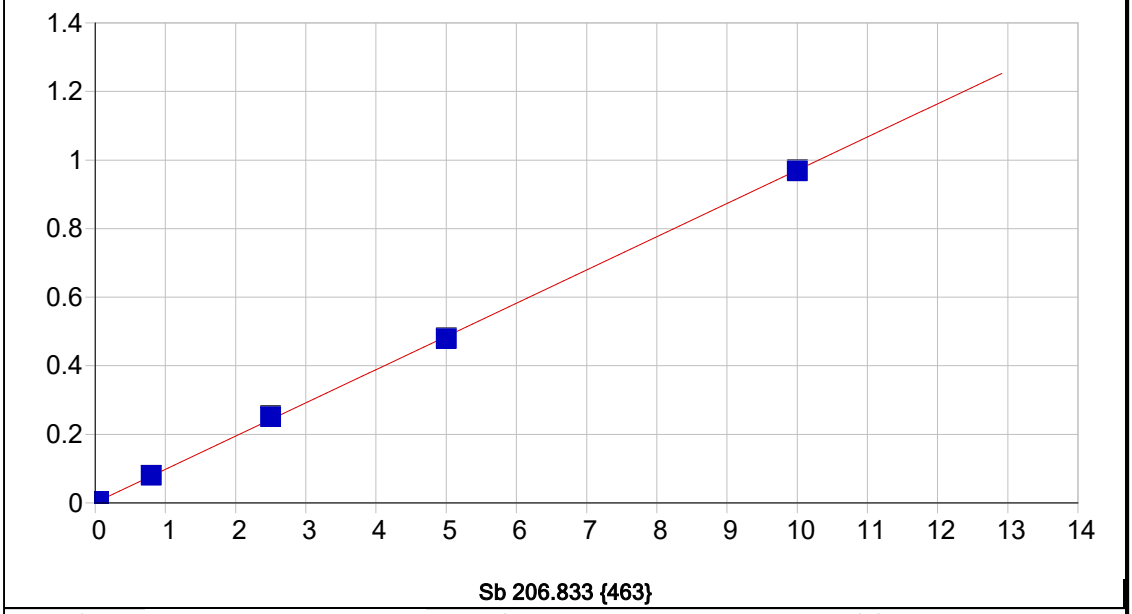


Se 196.090 {472}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000541	Re-Slope:	1.000000
A1 (Gain):	0.042792	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999842	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.003170		
Predicted MQL:	0.010566		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00054	.000	1
S1	.02000	.01835	-.002	-8.25	.00133	.000	1
S3	2.5000	2.5962	.096	3.85	.11161	.001	1
S4	5.0000	4.9155	-.085	-1.69	.21083	.000	1
S5	10.000	9.9711	-.029	-.289	.42711	.001	1
S2	.80000	.81890	.019	2.36	.03557	.000	1

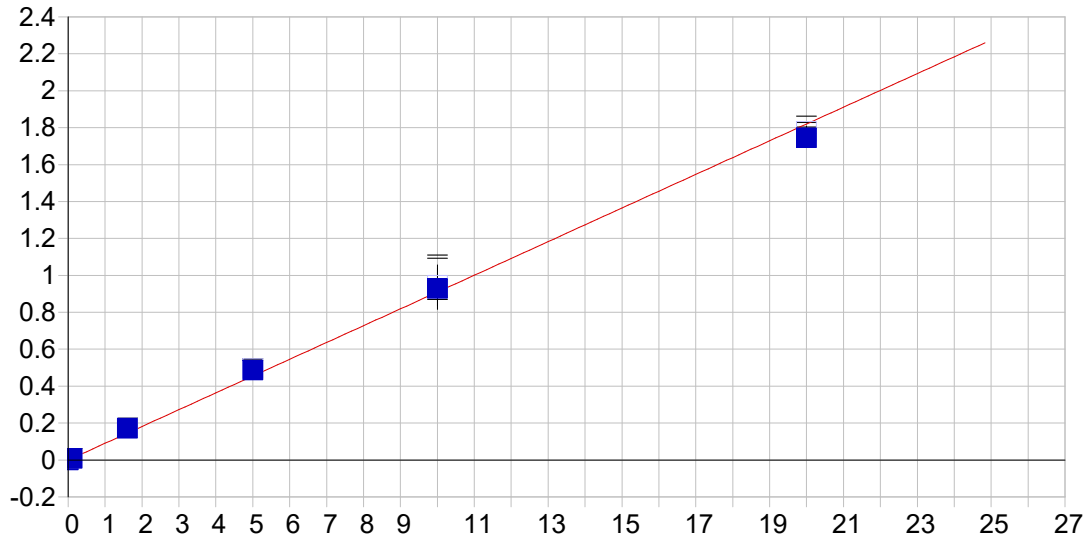


Sb 206.833 {463}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000809	Re-Slope:	1.000000
A1 (Gain):	0.096953	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.001848		
Predicted MQL:	0.006159		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00081	.000	1
S1	.05000	.04972	-.000	-.551	.00564	.000	1
S3	2.5000	2.5786	.079	3.14	.25147	.002	1
S4	5.0000	4.9345	-.065	-1.31	.48055	.001	1
S5	10.000	9.9720	-.028	-.280	.97026	.001	1
S2	.80000	.81516	.015	1.89	.08005	.000	1

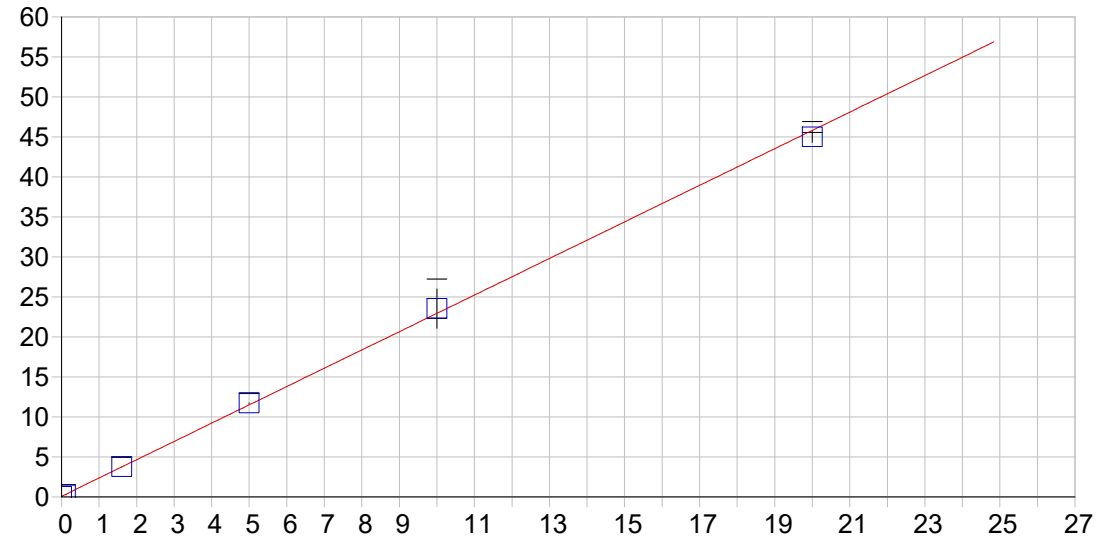


Al 396.152 { 85}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000609	Re-Slope:	1.000000
A1 (Gain):	0.091028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998536	Status:	OK.
Std Error of Est:	0.000373		
Predicted MDL:	0.011065		
Predicted MQL:	0.036884		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00061	.001	1
S1	.10000	.09846	-.002	-1.54	.00906	.001	1
S3	5.0000	5.3433	.343	6.87	.49461	.001	1
S4	10.000	10.199	.199	1.99	.94547	.111	1
S5	20.000	19.175	-.825	-4.12	1.7802	.030	1
S2	1.6000	1.8838	.284	17.7	.17370	.001	1

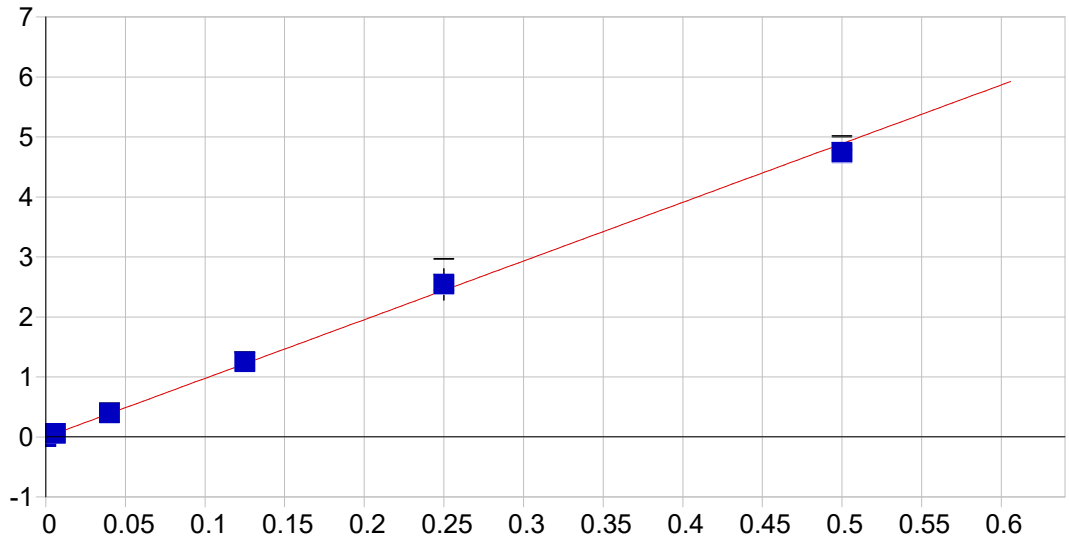


Ba 493.409 { 68}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.076643	Re-Slope:	1.000000
A1 (Gain):	2.286748	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999792	Status:	OK.
Std Error of Est:	0.003457		
Predicted MDL:	0.001323		
Predicted MQL:	0.004411		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.07665	.005	1
S1	.10000	.09525	-.005	-4.75	.29446	.002	1
S3	5.0000	5.0943	.094	1.89	11.726	.030	1
S4	10.000	10.263	.263	2.63	23.546	2.47	1
S5	20.000	19.645	-.355	-1.78	44.999	.698	1
S2	1.6000	1.6026	.003	.166	3.7415	.009	1

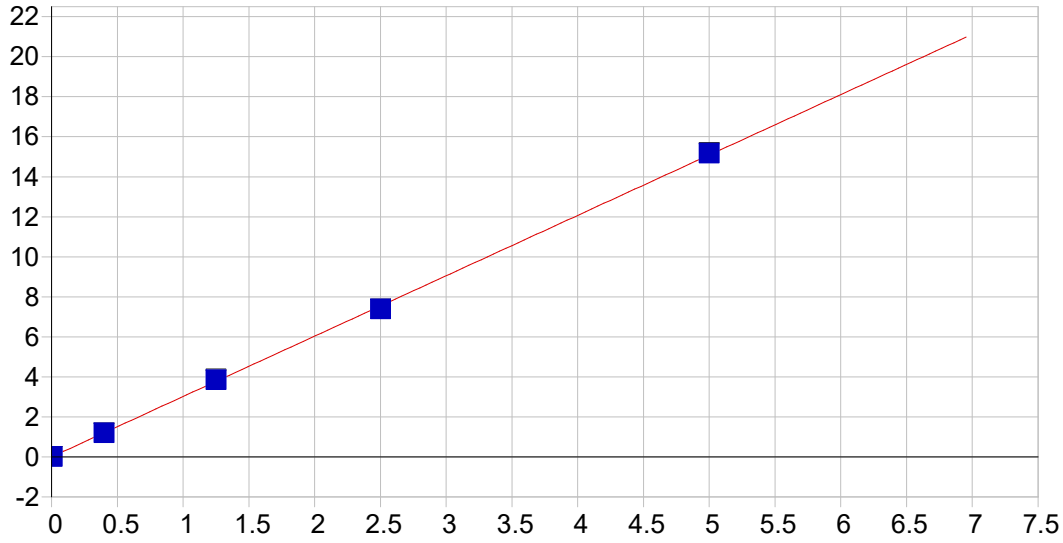


Be 234.861 {144}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002643	Re-Slope:	1.000000
A1 (Gain):	9.781370	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999459	Status:	OK.
Std Error of Est:	0.000922		
Predicted MDL:	0.000065		
Predicted MQL:	0.000217		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00265	.001	1
S1	.00600	.00605	.000	.882	.05612	.001	1
S3	.12500	.12797	.003	2.37	1.2436	.007	1
S4	.25000	.26071	.011	4.29	2.5365	.261	1
S5	.50000	.48528	-.015	-2.94	4.7222	.111	1
S2	.04000	.04098	.001	2.46	.39647	.003	1

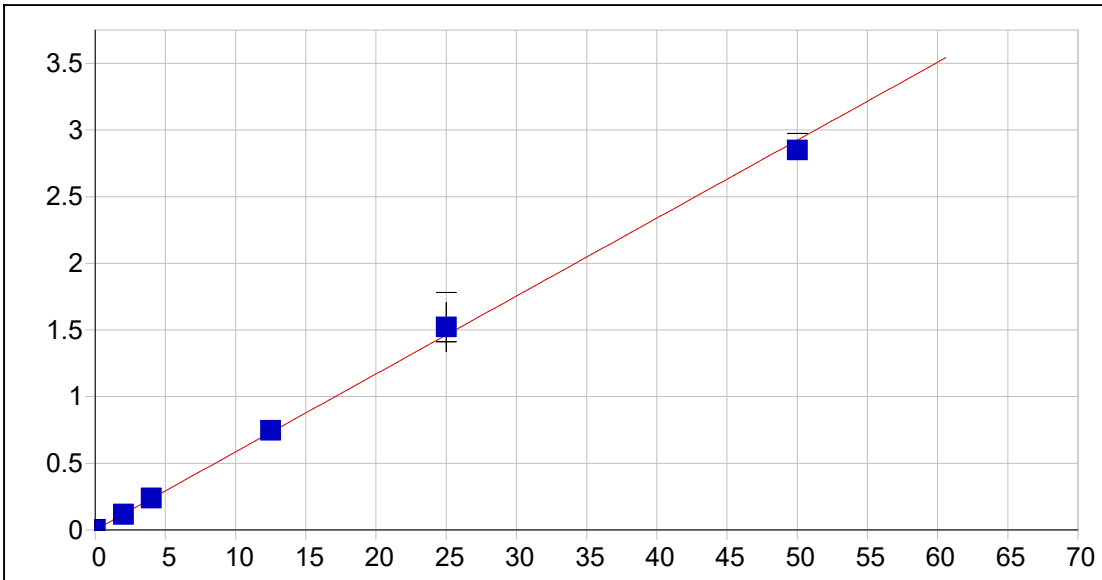


Cd 226.502 {449}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000627	Re-Slope:	1.000000
A1 (Gain):	3.017556	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000385		
Predicted MDL:	0.000071		
Predicted MQL:	0.000235		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00063	.000	1
S1	.00600	.00567	-.000	-5.49	.01654	.000	1
S3	1.2500	1.2776	.028	2.21	3.8570	.029	1
S4	2.5000	2.4507	-.049	-1.97	7.3996	.015	1
S5	5.0000	5.0272	.027	.544	15.179	.021	1
S2	.40000	.39482	-.005	-1.30	1.1916	.002	1

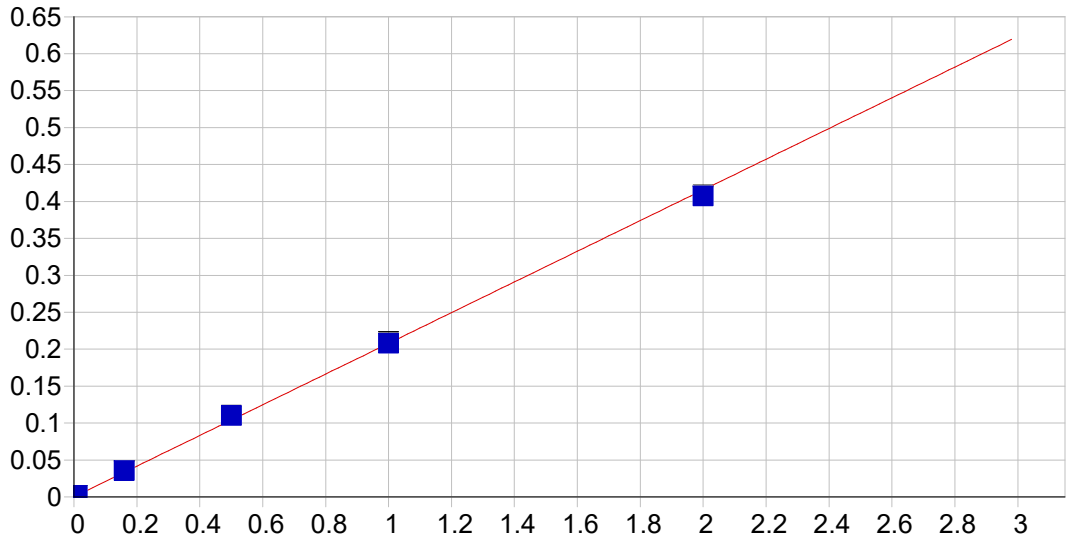


Ca 373.690 { 90}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001028	Re-Slope:	1.000000
A1 (Gain):	0.058446	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999576	Status:	OK.
Std Error of Est:	0.000900		
Predicted MDL:	0.013436		
Predicted MQL:	0.044787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00102	.000	1
S2	4.0000	4.0299	.030	.747	.23656	.000	1
S3	12.500	12.742	.242	1.93	.74574	.002	1
S4	25.000	26.024	1.02	4.09	1.5220	.186	1
S5	50.000	48.735	-1.27	-2.53	2.8494	.051	1
S1	2.0000	1.9701	-.030	-1.50	.11617	.001	1

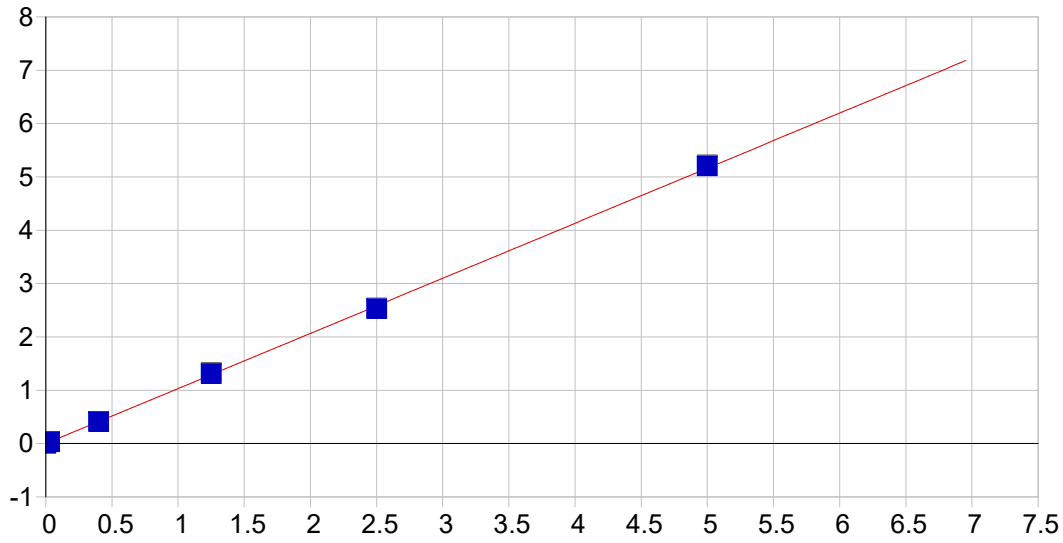


Cr 267.716 {126}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000089	Re-Slope:	1.000000
A1 (Gain):	0.207797	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999564	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.000335		
Predicted MQL:	0.001116		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.01000	.00981	-.000	-1.85	.00213	.000	1
S3	.50000	.53000	.030	6.00	.11030	.000	1
S4	1.0000	1.0002	.000	.021	.20810	.002	1
S5	2.0000	1.9601	-.040	-1.99	.40773	.001	1
S2	.16000	.16985	.010	6.16	.03541	.000	1

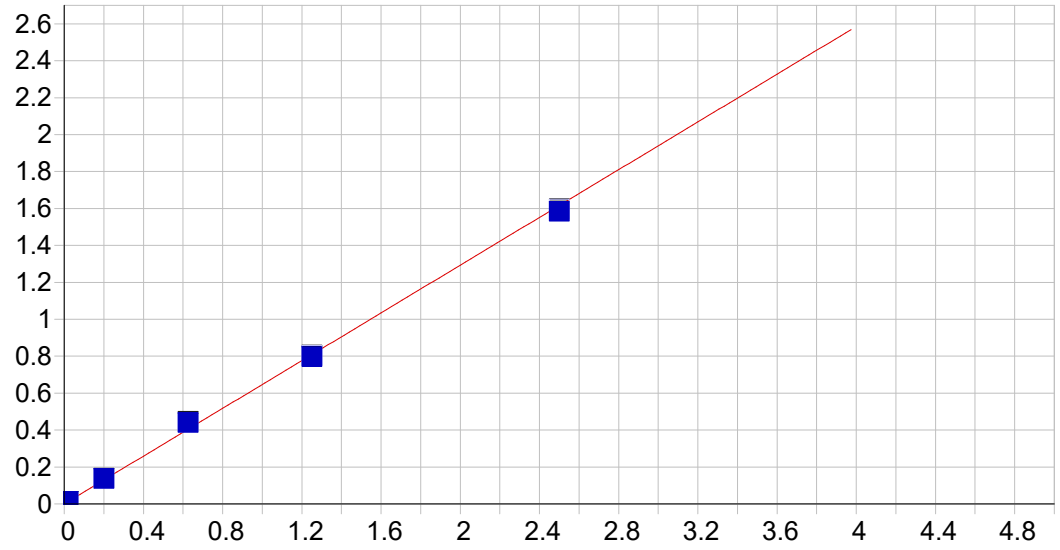


Co 228.616 {448}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	1.032800	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000281		
Predicted MDL:	0.000183		
Predicted MQL:	0.000610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.03000	.02876	-.001	-4.12	.02957	.000	1
S3	1.2500	1.2673	.017	1.38	1.3110	.010	1
S4	2.5000	2.4493	-.051	-2.03	2.5340	.004	1
S5	5.0000	5.0383	.038	.765	5.2123	.008	1
S2	.40000	.39638	-.004	-.904	.41008	.000	1

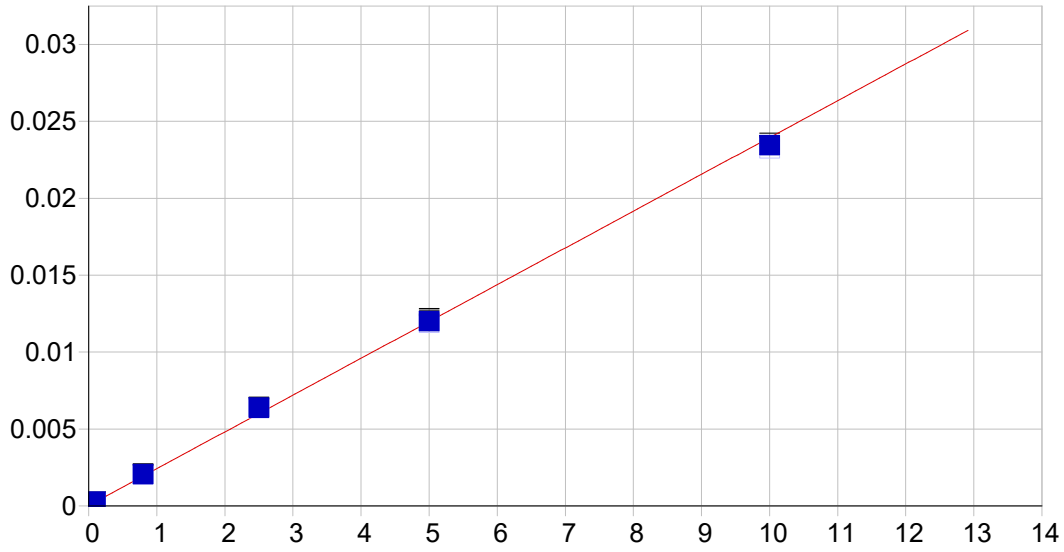


Cu 224.700 {450}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000391	Re-Slope:	1.000000
A1 (Gain):	0.646370	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999276	Status:	OK.
Std Error of Est:	0.000291		
Predicted MDL:	0.000413		
Predicted MQL:	0.001376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00039	.000	1
S1	.02000	.02140	.001	7.01	.01436	.000	1
S3	.62500	.67938	.054	8.70	.44272	.004	1
S4	1.2500	1.2337	-.016	-1.30	.80426	.001	1
S5	2.5000	2.4488	-.051	-2.05	1.5961	.002	1
S2	.20000	.21163	.012	5.82	.13821	.000	1

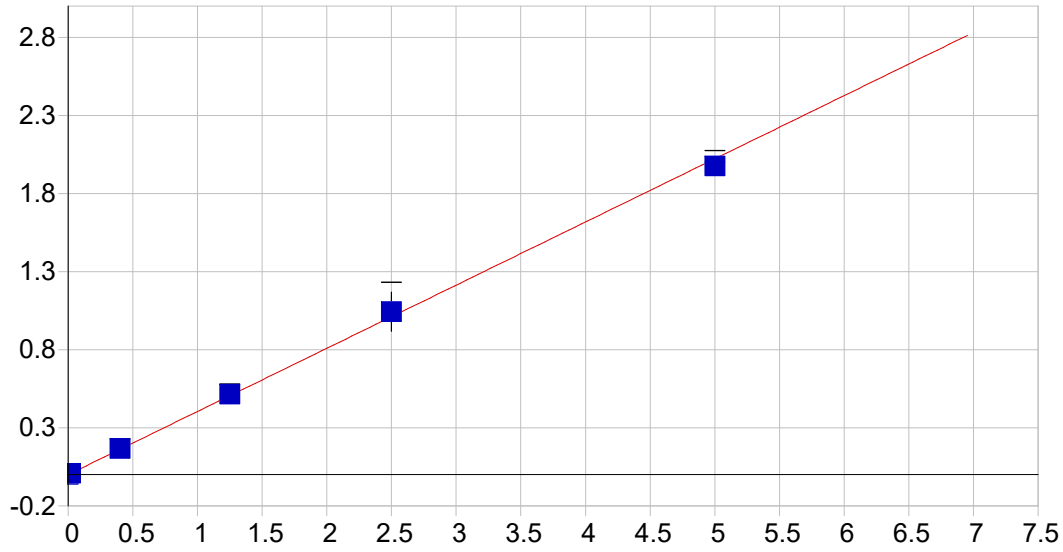


Fe 240.488 {140}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000026	Re-Slope:	1.000000
A1 (Gain):	0.002393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999510	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.008690		
Predicted MQL:	0.028966		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00003	.000	1
S1	.10000	.10217	.002	2.17	.00027	.000	1
S3	2.5000	2.6604	.160	6.41	.00634	.000	1
S4	5.0000	5.0034	.003	.068	.01190	.000	1
S5	10.000	9.7865	-.213	-2.13	.02324	.000	1
S2	.80000	.84757	.048	5.95	.00204	.000	1

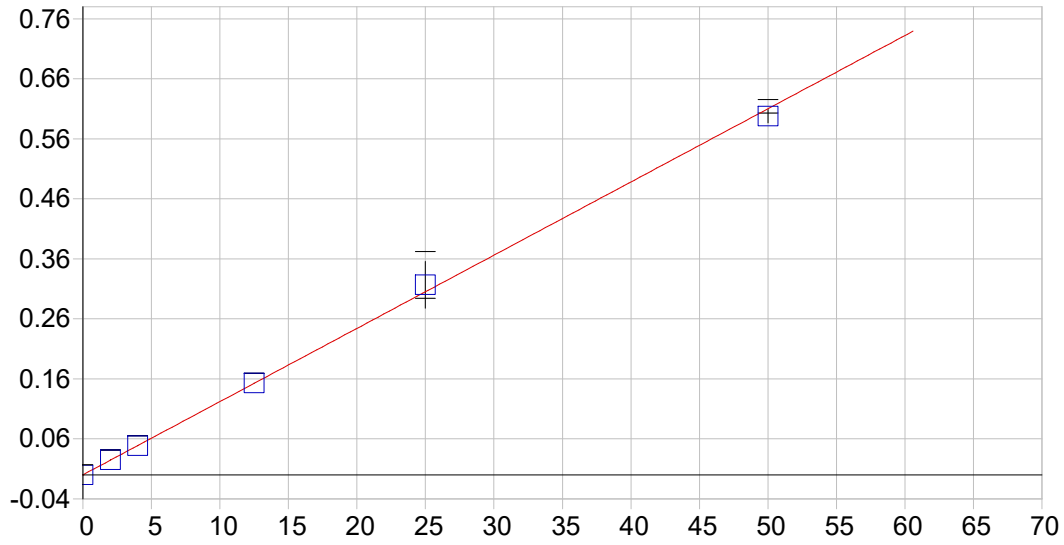


Mn 257.610 {131}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.404393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999669	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.000697		
Predicted MQL:	0.002322		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.02000	.02051	.001	2.53	.00846	.000	1
S3	1.2500	1.2746	.025	1.97	.51571	.002	1
S4	2.5000	2.5810	.081	3.24	1.0441	.125	1
S5	5.0000	4.8837	-.116	-2.33	1.9755	.036	1
S2	.40000	.41018	.010	2.55	.16607	.001	1

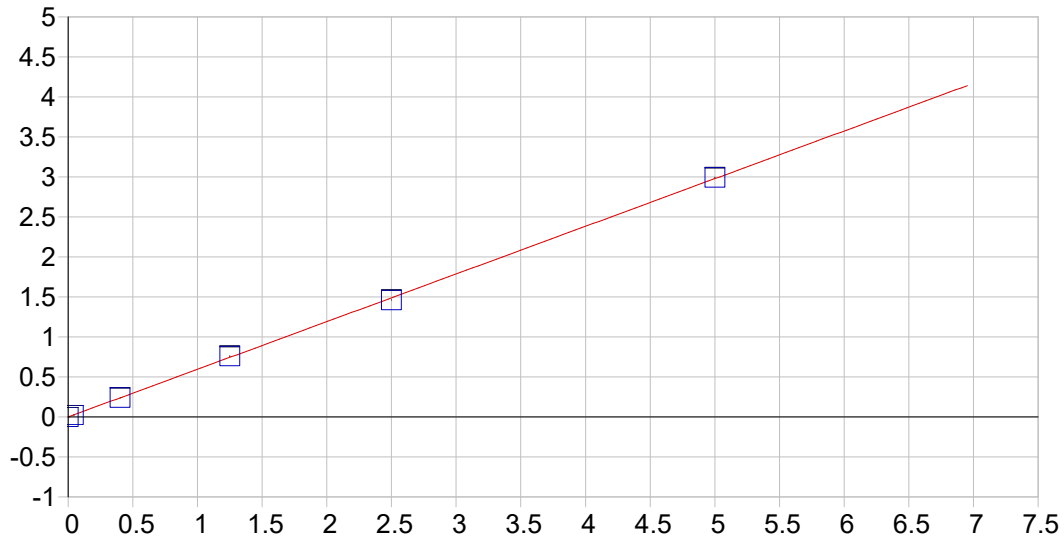


Mg 279.079 {121}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000113	Re-Slope:	1.000000
A1 (Gain):	0.012199	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999685	Status:	OK.
Std Error of Est:	0.000162		
Predicted MDL:	0.030519		
Predicted MQL:	0.101730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00008	-.000	.000	.00011	.000	1
S2	4.0000	3.9831	-.017	-.422	.04870	.000	1
S3	12.500	12.524	.024	.194	.15290	.000	1
S4	25.000	25.958	.958	3.83	.31677	.039	1
S5	50.000	48.983	-1.02	-2.03	.59765	.011	1
S1	2.0000	2.0519	.052	2.59	.02514	.001	1

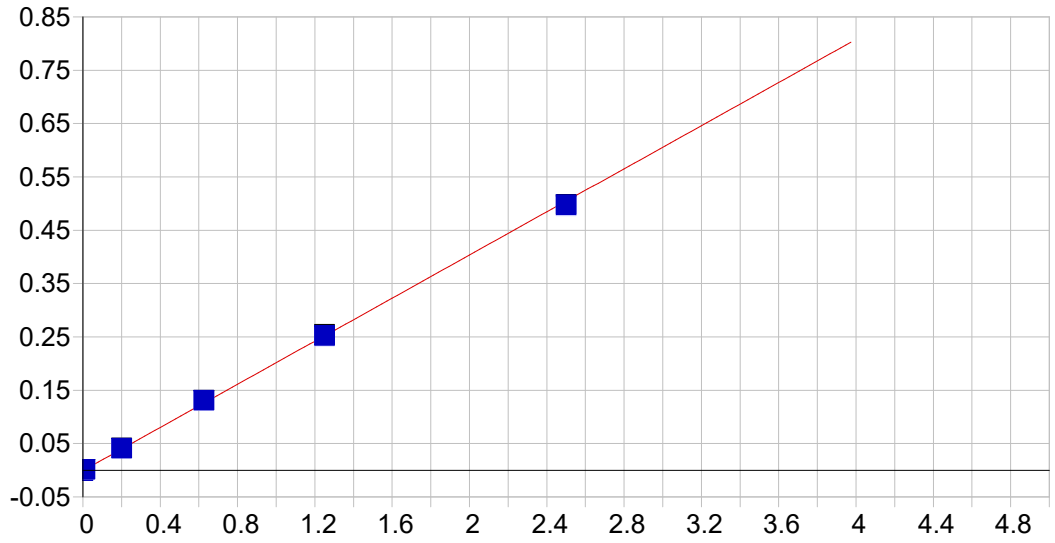


Ni 231.604 {446}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000506	Re-Slope:	1.000000
A1 (Gain):	0.595728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000178		
Predicted MDL:	0.000338		
Predicted MQL:	0.001128		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00051	.000	1
S1	.04000	.03872	-.001	-3.20	.02256	.000	1
S3	1.2500	1.2745	.025	1.96	.75877	.006	1
S4	2.5000	2.4535	-.046	-1.86	1.4611	.002	1
S5	5.0000	5.0221	.022	.442	2.9913	.003	1
S2	.40000	.40112	.001	.279	.23845	.000	1

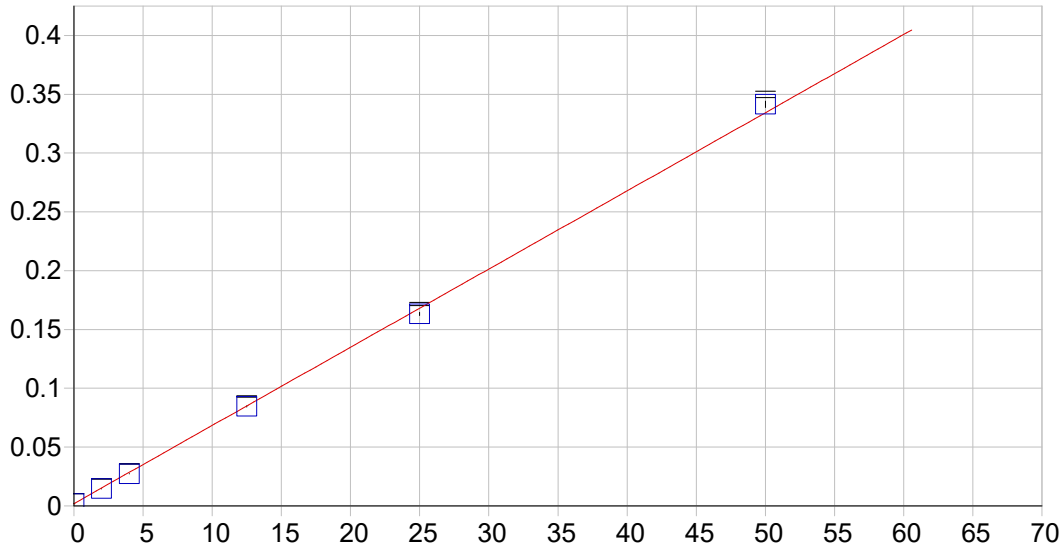


Ag 328.068 {103}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000607	Re-Slope:	1.000000
A1 (Gain):	0.202087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999800	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.000536		
Predicted MQL:	0.001786		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00061	.000	1
S1	.01000	.01039	.000	3.89	.00147	.000	1
S3	.62500	.65116	.026	4.19	.13037	.000	1
S4	1.2500	1.2507	.001	.058	.25092	.003	1
S5	2.5000	2.4658	-.034	-1.37	.49525	.001	1
S2	.20000	.20689	.007	3.45	.04101	.000	1

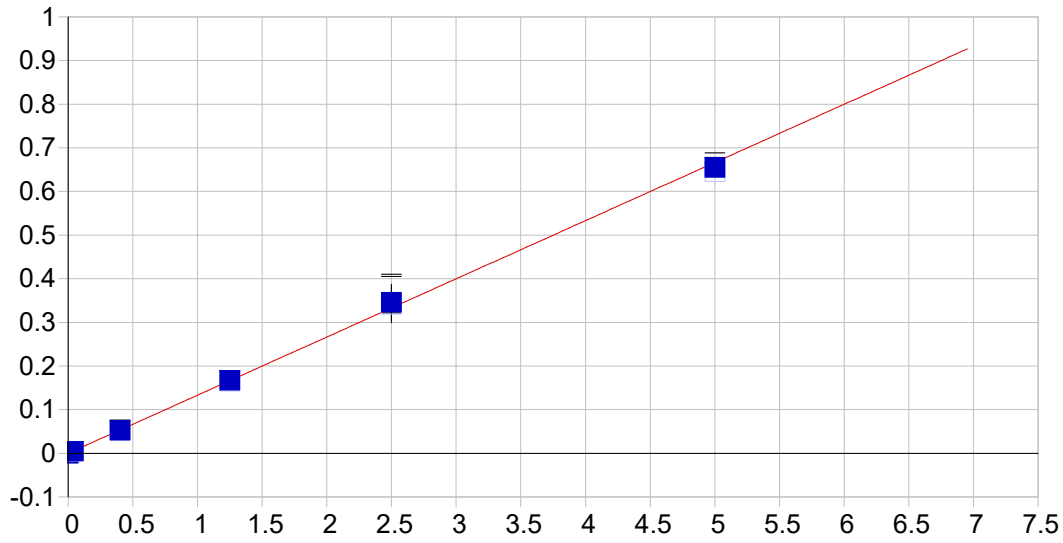


Na 589.592 { 57}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001962	Re-Slope:	1.000000
A1 (Gain):	0.006647	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999687	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.022291		
Predicted MQL:	0.074304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	.00196	.000	1
S2	4.0000	3.8135	-.186	-4.66	.02731	.000	1
S3	12.500	12.434	-.066	-.527	.08461	.001	1
S4	25.000	24.276	-.724	-2.90	.16333	.001	1
S5	50.000	51.079	1.08	2.16	.34148	.003	1
S1	2.0000	1.8973	-.103	-5.14	.01457	.000	1

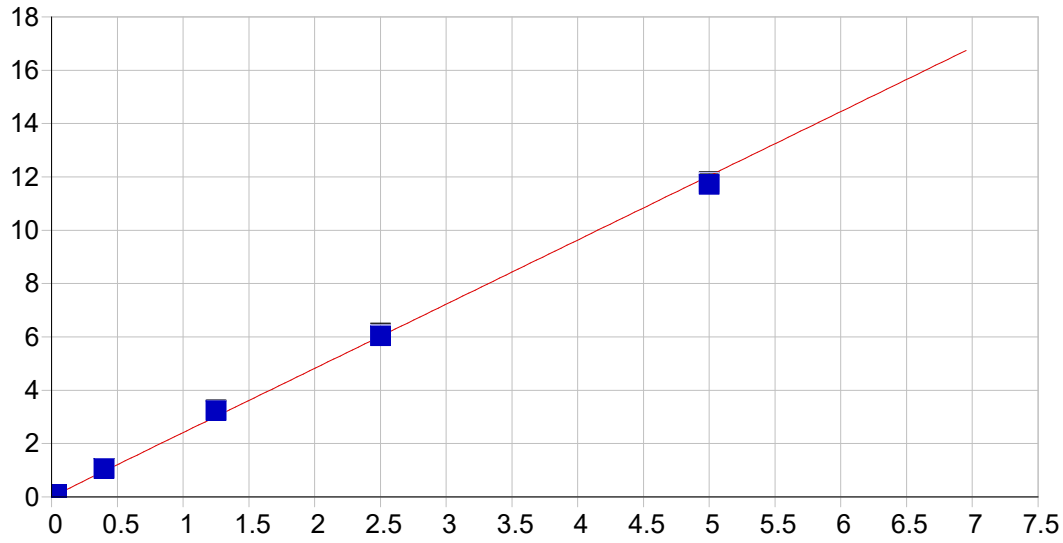


V 292.402 {115}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000146	Re-Slope:	1.000000
A1 (Gain):	0.133310	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.003264		
Predicted MQL:	0.010878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00015	.001	1
S1	.04000	.03602	-.004	-9.94	.00446	.000	1
S3	1.2500	1.2523	.002	.186	.16437	.000	1
S4	2.5000	2.5950	.095	3.80	.34094	.042	1
S5	5.0000	4.9117	-.088	-1.77	.64491	.011	1
S2	.40000	.39485	-.005	-1.29	.05171	.001	1

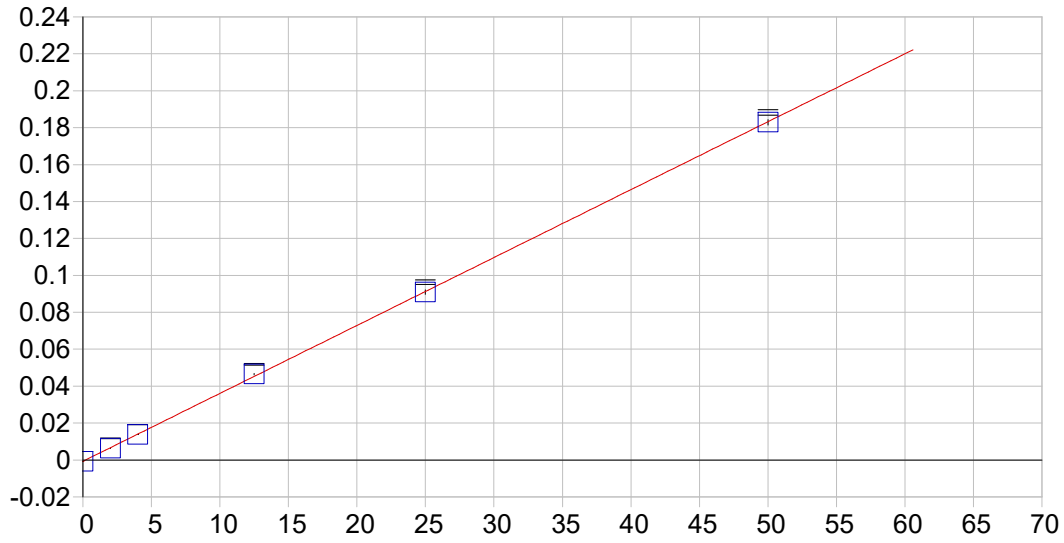


Zn 213.856 {158}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004173	Re-Slope:	1.000000
A1 (Gain):	2.407423	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999264	Status:	OK.
Std Error of Est:	0.002184		
Predicted MDL:	0.000246		
Predicted MQL:	0.000821		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00416	.000	1
S1	.04000	.04087	.001	2.17	.10324	.001	1
S3	1.2500	1.3386	.089	7.09	3.2477	.011	1
S4	2.5000	2.5058	.006	.233	6.0786	.066	1
S5	5.0000	4.8656	-.134	-2.69	11.802	.020	1
S2	.40000	.43906	.039	9.76	1.0679	.003	1

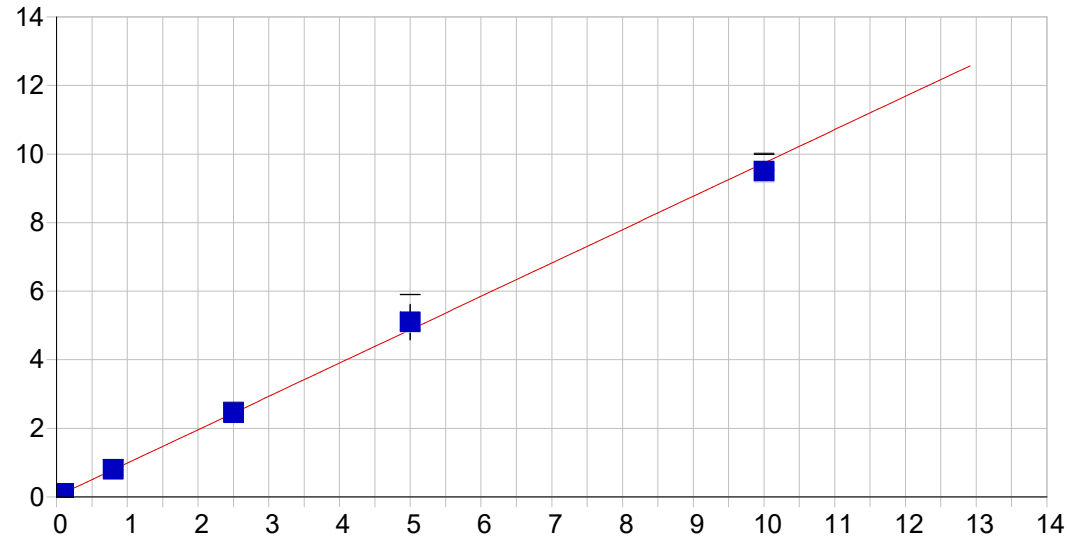


K 766.490 { 44}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000716	Re-Slope:	1.000000
A1 (Gain):	0.003679	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.048812		
Predicted MQL:	0.162705		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	-.00072	.000	1
S2	4.0000	3.9398	-.060	-1.50	.01378	.000	1
S3	12.500	12.829	.329	2.63	.04648	.000	1
S4	25.000	24.911	-.089	-.356	.09093	.001	1
S5	50.000	49.909	-.091	-.181	.18290	.002	1
S1	2.0000	1.9103	-.090	-4.49	.00631	.000	1

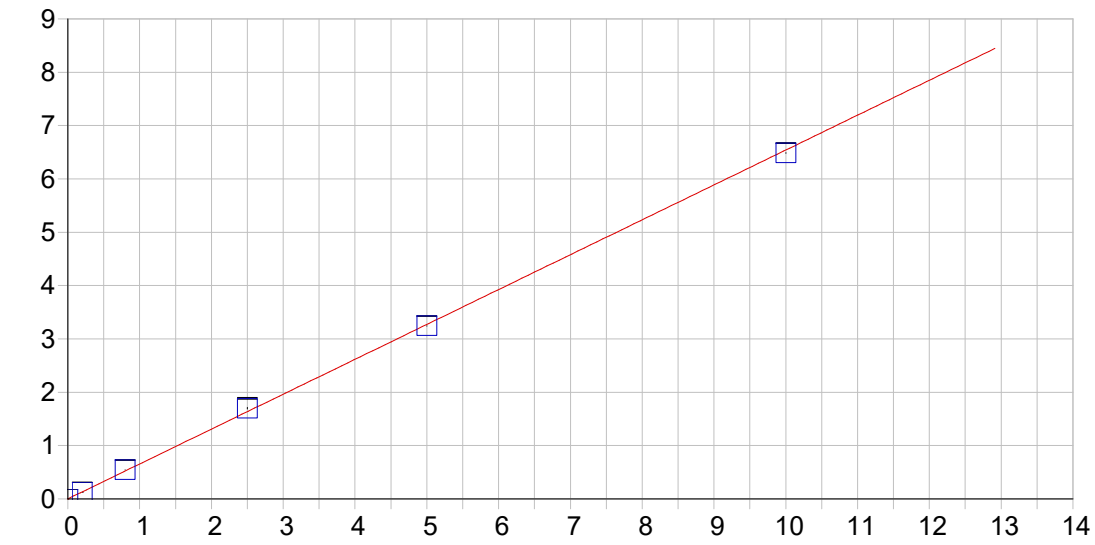


B 249.678 {135}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013419	Re-Slope:	1.000000
A1 (Gain):	0.972676	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999511	Status:	OK.
Std Error of Est:	0.001591		
Predicted MDL:	0.000685		
Predicted MQL:	0.002283		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01342	.001	1
S1	.10000	.09624	-.004	-3.76	.10645	.001	1
S3	2.5000	2.5052	.005	.208	2.4414	.020	1
S4	5.0000	5.2382	.238	4.76	5.0910	.514	1
S5	10.000	9.7504	-.250	-2.50	9.4623	.236	1
S2	.80000	.80995	.010	1.24	.79844	.003	1

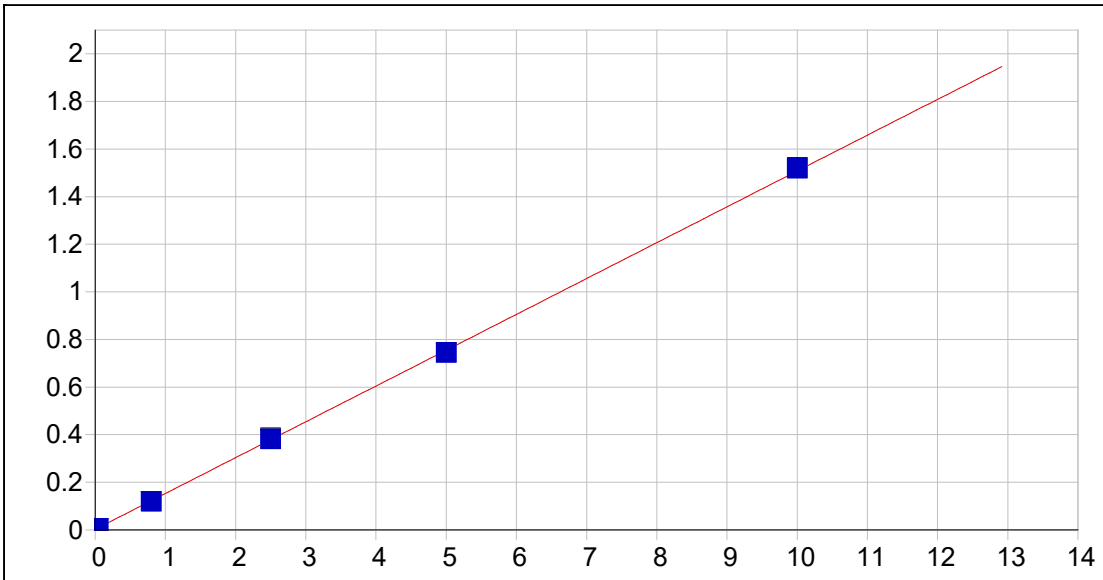


Mo 202.030 {467}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000475	Re-Slope:	1.000000
A1 (Gain):	0.654081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000892		
Predicted MDL:	0.000254		
Predicted MQL:	0.000847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00047	.000	1
S1	.20000	.19525	-.005	-2.37	.12819	.000	1
S3	2.5000	2.5988	.099	3.95	1.7003	.015	1
S4	5.0000	4.9601	-.040	-.798	3.2448	.002	1
S5	10.000	9.9154	-.085	-.846	6.4859	.006	1
S2	.80000	.83049	.030	3.81	.54368	.001	1

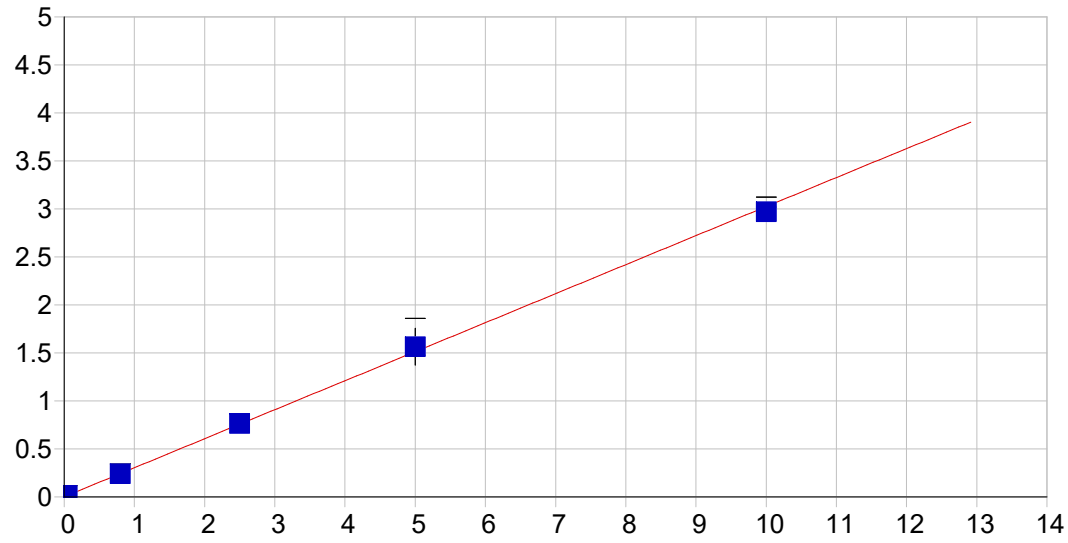


Sn 189.989 {478}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002447	Re-Slope:	1.000000
A1 (Gain):	0.150529	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.000600		
Predicted MQL:	0.001999		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00245	.000	1
S1	.04000	.03680	-.003	-8.00	.00798	.000	1
S3	2.5000	2.5236	.024	.946	.38194	.004	1
S4	5.0000	4.9274	-.073	-1.45	.74339	.001	1
S5	10.000	10.076	.076	.757	1.5176	.003	1
S2	.80000	.77653	-.023	-2.93	.11921	.000	1

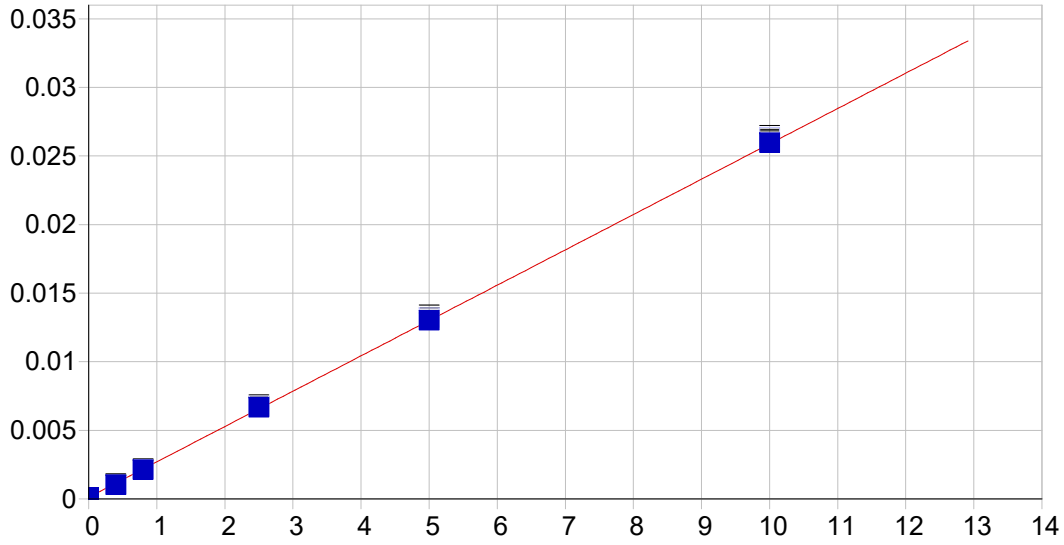


Ti 336.121 {100}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001507	Re-Slope:	1.000000
A1 (Gain):	0.302231	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999742	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	0.001859		
Predicted MQL:	0.006196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00151	.000	1
S1	.04000	.03773	-.002	-5.68	.01290	.000	1
S3	2.5000	2.5180	.018	.720	.76225	.001	1
S4	5.0000	5.1713	.171	3.43	1.5639	.191	1
S5	10.000	9.8192	-.181	-1.81	2.9681	.052	1
S2	.80000	.79375	-.006	-.781	.24132	.001	1

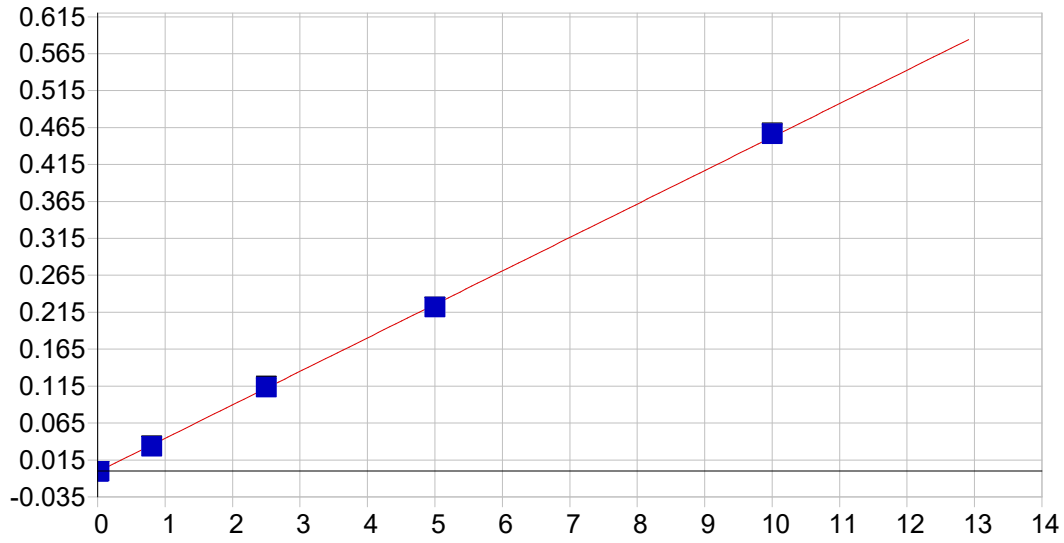


Si 288.158 {117}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000123	Re-Slope:	1.000000
A1 (Gain):	0.002576	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999800	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.014683		
Predicted MQL:	0.048944		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	.00012	.000	1
S1	.40000	.35058	-.049	-12.4	.00103	.000	1
S3	2.5000	2.5384	.038	1.54	.00676	.000	1
S4	5.0000	5.0050	.005	.100	.01321	.000	1
S5	10.000	10.032	.032	.318	.02636	.000	1
S2	.80000	.77352	-.026	-3.31	.00215	.000	1

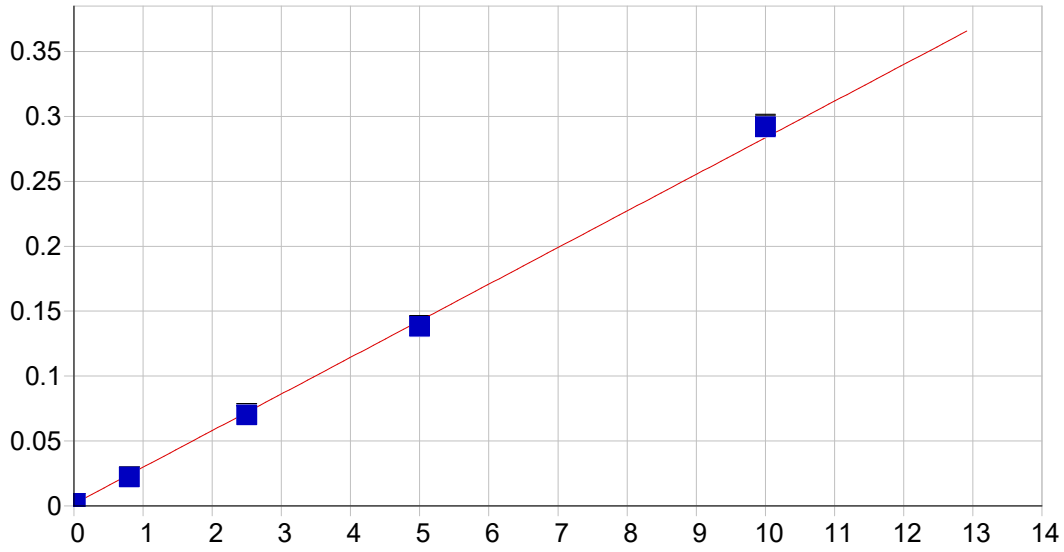


P 177.495 {490}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001042	Re-Slope:	1.000000
A1 (Gain):	0.045314	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999868	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.001656		
Predicted MQL:	0.005520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00104	.000	1
S1	.02000	.01624	-.004	-18.8	-.00031	.000	1
S3	2.5000	2.5250	.025	.999	.11336	.002	1
S4	5.0000	4.9167	-.083	-1.67	.22171	.000	1
S5	10.000	10.097	.097	.972	.45643	.001	1
S2	.80000	.76485	-.035	-4.39	.03361	.000	1

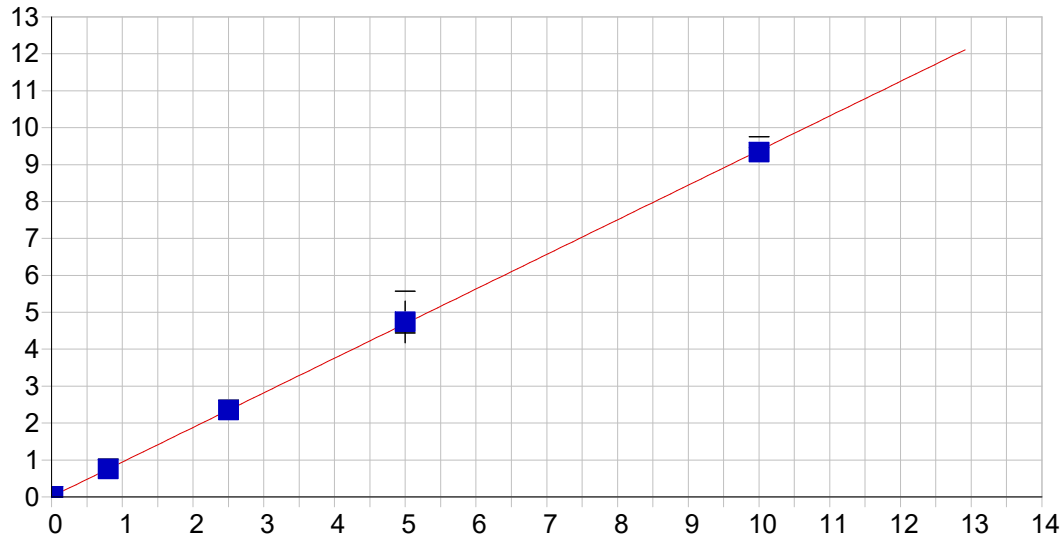


S 182.034 {485}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001625	Re-Slope:	1.000000
A1 (Gain):	0.028195	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999341	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002867		
Predicted MQL:	0.009557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00163	.000	1
S1	.02000	.01283	-.007	-35.9	.00196	.000	1
S3	2.5000	2.4292	-.071	-2.83	.06993	.001	1
S4	5.0000	4.8463	-.154	-3.07	.13790	.001	1
S5	10.000	10.299	.299	2.99	.29129	.002	1
S2	.80000	.73205	-.068	-8.49	.02221	.000	1

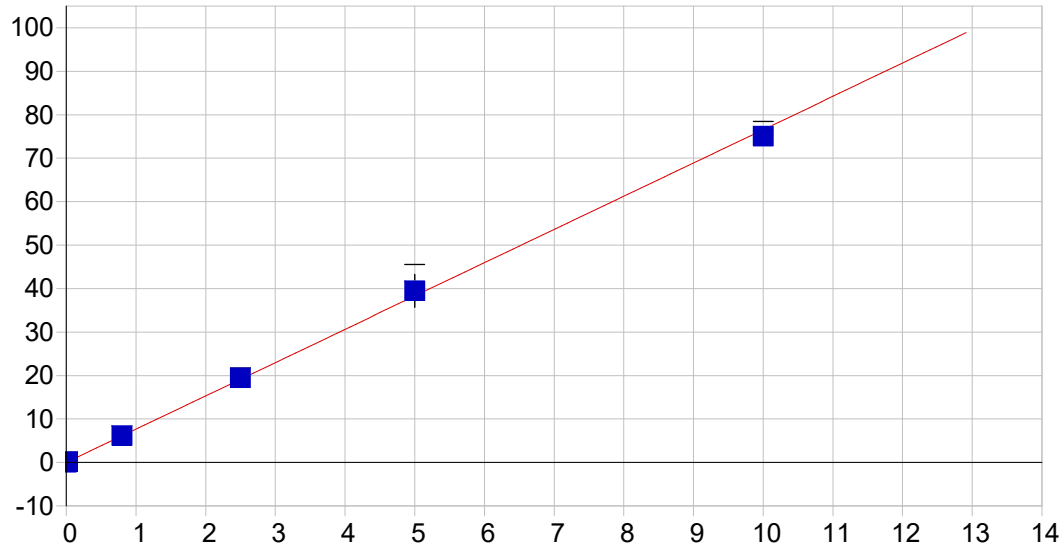


Li 670.784 { 50}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006781	Re-Slope:	1.000000
A1 (Gain):	0.937288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.001992		
Predicted MQL:	0.006639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00678	.001	1
S5	10.000	9.9535	-.047	-.465	9.3436	.148	1
S4	5.0000	5.0466	.047	.931	4.7406	.567	1
S3	2.5000	2.5030	.003	.120	2.3547	.006	1
S1	.02000	.02064	.001	3.22	.02646	.002	1
S2	.80000	.79631	-.004	-.461	.75375	.002	1

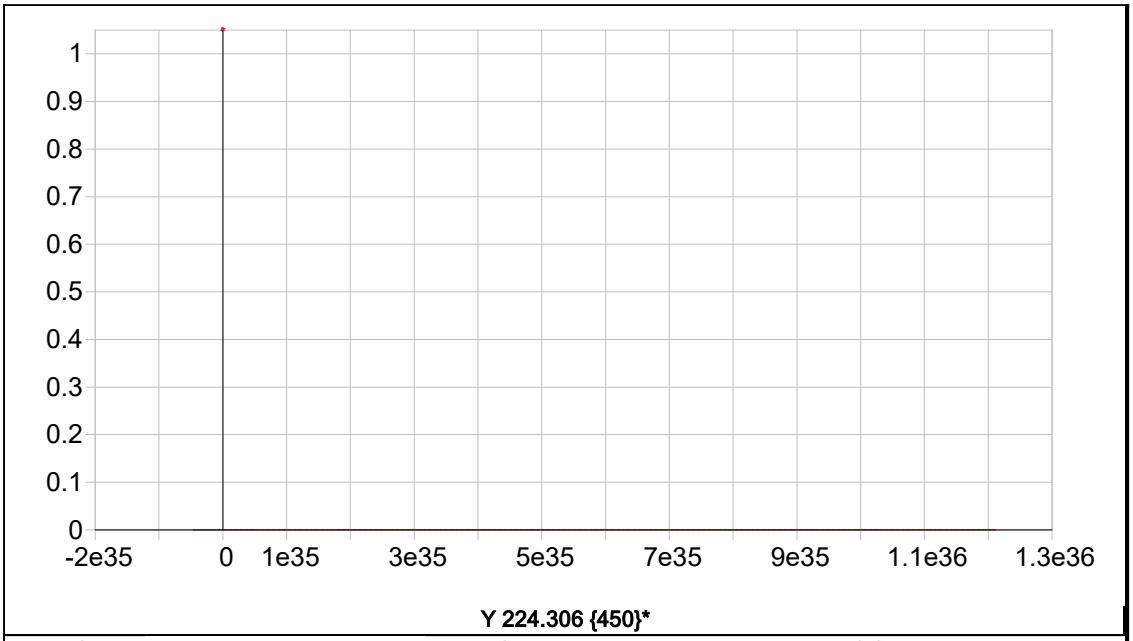


Sr 407.771 { 83}

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000340	Re-Slope:	1.000000
A1 (Gain):	7.656814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999751	Status:	OK.
Std Error of Est:	0.004008		
Predicted MDL:	0.000125		
Predicted MQL:	0.000416		

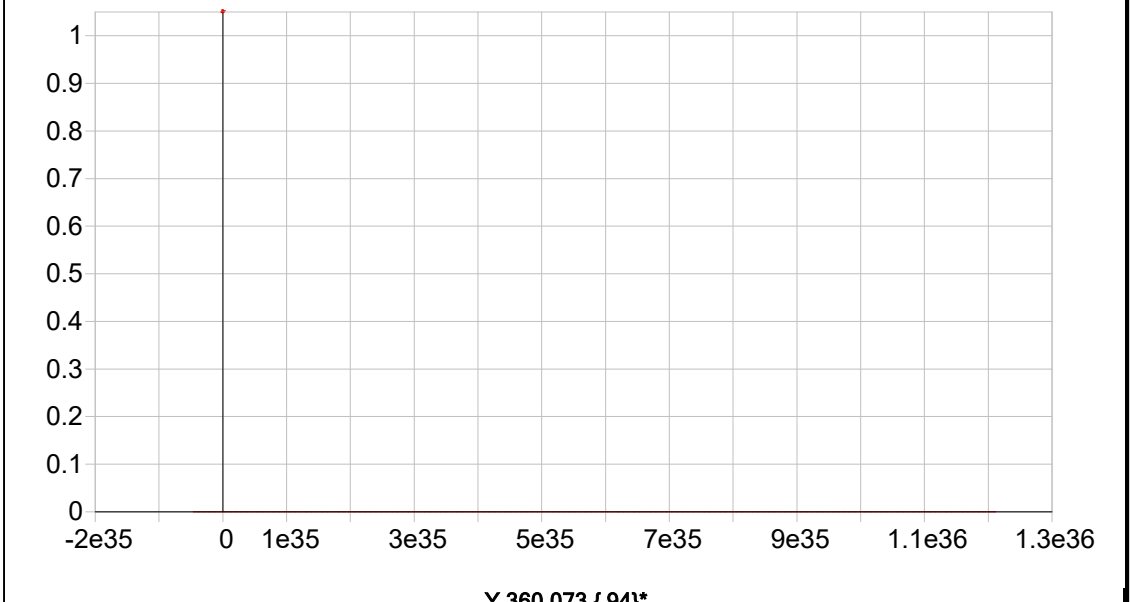
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00033	.000	1
S1	.02000	.01999	-.000	-.068	.15411	.001	1
S3	2.5000	2.5403	.040	1.61	19.469	.059	1
S4	5.0000	5.1519	.152	3.04	39.484	3.79	1
S5	10.000	9.8036	-.196	-1.96	75.138	1.08	1
S2	.80000	.80416	.004	.520	6.1635	.016	1



Y 224.306 {450}*

Date of Fit:	10/28/2025 12:22:55	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



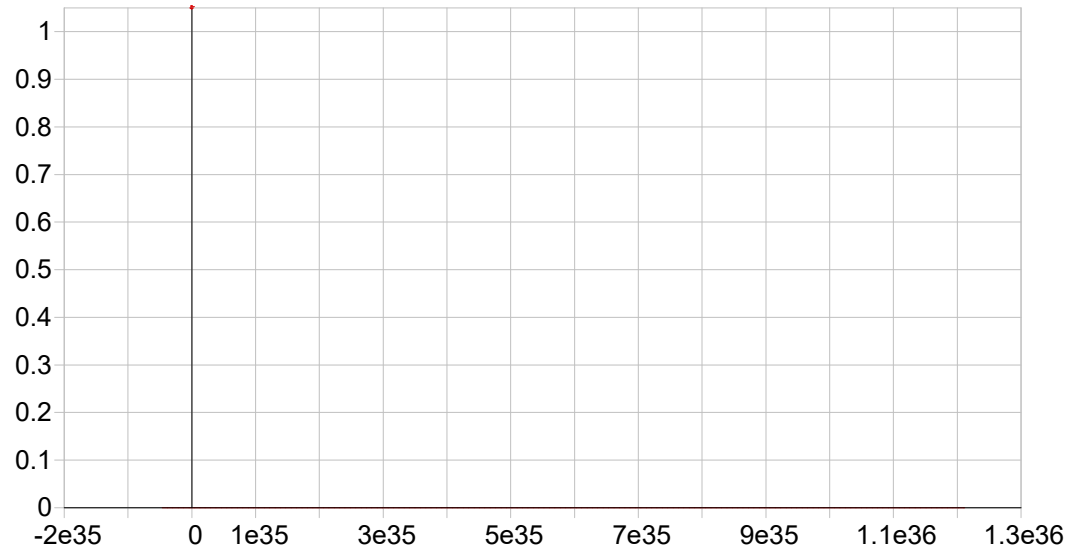
Y 360.073 { 94}*

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

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

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					

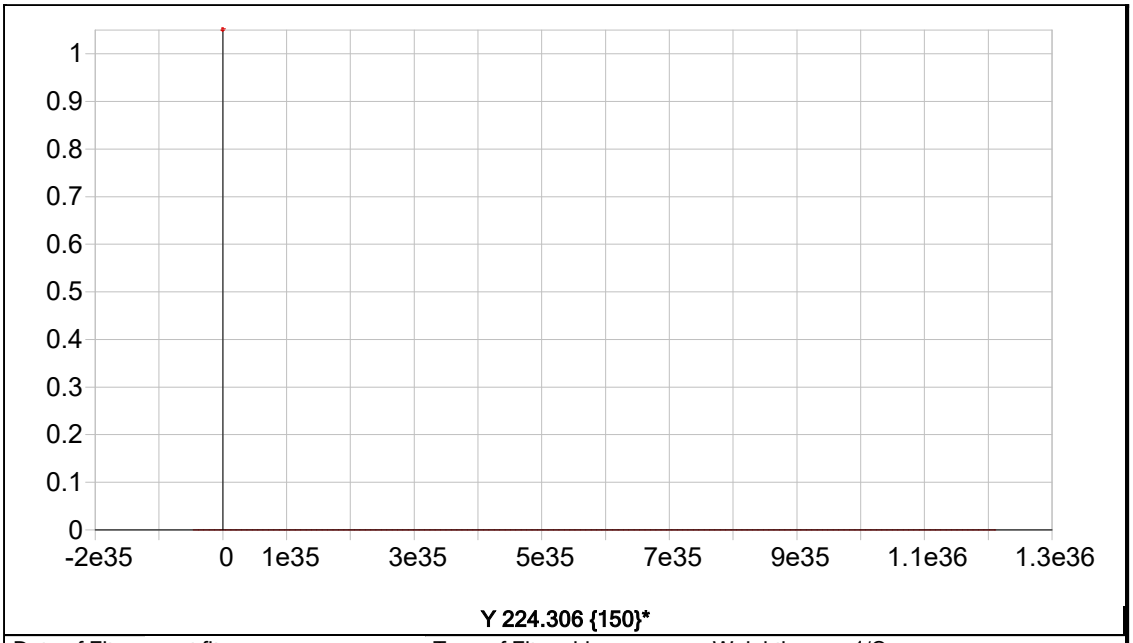
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

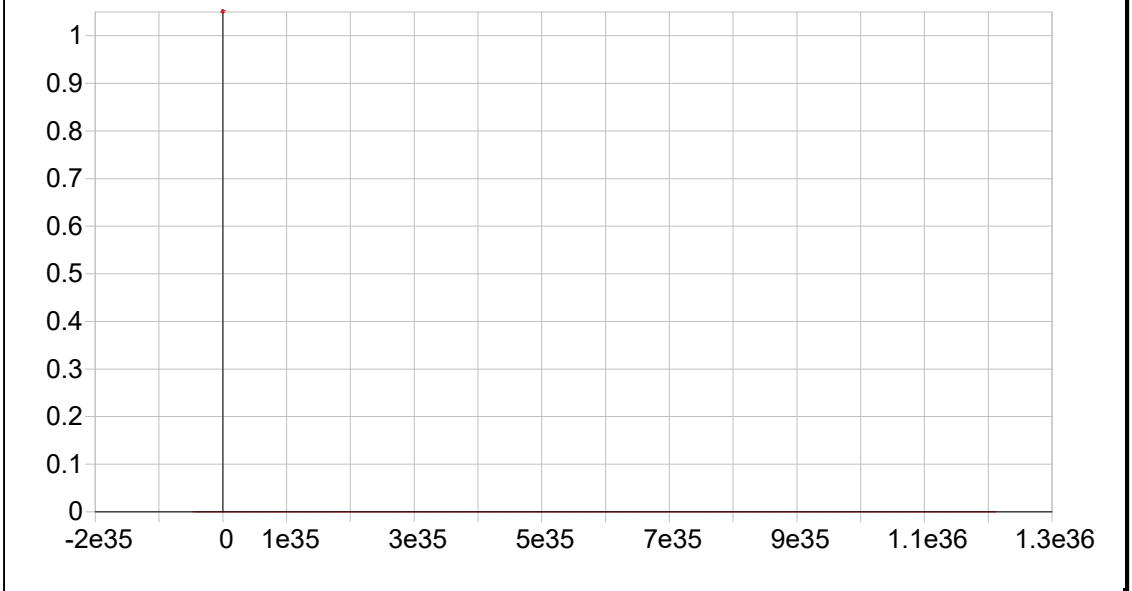
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S0 Acquired: 10/28/2025 11:52:21 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**-.00006**	**.00035**	**.00017**	**.00054**	**.00081**	**-.00061**	**.07665**	**-.00265**
Stddev	.00005	.00001	.00004	.00011	.00004	.00075	.00464	.00062
%RSD	80.548	4.0261	25.440	20.705	4.7373	122.00	6.0524	23.377
#1	-.00011	.00035	.00019	.00041	.00079	-.00115	.07131	-.00320
#2	-.00007	.00034	.00020	.00058	.00079	-.00093	.07973	-.00198
#3	-.00001	.00037	.00012	.00063	.00085	.00024	.07890	-.00276

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00063**	**.00102**	**.00009**	**-.00000**	**.00039**	**.00003**	**.00016**	**.00011**
Stddev	.00004	.00028	.00005	.00010	.00014	.00001	.00038	.00034
%RSD	6.3617	26.847	60.888	7285.4	36.218	26.130	236.65	307.40
#1	-.00059	.00121	.00013	-.00000	.00046	.00002	-.00004	.00034
#2	-.00067	.00071	.00011	-.00010	.00048	.00003	-.00008	.00027
#3	-.00062	.00116	.00003	.00010	.00023	.00003	.00061	-.00028

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	**-.00051**	**-.00061**	**.00196**	**-.00015**	**.00416**	**-.00072**	**.01342**	**.00047**
Stddev	.00008	.00002	.00009	.00054	.00005	.00007	.00088	.00019
%RSD	15.231	3.0105	4.8248	374.64	1.1928	9.2674	6.5809	40.802
#1	-.00052	-.00060	.00202	-.00001	.00411	-.00074	.01436	.00068
#2	-.00057	-.00063	.00202	.00032	.00415	-.00076	.01330	.00030
#3	-.00042	-.00059	.00185	-.00075	.00421	-.00064	.01260	.00043

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	**.00245**	**.00151**	**.00012**	**-.00104**	**.00163**	**.00678**	**.00033**
Stddev	.00001	.00045	.00002	.00004	.00002	.00063	.00042
%RSD	.33934	29.550	16.759	3.4607	1.4244	9.2224	125.74
#1	.00245	.00137	.00013	-.00104	.00160	.00627	-.00012
#2	.00244	.00200	.00010	-.00108	.00164	.00659	.00071
#3	.00246	.00115	.00013	-.00100	.00164	.00748	.00041

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S0 Acquired: 10/28/2025 11:52:21 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5850.6	95392.	7569.7	4329.2	7574.1
Stddev	23.4	48.	75.1	8.3	34.1
%RSD	.40065	.05062	.99167	.19148	.45058
#1	5826.2	95383.	7551.0	4329.2	7549.9
#2	5852.7	95444.	7652.3	4320.9	7559.3
#3	5872.9	95348.	7505.7	4337.5	7613.1

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S1 Acquired: 10/28/2025 11:56:44 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**.00097**	**.00189**	**.00318**	**.00133**	**.00564**	**.00906**	**.29446**	**.05612**
Stddev	.00005	.00007	.00015	.00009	.00008	.00086	.00224	.00089
%RSD	5.6414	3.6404	4.8008	6.7570	1.4638	9.4581	.75921	1.5868
#1	.00101	.00192	.00312	.00137	.00555	.00809	.29333	.05512
#2	.00098	.00193	.00307	.00138	.00566	.00940	.29703	.05680
#3	.00090	.00181	.00336	.00122	.00571	.00970	.29301	.05646

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	**.01654**	**.11617**	**.00213**	**.02957**	**.01436**	**.00027**	**.00846**	**.02514**
Stddev	.00008	.00056	.00004	.00010	.00012	.00002	.00019	.00052
%RSD	.48217	.47844	1.8710	.34768	.86672	7.8065	2.2536	2.0817
#1	.01657	.11664	.00209	.02964	.01425	.00029	.00861	.02458
#2	.01645	.11556	.00216	.02963	.01434	.00025	.00852	.02561
#3	.01661	.11633	.00215	.02946	.01450	.00026	.00824	.02524

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	**.02256**	**.00147**	**.01457**	**.00446**	**.10324**	**.00631**	**.10645**	**.12819**
Stddev	.00027	.00009	.00022	.00038	.00062	.00016	.00124	.00021
%RSD	1.2106	6.0179	1.4833	8.5963	.60217	2.5572	1.1672	.16581
#1	.02278	.00152	.01478	.00443	.10304	.00650	.10527	.12807
#2	.02265	.00137	.01435	.00409	.10274	.00622	.10633	.12805
#3	.02226	.00153	.01459	.00485	.10393	.00622	.10775	.12843

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	**.00798**	**.01290**	**.00103**	**-.00031**	**.00196**	**.02646**	**.15411**
Stddev	.00004	.00017	.00006	.00005	.00005	.00160	.00059
%RSD	.48192	1.3068	5.5731	15.516	2.3813	6.0360	.38359
#1	.00799	.01296	.00108	-.00032	.00198	.02598	.15477
#2	.00794	.01271	.00097	-.00035	.00200	.02515	.15392
#3	.00801	.01304	.00104	-.00025	.00191	.02824	.15363

Sample Name: S1 Acquired: 10/28/2025 11:56:44 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5988.9	98029.	7664.4	4520.4	7583.9
Stddev	11.8	371.	41.1	15.0	8.1
%RSD	.19684	.37871	.53566	.33224	.10729
#1	5997.4	97631.	7702.2	4503.7	7591.8
#2	5975.4	98091.	7620.7	4524.9	7575.5
#3	5993.8	98366.	7670.3	4532.7	7584.3

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S2 Acquired: 10/28/2025 12:01:01 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**.04339**	**.03869**	**.20018**	**.03557**	**.08005**	**.17370**	**3.7415**	**.39647**	**1.1916**
Stddev	.00017	.00129	.00073	.00012	.00011	.00076	.0091	.00255	.0021
%RSD	.38885	3.3461	.36386	.33371	.13286	.43757	.24278	.64374	.17985
#1	.04323	.03735	.20087	.03544	.07996	.17437	3.7335	.39365	1.1914
#2	.04337	.03880	.20024	.03562	.08003	.17385	3.7514	.39716	1.1937
#3	.04356	.03993	.19942	.03566	.08017	.17288	3.7397	.39861	1.1895

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	**.23656**	**.03541**	**.41008**	**.13821**	**.00204**	**.16607**	**.04870**	**.23845**	**.04101**
Stddev	.00034	.00019	.00025	.00017	.00003	.00060	.00033	.00044	.00007
%RSD	.14561	.53195	.06202	.12476	1.7060	.36329	.67596	.18642	.16578
#1	.23620	.03528	.41009	.13826	.00202	.16540	.04868	.23872	.04093
#2	.23660	.03533	.41033	.13802	.00202	.16657	.04904	.23869	.04102
#3	.23688	.03563	.40983	.13835	.00208	.16624	.04838	.23794	.04106

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	**.02731**	**.05171**	**1.0679**	**.01378**	**.79844**	**.54368**	**.11921**	**.24132**	**.00215**
Stddev	.00007	.00063	.0030	.00001	.00304	.00142	.00043	.00058	.00004
%RSD	.25768	1.2114	.28033	.10622	.38061	.26170	.35888	.23937	1.9259
#1	.02723	.05243	1.0687	.01379	.79498	.54204	.11877	.24066	.00214
#2	.02733	.05144	1.0645	.01376	.79963	.54441	.11962	.24155	.00219
#3	.02737	.05127	1.0704	.01379	.80070	.54459	.11925	.24174	.00211

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03361**	**.02221**	**.75375**	**6.1635**
Stddev	.00029	.00015	.00198	.0158
%RSD	.84876	.67000	.26275	.25647
#1	.03329	.02206	.75328	6.1468
#2	.03382	.02220	.75593	6.1782
#3	.03372	.02236	.75205	6.1655

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S2 Acquired: 10/28/2025 12:01:01 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5946.6	97134.	7557.2	4493.2	7355.3
Stddev	13.4	284.	31.8	12.8	27.5
%RSD	.22531	.29206	.42070	.28459	.37398
#1	5954.1	97453.	7590.8	4502.0	7352.8
#2	5931.1	97037.	7553.0	4499.1	7329.1
#3	5954.5	96911.	7527.7	4478.6	7384.0

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S3 Acquired: 10/28/2025 12:05:04 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**.13757**	**.12756**	**.63772**	**.11161**	**.25147**	**.49461**	**11.726**	**1.2436**	**3.8570**
Stddev	.00152	.00389	.00493	.00122	.00224	.00115	.030	.0066	.0292
%RSD	1.1036	3.0501	.77357	1.0894	.89115	.23161	.25250	.53278	.75663
#1	.13834	.12872	.64119	.11219	.25210	.49593	11.760	1.2474	3.8748
#2	.13856	.13074	.63990	.11243	.25333	.49392	11.712	1.2475	3.8730
#3	.13583	.12322	.63207	.11021	.24898	.49397	11.706	1.2359	3.8234

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	**.74574**	**.11030**	**1.3110**	**.44272**	**.00634**	**.51571**	**.15290**	**.75877**	**.13037**
Stddev	.00201	.00035	.0103	.00354	.00004	.00211	.00032	.00596	.00028
%RSD	.26910	.31360	.78359	.80048	.66955	.40856	.20929	.78590	.21657
#1	.74779	.11018	1.3175	.44414	.00634	.51809	.15319	.76305	.13026
#2	.74565	.11004	1.3165	.44534	.00630	.51407	.15255	.76130	.13069
#3	.74378	.11070	1.2992	.43869	.00638	.51499	.15295	.75196	.13016

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	**.08461**	**.16437**	**3.2477**	**.04648**	**2.4414**	**1.7003**	**.38194**	**.76225**	**.00676**
Stddev	.00064	.00011	.0106	.00046	.0204	.0147	.00358	.00077	.00009
%RSD	.75568	.06687	.32760	.98602	.83414	.86163	.93781	.10057	1.3097
#1	.08461	.16450	3.2356	.04657	2.4476	1.7072	.38483	.76310	.00667
#2	.08397	.16430	3.2554	.04599	2.4580	1.7102	.38307	.76205	.00676
#3	.08525	.16432	3.2521	.04689	2.4187	1.6835	.37793	.76160	.00685

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11336**	**.06993**	**2.3547**	**19.469**
Stddev	.00164	.00100	.0058	.059
%RSD	1.4461	1.4293	.24724	.30368
#1	.11450	.07071	2.3608	19.538
#2	.11409	.07029	2.3539	19.438
#3	.11148	.06880	2.3493	19.433

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S3 Acquired: 10/28/2025 12:05:04 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5735.5	92454.	7452.6	4268.5	6847.5
Stddev	40.1	601.	17.7	22.4	49.1
%RSD	.69900	.65036	.23775	.52567	.71656
#1	5726.5	92884.	7450.8	4286.2	6821.4
#2	5700.7	92712.	7435.8	4276.1	6817.0
#3	5779.3	91767.	7471.1	4243.3	6904.1

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S4 Acquired: 10/28/2025 12:09:00 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**.26080**	**.24467**	**1.2128**	**.21083**	**.48055**	**.94547**	**23.546**	**2.5365**	**7.3996**
Stddev	.00024	.00436	.0025	.00019	.00090	.11142	2.467	.2611	.0147
%RSD	.09354	1.7838	.20447	.09215	.18709	11.785	10.479	10.292	.19805
#1	.26057	.24151	1.2122	.21062	.48061	.89681	22.103	2.3946	7.3959
#2	.26105	.24286	1.2106	.21100	.47962	.86666	22.140	2.3772	7.3871
#3	.26077	.24965	1.2155	.21087	.48142	1.0729	26.395	2.8378	7.4157

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	**1.5220**	**.20810**	**2.5340**	**.80426**	**.01190**	**1.0441**	**.31677**	**1.4611**	**.25092**
Stddev	.1856	.00203	.0045	.00112	.00019	.1253	.03905	.0025	.00265
%RSD	12.195	.97608	.17752	.13986	1.5724	12.005	12.329	.16985	1.0557
#1	1.4224	.21028	2.5333	.80413	.01193	.97520	.29613	1.4612	.25398
#2	1.4075	.20626	2.5299	.80320	.01169	.96830	.29237	1.4586	.24931
#3	1.7361	.20774	2.5388	.80544	.01206	1.1888	.36181	1.4636	.24948

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	**.16333**	**.34094**	**6.0786**	**.09093**	**5.0910**	**3.2448**	**.74339**	**1.5639**	**.01321**
Stddev	.00141	.04175	.0664	.00119	.5139	.0023	.00131	.1914	.00019
%RSD	.86172	12.246	1.0918	1.3086	10.095	.07212	.17623	12.240	1.4686
#1	.16345	.31842	6.1525	.09075	4.8109	3.2447	.74278	1.4583	.01325
#2	.16186	.31527	6.0239	.08984	4.7780	3.2425	.74250	1.4485	.01300
#3	.16467	.38911	6.0595	.09220	5.6841	3.2472	.74489	1.7849	.01338

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22171**	**.13790**	**4.7406**	**39.484**
Stddev	.00013	.00067	.5668	3.789
%RSD	.05802	.48479	11.956	9.5953
#1	.22184	.13713	4.4342	37.403
#2	.22173	.13836	4.3930	37.193
#3	.22158	.13820	5.3947	43.858

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S4 Acquired: 10/28/2025 12:09:00 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5726.6	91338.	7027.4	4188.6	6658.0
Stddev	6.3	748.	688.5	45.1	12.0
%RSD	.10928	.81844	9.7973	1.0758	.17990
#1	5727.8	90507.	7397.8	4151.9	6660.8
#2	5732.2	91955.	7451.3	4238.9	6668.3
#3	5719.9	91554.	6233.0	4174.8	6644.8

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S5 Acquired: 10/28/2025 12:13:11 Type: Cal
Method: 6010-200.7 NEW(v320) 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	**.52822**	**.51270**	**2.4981**	**.42711**	**.97026**	**1.7802**	**44.999**	**4.7222**	**15.179**
Stddev	.00047	.01956	.0020	.00127	.00128	.0295	.698	.1111	.021
%RSD	.08841	3.8159	.08103	.29729	.13193	1.6590	1.5504	2.3524	.13566
#1	.52807	.49861	2.4981	.42659	.96979	1.7727	44.643	4.6374	15.179
#2	.52784	.50445	2.4960	.42619	.96929	1.7552	44.550	4.6812	15.158
#3	.52874	.53504	2.5001	.42856	.97171	1.8128	45.803	4.8479	15.200

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	**2.8494**	**.40773**	**5.2123**	**1.5961**	**.02324**	**1.9755**	**.59765**	**2.9913**	**.49525**
Stddev	.0506	.00095	.0078	.0018	.00016	.0364	.01102	.0032	.00072
%RSD	1.7763	.23193	.15069	.11174	.68463	1.8404	1.8439	.10784	.14525
#1	2.8215	.40848	5.2166	1.5981	.02341	1.9499	.59172	2.9935	.49522
#2	2.8188	.40667	5.2032	1.5954	.02319	1.9595	.59087	2.9876	.49455
#3	2.9078	.40804	5.2170	1.5947	.02310	2.0171	.61037	2.9928	.49599

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	**.34148**	**.64491**	**11.802**	**.18290**	**9.4623**	**6.4859**	**1.5176**	**2.9681**	**.02636**
Stddev	.00271	.01071	.020	.00154	.2356	.0060	.0029	.0519	.00014
%RSD	.79215	1.6604	.16834	.83960	2.4896	.09169	.19298	1.7490	.53647
#1	.34439	.63914	11.824	.18449	9.2725	6.4879	1.5179	2.9414	.02648
#2	.34101	.63833	11.793	.18279	9.3885	6.4793	1.5145	2.9349	.02639
#3	.33905	.65727	11.788	.18142	9.7259	6.4906	1.5204	3.0279	.02620

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45643**	**.29129**	**9.3436**	**75.138**
Stddev	.00099	.00193	.1478	1.083
%RSD	.21727	.66105	1.5819	1.4412
#1	.45752	.28999	9.2715	73.893
#2	.45558	.29037	9.2456	75.660
#3	.45619	.29350	9.5136	75.861

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: S5 Acquired: 10/28/2025 12:13:11 Type: Cal
Method: 6010-200.7 NEW(v320) 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	5570.4	91559.	7271.2	4174.0	6272.0
Stddev	1.5	323.	155.5	21.7	3.8
%RSD	.02762	.35267	2.1389	.52016	.06122
#1	5571.5	91191.	7378.4	4148.9	6273.6
#2	5568.6	91798.	7342.5	4186.4	6274.7
#3	5570.9	91686.	7092.9	4186.7	6267.6

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICV01 Acquired: 10/28/2025 12:30:26 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**3.816502**	**3.893070**	**3.727328**	**3.815638**	**3.897947**	**7.293287**
Stddev	.012385	.051872	.003778	.008855	.015810	.020730
%RSD	.3244992	1.332418	.1013688	.2320615	.4055901	.2842338
#1	3.804430	3.833275	3.723092	3.808669	3.886116	7.308940
#2	3.829177	3.925985	3.730350	3.812642	3.891822	7.269777
#3	3.815897	3.919951	3.728543	3.825601	3.915903	7.301144

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.599335**	**.1907600**	**1.895843**	**18.77165**	**.7828788**	**1.916991**
Stddev	.031529	.0006410	.003300	.04975	.0030231	.001578
%RSD	.4148852	.3360163	.1740521	.2650447	.3861526	.0823340
#1	7.582275	.1900648	1.892454	18.82527	.7861194	1.915740
#2	7.635717	.1913277	1.899046	18.76269	.7823825	1.918765
#3	7.580012	.1908874	1.896028	18.72698	.7801346	1.916470

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9829378**	**3.831158**	**1.883496**	**18.77149**	**1.924480**	**.9625225**
Stddev	.0019394	.022143	.007831	.04413	.001787	.0014731
%RSD	.1973059	.5779755	.4157649	.2350967	.0928313	.1530409
#1	.9807794	3.848391	1.880899	18.81829	1.922438	.9630754
#2	.9835002	3.838900	1.892295	18.73063	1.925755	.9636391
#3	.9845339	3.806183	1.877292	18.76556	1.925247	.9608530

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.71515**	**1.880249**	**1.934059**	**18.95341**	**3.737876**	**3.904981**
Stddev	.19040	.002019	.004739	.12703	.017216	.007187
%RSD	1.017337	.1073947	.2450044	.6702045	.4605871	.1840398
#1	18.84514	1.880894	1.934957	19.06986	3.718263	3.897206
#2	18.80371	1.881867	1.938284	18.97242	3.750492	3.906357
#3	18.49661	1.877986	1.928935	18.81795	3.744874	3.911380

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICV01 Acquired: 10/28/2025 12:30:26 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.856078	3.740561	F 3.501274	F .0019609	F .0267884	F -.003367
Stddev	.006198	.008898	.013719	.0011875	.0008679	.001153
%RSD	.1607306	.2378887	.3918412	60.56017	3.239986	34.24393
#1	3.849972	3.736955	3.516976	.0033320	.0277023	-.002452
#2	3.862364	3.750696	3.495240	.0012619	.0266877	-.002987
#3	3.855898	3.734032	3.491605	.0012887	.0259751	-.004661

Elem	Sr4077
Units	ppm
Avg	F -.003360
Stddev	.000129
%RSD	3.830682
#1	-.003500
#2	-.003335
#3	-.003246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5881.039	94480.37	7587.184	4354.997	6935.874
Stddev	7.247	450.93	13.120	8.806	7.986
%RSD	.1232267	.4772691	.1729190	.2022077	.1151355
#1	5888.969	93959.86	7590.794	4344.903	6939.558
#2	5879.387	94728.82	7598.121	4361.106	6926.711
#3	5874.760	94752.43	7572.637	4358.984	6941.352

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LLICV01 Acquired: 10/28/2025 12:34:25 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0203439**	**.0443753**	**.0120394**	**.0207318**	**.0528719**	**.1036938**	**.0930198**
Stddev	.0012750	.0027900	.0005316	.0019242	.0022506	.0113140	.0008473
%RSD	6.267361	6.287339	4.415135	9.281230	4.256758	10.91101	.9109035
#1	.0217710	.0412072	.0126231	.0217642	.0554602	.1026789	.0935730
#2	.0199437	.0464657	.0115832	.0185117	.0513758	.0929214	.0934421
#3	.0193170	.0454531	.0119120	.0219194	.0517797	.1154811	.0920443

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064095**	**.0058633**	**1.994249**	**.0105723**	**.0298383**	**.0222482**	**.0988316**
Stddev	.0000396	.0000145	.012571	.0002579	.0001171	.0001417	.0054471
%RSD	.6174207	.2472568	.6303778	2.439303	.3924781	.6367322	5.511449
#1	.0064407	.0058749	2.002581	.0108351	.0298438	.0223939	.0927773
#2	.0064228	.0058681	2.000377	.0105620	.0297186	.0221110	.1003823
#3	.0063650	.0058470	1.979789	.0103197	.0299526	.0222396	.1033352

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0201140**	**2.051070**	**.0399499**	**.0119639**	**1.725940**	**.0372818**	**.0424688**
Stddev	.0004899	.013952	.0001669	.0006752	.006438	.0029473	.0003512
%RSD	2.435436	.6802375	.4178102	5.643837	.3730422	7.905372	.8270143
#1	.0206156	2.063740	.0399867	.0111862	1.718895	.0341156	.0428239
#2	.0196367	2.036117	.0397676	.0123037	1.727403	.0399456	.0424608
#3	.0200897	2.053352	.0400953	.0124016	1.731521	.0377841	.0421216

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.843861**	**.1053516**	**.2054043**	**.0406028**	**.0372095**	**.3505311**	**.0184465**
Stddev	.038123	.0002499	.0001659	.0005960	.0013212	.0088407	.0003957
%RSD	2.067569	.2372358	.0807755	1.467757	3.550739	2.522094	2.145093
#1	1.807771	.1053529	.2055754	.0399356	.0370724	.3607332	.0179921
#2	1.883735	.1051010	.2052441	.0410824	.0385940	.3457411	.0187155
#3	1.840077	.1056009	.2053934	.0407903	.0359622	.3451191	.0186318

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LLICV01 Acquired: 10/28/2025 12:34:25 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0190782	.0197520	.0198372
Stddev	.0036740	.0000877	.0001492
%RSD	19.25761	.4439690	.7522737
#1	.0166917	.0197997	.0200080
#2	.0172338	.0198055	.0197721
#3	.0233090	.0196508	.0197316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5778.435	94633.88	7322.641	4305.639	7349.239
Stddev	10.912	59.18	19.484	25.396	17.814
%RSD	.1888326	.0625392	.2660829	.5898198	.2423931
#1	5775.279	94637.65	7310.897	4306.259	7356.341
#2	5769.450	94572.90	7311.895	4279.940	7328.970
#3	5790.577	94691.09	7345.132	4330.719	7362.407

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICB01 Acquired: 10/28/2025 12:38:40 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001744**	**-.000618**	**.0001227**	**-.000616**	**.0006721**	**-.000921**	**.0022577**
Stddev	.002105	.001588	.0014742	.001839	.0010068	.009978	.0018914
%RSD	120.7372	256.8250	1201.215	298.6228	149.7952	1083.587	83.77657
#1	-.002729	-.002452	-.001346	.000421	-.000381	.006224	.0035832
#2	-.003175	.000317	.001602	-.002739	.001625	.003334	.0030981
#3	.000674	.000280	.000112	.000471	.000773	-.012321	.0000917

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000029**	**-.000009**	**.0081657**	**-.000006**	**.0000299**	**-.000033**	**-.002240**
Stddev	.000057	.000046	.0107736	.000227	.0001321	.000069	.009850
%RSD	193.3733	488.2181	131.9366	3693.258	441.5468	208.1914	439.6472
#1	.000021	.000017	.0206054	-.000025	.0000448	-.000062	-.012951
#2	-.000019	-.000062	.0018351	-.000223	.0001540	.000046	-.000200
#3	-.000091	.000017	.0020568	.000229	-.000109	-.000083	.006429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000169**	**-.032459**	**-.000093**	**.0000737**	**-.035029**	**-.002430**	**-.000272**
Stddev	.000208	.024621	.000316	.0002745	.021703	.002846	.000094
%RSD	123.3209	75.85161	338.5013	372.3160	61.95818	117.1034	34.45793
#1	.000049	-.004662	.000242	.0003664	-.048610	-.000356	-.000356
#2	-.000366	-.041193	-.000387	.0000327	-.046477	-.001260	-.000291
#3	-.000190	-.051523	-.000135	-.000178	-.009998	-.005675	-.000171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.068706**	**.0022493**	**.0003457**	**.0000986**	**.0015706**	**-.007145**	**-.001024**
Stddev	.030872	.0005163	.0001038	.0006735	.0022117	.006873	.000254
%RSD	44.93352	22.95149	30.02762	683.3675	140.8260	96.18101	24.76808
#1	-.034161	.0028320	.0002466	.0002187	-.000920	-.001843	-.001283
#2	-.093599	.0018490	.0004537	.0007040	.002327	-.004683	-.001013
#3	-.078357	.0020671	.0003368	-.000627	.003305	-.014910	-.000776

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICB01 Acquired: 10/28/2025 12:38:40 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.005580	.0021296	-.000042
Stddev	.001722	.0017980	.000136
%RSD	30.85479	84.42956	324.6160
#1	-.004152	.0006448	.000016
#2	-.005097	.0041287	-.000197
#3	-.007492	.0016152	.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5763.819	96291.02	7154.443	4430.306	7461.500
Stddev	208.315	791.75	3.515	28.892	267.728
%RSD	3.614179	.8222463	.0491371	.6521466	3.588130
#1	5839.247	95551.43	7151.331	4400.722	7555.166
#2	5528.297	97126.24	7153.743	4458.453	7159.523
#3	5923.913	96195.39	7158.256	4431.743	7669.812

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CRI01 Acquired: 10/28/2025 12:42:59 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194706**	**.0394005**	**.0115068**	**.0204525**	**.0522096**	**.1122271**	**.1025596**
Stddev	.0013917	.0023267	.0004859	.0025494	.0017577	.0095222	.0013963
%RSD	7.147897	5.905248	4.222710	12.46511	3.366662	8.484799	1.361491
#1	.0178734	.0369427	.0109657	.0196430	.0523216	.1073157	.1039340
#2	.0201151	.0396897	.0116489	.0233084	.0503985	.1232023	.1026023
#3	.0204233	.0415691	.0119058	.0184061	.0539086	.1061634	.1011423

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063970**	**.0057495**	**2.057200**	**.0104001**	**.0295750**	**.0220421**	**.0997663**
Stddev	.0000254	.0000640	.015599	.0002595	.0001192	.0001727	.0047438
%RSD	.3963604	1.113790	.7582788	2.494749	.4030575	.7833153	4.754929
#1	.0064001	.0057187	2.055812	.0106564	.0296477	.0219522	.1036347
#2	.0063703	.0058231	2.042340	.0104062	.0296398	.0222411	.0944735
#3	.0064207	.0057067	2.073446	.0101376	.0294374	.0219328	.1011907

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212174**	**2.095981**	**.0393936**	**.0105637**	**1.987756**	**.0378885**	**.0423789**
Stddev	.0003016	.032471	.0001416	.0003461	.015633	.0021060	.0003016
%RSD	1.421415	1.549216	.3595027	3.276586	.7864892	5.558452	.7117565
#1	.0209823	2.082213	.0395528	.0106755	1.973102	.0355239	.0427267
#2	.0215574	2.072661	.0393464	.0101755	2.004213	.0385793	.0421890
#3	.0211124	2.133067	.0392816	.0108402	1.985952	.0395624	.0422209

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.922192**	**.1038659**	**.2005293**	**.0391726**	**.0392697**	**.3501029**	**.0183427**
Stddev	.030879	.0008632	.0000339	.0000909	.0002431	.0113164	.0004300
%RSD	1.606439	.8311235	.0168907	.2319553	.6189262	3.232314	2.344444
#1	1.909040	.1029607	.2005245	.0392746	.0390397	.3452555	.0181616
#2	1.900066	.1039569	.2004980	.0391002	.0395240	.3630355	.0188337
#3	1.957469	.1046800	.2005653	.0391430	.0392455	.3420176	.0180329

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CRI01 Acquired: 10/28/2025 12:42:59 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0142650	.0228377	.0209742
Stddev	.0020150	.0014873	.0002184
%RSD	14.12540	6.512533	1.041298
#1	.0164632	.0216758	.0208941
#2	.0125055	.0223235	.0208071
#3	.0138262	.0245139	.0212213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5810.412	94694.72	7272.821	4389.202	7379.526
Stddev	7.911	261.06	17.071	8.782	19.226
%RSD	.1361443	.2756845	.2347233	.2000767	.2605280
#1	5816.248	94690.64	7291.325	4381.222	7374.326
#2	5801.408	94435.73	7269.454	4398.610	7363.434
#3	5813.579	94957.79	7257.685	4387.772	7400.816

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSA01 Acquired: 10/28/2025 12:47:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0057139**	**.0053565**	**.0049774**	**.0017128**	**-.001115**	**229.7387**	**.0008080**
Stddev	.0019476	.0025138	.0012498	.0067898	.001139	.3533	.0007756
%RSD	34.08580	46.92977	25.10902	396.4186	102.1583	.1537938	95.98580
#1	.0072533	.0067260	.0050241	.0092073	-.002191	229.5915	.0016456
#2	.0035244	.0068883	.0037049	-.000040	-.001231	230.1418	.0001147
#3	.0063641	.0024554	.0062031	-.004029	.000078	229.4828	.0006638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013405**	**.0020438**	**225.3896**	**.0483523**	**.0016484**	**.0126401**	**95.50001**
Stddev	.0000366	.0001523	.7194	.0004587	.0003157	.0009362	.58778
%RSD	2.730980	7.454262	.3191875	.9487127	19.15320	7.406745	.6154727
#1	.0013000	.0020424	225.1161	.0478333	.0014230	.0124756	95.66399
#2	.0013712	.0018921	226.2056	.0487034	.0020092	.0117970	95.98838
#3	.0013504	.0021968	224.8470	.0485203	.0015129	.0136476	94.84766

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000315**	**236.1686**	**.0068382**	**.0017115**	**.1536126**	**.0041150**	**.0036287**
Stddev	.000234	.5173	.0004887	.0001244	.0172227	.0035212	.0004876
%RSD	74.16819	.2190478	7.146630	7.266453	11.21180	85.56915	13.43648
#1	-.000554	236.0173	.0066590	.0018521	.1361522	.0015197	.0031527
#2	-.000088	236.7447	.0073913	.0016161	.1540982	.0081232	.0036064
#3	-.000303	235.7438	.0064645	.0016662	.1705875	.0027021	.0041270

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0780505**	**.0312595**	**.0010553**	**-.003307**	**-.005494**	**.0018054**	**.0038096**
Stddev	.0566453	.0054601	.0003220	.000640	.000535	.0090974	.0022498
%RSD	72.57519	17.46703	30.51079	19.33660	9.729833	503.8884	59.05558
#1	.0401430	.0331494	.0009808	-.003962	-.005832	-.005386	.0059133
#2	.1431665	.0355235	.0007771	-.003276	-.004877	.012032	.0040779
#3	.0508420	.0251055	.0014081	-.002684	-.005772	-.001230	.0014378

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSA01 Acquired: 10/28/2025 12:47:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.001996	F -.024859	.0032004
Stddev	.002638	.001687	.0003777
%RSD	132.1841	6.787032	11.80294
#1	-.000019	-.026802	.0027825
#2	-.000977	-.024014	.0033010
#3	-.004991	-.023762	.0035176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5592.608	89140.91	7482.062	4219.752	6128.307
Stddev	1.901	373.94	13.399	18.000	2.831
%RSD	.0339988	.4194967	.1790883	.4265742	.0461881
#1	5593.935	89069.33	7489.446	4206.052	6128.449
#2	5593.460	88807.93	7466.595	4213.065	6131.063
#3	5590.430	89545.47	7490.146	4240.139	6125.407

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSAB01 Acquired: 10/28/2025 12:51:25 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1040329**	**.1022025**	**.0524319**	**.0460779**	**.5774670**	**228.6215**
Stddev	.0018171	.0007483	.0011652	.0045574	.0023114	.4201
%RSD	1.746697	.7321618	2.222350	9.890630	.4002726	.1837548
#1	.1026450	.1013722	.0532678	.0479842	.5751416	228.1413
#2	.1060897	.1024105	.0529270	.0493727	.5774951	228.9208
#3	.1033640	.1028248	.0511008	.0408769	.5797643	228.8025

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4718955**	**.4885839**	**.9664487**	**223.3815**	**.5302202**	**.4881753**
Stddev	.0016989	.0009876	.0012282	.0926	.0004461	.0010441
%RSD	.3600109	.2021350	.1270863	.0414638	.0841407	.2138799
#1	.4702523	.4875129	.9662656	223.2798	.5306309	.4891326
#2	.4736451	.4894587	.9653223	223.4611	.5297455	.4870619
#3	.4717891	.4887800	.9677582	223.4035	.5302840	.4883313

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4725715**	**95.85246**	**.4630878**	**235.0999**	**.9675192**	**.2026387**
Stddev	.0011956	.19184	.0018984	.1324	.0008452	.0008183
%RSD	.2530019	.2001417	.4099468	.0563245	.0873570	.4038191
#1	.4718893	95.87709	.4608972	235.0937	.9683055	.2034841
#2	.4718731	95.64949	.4642553	234.9707	.9666254	.2025816
#3	.4739520	96.03079	.4641107	235.2353	.9676267	.2018505

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1293720**	**.4606624**	**1.004982**	**.0184667**	**.9328284**	**.9535449**
Stddev	.0402352	.0071099	.001835	.0149717	.0013625	.0024267
%RSD	31.10039	1.543398	.1826178	81.07397	.1460658	.2544913
#1	.1213554	.4540186	1.005298	.0334016	.9313185	.9512991
#2	.0937486	.4598076	1.006639	.0185400	.9339662	.9532164
#3	.1730120	.4681611	1.003010	.0034585	.9332006	.9561191

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSAB01 Acquired: 10/28/2025 12:51:25 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.9702959	.9273305	.9637627	F .0057791	F .0060402	F -.026160
Stddev	.0019726	.0011402	.0116092	.0017677	.0028579	.001455
%RSD	.2033025	.1229514	1.204573	30.58755	47.31467	5.560897
#1	.9695740	.9285197	.9720079	.0064182	.0028742	-.027556
#2	.9687858	.9262466	.9504866	.0037808	.0084294	-.024653
#3	.9725278	.9272253	.9687937	.0071384	.0068172	-.026273

Elem	Sr4077
Units	ppm
Avg	F .0013956
Stddev	.0002867
%RSD	20.54181
#1	.0011764
#2	.0017200
#3	.0012904

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5541.579	87508.83	7505.254	4092.284	6075.718
Stddev	16.210	226.66	14.308	11.989	12.583
%RSD	.2925144	.2590168	.1906378	.2929595	.2071017
#1	5555.377	87510.29	7518.015	4084.707	6078.769
#2	5545.634	87734.76	7507.962	4106.106	6086.496
#3	5523.727	87281.44	7489.786	4086.039	6061.891

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSA01DLX20 Acquired: 10/28/2025 12:55:26 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0007516**	**-.002974**	**.0005637**	**-.002199**	**-.001591**	**11.70626**	**-.002278**
Stddev	.0025336	.001575	.0005097	.002373	.001066	.04381	.000761
%RSD	337.0746	52.95789	90.42793	107.9281	67.00467	.3742350	33.41650
#1	-.001929	-.002132	.0005636	.000537	-.002669	11.66514	-.001535
#2	.003107	-.004792	.0000540	-.003428	-.001565	11.75234	-.003056
#3	.001077	-.002000	.0010734	-.003705	-.000538	11.70128	-.002243

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001468**	**.0000684**	**11.90736**	**.0028979**	**.0001131**	**.0009655**	**4.818596**
Stddev	.0000380	.0000187	.06613	.0003461	.0002110	.0003337	.035695
%RSD	25.88281	27.31155	.5553357	11.94478	186.6253	34.55801	.7407753
#1	.0001701	.0000503	11.83287	.0026550	-.000121	.0007501	4.813655
#2	.0001029	.0000673	11.95913	.0027444	.000170	.0013498	4.785629
#3	.0001673	.0000877	11.93008	.0032942	.000290	.0007965	4.856504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000071**	**12.28946**	**.0004431**	**-.000085**	**-.038309**	**-.001513**	**.0000702**
Stddev	.000328	.12717	.0000183	.000264	.007992	.001870	.0001649
%RSD	463.0911	1.034781	4.135851	311.4986	20.86083	123.5660	234.9036
#1	-.000302	12.18749	.0004608	-.000172	-.029120	-.003651	.0002604
#2	-.000215	12.43195	.0004242	-.000294	-.043640	-.000180	-.000031
#3	.000304	12.24893	.0004441	.000212	-.042166	-.000709	-.000019

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.015482**	**-.003475**	**.0002578**	**-.001419**	**.0005995**	**-.011598**	**.0000766**
Stddev	.021264	.000187	.0000496	.000609	.0011013	.000363	.0006516
%RSD	137.3439	5.388059	19.22019	42.94137	183.7045	3.126575	851.1789
#1	-.039936	-.003294	.0002043	-.002121	.0003050	-.011198	.0001404
#2	-.005165	-.003668	.0003021	-.001116	-.000325	-.011905	-.000605
#3	-.001345	-.003462	.0002672	-.001021	.001818	-.011691	.000694

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSA01DLX20 Acquired: 10/28/2025 12:55:26 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0000874	-.002126	.0001895
Stddev	.0011969	.001673	.0001134
%RSD	1369.520	78.69652	59.80208
#1	.0008966	-.004055	.0002855
#2	.0006530	-.001260	.0002186
#3	-.001287	-.001063	.0000645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5957.325	96974.50	7723.280	4464.782	7337.477
Stddev	28.076	351.10	98.029	17.326	33.099
%RSD	.4712851	.3620569	1.269267	.3880490	.4510922
#1	5989.698	96859.60	7735.555	4463.953	7375.574
#2	5939.636	96695.25	7619.691	4447.886	7315.787
#3	5942.641	97368.66	7814.593	4482.507	7321.069

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSAB01DLX20 Acquired: 10/28/2025 12:59:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0060229**	**.0035737**	**.0029975**	**.0024407**	**.0300787**	**12.66969**	**.0284462**
Stddev	.0014231	.0010113	.0007790	.0006207	.0017564	1.45729	.0052706
%RSD	23.62819	28.29991	25.98833	25.42942	5.839189	11.50219	18.52815
#1	.0072979	.0046916	.0031356	.0017758	.0312437	14.35242	.0345202
#2	.0044876	.0033071	.0021586	.0030048	.0309338	11.82652	.0257393
#3	.0062832	.0027223	.0036981	.0025414	.0280585	11.83013	.0250791

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0270470**	**.0479079**	**12.89393**	**.0281618**	**.0244732**	**.0263836**	**4.952633**
Stddev	.0025459	.0000484	1.47873	.0003084	.0001235	.0002034	.113653
%RSD	9.412819	.1011116	11.46846	1.094945	.5048250	.7708043	2.294793
#1	.0299864	.0478722	14.60091	.0284311	.0244471	.0261576	5.083863
#2	.0256189	.0478886	12.07682	.0278254	.0243648	.0265518	4.886139
#3	.0255358	.0479631	12.00405	.0282288	.0246078	.0264415	4.887896

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0272991**	**13.24667**	**.0489300**	**.0094458**	**-.045656**	**.0265310**	**.0514815**
Stddev	.0029604	1.49488	.0001469	.0005413	.022859	.0041730	.0000812
%RSD	10.84429	11.28493	.3002241	5.730591	50.06660	15.72868	.1578095
#1	.0306095	14.97276	.0487605	.0091509	-.021513	.0311469	.0514027
#2	.0249056	12.39400	.0490090	.0091160	-.048490	.0230257	.0514768
#3	.0263822	12.37324	.0490206	.0100705	-.066966	.0254205	.0515650

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.067226**	**.0479084**	**.0509130**	**.0465593**	**.0524593**	**.0264381**	**.0003361**
Stddev	.020347	.0048776	.0002251	.0002934	.0069731	.0017048	.0013793
%RSD	30.26596	10.18102	.4421597	.6301164	13.29236	6.448212	410.4614
#1	-.072662	.0535290	.0511578	.0462443	.0604113	.0244701	.0019149
#2	-.084304	.0447860	.0508663	.0466090	.0473889	.0274612	-.000272
#3	-.044714	.0454103	.0507149	.0468247	.0495775	.0273829	-.000635

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: ICSAB01DLX20 Acquired: 10/28/2025 12:59:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.002270	.0002593	.0005443
Stddev	.002210	.0005854	.0004708
%RSD	97.33726	225.7340	86.50155
#1	.000251	.0009300	.0010868
#2	-.003191	-.000149	.0002427
#3	-.003871	-.000003	.0003033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5867.116	95081.42	7167.566	4412.493	7207.056
Stddev	4.709	249.99	639.452	28.056	4.999
%RSD	.0802617	.2629213	8.921465	.6358223	.0693614
#1	5863.227	94811.60	6429.435	4382.661	7212.470
#2	5872.352	95127.49	7520.185	4416.470	7202.614
#3	5865.769	95305.17	7553.079	4438.348	7206.084

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV01 Acquired: 10/28/2025 13:03:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.945892**	**5.023467**	**4.910457**	**4.960691**	**4.966273**	**10.37952**	**10.00991**
Stddev	.022117	.212920	.009158	.031397	.020622	.01178	.07550
%RSD	.4471692	4.238502	.1865000	.6329243	.4152478	.1134503	.7542703
#1	4.960283	5.164401	4.911872	4.989491	4.979316	10.38930	9.93694
#2	4.956968	5.127464	4.918826	4.965363	4.977005	10.38282	10.00508
#3	4.920426	4.778535	4.900674	4.927219	4.942498	10.36645	10.08771

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2458637**	**2.478082**	**24.62855**	**.9885498**	**2.485676**	**1.249728**	**5.031499**
Stddev	.0011287	.003645	.07152	.0010602	.003252	.002333	.009473
%RSD	.4590815	.1471075	.2903772	.1072457	.1308366	.1866550	.1882707
#1	.2447038	2.480061	24.55712	.9874650	2.487907	1.251719	5.021443
#2	.2469584	2.480310	24.62838	.9895835	2.487178	1.250303	5.032801
#3	.2459289	2.473875	24.70015	.9886010	2.481945	1.247161	5.040254

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.479760**	**24.21883**	**2.476958**	**1.241782**	**24.54996**	**2.457518**	**2.501257**
Stddev	.013859	.06212	.002629	.001474	.19189	.010510	.006646
%RSD	.5588951	.2564758	.1061403	.1186666	.7816471	.4276503	.2656967
#1	2.465232	24.20062	2.477251	1.241557	24.44756	2.448800	2.497933
#2	2.481214	24.16786	2.479429	1.243355	24.43098	2.454567	2.496929
#3	2.492836	24.28802	2.474195	1.240434	24.77133	2.469188	2.508909

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.65783**	**4.928301**	**4.994051**	**4.983963**	**4.912660**	**4.878717**	**5.036950**
Stddev	.10424	.021289	.017013	.018151	.015874	.024368	.016730
%RSD	.4227456	.4319706	.3406706	.3641932	.3231341	.4994796	.3321390
#1	24.63370	4.910170	5.008452	4.997027	4.898805	4.866296	5.053077
#2	24.56777	4.951742	4.998423	4.991623	4.909194	4.863062	5.038095
#3	24.77202	4.922992	4.975279	4.963237	4.929981	4.906793	5.019677

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV01 Acquired: 10/28/2025 13:03:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.966617**	**4.820236**	**4.971011**
Stddev	.047429	.023845	.055140
%RSD	.9549608	.4946865	1.109225
#1	5.007083	4.797699	4.958027
#2	4.978343	4.817805	5.031484
#3	4.914424	4.845203	4.923521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5807.985**	**94321.06**	**7494.363**	**4425.864**	**6713.503**
Stddev	5.822	203.69	36.181	10.993	3.803
%RSD	.1002497	.2159586	.4827782	.2483784	.0566511
#1	5802.743	94530.23	7534.758	4436.615	6710.373
#2	5806.960	94309.62	7464.932	4426.334	6712.400
#3	5814.252	94123.32	7483.399	4414.644	6717.735

Sample Name: CCB01 Acquired: 10/28/2025 13:08:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0006245**	**-.000448**	**-.000419**	**.0013214**	**-.000256**	**.0235350**	**-.003998**
Stddev	.0008377	.000176	.000401	.0009484	.000686	.0040817	.000714
%RSD	134.1455	39.27747	95.75059	71.77739	268.2133	17.34288	17.85815
#1	.0015675	-.000535	-.000324	.0023894	.000533	.0282481	-.004587
#2	-.000033	-.000246	-.000074	.0005778	-.000589	.0211738	-.004204
#3	.000339	-.000564	-.000859	.0009969	-.000711	.0211832	-.003204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000023**	**.0000294**	**.0105860**	**.0003651**	**.0000847**	**.0000340**	**.0132102**
Stddev	.000040	.0000328	.0075210	.0000527	.0000821	.0001589	.0097886
%RSD	177.4630	111.2616	71.04648	14.44291	96.90199	467.2294	74.09877
#1	-.000014	.0000531	.0038470	.0003078	.0001469	.0000653	.0023759
#2	.000012	.0000432	.0186994	.0004116	-.000008	-.000138	.0214166
#3	-.000066	-.000008	.0092117	.0003757	.000116	.000175	.0158380

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003496**	**-.007092**	**-.000281**	**-.000075**	**-.043045**	**-.001218**	**.0009116**
Stddev	.0005813	.027392	.000217	.000124	.009685	.002150	.0000751
%RSD	166.2691	386.2633	77.15041	165.5539	22.49943	176.5730	8.237734
#1	.0007108	-.010839	-.000471	.000058	-.036755	-.000458	.0009262
#2	.0006590	.021981	-.000045	-.000189	-.054197	.000449	.0008303
#3	-.000321	-.032417	-.000328	-.000095	-.038181	-.003645	.0009783

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0188756**	**.0015007**	**.0004862**	**.0010059**	**.0003254**	**-.024052**	**-.000357**
Stddev	.0081103	.0002770	.0000393	.0002754	.0007313	.002428	.001323
%RSD	42.96707	18.46060	8.075497	27.37675	224.7619	10.09315	370.2673
#1	.0223598	.0018070	.0005299	.0012277	.0009452	-.025485	-.001191
#2	.0096054	.0012675	.0004540	.0006976	.0005120	-.021249	.001168
#3	.0246617	.0014278	.0004745	.0010923	-.000481	-.025423	-.001049

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB01 Acquired: 10/28/2025 13:08:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.006128	-.001800	-.000010
Stddev	.002645	.001662	.000027
%RSD	43.15454	92.36615	281.0485
#1	-.009132	-.001285	-.000015
#2	-.005100	-.000455	.000020
#3	-.004152	-.003658	-.000033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5986.999	97469.57	7665.921	4485.444	7706.454
Stddev	10.260	44.21	4.757	9.368	8.149
%RSD	.1713685	.0453567	.0620564	.2088595	.1057379
#1	5979.522	97470.10	7670.096	4475.601	7697.153
#2	5982.779	97425.09	7666.924	4494.252	7709.871
#3	5998.696	97513.51	7660.742	4486.481	7712.338

Sample Name: LR-1 Acquired: 10/28/2025 13:12:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0056792**	**.0127918**	**.0140720**	**-.016239**	**.0151141**	**.5051667**	**.0170207**
Stddev	.0054389	.0005365	.0021503	.004554	.0022376	.0231577	.0013361
%RSD	95.76762	4.193782	15.28069	28.04338	14.80495	4.584178	7.850070
#1	.0088192	.0121966	.0123313	-.021097	.0140581	.5178060	.0154779
#2	-.000601	.0129408	.0134091	-.012066	.0176843	.5192547	.0177827
#3	.008820	.0132381	.0164757	-.015555	.0135999	.4784396	.0178015

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010204**	**.0015397**	**2165.999**	**.1030071**	**.0076097**	**.0132332**	**1.145220**
Stddev	.0000967	.0002060	31.937	.0007384	.0000922	.0004731	.017896
%RSD	9.474149	13.37767	1.474469	.7168276	1.211389	3.575266	1.562639
#1	.0010576	.0013593	2199.729	.1031113	.0075932	.0135310	1.124844
#2	.0009106	.0017642	2162.043	.1022221	.0075269	.0134809	1.152433
#3	.0010929	.0014957	2136.224	.1036878	.0077091	.0126876	1.158384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0350034**	**2200.091**	**.0713719**	**.0030873**	**2454.451**	**.0113923**	**.0853256**
Stddev	.0009669	5.633	.0004555	.0001100	22.216	.0006100	.0003371
%RSD	2.762359	.2560549	.6382736	3.561530	.9051251	5.354213	.3950420
#1	.0350639	2205.760	.0716596	.0032057	2443.509	.0115637	.0852939
#2	.0359387	2200.019	.0716094	.0030679	2439.828	.0118982	.0850055
#3	.0340077	2194.494	.0708467	.0029884	2480.015	.0107149	.0856774

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.091491**	**.0080365**	**.0180737**	**.0099521**	**-.097862**	**-.024560**	**.0191119**
Stddev	.297036	.0004993	.0002955	.0015028	.000735	.011143	.0048795
%RSD	14.20213	6.212510	1.635007	15.10072	.7509115	45.37013	25.53101
#1	1.788576	.0075154	.0177366	.0093153	-.097040	-.022165	.0243555
#2	2.103621	.0080834	.0182880	.0088725	-.098091	-.014809	.0147047
#3	2.382277	.0085107	.0181965	.0116685	-.098456	-.036705	.0182757

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LR-1 Acquired: 10/28/2025 13:12:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2564492	-.323195	.0581101
Stddev	.0112040	.008207	.0001842
%RSD	4.368887	2.539395	.3170441
#1	.2444375	-.332331	.0582941
#2	.2666165	-.320810	.0581106
#3	.2582937	-.316445	.0579256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3943.413	65701.08	6713.311	2962.065	4213.693
Stddev	6.036	46.82	27.052	15.589	4.746
%RSD	.1530593	.0712550	.4029668	.5262856	.1126361
#1	3938.605	65650.12	6708.544	2944.587	4208.216
#2	3941.449	65742.18	6688.959	2974.532	4216.594
#3	3950.187	65710.94	6742.430	2967.078	4216.269

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LR-3 Acquired: 10/28/2025 13:21:18 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1003953**	**.0247033**	**227.1781**	**-.001409**	**.0998010**	**.1141206**	**-.000327**
Stddev	.0033167	.0032307	.4803	.003644	.0048401	.0022378	.000719
%RSD	3.303609	13.07817	.2114011	258.7232	4.849719	1.960919	219.9341
#1	.1042249	.0226932	226.7043	-.003634	.0961316	.1165080	-.000704
#2	.0985123	.0284300	227.1655	.002797	.0979848	.1120708	.000502
#3	.0984488	.0229867	227.6645	-.003389	.1052864	.1137830	-.000779

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004675**	**-.001517**	**.2612722**	**24.28287**	**.0066771**	**51.05037**	**.2383067**
Stddev	.000112	.000049	.0135326	.13328	.0000549	.10484	.0116938
%RSD	2.391324	3.203156	5.179493	.5488728	.8225365	.2053639	4.907040
#1	-.004553	-.001560	.2485251	24.36800	.0066153	51.09979	.2371343
#2	-.004774	-.001526	.2754729	24.35133	.0066955	50.92996	.2505426
#3	-.004696	-.001464	.2598187	24.12927	.0067205	51.12137	.2272433

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.73471**	**-.178484**	**23.47312**	**.0035920**	**.6647927**	**-.033353**	**29.95560**
Stddev	.22843	.019193	.01350	.0004326	.0315196	.002945	.63072
%RSD	.4331644	10.75334	.0575121	12.04244	4.741264	8.829026	2.105524
#1	52.72281	-.170937	23.46667	.0038868	.6748182	-.036030	30.65330
#2	52.96886	-.200304	23.46404	.0030954	.6900802	-.030199	29.42586
#3	52.51247	-.164212	23.48863	.0037939	.6294798	-.033831	29.78762

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5560424**	**-.003145**	**-.013576**	**.0104048**	**-.043585**	**-.101720**	**.1230245**
Stddev	.0411280	.000684	.000287	.0008403	.000133	.007334	.0006828
%RSD	7.396559	21.73684	2.110494	8.075661	.3056575	7.209754	.5550086
#1	.5706377	-.002903	-.013668	.0096453	-.043555	-.099773	.1225563
#2	.5878823	-.002615	-.013255	.0102617	-.043730	-.095556	.1227092
#3	.5096072	-.003917	-.013806	.0113074	-.043469	-.109830	.1238080

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LR-3 Acquired: 10/28/2025 13:21:18 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0612120	.0035135	.0003711
Stddev	.0063064	.0012611	.0000326
%RSD	10.30257	35.89398	8.775460
#1	.0665916	.0030789	.0003956
#2	.0542718	.0025271	.0003835
#3	.0627726	.0049345	.0003341

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5450.311	94616.29	7613.279	4184.188	7125.881
Stddev	13.351	215.58	36.664	7.005	16.433
%RSD	.2449600	.2278465	.4815834	.1674051	.2306116
#1	5453.455	94374.84	7612.354	4183.720	7139.550
#2	5461.809	94684.54	7577.087	4191.414	7130.446
#3	5435.668	94789.48	7650.398	4177.428	7107.649

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-01 Acquired: 10/28/2025 13:26:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0231491**	**-.006590**	**.1218213**	**.0022044**	**.0021505**	**.1169106**	**.0657147**
Stddev	.0004642	.003220	.0016409	.0051724	.0006386	.0034068	.0008707
%RSD	2.005230	48.86219	1.346942	234.6437	29.69642	2.914005	1.325009
#1	.0234118	-.007635	.1232805	.0076833	.0014218	.1163107	.0651544
#2	.0226132	-.009158	.1221384	-.002594	.0024174	.1205774	.0667178
#3	.0234225	-.002977	.1200451	.001524	.0026125	.1138435	.0652718

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003648**	**.0015771**	**1.684047**	**.0020292**	**.0100600**	**.0089323**	**29.98981**
Stddev	.0000769	.0000372	.014273	.0000217	.0001062	.0004951	.40296
%RSD	21.07947	2.359312	.8475555	1.067058	1.055130	5.543353	1.343652
#1	.0002989	.0016124	1.673600	.0020089	.0101771	.0093346	29.76472
#2	.0003462	.0015807	1.700310	.0020265	.0099702	.0090829	29.74967
#3	.0004493	.0015382	1.678231	.0020520	.0100325	.0083793	30.45502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1998016**	**.3354645**	**.0648097**	**.0006417**	**219.4253**	**-.000747**	**.8263819**
Stddev	.0004995	.0253632	.0003575	.0001955	2.8797	.003023	.0021282
%RSD	.2499937	7.560611	.5516131	30.46173	1.312404	404.4810	.2575272
#1	.2002148	.3229265	.0647766	.0008170	218.3860	-.003129	.8247690
#2	.1992465	.3646549	.0651826	.0004309	217.2096	.002654	.8255828
#3	.1999435	.3188122	.0644699	.0006773	222.6805	-.001767	.8287940

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8728901**	**.0252760**	**.0151651**	**-.010807**	**.0016725**	**1.879340**	**.0109604**
Stddev	.0152061	.0014319	.0001299	.000355	.0018643	.044749	.0009119
%RSD	1.742043	5.665110	.8563822	3.283773	111.4631	2.381106	8.320024
#1	.8570323	.0241254	.0153149	-.011214	.0035317	1.842005	.0117181
#2	.8873476	.0248230	.0150834	-.010647	.0016827	1.867073	.0099483
#3	.8742904	.0268796	.0150971	-.010561	-.000197	1.928944	.0112146

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-01 Acquired: 10/28/2025 13:26:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**2.265557**	**.0001246**	**-.021976**
Stddev	.026157	.0004095	.000376
%RSD	1.154529	328.5322	1.711516
#1	2.290935	.0002390	-.021770
#2	2.267051	-.000330	-.021748
#3	2.238686	.000465	-.022410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5491.621**	**89457.47**	**7482.251**	**4156.770**	**6582.592**
Stddev	14.907	96.08	94.916	13.705	21.532
%RSD	.2714530	.1074083	1.268548	.3296918	.3271088
#1	5474.412	89566.97	7441.344	4171.937	6560.767
#2	5500.579	89418.21	7414.647	4145.276	6583.191
#3	5499.871	89387.24	7590.761	4153.097	6603.819

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LR-2 Acquired: 10/28/2025 13:30:52 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1093788**	**-.138098**	**.1759350**	**-.013530**	**-.100093**	**1837.090**	**.0235323**
Stddev	.0026254	.008080	.0035912	.016579	.008658	17.909	.0011570
%RSD	2.400314	5.850884	2.041230	122.5390	8.649753	.9748546	4.916711
#1	.1097205	-.147368	.1724819	-.016483	-.102543	1825.142	.0227869
#2	.1118166	-.134374	.1756730	.004328	-.107262	1857.681	.0248651
#3	.1065992	-.132551	.1796501	-.028434	-.090474	1828.447	.0229447

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0416002**	**.0342404**	**^ *****	**-.272206**	**.0665805**	**.2728344**	**2840.565**
Stddev	.0002574	.0035837	-----	.003597	.0004199	.0089675	26.015
%RSD	.6186513	10.46625	-----	1.321388	.6306130	3.286802	.9158291
#1	.0413898	.0303299	^ -----	-.276320	.0668903	.2643557	2869.801
#2	.0415236	.0350236	13.75357	-.270644	.0661026	.2822216	2831.923
#3	.0418871	.0373678	14.28532	-.269654	.0667486	.2719260	2819.971

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.515572**	**1.222831**	**.0488745**	**^ *****	**3.964364**	**.0446622**	**.0910201**
Stddev	.001150	.053297	.0007615	-----	.063732	.0010077	.0037274
%RSD	.2230558	4.358513	1.557994	-----	1.607620	2.256218	4.095134
#1	-.515737	1.164232	.0480065	^ -----	3.974790	.0446834	.0881290
#2	-.514348	1.268415	.0494299	^ -----	3.896062	.0456591	.0897044
#3	-.516630	1.235845	.0491872	^ -----	4.022240	.0436441	.0952269

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1880.218**	**^ *****	**-.015199**	**.0271753**	**.0051052**	**.5020912**	**.0865339**
Stddev	9.494	-----	.000549	.0013685	.0005522	.0046835	.0030007
%RSD	.5049530	-----	3.610851	5.035809	10.81624	.9328028	3.467681
#1	1885.597	^ -----	-.015252	.0263949	.0045662	.4967105	.0855187
#2	1885.801	^ -----	-.014626	.0263754	.0056697	.5043115	.0899105
#3	1869.256	^ -----	-.015720	.0287554	.0050796	.5052517	.0841724

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: LR-2 Acquired: 10/28/2025 13:30:52 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.514439	k .2839410	-2.72319
Stddev	.011436	.0041400	.02496
%RSD	2.223038	1.458054	.9165410
#1	-.525853	k .2886103	-2.75121
#2	-.514483	.2807185	-2.71502
#3	-.502980	.2824944	-2.70334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5031.925	77347.62	7251.401	3750.005	5170.615
Stddev	3.160	379.88	75.783	18.770	2.482
%RSD	.0627915	.4911368	1.045086	.5005350	.0480099
#1	5030.139	76912.44	7333.034	3728.994	5168.298
#2	5030.063	77517.49	7183.287	3765.115	5170.310
#3	5035.573	77612.93	7237.881	3755.907	5173.235

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-02 Acquired: 10/28/2025 13:35:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0029489**	**-.004136**	**.0953226**	**.0037631**	**.0020820**	**.3207320**	**.1655020**
Stddev	.0010430	.002671	.0007305	.0017782	.0004965	.0034043	.0004622
%RSD	35.36853	64.57370	.7663772	47.25431	23.84887	1.061408	.2792922
#1	.0041142	-.001507	.0953241	.0019349	.0026457	.3216747	.1660354
#2	.0021029	-.006847	.0945914	.0038677	.0017095	.3169558	.1652523
#3	.0026295	-.004054	.0960524	.0054868	.0018907	.3235657	.1652184

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000963**	**.0015898**	**1.266682**	**.0035227**	**.0049008**	**.7500192**	**13.38163**
Stddev	.0000054	.0000181	.003014	.0002835	.0001338	.0018885	.17274
%RSD	5.570675	1.137925	.2379429	8.047306	2.730356	.2517978	1.290896
#1	.0001012	.0015743	1.269965	.0033853	.0049849	.7484983	13.18231
#2	.0000905	.0015855	1.264039	.0033340	.0049711	.7494263	13.48779
#3	.0000971	.0016097	1.266044	.0038487	.0047465	.7521330	13.47481

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1763658**	**.2815095**	**.0522416**	**.0001059**	**310.2196**	**.0002876**	**.2902270**
Stddev	.0010361	.0157902	.0004127	.0001602	.7141	.0019896	.0003695
%RSD	.5874628	5.609133	.7900082	151.2907	.2301780	691.7657	.1273293
#1	.1752556	.2644128	.0524399	.0001771	310.5597	-.001187	.2904833
#2	.1765350	.2955450	.0517672	-.000078	309.3990	-.000501	.2898034
#3	.1773069	.2845706	.0525177	.000218	310.7000	.002551	.2903943

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4421431**	**.0195776**	**.0005983**	**-.013545**	**-.000153**	**.8029114**	**.0053153**
Stddev	.0336943	.0002110	.0001660	.000334	.000598	.0214399	.0010021
%RSD	7.620689	1.077724	27.73852	2.463571	390.4130	2.670265	18.85226
#1	.4053607	.0196633	.0006972	-.013656	-.000767	.7929835	.0050323
#2	.4715161	.0197323	.0006910	-.013809	.000428	.7882350	.0064284
#3	.4495526	.0193373	.0004067	-.013170	-.000120	.8275157	.0044852

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-02 Acquired: 10/28/2025 13:35:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.8601334	-.002717	-.007107
Stddev	.0057861	.001452	.000135
%RSD	.6727016	53.45069	1.893125
#1	.8602951	-.003035	-.006952
#2	.8658370	-.001132	-.007179
#3	.8542681	-.003984	-.007191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5416.190	88104.74	7341.897	4087.969	6433.120
Stddev	9.127	259.57	56.904	9.754	16.680
%RSD	.1685134	.2946125	.7750585	.2386086	.2592792
#1	5426.647	88279.11	7288.442	4097.438	6452.257
#2	5409.824	87806.43	7335.533	4077.952	6421.668
#3	5412.099	88228.67	7401.715	4088.517	6425.435

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-03 Acquired: 10/28/2025 13:39:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000170**	**-.001967**	**.2579799**	**.0034331**	**.0033591**	**.1376059**	**.1450533**
Stddev	.001165	.000884	.0013030	.0017299	.0011278	.0117608	.0026010
%RSD	685.4181	44.95131	.5050670	50.38828	33.57404	8.546757	1.793116
#1	-.000824	-.002986	.2594564	.0032080	.0038641	.1277226	.1445152
#2	-.000861	-.001396	.2574922	.0018268	.0041461	.1506134	.1478813
#3	.001175	-.001520	.2569911	.0052645	.0020671	.1344818	.1427635

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000396**	**.0019684**	**.7049073**	**.0069572**	**.0045685**	**2.241796**	**7.164064**
Stddev	.0000146	.0000852	.0096013	.0003601	.0001839	.006146	.052492
%RSD	36.87071	4.327330	1.362073	5.175409	4.026315	.2741508	.7327117
#1	.0000404	.0020464	.7146610	.0067684	.0044216	2.248491	7.113430
#2	.0000246	.0018775	.6954659	.0067307	.0047748	2.236410	7.218235
#3	.0000537	.0019814	.7045948	.0073724	.0045092	2.240487	7.160528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0416767**	**.2314008**	**.0656204**	**-.000207**	**296.1462**	**-.003183**	**.2176994**
Stddev	.0007502	.0499064	.0002341	.000285	4.4433	.003844	.0022566
%RSD	1.799987	21.56708	.3567417	137.5313	1.500379	120.7871	1.036547
#1	.0412210	.2393815	.0656323	-.000413	301.2030	-.000161	.2157350
#2	.0425425	.2768360	.0658483	.000118	292.8661	-.001877	.2171991
#3	.0412664	.1779849	.0653805	-.000326	294.3696	-.007510	.2201641

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6488473**	**.0195097**	**.0008087**	**-.013687**	**.0016572**	**1.117325**	**.0086734**
Stddev	.0053029	.0008661	.0000636	.000146	.0017824	.017272	.0008761
%RSD	.8172827	4.439568	7.865252	1.068367	107.5528	1.545876	10.10142
#1	.6494343	.0196606	.0008821	-.013525	.0036870	1.105120	.0077182
#2	.6432753	.0202905	.0007718	-.013810	.0009369	1.137088	.0094397
#3	.6538323	.0185780	.0007721	-.013726	.0003477	1.109767	.0088623

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-03 Acquired: 10/28/2025 13:39:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.6968565	-.001448	-.002449
Stddev	.0025261	.001368	.000045
%RSD	.3625049	94.50693	1.826883
#1	.6977996	-.003027	-.002417
#2	.6939945	-.000693	-.002430
#3	.6987754	-.000623	-.002500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5420.468	87089.28	7212.564	4024.007	6456.805
Stddev	15.181	400.92	56.792	22.601	20.683
%RSD	.2800769	.4603541	.7874092	.5616468	.3203297
#1	5403.068	86627.01	7149.199	4013.686	6433.180
#2	5427.319	87342.08	7229.619	4049.926	6465.589
#3	5431.016	87298.74	7258.875	4008.410	6471.646

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-04 Acquired: 10/28/2025 13:44:02 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0027316**	**-.003493**	**.1334153**	**.0026847**	**.0042239**	**.1400891**	**.1693985**
Stddev	.0009345	.003127	.0004239	.0015630	.0009424	.0079516	.0050733
%RSD	34.21213	89.50755	.3177494	58.21639	22.31101	5.676104	2.994908
#1	.0038091	.000093	.1334163	.0038608	.0040647	.1401618	.1751052
#2	.0022419	-.004926	.1338388	.0032822	.0033713	.1321014	.1653990
#3	.0021436	-.005647	.1329910	.0009112	.0052358	.1480041	.1676912

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000314**	**.0018435**	**.6689581**	**.0041151**	**.0035326**	**1.789903**	**7.177277**
Stddev	.0000755	.0000728	.0116591	.0000414	.0000873	.005519	.048888
%RSD	240.2268	3.949568	1.742872	1.006633	2.472342	.3083160	.6811549
#1	.0000474	.0017778	.6821529	.0041402	.0036258	1.792341	7.226534
#2	-.000051	.0018309	.6600459	.0041377	.0034527	1.793783	7.176531
#3	.000098	.0019217	.6646756	.0040672	.0035192	1.783586	7.128766

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0325807**	**.3923505**	**.0544635**	**-.000339**	**319.6029**	**-.002201**	**.2081192**
Stddev	.0013586	.0325389	.0003233	.000113	3.3065	.001976	.0005411
%RSD	4.170030	8.293332	.5935478	33.39545	1.034575	89.79797	.2599753
#1	.0336554	.4280668	.0545390	-.000407	323.2239	-.000086	.2082594
#2	.0310536	.3845940	.0547423	-.000402	316.7439	-.004001	.2085764
#3	.0330331	.3643908	.0541091	-.000208	318.8408	-.002515	.2075219

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4871818**	**.0177022**	**.0007554**	**-.013499**	**.0020002**	**.9422338**	**.0095681**
Stddev	.0182114	.0004946	.0002882	.000359	.0016541	.0184495	.0007574
%RSD	3.738118	2.793802	38.14929	2.661183	82.69737	1.958064	7.916235
#1	.4795045	.0178395	.0006691	-.013224	.0033118	.9438919	.0104420
#2	.5079749	.0171535	.0005202	-.013905	.0025468	.9230112	.0091005
#3	.4740662	.0181136	.0010769	-.013367	.0001420	.9597984	.0091618

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-04 Acquired: 10/28/2025 13:44:02 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7133878	-.002244	-.002431
Stddev	.0065498	.002516	.000071
%RSD	.9181199	112.1182	2.916160
#1	.7089842	-.000211	-.002428
#2	.7102647	-.005058	-.002503
#3	.7209146	-.001463	-.002361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5403.286	86720.70	7255.812	4048.215	6391.062
Stddev	14.504	208.53	165.120	4.713	18.521
%RSD	.2684363	.2404655	2.275692	.1164266	.2897950
#1	5395.256	86515.61	7089.459	4050.196	6386.425
#2	5394.572	86932.51	7419.670	4051.615	6375.300
#3	5420.029	86713.98	7258.307	4042.835	6411.461

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-05 Acquired: 10/28/2025 13:48:25 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000292**	**-.005048**	**.1362191**	**.0034363**	**.0034980**	**.1130360**	**.1555244**
Stddev	.001168	.001626	.0004326	.0006100	.0019383	.0072947	.0025394
%RSD	399.5583	32.20506	.3176082	17.75159	55.41120	6.453422	1.632795
#1	-.001468	-.005817	.1362674	.0030252	.0014526	.1154586	.1568906
#2	.000866	-.006148	.1366255	.0041372	.0053076	.1048383	.1570881
#3	-.000275	-.003181	.1357643	.0031466	.0037339	.1188113	.1525944

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000072**	**.0019250**	**1.055147**	**.0069996**	**.0039272**	**1.442573**	**9.044466**
Stddev	.0000160	.0001140	.004814	.0000343	.0001117	.003310	.014796
%RSD	221.9884	5.923824	.4562690	.4905615	2.843573	.2294432	.1635889
#1	-.000009	.0018858	1.058133	.0069837	.0039253	1.446386	9.039379
#2	.000023	.0020535	1.057715	.0069760	.0040398	1.440898	9.032885
#3	.000007	.0018358	1.049593	.0070390	.0038165	1.440436	9.061134

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0425040**	**.2244521**	**.0608915**	**-.000363**	**336.2015**	**-.000125**	**.2122914**
Stddev	.0002758	.0106262	.0000927	.000525	3.1622	.002935	.0001500
%RSD	.6489588	4.734279	.1522309	144.9082	.9405631	2346.155	.0706751
#1	.0427871	.2364382	.0609715	.000225	339.7861	.001043	.2124445
#2	.0424887	.2207321	.0609129	-.000787	333.8073	.002046	.2122852
#3	.0422361	.2161861	.0607899	-.000526	335.0111	-.003464	.2121446

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5113811**	**.0240408**	**.0010554**	**-.013206**	**.0003971**	**.8801039**	**.0073816**
Stddev	.0611790	.0007330	.0000674	.000419	.0022631	.0040764	.0021568
%RSD	11.96349	3.049011	6.388512	3.175111	569.8999	.4631786	29.21814
#1	.4413397	.0244284	.0010962	-.013228	.0024093	.8763712	.0095240
#2	.5543722	.0244986	.0010924	-.013614	-.002053	.8844537	.0074099
#3	.5384315	.0231953	.0009776	-.012776	.000835	.8794868	.0052108

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-05 Acquired: 10/28/2025 13:48:25 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.6608409	-.004631	-.003412
Stddev	.0029768	.001547	.000050
%RSD	.4504581	33.39763	1.451993
#1	.6635259	-.004085	-.003417
#2	.6576398	-.003432	-.003361
#3	.6613570	-.006377	-.003459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5396.073	86938.16	7215.180	4108.529	6363.451
Stddev	18.566	68.96	69.810	18.103	19.007
%RSD	.3440593	.0793166	.9675407	.4406143	.2986903
#1	5376.577	87009.25	7188.579	4088.316	6341.795
#2	5398.101	86871.56	7162.581	4114.022	6371.195
#3	5413.541	86933.68	7294.380	4123.249	6377.364

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-06 Acquired: 10/28/2025 13:52:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0584463**	**-.008058**	**.0412157**	**.0043841**	**.0027769**	**.1743655**	**.1264612**
Stddev	.0028742	.002695	.0010254	.0011606	.0002022	.0162043	.0008461
%RSD	4.917626	33.44851	2.487962	26.47268	7.283051	9.293307	.6690789
#1	.0594342	-.006492	.0409782	.0056952	.0026005	.1892249	.1259197
#2	.0552084	-.011170	.0423391	.0034882	.0029976	.1767836	.1260276
#3	.0606962	-.006512	.0403299	.0039689	.0027324	.1570881	.1274362

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010875**	**.0003871**	**4.839635**	**.0085259**	**.0306946**	**.0133585**	**74.26247**
Stddev	.0000574	.0000306	.015499	.0002689	.0002693	.0000587	.17095
%RSD	5.280232	7.906480	.3202582	3.154100	.8774114	.4395692	.2302034
#1	.0010298	.0003994	4.832286	.0086042	.0303960	.0134228	74.22442
#2	.0011446	.0003522	4.857442	.0082265	.0307685	.0133452	74.11374
#3	.0010882	.0004096	4.829177	.0087469	.0309192	.0133077	74.44924

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5820293**	**1.230735**	**.1214706**	**.0021888**	**312.7113**	**.0016777**	**1.558040**
Stddev	.0024912	.026169	.0001896	.0003237	2.9570	.0030383	.005742
%RSD	.4280138	2.126294	.1560476	14.79119	.9455993	181.0970	.3685297
#1	.5792545	1.236602	.1212565	.0023305	309.5080	.0026423	1.553509
#2	.5840735	1.253472	.1216170	.0024175	313.2891	-.001726	1.556115
#3	.5827599	1.202130	.1215382	.0018184	315.3367	.004117	1.564497

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.588891**	**.0569419**	**.0763771**	**-.013618**	**.0020128**	**6.362771**	**.0213383**
Stddev	.046108	.0011566	.0005176	.000229	.0008627	.052040	.0003142
%RSD	2.901877	2.031122	.6776565	1.683962	42.85943	.8178857	1.472221
#1	1.594005	.0570896	.0760571	-.013507	.0021634	6.305810	.0216951
#2	1.540439	.0557186	.0769742	-.013465	.0027903	6.374674	.0211031
#3	1.632228	.0580175	.0760999	-.013882	.0010848	6.407829	.0212166

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-06 Acquired: 10/28/2025 13:52:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.336667**	**.0047732**	**-.052040**
Stddev	.028230	.0002675	.000136
%RSD	.6509714	5.604856	.2622049
#1	4.353055	.0044758	-.051917
#2	4.352877	.0048496	-.052017
#3	4.304070	.0049942	-.052187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5335.258**	**87167.77**	**7161.547**	**4057.568**	**6287.727**
Stddev	8.236	180.91	32.937	5.784	8.926
%RSD	.1543739	.2075414	.4599132	.1425568	.1419607
#1	5344.749	87355.96	7176.189	4064.236	6296.121
#2	5329.987	86995.14	7123.828	4053.901	6278.350
#3	5331.039	87152.21	7184.624	4054.567	6288.708

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-07 Acquired: 10/28/2025 13:57:04 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0000149**	**-.007941**	**.0967006**	**.0051797**	**.0030073**	**.1122291**	**.1431493**
Stddev	.0013944	.000582	.0007721	.0018070	.0020515	.0107888	.0011865
%RSD	9357.478	7.328900	.7984321	34.88606	68.21707	9.613243	.8288796
#1	.0010215	-.008164	.0975922	.0070829	.0046941	.1150321	.1437841
#2	-.001577	-.007280	.0962515	.0034874	.0036043	.1003153	.1417804
#3	.000600	-.008378	.0962583	.0049689	.0007235	.1213397	.1438834

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000700**	**.0017619**	**.6425433**	**.0210429**	**.0037099**	**1.339492**	**7.028486**
Stddev	.0000179	.0000183	.0010390	.0002019	.0001529	.004016	.028897
%RSD	25.55536	1.039341	.1617071	.9594042	4.120075	.2997809	.4111419
#1	.0000656	.0017599	.6434072	.0208295	.0035334	1.340395	7.001169
#2	.0000897	.0017447	.6413903	.0210684	.0038001	1.335102	7.025550
#3	.0000547	.0017811	.6428323	.0212308	.0037961	1.342979	7.058739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0441061**	**.3691880**	**.0558502**	**.0002401**	**257.4848**	**-.000789**	**.1978003**
Stddev	.0002267	.0161373	.0005766	.0001904	3.3584	.000421	.0020555
%RSD	.5139732	4.371015	1.032431	79.30506	1.304319	53.38076	1.039164
#1	.0438937	.3520444	.0557239	.0000743	261.3596	-.000441	.1955209
#2	.0440797	.3840831	.0553472	.0004481	255.6848	-.001257	.1995128
#3	.0443448	.3714364	.0564795	.0001980	255.4102	-.000670	.1983672

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4540884**	**.0130477**	**.0010341**	**-.014114**	**.0017124**	**.8325004**	**.0062853**
Stddev	.0291202	.0003198	.0001449	.000808	.0010382	.0125117	.0000662
%RSD	6.412886	2.451310	14.01325	5.721435	60.62931	1.502903	1.053233
#1	.4801582	.0128431	.0009436	-.014630	.0027606	.8239819	.0062493
#2	.4226617	.0134162	.0009575	-.014529	.0006844	.8468651	.0063617
#3	.4594453	.0128837	.0012013	-.013184	.0016924	.8266543	.0062448

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-07 Acquired: 10/28/2025 13:57:04 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7400947	-.003624	-.002646
Stddev	.0115534	.002395	.000178
%RSD	1.561072	66.08885	6.732203
#1	.7267739	-.005266	-.002520
#2	.7461231	-.000876	-.002850
#3	.7473871	-.004731	-.002567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5378.349	86993.42	7193.274	4014.773	6421.218
Stddev	15.804	93.52	26.022	16.426	15.502
%RSD	.2938491	.1075044	.3617507	.4091401	.2414127
#1	5364.352	86926.76	7167.014	4004.188	6408.054
#2	5395.488	86953.16	7219.051	4006.435	6438.304
#3	5375.207	87100.33	7193.757	4033.696	6417.296

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV02 Acquired: 10/28/2025 14:01:27 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**5.216884**	**5.446459**	**5.148988**	**5.230682**	**5.215780**	**10.96520**	**10.20939**
Stddev	.007889	.081837	.000809	.006301	.010787	.19353	.34810
%RSD	.1512281	1.502577	.0157184	.1204645	.2068130	1.764969	3.409577
#1	5.208867	5.448204	5.149390	5.227663	5.203448	11.16873	10.33261
#2	5.224640	5.527410	5.149518	5.237925	5.223462	10.94334	10.47912
#3	5.217145	5.363763	5.148057	5.226459	5.220430	10.78352	9.81645

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2620080**	**2.605775**	**25.87175**	**1.055613**	**2.602496**	**1.304704**	**5.166169**
Stddev	.0042291	.001220	.44402	.000532	.001064	.001160	.040426
%RSD	1.614121	.0468129	1.716243	.0503824	.0408734	.0889045	.7825171
#1	.2667041	2.604483	26.36431	1.055055	2.601274	1.303539	5.120944
#2	.2608199	2.606907	25.74876	1.056115	2.603215	1.305859	5.198798
#3	.2585000	2.605935	25.50219	1.055670	2.603000	1.304715	5.178764

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.557203**	**25.81861**	**2.595515**	**1.293654**	**26.01779**	**2.585000**	**2.589943**
Stddev	.037180	.38783	.000850	.001379	.21091	.040912	.005278
%RSD	1.453924	1.502115	.0327616	.1065596	.8106508	1.582660	.2037810
#1	2.592359	26.23746	2.594559	1.294723	26.09437	2.614761	2.590310
#2	2.560964	25.74640	2.595802	1.294140	26.17971	2.601892	2.584492
#3	2.518285	25.47196	2.596185	1.292098	25.77928	2.538347	2.595028

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.10010**	**5.166477**	**5.253265**	**5.257942**	**5.110639**	**5.084332**	**5.168757**
Stddev	.13615	.086803	.003344	.008762	.077384	.053330	.023332
%RSD	.5216345	1.680112	.0636482	.1666414	1.514180	1.048901	.4514033
#1	26.15299	5.264185	5.253209	5.266760	5.188407	5.029003	5.177476
#2	26.20186	5.136978	5.256636	5.257828	5.109864	5.135407	5.186473
#3	25.94544	5.098269	5.249950	5.249238	5.033645	5.088588	5.142321

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV02 Acquired: 10/28/2025 14:01:27 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.210513**	**4.938850**	**5.057663**
Stddev	.037418	.086274	.117863
%RSD	.7181318	1.746848	2.330394
#1	5.232271	5.026919	5.181698
#2	5.231960	4.935140	5.044157
#3	5.167306	4.854490	4.947134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5607.604**	**90121.96**	**7079.652**	**4131.007**	**6493.862**
Stddev	9.455	183.06	112.495	5.935	2.313
%RSD	.1686141	.2031209	1.588989	.1436790	.0356237
#1	5617.168	90275.61	6958.736	4125.942	6496.229
#2	5607.382	89919.43	7099.007	4137.538	6493.752
#3	5598.261	90170.85	7181.214	4129.542	6491.606

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB02 Acquired: 10/28/2025 14:05:34 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000416**	**-.002937**	**.0016568**	**-.002385**	**.0002458**	**.0148066**	**.0002676**
Stddev	.001969	.001005	.0003729	.000820	.0006716	.0021386	.0008679
%RSD	472.9260	34.22986	22.50986	34.37730	273.2004	14.44352	324.2781
#1	-.000957	-.002443	.0020252	-.002002	-.000186	.0170964	-.000726
#2	-.002059	-.002274	.0016657	-.001827	-.000097	.0128609	.000654
#3	.001766	-.004093	.0012795	-.003326	.001020	.0144626	.000875

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000144**	**-.000025**	**.0031661**	**.0002913**	**.0000346**	**.0023897**	**.0070543**
Stddev	.0000387	.000063	.0012174	.0000050	.0000456	.0003363	.0106640
%RSD	268.8472	249.9054	38.45210	1.721705	131.7500	14.07087	151.1711
#1	-.000010	-.000009	.0034156	.0002881	-.000014	.0020818	-.005259
#2	.000059	-.000095	.0018433	.0002971	.000041	.0027485	.013232
#3	-.000006	.000028	.0042395	.0002888	.000076	.0023387	.013191

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000030**	**-.024787**	**-.000480**	**-.000413**	**.5998862**	**-.000670**	**.0042971**
Stddev	.0004072	.013811	.000356	.000245	.0181654	.000412	.0002800
%RSD	13384.98	55.72131	74.24988	59.17602	3.028133	61.43258	6.516206
#1	-.000411	-.019729	-.000507	-.000282	.5986359	-.001077	.0042734
#2	.000017	-.014217	-.000110	-.000695	.5823784	-.000254	.0040298
#3	.000403	-.040414	-.000821	-.000262	.6186445	-.000679	.0045883

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4440430**	**-.002113**	**.0002270**	**-.000545**	**-.001354**	**-.003127**	**-.001226**
Stddev	.0029306	.000465	.0000346	.000467	.001278	.003290	.000684
%RSD	.6599810	21.99032	15.21984	85.56628	94.41002	105.2214	55.80269
#1	.4449743	-.001918	.0001954	-.000108	-.002743	-.006564	-.000824
#2	.4463949	-.001777	.0002218	-.001036	-.001089	-.000007	-.002016
#3	.4407600	-.002643	.0002639	-.000491	-.000229	-.002809	-.000838

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB02 Acquired: 10/28/2025 14:05:34 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0016650	.0064111	.0000500
Stddev	.0020306	.0012240	.0000876
%RSD	121.9595	19.09156	175.2416
#1	-.000465	.0049978	-.000014
#2	.003578	.0071114	.000014
#3	.001882	.0071242	.000150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5839.334	95059.56	7354.214	4368.829	7553.738
Stddev	.717	239.37	78.356	26.241	9.008
%RSD	.0122776	.2518149	1.065460	.6006316	.1192511
#1	5838.520	94799.22	7418.941	4362.827	7554.987
#2	5839.871	95109.29	7376.600	4397.550	7544.170
#3	5839.612	95270.16	7267.101	4346.109	7562.056

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-08 Acquired: 10/28/2025 14:09:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0295999**	**-.005376**	**.1340506**	**.0037510**	**.0032527**	**.1663568**	**.0813727**
Stddev	.0005958	.001573	.0012422	.0005840	.0008940	.0105146	.0020468
%RSD	2.012717	29.26220	.9266335	15.56926	27.48450	6.320497	2.515374
#1	.0296887	-.006394	.1346631	.0034617	.0022602	.1568136	.0801984
#2	.0301463	-.003564	.1326211	.0044232	.0035032	.1776285	.0801836
#3	.0289648	-.006168	.1348676	.0033681	.0039948	.1646282	.0837362

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002947**	**.0015264**	**1.766045**	**.0011730**	**.0094557**	**.0096510**	**31.23663**
Stddev	.0000587	.0001285	.006229	.0003618	.0002135	.0002581	.24646
%RSD	19.91217	8.415365	.3527104	30.84100	2.258096	2.674567	.7890020
#1	.0003556	.0013929	1.763938	.0014712	.0092465	.0093803	31.48896
#2	.0002385	.0015372	1.773054	.0012773	.0094473	.0098943	30.99650
#3	.0002901	.0016491	1.761143	.0007705	.0096732	.0096785	31.22443

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2086731**	**.3074389**	**.0631552**	**.0006699**	**288.9778**	**-.000467**	**.7610001**
Stddev	.0023057	.0099201	.0005811	.0001882	1.4793	.000381	.0023839
%RSD	1.104917	3.226679	.9201438	28.08690	.5119181	81.52514	.3132550
#1	.2066531	.3173753	.0636699	.0008832	287.2753	-.000807	.7612187
#2	.2111850	.3074061	.0632708	.0005991	289.7086	-.000056	.7632671
#3	.2081812	.2975353	.0625250	.0005274	289.9495	-.000539	.7585144

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.065949**	**.0298311**	**.0140455**	**-.009984**	**.0014026**	**1.739426**	**.0138497**
Stddev	.072444	.0021846	.0002556	.000565	.0014855	.015967	.0006724
%RSD	6.796181	7.323113	1.820032	5.662303	105.9127	.9179543	4.854745
#1	1.138672	.0316979	.0137977	-.009506	.0030617	1.728702	.0130890
#2	.993788	.0274285	.0140306	-.009838	.0001960	1.731799	.0143647
#3	1.065388	.0303668	.0143083	-.010608	.0009500	1.757776	.0140953

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3446-08 Acquired: 10/28/2025 14:09:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**2.740759**	**.0003064**	**-.022684**
Stddev	.001781	.0024241	.000308
%RSD	.0649864	791.2198	1.356086
#1	2.738758	.0022091	-.022980
#2	2.741345	-.002423	-.022366
#3	2.742172	.001133	-.022705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5487.987**	**86318.64**	**7161.487**	**4045.837**	**6522.065**
Stddev	1.440	235.42	74.831	7.346	3.874
%RSD	.0262340	.2727335	1.044909	.1815639	.0593931
#1	5489.513	86361.07	7243.287	4039.122	6519.437
#2	5486.652	86529.96	7096.477	4044.708	6526.513
#3	5487.795	86064.90	7144.697	4053.682	6520.244

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3449-06 Acquired: 10/28/2025 14:14:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001465**	**-.002372**	**.0129959**	**.0013453**	**.0008954**	**.4884394**	**.0770414**
Stddev	.002705	.004069	.0011056	.0014614	.0007555	.0087634	.0011870
%RSD	184.6894	171.5511	8.507475	108.6346	84.38031	1.794171	1.540662
#1	.000518	-.007069	.0121630	.0012795	.0009560	.4923325	.0762005
#2	-.004546	-.000080	.0125744	.0028384	.0016187	.4945818	.0765246
#3	-.000366	.000035	.0142503	-.000082	.0001113	.4784039	.0783992

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000031**	**.0002532**	**9.376106**	**.0044471**	**.0003854**	**.0131427**	**.4926946**
Stddev	.000049	.0000882	.012343	.0003513	.0001713	.0001748	.0063839
%RSD	160.3013	34.84250	.1316425	7.899009	44.44752	1.329719	1.295719
#1	-.000047	.0001525	9.362259	.0043678	.0005273	.0130868	.4891710
#2	.000025	.0003169	9.385953	.0041422	.0001951	.0130028	.5000638
#3	-.000070	.0002901	9.380104	.0048312	.0004338	.0133386	.4888491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1213613**	**1.144508**	**.0024063**	**-.000609**	**291.6889**	**.0010992**	**.0310382**
Stddev	.0002179	.016431	.0000771	.000305	2.7052	.0019699	.0003605
%RSD	.1795404	1.435639	3.202999	50.03733	.9274409	179.2021	1.161507
#1	.1215507	1.143701	.0023445	-.000959	288.5740	.0028708	.0306779
#2	.1211231	1.128496	.0023817	-.000403	293.0438	-.001022	.0310378
#3	.1214100	1.161328	.0024927	-.000466	293.4490	.001449	.0313990

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6408046**	**.0017903**	**.0008105**	**-.012701**	**.0179759**	**.7533871**	**.3075574**
Stddev	.0197114	.0007587	.0001813	.000298	.0017164	.0115665	.0010214
%RSD	3.076040	42.37941	22.37145	2.344947	9.548084	1.535262	.3320940
#1	.6261453	.0013824	.0006091	-.013037	.0161907	.7666723	.3068646
#2	.6330555	.0013227	.0008618	-.012594	.0196139	.7455569	.3087304
#3	.6632130	.0026656	.0009607	-.012471	.0181231	.7479320	.3070772

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3449-06 Acquired: 10/28/2025 14:14:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2189752	-.005920	.0338047
Stddev	.0018411	.001217	.0001275
%RSD	.8407893	20.55242	.3772426
#1	.2209391	-.007273	.0336621
#2	.2186980	-.005572	.0339077
#3	.2172883	-.004915	.0338444

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5407.786	87367.72	7229.533	4092.034	6369.183
Stddev	10.214	314.98	52.678	8.331	4.907
%RSD	.1888667	.3605262	.7286534	.2035869	.0770418
#1	5396.084	87571.45	7290.196	4098.795	6363.575
#2	5412.368	87526.79	7195.328	4094.580	6371.288
#3	5414.907	87004.92	7203.075	4082.728	6372.686

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170263BL Acquired: 10/28/2025 14:18:40 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0007953**	**-.000360**	**.0000295**	**-.001357**	**-.000304**	**.0279388**	**-.000298**
Stddev	.0012744	.000877	.0003856	.005971	.000899	.0034505	.000926
%RSD	160.2355	243.7524	1308.220	440.0872	295.6998	12.35026	310.6985
#1	.0017036	.000285	.0001182	-.003987	.000463	.0240376	.000016
#2	-.000661	-.001358	-.000393	.005478	-.000082	.0305903	-.001341
#3	.001344	-.000006	.000363	-.005562	-.001293	.0291886	.000431

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000022**	**-.000056**	**.0049308**	**-.000059**	**-.000042**	**.0000397**	**.0090438**
Stddev	.000048	.000054	.0120045	.000368	.000110	.0000963	.0049597
%RSD	212.6920	96.83821	243.4598	620.6465	265.4959	242.5815	54.84152
#1	-.000033	.000001	.0175410	-.000287	-.000056	-.000065	.0042577
#2	-.000064	-.000062	-.006359	-.000257	.000075	.000125	.0141606
#3	.000030	-.000106	.003610	.000366	-.000144	.000060	.0087131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000104**	**.0070899**	**-.000457**	**-.000300**	**.8070099**	**-.001679**	**.0006521**
Stddev	.0003098	.0444495	.000067	.000498	.0380364	.001945	.0000708
%RSD	2970.827	626.9459	14.60391	166.1237	4.713248	115.8625	10.86176
#1	-.000023	-.041400	-.000524	-.000850	.8210724	-.003849	.0006261
#2	.000336	.016763	-.000391	.000122	.8360127	-.000095	.0007322
#3	-.000281	.045906	-.000457	-.000172	.7639446	-.001091	.0005979

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5315089**	**-.008458**	**.0000668**	**.0021025**	**.0005613**	**-.010217**	**-.000697**
Stddev	.0178674	.000781	.0002412	.0004261	.0016739	.018990	.001361
%RSD	3.361640	9.229806	360.8137	20.26698	298.2320	185.8690	195.3320
#1	.5109428	-.008881	-.000188	.0017389	-.001320	.006869	-.001651
#2	.5432131	-.008936	.000097	.0019971	.001887	-.030662	.000862
#3	.5403709	-.007557	.000291	.0025714	.001116	-.006857	-.001301

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170263BL Acquired: 10/28/2025 14:18:40 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0032402	.0070683	-.000030
Stddev	.0036875	.0010900	.000081
%RSD	113.8064	15.42063	273.5273
#1	-.000701	.0071999	.000061
#2	.006606	.0080865	-.000094
#3	.003816	.0059185	-.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5764.810	94189.28	7328.599	4328.848	7440.130
Stddev	2.915	105.24	15.181	22.800	8.176
%RSD	.0505662	.1117312	.2071506	.5266901	.1098866
#1	5766.944	94069.01	7324.488	4304.127	7449.237
#2	5761.489	94264.47	7315.896	4349.048	7437.729
#3	5765.999	94234.35	7345.412	4333.370	7433.424

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170263BS Acquired: 10/28/2025 14:22:59 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8364804**	**2.199710**	**1.004663**	**2.097451**	**.8338802**	**1.992348**	**.1984378**
Stddev	.0029284	.031249	.000685	.009029	.0033348	.020617	.0025515
%RSD	.3500886	1.420592	.0681419	.4304882	.3999155	1.034796	1.285789
#1	.8357534	2.164759	1.004764	2.087029	.8307538	2.012923	.2007465
#2	.8339840	2.209416	1.005292	2.102897	.8334965	1.992430	.1988686
#3	.8397039	2.224954	1.003934	2.102428	.8373903	1.971690	.1956983

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2115517**	**.2026550**	**1.056931**	**.4329385**	**.2079795**	**.3318516**	**3.295456**
Stddev	.0022202	.0003215	.005508	.0010645	.0000808	.0006503	.007431
%RSD	1.049490	.1586330	.5210863	.2458816	.0388681	.1959523	.2254804
#1	.2139364	.2027103	1.063288	.4334164	.2079858	.3325719	3.286882
#2	.2111741	.2029452	1.053897	.4336803	.2080571	.3313077	3.299458
#3	.2095444	.2023095	1.053607	.4317188	.2078958	.3316753	3.300027

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2076650**	**2.040258**	**.5203893**	**.0799852**	**3.231368**	**.3071105**	**.2183163**
Stddev	.0018662	.025109	.0010397	.0001274	.012886	.0026623	.0002088
%RSD	.8986375	1.230681	.1997943	.1593020	.3987858	.8668991	.0956335
#1	.2097687	2.069121	.5215843	.0798386	3.228488	.3094121	.2183104
#2	.2070172	2.023448	.5198912	.0800473	3.245451	.3077247	.2185280
#3	.2062090	2.028205	.5196923	.0800696	3.220167	.3041948	.2181106

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.26203**	**.3010804**	**.4256712**	**.7061894**	**.1948914**	**.8727447**	**5.824013**
Stddev	.07225	.0023758	.0006082	.0013651	.0035262	.0016510	.016301
%RSD	.7040609	.7890945	.1428781	.1932990	1.809295	.1891738	.2798874
#1	10.19533	.3037877	.4251440	.7050813	.1987865	.8744757	5.815537
#2	10.33878	.3001108	.4255330	.7057726	.1939711	.8711874	5.842805
#3	10.25199	.2993428	.4263366	.7077143	.1919167	.8725711	5.813696

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170263BS Acquired: 10/28/2025 14:22:59 Type: Unk
Method: 6010-200.7 NEW(v320) 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 -.001951	.2022580	.1973317
Stddev	.001349	.0011357	.0012254
%RSD	69.15396	.5615175	.6209727
#1	-.001023	.2035667	.1987198
#2	-.001332	.2015300	.1968754
#3	-.003499	.2016775	.1964000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5811.791	94065.68	7427.916	4300.907	7218.319
Stddev	10.162	402.61	57.037	21.723	19.547
%RSD	.1748501	.4280064	.7678765	.5050874	.2707953
#1	5805.411	94373.28	7374.698	4319.748	7202.570
#2	5806.453	93610.00	7420.922	4277.146	7212.193
#3	5823.510	94213.75	7488.127	4305.828	7240.195

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170239TB Acquired: 10/28/2025 14:27:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003945**	**-.004679**	**.0005136**	**.0029180**	**.0032478**	**.0055506**	**-.001332**
Stddev	.001615	.003605	.0007357	.0025692	.0002746	.0032639	.002014
%RSD	40.94489	77.05507	143.2373	88.04736	8.456120	58.80283	151.1366
#1	-.004042	-.002083	.0013556	.0035123	.0030731	.0033001	-.001403
#2	-.005510	-.008795	-.000005	.0051381	.0031059	.0040578	.000716
#3	-.002283	-.003158	.000190	.0001037	.0035644	.0092940	-.003310

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000100**	**-.000013**	**.0046235**	**.0039692**	**-.000224**	**.0002897**	**.0249374**
Stddev	.000047	.000055	.0039306	.0003981	.000176	.0001519	.0058656
%RSD	47.06675	437.0956	85.01193	10.02927	78.80636	52.42684	23.52142
#1	-.000088	.000011	.0019600	.0043052	-.000026	.0002596	.0183610
#2	-.000060	.000027	.0027728	.0035295	-.000279	.0004543	.0296287
#3	-.000152	-.000076	.0091378	.0040730	-.000365	.0001551	.0268225

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039821**	**-.027358**	**.0026330**	**-.000382**	**357.0368**	**-.002052**	**.0014377**
Stddev	.0002257	.013262	.0002141	.000400	5.0920	.004347	.0000978
%RSD	5.667959	48.47662	8.132850	104.6296	1.426187	211.8799	6.802741
#1	.0037452	-.012363	.0028494	-.000362	353.5666	-.003556	.0013656
#2	.0040064	-.037546	.0024212	-.000791	362.8825	.002848	.0013985
#3	.0041947	-.032167	.0026283	.000007	354.6614	-.005446	.0015490

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.027426**	**-.008235**	**.0005557**	**-.013745**	**.0018842**	**.0075284**	**.0083099**
Stddev	.034272	.000243	.0000383	.000826	.0015394	.0039876	.0006301
%RSD	124.9637	2.955278	6.900627	6.012370	81.69809	52.96756	7.582581
#1	.011868	-.008220	.0005998	-.014660	.0022825	.0121114	.0080742
#2	-.051148	-.008000	.0005370	-.013523	.0001848	.0048516	.0078316
#3	-.042997	-.008486	.0005303	-.013053	.0031853	.0056223	.0090238

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170239TB Acquired: 10/28/2025 14:27:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0055230	-.005552	.0000015
Stddev	.0012755	.000365	.0000527
%RSD	23.09420	6.580889	3436.524
#1	.0052752	-.005525	.0000390
#2	.0043896	-.005931	.0000243
#3	.0069042	-.005201	-.000059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5368.956	85731.00	7289.167	4002.436	6352.600
Stddev	9.612	168.64	81.890	19.739	10.386
%RSD	.1790207	.1967117	1.123452	.4931839	.1634996
#1	5358.053	85544.29	7197.756	3985.952	6340.926
#2	5372.609	85776.47	7355.827	4024.311	6356.056
#3	5376.205	85872.25	7313.918	3997.046	6360.818

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170202TB Acquired: 10/28/2025 14:31:28 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0007452**	**.0015709**	**.0015852**	**-.001254**	**.0009606**	**.0146970**	**-.000030**
Stddev	.0016295	.0045729	.0019931	.002957	.0010687	.0050105	.000666
%RSD	218.6713	291.0971	125.7322	235.7238	111.2492	34.09221	2227.730
#1	.0026131	-.002168	-.000267	-.002194	.0020352	.0104225	-.000589
#2	.0000076	.006669	.003694	.002058	-.000102	.0134576	-.000207
#3	-.000385	.000211	.001328	-.003627	.000949	.0202109	.000706

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000533**	**.0001038**	**.0465649**	**.0043952**	**.0000527**	**.0006738**	**.0322167**
Stddev	.0001109	.0000355	.0042439	.0000494	.0000407	.0001166	.0032012
%RSD	208.3272	34.23584	9.113903	1.123618	77.10579	17.31161	9.936311
#1	.0001810	.0001292	.0501918	.0044368	.0000705	.0008008	.0287269
#2	-.000002	.0001189	.0418975	.0043406	.0000062	.0006489	.0329065
#3	-.000019	.0000632	.0476053	.0044082	.0000815	.0005716	.0350168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010706**	**.6316759**	**.0024733**	**.0002098**	**301.2399**	**-.000464**	**.0056153**
Stddev	.0006379	.0091787	.0003783	.0003650	3.2638	.002991	.0001048
%RSD	59.58006	1.453073	15.29409	173.9416	1.083454	645.2521	1.865480
#1	.0003357	.6310380	.0023058	.0006124	298.3158	-.000808	.0055479
#2	.0013949	.6411569	.0029064	-.000099	304.7610	.002685	.0057360
#3	.0014812	.6228328	.0022077	.000116	300.6429	-.003268	.0055620

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4794657**	**-.008159**	**.0018020**	**.0231404**	**.0022665**	**-.011514**	**-.001366**
Stddev	.0528912	.000311	.0001364	.0003361	.0014223	.005917	.001683
%RSD	11.03128	3.813910	7.566285	1.452502	62.75561	51.39068	123.1683
#1	.4185947	-.008485	.0019575	.0235190	.0024302	-.004865	-.001439
#2	.5142044	-.007865	.0017460	.0228772	.0035999	-.013478	-.003012
#3	.5055979	-.008129	.0017027	.0230248	.0007694	-.016200	.000352

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170202TB Acquired: 10/28/2025 14:31:28 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0187786	.0084113	.0000177
Stddev	.0033894	.0000435	.0000833
%RSD	18.04931	.5170126	471.8200
#1	.0189342	.0084247	-.000064
#2	.0220876	.0083627	.000014
#3	.0153141	.0084465	.000103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5439.036	86718.48	7200.768	4147.204	6285.396
Stddev	16.824	430.07	69.934	10.116	23.536
%RSD	.3093109	.4959415	.9712020	.2439149	.3744486
#1	5438.028	87184.98	7272.095	4154.393	6287.242
#2	5456.341	86337.77	7132.316	4135.637	6307.955
#3	5422.740	86632.68	7197.894	4151.582	6260.992

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3439-04 Acquired: 10/28/2025 14:35:55 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001185**	**-.001924**	**.0023392**	**.0023459**	**.0023008**	**.0254544**	**.2207492**
Stddev	.001163	.001886	.0007765	.0040046	.0016700	.0061124	.0022596
%RSD	98.15827	98.00237	33.19456	170.7056	72.58103	24.01311	1.023601
#1	-.001918	-.000024	.0031345	.0066592	.0008632	.0263924	.2228408
#2	-.001792	-.001954	.0015830	.0016327	.0041326	.0310435	.2183526
#3	.000156	-.003795	.0023002	-.001254	.0019067	.0189272	.2210541

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000054**	**.0000532**	**5.843084**	**.0019273**	**-.000280**	**.0056283**	**.0308849**
Stddev	.000058	.0000216	.027442	.0000898	.000091	.0002904	.0065891
%RSD	106.3872	40.56959	.4696415	4.661654	32.43233	5.158904	21.33436
#1	-.000020	.0000781	5.864904	.0020040	-.000380	.0053624	.0339858
#2	-.000022	.0000400	5.812276	.0018285	-.000205	.0055843	.0233174
#3	-.000121	.0000415	5.852072	.0019495	-.000253	.0059381	.0353515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0474811**	**.5345027**	**.0017139**	**-.001212**	**325.2565**	**-.001608**	**.0472603**
Stddev	.0003122	.0388910	.0002335	.000322	2.5107	.003415	.0003921
%RSD	.6575534	7.276107	13.62279	26.58359	.7719192	212.4011	.8297376
#1	.0471254	.5779877	.0016371	-.001019	324.9266	.000361	.0475137
#2	.0476085	.5224711	.0019761	-.001032	322.9271	.000367	.0474586
#3	.0477095	.5030493	.0015285	-.001584	327.9159	-.005551	.0468087

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.067356**	**.0122195**	**.0009043**	**-.012803**	**.0010980**	**.8509200**	**.4462084**
Stddev	.067491	.0005214	.0001142	.000209	.0020269	.0055313	.0039927
%RSD	6.323226	4.266710	12.62314	1.630520	184.5913	.6500379	.8947998
#1	1.135332	.0119060	.0010341	-.013042	.0033622	.8502424	.4439035
#2	1.000360	.0128213	.0008193	-.012657	.0004791	.8567589	.4439029
#3	1.066375	.0119311	.0008597	-.012709	-.000547	.8457587	.4508187

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3439-04 Acquired: 10/28/2025 14:35:55 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1529685	-.004581	.0396896
Stddev	.0026865	.002447	.0002525
%RSD	1.756254	53.42424	.6362978
#1	.1500280	-.006063	.0398081
#2	.1535828	-.005924	.0393996
#3	.1552946	-.001756	.0398611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5326.047	85518.32	7129.961	4041.075	6274.159
Stddev	7.806	38.73	31.622	17.508	13.128
%RSD	.1465626	.0452847	.4435097	.4332515	.2092328
#1	5327.745	85490.87	7097.041	4027.217	6272.301
#2	5317.532	85562.61	7132.739	4035.258	6262.060
#3	5332.865	85501.46	7160.102	4060.751	6288.117

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3439-08 Acquired: 10/28/2025 14:40:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003187**	**-.001465**	**.0006595**	**.0031507**	**.0010803**	**.0412264**	**.2478793**
Stddev	.001340	.001559	.0008768	.0022229	.0007590	.0103444	.0009443
%RSD	42.05977	106.4226	132.9573	70.55408	70.26153	25.09162	.3809371
#1	-.003778	-.002340	.0009567	.0052449	.0006048	.0324164	.2472577
#2	-.001653	.000335	-.000327	.0033889	.0019557	.0526167	.2474143
#3	-.004131	-.002389	.001349	.0008182	.0006804	.0386461	.2489659

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000272**	**.0000769**	**6.882921**	**.0052788**	**-.000196**	**.0072029**	**.0407202**
Stddev	.0000206	.0000575	.037560	.0002696	.000144	.0004403	.0068305
%RSD	75.83742	74.76227	.5456955	5.106660	73.32848	6.112978	16.77433
#1	.0000080	.0001384	6.839742	.0055784	-.000306	.0071977	.0451115
#2	.0000491	.0000243	6.900976	.0050559	-.000033	.0076458	.0441984
#3	.0000245	.0000681	6.908043	.0052021	-.000250	.0067652	.0328506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0222235**	**.8106965**	**.0030997**	**-.000797**	**360.8175**	**-.001309**	**.0435391**
Stddev	.0008940	.0266615	.0001777	.000563	6.4583	.000594	.0002961
%RSD	4.022548	3.288719	5.731711	70.73305	1.789907	45.36785	.6801216
#1	.0215946	.8105043	.0032447	-.000599	353.6594	-.000653	.0433704
#2	.0218290	.7841315	.0031528	-.000358	366.2079	-.001810	.0438810
#3	.0232468	.8374535	.0029015	-.001432	362.5850	-.001463	.0433658

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.726581**	**.0111796**	**.0007624**	**-.013632**	**.0014234**	**.6958092**	**.0564351**
Stddev	.027934	.0006664	.0001498	.000541	.0015073	.0159213	.0011625
%RSD	1.617857	5.960461	19.65336	3.972172	105.8963	2.288165	2.059825
#1	1.694337	.0105227	.0009342	-.013978	.0017744	.6920995	.0556613
#2	1.743435	.0118550	.0006589	-.013008	-.000228	.7132578	.0577719
#3	1.741971	.0111611	.0006940	-.013911	.002724	.6820702	.0558722

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3439-08 Acquired: 10/28/2025 14:40:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2200196	-.005619	.0447647
Stddev	.0023967	.000900	.0002357
%RSD	1.089319	16.02171	.5264287
#1	.2216247	-.006240	.0444934
#2	.2172646	-.004586	.0449184
#3	.2211694	-.006030	.0448824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5414.310	86520.00	7049.056	4070.793	6363.171
Stddev	22.207	330.96	45.849	16.367	28.505
%RSD	.4101458	.3825223	.6504317	.4020701	.4479756
#1	5389.223	86828.35	7039.207	4089.315	6330.472
#2	5422.260	86170.31	7008.931	4058.277	6382.786
#3	5431.447	86561.33	7099.029	4064.786	6376.254

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3440-04 Acquired: 10/28/2025 14:44:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002506**	**-.003305**	**.8734474**	**.0006128**	**.0368110**	**.0815639**	**.2330879**
Stddev	.001077	.002284	.0018853	.0017007	.0018342	.0034229	.0017832
%RSD	42.99306	69.10144	.2158412	277.5266	4.982798	4.196620	.7650414
#1	-.003381	-.001230	.8748650	-.000680	.0381693	.0850908	.2344343
#2	-.001303	-.005752	.8741693	.002539	.0375392	.0813454	.2310655
#3	-.002833	-.002932	.8713079	-.000021	.0347245	.0782554	.2337640

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000012**	**.0053859**	**81.65313**	**.0160793**	**.0142524**	**4.498278**	**.0833842**
Stddev	.000021	.0000377	.26855	.0000514	.0000463	.001609	.0055325
%RSD	181.5375	.6993378	.3288887	.3195256	.3246201	.0357772	6.634993
#1	.000011	.0054163	81.92386	.0161269	.0142338	4.499008	.0884760
#2	-.000030	.0053438	81.38682	.0160862	.0143051	4.496433	.0841794
#3	-.000016	.0053977	81.64870	.0160249	.0142184	4.499393	.0774970

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5356838**	**2.229306**	**.0479241**	**-.000619**	**385.1843**	**-.000292**	**7.095712**
Stddev	.0018259	.007189	.0001787	.000411	6.2919	.002092	.076215
%RSD	.3408567	.3224992	.3728479	66.42317	1.633472	715.8054	1.074098
#1	.5365631	2.221300	.0477224	-.000603	384.6907	.001634	7.075124
#2	.5335846	2.231410	.0480626	-.000216	379.1537	.000008	7.031905
#3	.5369037	2.235210	.0479872	-.001037	391.7084	-.002519	7.180105

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.647906**	**.0124698**	**-.001819**	**-.015145**	**-.002267**	**1.980432**	**.0369264**
Stddev	.027374	.0000508	.000405	.000517	.000948	.014826	.0011227
%RSD	1.033809	.4075341	22.25864	3.411641	41.81495	.7486214	3.040442
#1	2.616993	.0125247	-.001681	-.015385	-.003306	1.982003	.0367863
#2	2.657648	.0124245	-.002275	-.014551	-.002047	1.964883	.0381126
#3	2.669076	.0124602	-.001502	-.015497	-.001449	1.994410	.0358803

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3440-04 Acquired: 10/28/2025 14:44:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	2.836352	-.009113	.2863647
Stddev	.017523	.001405	.0017751
%RSD	.6178134	15.42219	.6198770
#1	2.833190	-.010537	.2876354
#2	2.855241	-.007727	.2843365
#3	2.820625	-.009075	.2871223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5260.900	82599.80	7075.065	3824.973	6095.981
Stddev	4.325	365.31	6.091	30.800	8.925
%RSD	.0822090	.4422661	.0860939	.8052445	.1464042
#1	5256.230	82892.44	7082.048	3827.227	6086.404
#2	5261.702	82716.59	7072.307	3854.585	6097.476
#3	5264.768	82190.38	7070.841	3793.108	6104.064

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-02 Acquired: 10/28/2025 14:49:07 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001905**	**-.002324**	**.0143125**	**.0050219**	**.0014821**	**.0451126**	**.0978895**
Stddev	.000651	.002915	.0010194	.0026159	.0013475	.0072039	.0031147
%RSD	34.16807	125.4233	7.122660	52.08926	90.91342	15.96879	3.181904
#1	-.001654	-.004313	.0131354	.0077820	.0004751	.0381267	.0958688
#2	-.001417	-.003682	.0148940	.0047044	.0009585	.0446949	.1014765
#3	-.002644	.001022	.0149080	.0025793	.0030128	.0525164	.0963232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000264**	**-.000010**	**16.81575**	**.0026345**	**.0017755**	**.0016259**	**11.08152**
Stddev	.0000533	.000103	.13843	.0001534	.0001590	.0002929	.00412
%RSD	202.1337	1066.593	.8232101	5.823815	8.952871	18.01377	.0372152
#1	.0000118	.000091	16.88102	.0026469	.0017491	.0019530	11.08567
#2	.0000855	-.000115	16.90948	.0024752	.0019460	.0013881	11.08148
#3	-.000018	-.000005	16.65675	.0027813	.0016314	.0015365	11.07742

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4267924**	**.9163284**	**.0079515**	**-.000497**	**358.9332**	**.0017021**	**.1116473**
Stddev	.0054636	.0339395	.0003454	.000294	3.3560	.0011728	.0001472
%RSD	1.280152	3.703860	4.343702	59.11533	.9349849	68.90038	.1318810
#1	.4303164	.8963636	.0083376	-.000165	358.4685	.0016965	.1116636
#2	.4295621	.9555160	.0078450	-.000603	362.4973	.0005322	.1117857
#3	.4204986	.8971056	.0076720	-.000723	355.8338	.0028777	.1114926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3543642**	**.0229399**	**.0003109**	**-.014709**	**.0010619**	**.8239987**	**.0050898**
Stddev	.0173549	.0003942	.0001846	.000433	.0010829	.0094486	.0020159
%RSD	4.897470	1.718171	59.35971	2.940631	101.9835	1.146681	39.60721
#1	.3395266	.0233950	.0001896	-.014756	.0018381	.8348042	.0071855
#2	.3501177	.0227162	.0002199	-.015116	-.000175	.8199023	.0031644
#3	.3734482	.0227086	.0005233	-.014254	.001523	.8172895	.0049197

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-02 Acquired: 10/28/2025 14:49:07 Type: Unk
Method: 6010-200.7 NEW(v320) 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	6.113543	-.005257	.1186620
Stddev	.037372	.001409	.0010184
%RSD	.6112970	26.80562	.8582215
#1	6.070946	-.003973	.1191856
#2	6.140821	-.005033	.1193120
#3	6.128862	-.006764	.1174883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5335.456	86341.66	7234.049	4045.682	6256.977
Stddev	4.859	101.76	43.964	11.787	4.316
%RSD	.0910723	.1178549	.6077366	.2913416	.0689793
#1	5333.080	86454.72	7209.613	4051.917	6260.401
#2	5332.242	86312.83	7207.732	4032.088	6252.129
#3	5341.046	86257.43	7284.803	4053.042	6258.402

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV03 Acquired: 10/28/2025 14:53:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.946870**	**5.069436**	**4.949590**	**4.940126**	**4.953478**	**10.03286**	**10.51063**
Stddev	.023071	.141655	.023772	.032802	.030450	.47518	.43874
%RSD	.4663679	2.794305	.4802791	.6639991	.6147286	4.736220	4.174272
#1	4.960536	5.093210	4.962404	4.947554	4.973296	9.74464	10.24218
#2	4.959840	5.197700	4.964206	4.968577	4.968721	9.77263	10.27278
#3	4.920233	4.917398	4.922160	4.904246	4.918416	10.58131	11.01694

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2621449**	**2.514608**	**25.88796**	**1.037728**	**2.518317**	**1.263481**	**5.134225**
Stddev	.0094746	.015643	1.14207	.038198	.012998	.006635	.128649
%RSD	3.614256	.6220976	4.411582	3.680968	.5161514	.5251504	2.505719
#1	.2568847	2.521879	25.19042	1.081636	2.526726	1.267420	5.281792
#2	.2564675	2.525292	25.26750	1.019409	2.524880	1.267203	5.045656
#3	.2730826	2.496652	27.20595	1.012140	2.503346	1.255820	5.075227

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.639871**	**25.67289**	**2.509654**	**1.279212**	**27.45786**	**2.567478**	**2.560516**
Stddev	.107480	1.07247	.013534	.042695	1.00263	.105614	.097020
%RSD	4.071399	4.177455	.5392600	3.337562	3.651515	4.113529	3.789064
#1	2.571730	25.04536	2.514435	1.328508	28.60195	2.490229	2.672536
#2	2.584111	25.06207	2.520148	1.255117	27.03930	2.524379	2.505702
#3	2.763772	26.91124	2.494379	1.254012	26.73234	2.687826	2.503309

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.00488**	**5.195631**	**5.079768**	**5.053880**	**5.193745**	**4.988627**	**5.086741**
Stddev	.78218	.202835	.032571	.034663	.221440	.143629	.029378
%RSD	3.007814	3.903950	.6411870	.6858789	4.263592	2.879127	.5775403
#1	26.90319	5.074118	5.096515	5.078134	5.053501	5.153821	5.098037
#2	25.63681	5.082986	5.100558	5.069327	5.078707	4.918767	5.108795
#3	25.47462	5.429788	5.042231	5.014178	5.449028	4.893291	5.053392

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV03 Acquired: 10/28/2025 14:53:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.940970**	**5.167718**	**5.154603**
Stddev	.034776	.212916	.160114
%RSD	.7038321	4.120114	3.106226
#1	4.960630	5.029534	5.044329
#2	4.961463	5.060707	5.081225
#3	4.900817	5.412912	5.338255

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5668.958**	**88846.00**	**6858.451**	**4191.698**	**6557.958**
Stddev	36.932	2635.08	259.968	136.498	42.220
%RSD	.6514714	2.965895	3.790473	3.256383	.6438019
#1	5649.852	85821.16	7036.461	4034.864	6537.008
#2	5645.492	90073.10	6978.773	4256.552	6530.310
#3	5711.528	90643.73	6560.120	4283.677	6606.556

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB03 Acquired: 10/28/2025 14:57:33 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0004546**	**-.000992**	**.0007827**	**-.000385**	**.0008895**	**.0017695**	**.0024421**
Stddev	.0014700	.000614	.0012940	.002340	.0011008	.0099583	.0008201
%RSD	323.3295	61.82796	165.3329	607.0855	123.7545	562.7653	33.58289
#1	-.000625	-.000318	.0012302	-.002613	.0014547	-.003115	.0015268
#2	-.000140	-.001141	-.000676	-.000597	.0015929	-.004804	.0026893
#3	.002129	-.001518	.001793	.002053	-.000379	.013227	.0031102

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000041**	**.0000816**	**.0078637**	**-.000159**	**-.000018**	**.0006177**	**.0300343**
Stddev	.000069	.0000196	.0025691	.000108	.000135	.0001897	.0037279
%RSD	170.1504	23.99662	32.67093	67.70338	765.9828	30.70830	12.41223
#1	.000039	.0000647	.0066026	-.000053	.000095	.0008225	.0317312
#2	-.000089	.0000771	.0061688	-.000156	-.000167	.0004480	.0257598
#3	-.000072	.0001031	.0108197	-.000269	.000020	.0005826	.0326118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006320**	**.0003336**	**-.000309**	**-.000525**	**.6140191**	**-.002073**	**.0019238**
Stddev	.0007283	.0284477	.000306	.000385	.0085797	.002669	.0002536
%RSD	115.2351	8528.012	99.32723	73.32212	1.397304	128.7810	13.18352
#1	.0002060	-.012209	-.000526	-.000962	.6048737	.000999	.0022130
#2	.0002171	-.019688	-.000442	-.000234	.6152929	-.003827	.0018186
#3	.0014729	.032897	.000042	-.000381	.6218907	-.003391	.0017396

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3218423**	**-.000744**	**.0005218**	**.0008899**	**-.000946**	**-.011390**	**-.000217**
Stddev	.0597586	.000430	.0001402	.0006400	.001144	.002574	.000376
%RSD	18.56766	57.85819	26.86770	71.91738	120.9060	22.59989	173.4768
#1	.2850129	-.000824	.0006550	.0005284	.000339	-.008682	-.000171
#2	.2897220	-.000279	.0005350	.0016289	-.001323	-.013805	.000135
#3	.3907920	-.001128	.0003755	.0005125	-.001855	-.011683	-.000613

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB03 Acquired: 10/28/2025 14:57:33 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0021478	.0065281	.0000906
Stddev	.0023168	.0004805	.0000701
%RSD	107.8657	7.360978	77.39350
#1	.0032634	.0070773	.0000445
#2	.0036957	.0063227	.0000560
#3	-.000516	.0061845	.0001713

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5702.411	92652.49	6858.108	4337.860	7335.716
Stddev	13.310	286.85	18.288	30.882	15.442
%RSD	.2334086	.3096028	.2666664	.7119251	.2105077
#1	5707.780	92911.37	6879.133	4373.235	7340.754
#2	5687.255	92701.99	6849.307	4316.277	7318.385
#3	5712.198	92344.10	6845.883	4324.068	7348.011

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-04 Acquired: 10/28/2025 15:01:51 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002763**	**-.002250**	**3.650248**	**.0022876**	**.0335811**	**.0239227**
Stddev	.001424	.001012	.007046	.0012056	.0006157	.0049926
%RSD	51.52739	44.97583	.1930410	52.70104	1.833565	20.86952
#1	-.001127	-.003283	3.642259	.0036708	.0332194	.0245709
#2	-.003724	-.001261	3.655576	.0017319	.0342921	.0285595
#3	-.003437	-.002207	3.652911	.0014601	.0332320	.0186377

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2182478**	**-.000167**	**.0462191**	**128.5203**	**.0023880**	**.0205966**
Stddev	.0056275	.000028	.0001282	3.1657	.0000478	.0002431
%RSD	2.578509	16.70896	.2774331	2.463200	2.002490	1.180268
#1	.2117994	-.000138	.0462420	124.8877	.0024382	.0203224
#2	.2221668	-.000194	.0460810	129.9837	.0023431	.0206817
#3	.2207772	-.000168	.0463344	130.6896	.0023826	.0207857

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6186748**	**.0179735**	**.6311977**	**4.079618**	**.1413726**	**-.000461**
Stddev	.0007310	.0110563	.0130819	.078914	.0001262	.000631
%RSD	.1181598	61.51420	2.072550	1.934341	.0892874	136.8420
#1	.6178384	.0069422	.6167626	3.990461	.1414179	-.000488
#2	.6191917	.0179237	.6345605	4.107895	.1412300	.000183
#3	.6189942	.0290546	.6422698	4.140497	.1414699	-.001078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**329.9241**	**-.002573**	**6.026539**	**2.219079**	**.0467731**	**-.001304**
Stddev	1.5994	.003935	.025222	.029965	.0013595	.000206
%RSD	.4847668	152.9083	.4185217	1.350352	2.906585	15.78451
#1	330.9015	.001290	5.998207	2.248586	.0452035	-.001080
#2	328.0783	-.006576	6.046547	2.188675	.0475770	-.001486
#3	330.7923	-.002434	6.034864	2.219975	.0475390	-.001344

Sample Name: Q3447-04 Acquired: 10/28/2025 15:01:51 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.015412	-.003466	3.968398	.0170275	F 10.80873	-.017875
Stddev	.000375	.000763	.037471	.0006339	.04448	.000762
%RSD	2.431481	22.02854	.9442249	3.722769	.4114826	4.263318
#1	-.015012	-.004332	3.992242	.0176991	10.77623	-.017973
#2	-.015756	-.003175	3.925209	.0169438	10.79054	-.018583
#3	-.015467	-.002890	3.987743	.0164396	10.85942	-.017069

Elem	Sr4077
Units	ppm
Avg	.7109934
Stddev	.0150207
%RSD	2.112631
#1	.6938482
#2	.7172959
#3	.7218360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5276.317	84996.24	7173.723	3956.025	6126.631
Stddev	2.123	276.18	174.195	10.104	2.561
%RSD	.0402426	.3249348	2.428233	.2554063	.0418070
#1	5276.821	84702.47	7374.864	3962.707	6124.954
#2	5278.143	85250.60	7073.782	3960.967	6125.360
#3	5273.987	85035.66	7072.522	3944.401	6129.580

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-06 Acquired: 10/28/2025 15:06:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000734**	**-.003372**	**60.19705**	**-.000326**	**.0425686**	**.0867970**	**.0265732**
Stddev	.001537	.001150	.17246	.002588	.0005956	.0157765	.0018214
%RSD	209.4852	34.09190	.2864872	794.9179	1.399192	18.17637	6.854306
#1	-.002144	-.002046	59.99808	-.000714	.0419131	.1027480	.0279756
#2	-.000961	-.003989	60.28953	-.002698	.0427161	.0712009	.0245146
#3	.000904	-.004082	60.30354	.002435	.0430767	.0864419	.0272293

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000158**	**.0029092**	**3.662583**	**.0058385**	**.0013616**	**.1011622**	**3.299006**
Stddev	.000098	.0000828	.022322	.0002137	.0002349	.0006674	.020393
%RSD	62.04537	2.844918	.6094553	3.660234	17.24868	.6597338	.6181502
#1	-.000062	.0029916	3.655788	.0057269	.0015787	.1005961	3.320949
#2	-.000153	.0028260	3.644449	.0060849	.0011123	.1009923	3.280635
#3	-.000258	.0029101	3.687513	.0057037	.0013939	.1018981	3.295433

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0727470**	**.2570019**	**.0257433**	**-.000228**	**316.2280**	**-.002472**	**.2657005**
Stddev	.0002315	.0077793	.0002631	.000417	1.5511	.000578	.0006268
%RSD	.3181955	3.026949	1.021808	182.7855	.4905148	23.36327	.2359177
#1	.0726736	.2569990	.0255557	-.000709	316.6866	-.002338	.2661197
#2	.0725611	.2647826	.0260440	-.000021	317.4981	-.001974	.2649799
#3	.0730063	.2492240	.0256302	.000045	314.4992	-.003105	.2660019

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1410690**	**.0112282**	**.0005449**	**-.012996**	**.0017317**	**.2040736**	**.0046580**
Stddev	.0247068	.0008448	.0001287	.000072	.0007353	.0051974	.0022652
%RSD	17.51399	7.524357	23.60949	.5532061	42.46204	2.546815	48.63039
#1	.1695452	.0121819	.0004258	-.013051	.0016070	.1983319	.0028691
#2	.1283318	.0105735	.0005276	-.012915	.0010667	.2054321	.0039000
#3	.1253298	.0109292	.0006814	-.013022	.0025213	.2084568	.0072051

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-06 Acquired: 10/28/2025 15:06:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	3.325454	-.003298	.0060899
Stddev	.006874	.002747	.0000433
%RSD	.2066961	83.31432	.7103481
#1	3.317938	-.006468	.0060990
#2	3.327001	-.001813	.0060428
#3	3.331422	-.001612	.0061278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5359.133	85003.20	7128.343	3948.853	6373.891
Stddev	3.653	70.19	61.013	9.672	8.556
%RSD	.0681608	.0825716	.8559266	.2449294	.1342412
#1	5363.242	85083.21	7178.925	3937.928	6383.771
#2	5357.905	84974.35	7145.522	3952.304	6368.996
#3	5356.253	84952.03	7060.582	3956.326	6368.907

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-08 Acquired: 10/28/2025 15:10:28 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001467**	**-.001762**	**.0049876**	**.0045794**	**.0014790**	**.0054730**	**.1024318**
Stddev	.002376	.003157	.0002491	.0001924	.0007194	.0098161	.0015714
%RSD	161.9329	179.1550	4.993343	4.201654	48.64390	179.3559	1.534091
#1	.001166	.001799	.0048539	.0045576	.0011187	-.005486	.1019827
#2	-.003451	-.004220	.0048341	.0043987	.0010109	.013460	.1041789
#3	-.002116	-.002866	.0052750	.0047817	.0023074	.008445	.1011339

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000128**	**-.000092**	**.1972724**	**.0024304**	**-.000212**	**.0000866**	**.2141531**
Stddev	.000015	.000017	.0037284	.0005098	.000180	.0004525	.0045250
%RSD	11.45669	17.88819	1.889954	20.97517	84.65349	522.2743	2.112969
#1	-.000111	-.000086	.1932031	.0025347	-.000031	.0001845	.2193730
#2	-.000136	-.000111	.2005242	.0018766	-.000390	-.000407	.2117423
#3	-.000136	-.000080	.1980898	.0028800	-.000214	.000482	.2113439

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084029**	**.0083118**	**.0015237**	**-.000265**	**369.6339**	**-.002706**	**.1050458**
Stddev	.0001242	.0197939	.0001886	.000291	2.8141	.000449	.0005650
%RSD	1.478125	238.1422	12.37743	109.7536	.7613278	16.60474	.5378089
#1	.0085351	.0308813	.0013266	-.000374	366.4424	-.003191	.1049776
#2	.0082887	.0001511	.0015421	.000065	370.7000	-.002625	.1045181
#3	.0083850	-.006097	.0017025	-.000485	371.7591	-.002303	.1056418

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0214814**	**.0160870**	**.0006009**	**-.012914**	**.0009405**	**.0225074**	**.0054356**
Stddev	.0657183	.0010421	.0001494	.000813	.0014281	.0095061	.0007795
%RSD	305.9309	6.477813	24.86640	6.295945	151.8499	42.23523	14.33967
#1	.0842032	.0154051	.0007334	-.013850	.0003114	.0306448	.0046476
#2	-.046871	.0172865	.0004390	-.012503	-.000065	.0120589	.0054531
#3	.027112	.0155693	.0006304	-.012388	.002575	.0248186	.0062062

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-08 Acquired: 10/28/2025 15:10:28 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2844032	-.005143	.0015661
Stddev	.0032799	.001130	.0000530
%RSD	1.153245	21.96618	3.386170
#1	.2808694	-.004922	.0015654
#2	.2873497	-.004140	.0015134
#3	.2849906	-.006366	.0016195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5345.850	84643.50	7181.232	3993.004	6305.660
Stddev	5.501	155.82	13.700	10.812	7.254
%RSD	.1029093	.1840897	.1907761	.2707721	.1150405
#1	5343.707	84805.57	7188.426	4003.788	6313.575
#2	5352.100	84494.79	7189.836	3993.060	6304.079
#3	5341.742	84630.13	7165.433	3982.164	6299.327

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-04 Acquired: 10/28/2025 15:14:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002220**	**-.001408**	**.0066440**	**.0048210**	**.0015935**	**.1445155**	**.1267398**
Stddev	.001015	.000784	.0003844	.0011947	.0005248	.0106794	.0016051
%RSD	45.70976	55.69048	5.785029	24.78021	32.93670	7.389822	1.266414
#1	-.002564	-.002263	.0070854	.0035372	.0012213	.1568212	.1263190
#2	-.003018	-.001239	.0064632	.0050259	.0021938	.1390550	.1285134
#3	-.001078	-.000722	.0063834	.0059000	.0013654	.1376704	.1253871

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000005**	**.0001273**	**5.031351**	**.0058027**	**.0016327**	**.0064979**	**1.783507**
Stddev	.000131	.0000302	.006626	.0004897	.0001850	.0003207	.008192
%RSD	2819.648	23.75872	.1316860	8.439161	11.32806	4.934832	.4592986
#1	.000026	.0001385	5.024174	.0052599	.0014193	.0068577	1.778196
#2	-.000148	.0000930	5.032644	.0062114	.0017322	.0063937	1.779384
#3	.000108	.0001502	5.037235	.0059366	.0017467	.0062423	1.792941

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6058663**	**.3289334**	**.0032124**	**-.000595**	**340.4099**	**-.001809**	**.0268663**
Stddev	.0016478	.0220082	.0003742	.000181	2.7563	.003215	.0001638
%RSD	.2719763	6.690789	11.64841	30.48475	.8097056	177.6893	.6095892
#1	.6071434	.3120812	.0028221	-.000544	339.6153	-.002685	.0267117
#2	.6064493	.3538327	.0032470	-.000796	343.4762	-.004496	.0268494
#3	.6040063	.3208864	.0035681	-.000444	338.1381	.001753	.0270379

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.152030**	**-.000354**	**.0006749**	**-.013355**	**.0019925**	**.5026031**	**.0119655**
Stddev	.021681	.000547	.0001652	.000550	.0007311	.0140443	.0011277
%RSD	1.881983	154.6402	24.47005	4.122072	36.69096	2.794303	9.424417
#1	1.131139	-.000826	.0008103	-.013956	.0021912	.5152800	.0114615
#2	1.150527	-.000479	.0007235	-.012876	.0026037	.4875061	.0132572
#3	1.174423	.000245	.0004909	-.013233	.0011826	.5050233	.0111777

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-04 Acquired: 10/28/2025 15:14:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4622297	-.005784	.0855193
Stddev	.0104777	.001695	.0001093
%RSD	2.266775	29.30805	.1278222
#1	.4535887	-.006465	.0854723
#2	.4738839	-.003854	.0856442
#3	.4592166	-.007032	.0854413

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5518.189	89111.53	7371.743	4228.718	6451.479
Stddev	61.909	337.62	43.316	15.601	69.226
%RSD	1.121908	.3788686	.5875898	.3689366	1.073030
#1	5589.318	89471.17	7373.379	4232.262	6530.615
#2	5476.437	89062.01	7327.632	4242.243	6402.145
#3	5488.813	88801.41	7414.217	4211.650	6421.677

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-08 Acquired: 10/28/2025 15:19:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002102**	**-.002619**	**.0090815**	**.0029144**	**.0022432**	**.0386241**	**.1472276**
Stddev	.000742	.002657	.0003405	.0025407	.0018849	.0073634	.0009034
%RSD	35.31066	101.4747	3.749394	87.17870	84.02834	19.06430	.6135966
#1	-.002323	-.003410	.0090134	.0008450	.0029071	.0323084	.1473473
#2	-.001274	-.004790	.0094509	.0021481	.0001162	.0368522	.1462704
#3	-.002709	.000344	.0087802	.0057500	.0037064	.0467119	.1480653

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000024**	**.0003337**	**31.50690**	**.0057326**	**-.000282**	**.0067795**	**.0605193**
Stddev	.000019	.0000756	.12123	.0002650	.000051	.0002192	.0031853
%RSD	79.51496	22.65396	.3847698	4.622051	18.04953	3.233929	5.263313
#1	-.000020	.0003540	31.41064	.0060382	-.000336	.0068486	.0578650
#2	-.000007	.0002500	31.46702	.0055678	-.000276	.0069559	.0596414
#3	-.000045	.0003971	31.64305	.0055917	-.000235	.0065340	.0640515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0587345**	**1.679884**	**.0036047**	**-.000736**	**335.5390**	**-.001789**	**.0329520**
Stddev	.0003044	.004734	.0001340	.000306	2.1374	.001671	.0001449
%RSD	.5183289	.2817926	3.717900	41.56312	.6369990	93.36731	.4398288
#1	.0587695	1.677993	.0034879	-.000461	337.8737	-.000906	.0330471
#2	.0590199	1.676388	.0037510	-.000682	333.6786	-.003717	.0327852
#3	.0584141	1.685271	.0035752	-.001066	335.0648	-.000746	.0330236

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6844330**	**.0001430**	**.0007340**	**-.015204**	**.0001352**	**1.236922**	**.0161471**
Stddev	.0384828	.0007508	.0000405	.000675	.0010524	.016068	.0001303
%RSD	5.622583	525.0907	5.518241	4.441757	778.2481	1.299061	.8071954
#1	.6513549	-.000022	.0006879	-.014892	.0013456	1.253409	.0160910
#2	.7266685	.000962	.0007639	-.015979	-.000564	1.221307	.0162961
#3	.6752756	-.000512	.0007502	-.014741	-.000376	1.236050	.0160542

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-08 Acquired: 10/28/2025 15:19:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4300641	-.010709	.3307949
Stddev	.0016241	.001775	.0014011
%RSD	.3776418	16.57354	.4235462
#1	.4299895	-.009496	.3306894
#2	.4317242	-.009884	.3294496
#3	.4284785	-.012746	.3322458

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5364.460	86068.56	7115.606	4050.391	6241.834
Stddev	13.894	249.01	54.592	11.029	6.084
%RSD	.2589951	.2893209	.7672088	.2722951	.0974750
#1	5362.946	85828.91	7178.550	4047.717	6244.582
#2	5379.049	86325.99	7081.164	4062.511	6246.060
#3	5351.385	86050.78	7087.105	4040.944	6234.861

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04 Acquired: 10/28/2025 15:23:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000907**	**-.002401**	**.0200756**	**.0035907**	**.0018381**	**.0576656**	**.2203754**
Stddev	.001826	.002118	.0006211	.0045548	.0008308	.0182927	.0022430
%RSD	201.3834	88.21910	3.093570	126.8490	45.20217	31.72207	1.017793
#1	-.001578	-.000614	.0193770	.0080097	.0027052	.0758513	.2224754
#2	-.002303	-.004741	.0205650	.0038513	.0017600	.0578776	.2180127
#3	.001160	-.001848	.0202848	-.001089	.0010490	.0392678	.2206382

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001562**	**.0000009**	**73.61040**	**.0051713**	**.0023293**	**.0093697**	**21.79262**
Stddev	.0000736	.0000747	.14185	.0001229	.0000694	.0004067	.06335
%RSD	47.10660	8383.026	.1926978	2.375792	2.979074	4.340159	.2906720
#1	.0001377	-.000022	73.76837	.0051597	.0023217	.0095421	21.72189
#2	.0002373	-.000060	73.49393	.0050547	.0022640	.0096617	21.84414
#3	.0000936	.000084	73.56891	.0052996	.0024022	.0089052	21.81182

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8650633**	**3.544276**	**.0056024**	**.0005534**	**313.1598**	**-.000252**	**.0684209**
Stddev	.0023932	.031561	.0002631	.0004036	4.1866	.001079	.0000883
%RSD	.2766496	.8904729	4.695425	72.92887	1.336886	427.9682	.1289945
#1	.8672290	3.532892	.0058263	.0005070	317.9097	-.000033	.0685152
#2	.8624939	3.519987	.0056681	.0009781	311.5634	.000701	.0683403
#3	.8654669	3.579950	.0053127	.0001750	310.0063	-.001423	.0684073

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.387483**	**.0350736**	**.0014573**	**-.012163**	**.0013614**	**1.499103**	**.0899892**
Stddev	.013484	.0008714	.0001018	.000710	.0005531	.021489	.0012673
%RSD	.5647616	2.484557	6.983634	5.839962	40.62876	1.433480	1.408326
#1	2.402698	.0341203	.0015745	-.012969	.0013778	1.491436	.0885269
#2	2.382739	.0352714	.0013906	-.011631	.0019062	1.523375	.0907687
#3	2.377013	.0358292	.0014069	-.011887	.0008003	1.482499	.0906721

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04 Acquired: 10/28/2025 15:23:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.9510914	-.004807	.3685279
Stddev	.0046912	.001190	.0013884
%RSD	.4932475	24.75462	.3767496
#1	.9482180	-.004754	.3701088
#2	.9565050	-.006023	.3675064
#3	.9485513	-.003645	.3679685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5352.977	86073.10	7252.221	3984.907	6231.821
Stddev	7.278	140.91	32.669	15.833	4.323
%RSD	.1359619	.1637113	.4504700	.3973278	.0693747
#1	5346.997	86162.81	7230.339	3982.550	6229.272
#2	5361.081	85910.69	7289.773	4001.787	6229.378
#3	5350.854	86145.80	7236.550	3970.385	6236.813

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04DUP Acquired: 10/28/2025 15:28:09 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000542**	**-.003114**	**.0208937**	**.0037101**	**.0012914**	**.0556109**	**.2294490**
Stddev	.002256	.003503	.0009782	.0006996	.0007022	.0133894	.0010034
%RSD	416.2849	112.4856	4.681665	18.85652	54.37035	24.07698	.4373138
#1	-.000632	.000105	.0219675	.0042664	.0020875	.0655065	.2298510
#2	.001758	-.006844	.0206599	.0029247	.0007601	.0609507	.2301892
#3	-.002752	-.002602	.0200535	.0039391	.0010267	.0403755	.2283070

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001940**	**-.000089**	**75.54178**	**.0052163**	**.0024010**	**.0093962**	**22.11272**
Stddev	.0000240	.000027	.17509	.0001160	.0002850	.0002264	.09017
%RSD	12.39372	30.73225	.2317743	2.223432	11.86804	2.409346	.4077906
#1	.0002212	-.000077	75.74008	.0051298	.0027299	.0091624	22.05983
#2	.0001852	-.000069	75.40852	.0053481	.0022308	.0096144	22.06149
#3	.0001756	-.000120	75.47674	.0051710	.0022422	.0094117	22.21684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8915610**	**3.614709**	**.0055779**	**-.000192**	**325.5374**	**-.001425**	**.0689757**
Stddev	.0028034	.012347	.0002855	.000129	4.1704	.000181	.0002208
%RSD	.3144330	.3415667	5.117442	67.13782	1.281070	12.73815	.3200808
#1	.8929979	3.628507	.0058953	-.000084	322.5400	-.001634	.0692147
#2	.8883306	3.604705	.0054961	-.000334	330.3001	-.001324	.0689330
#3	.8933546	3.610914	.0053423	-.000156	323.7722	-.001316	.0687794

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.338916**	**.0353032**	**.0013447**	**-.012481**	**.0000354**	**1.518271**	**.0910232**
Stddev	.051794	.0007612	.0001920	.000998	.0009827	.015351	.0006617
%RSD	2.214462	2.156285	14.27464	7.992407	2772.937	1.011096	.7269752
#1	2.286200	.0351337	.0014976	-.012196	-.001098	1.528617	.0907779
#2	2.340812	.0346409	.0011293	-.011657	.000549	1.500633	.0905191
#3	2.389737	.0361349	.0014074	-.013590	.000655	1.525563	.0917725

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04DUP Acquired: 10/28/2025 15:28:09 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.9567406	-.003844	.3795808
Stddev	.0051393	.000487	.0008571
%RSD	.5371646	12.66762	.2258053
#1	.9625345	-.003978	.3802681
#2	.9549549	-.003304	.3786204
#3	.9527324	-.004249	.3798538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5322.122	85731.83	7107.924	3993.768	6187.926
Stddev	6.712	204.66	33.365	31.955	15.883
%RSD	.1261132	.2387179	.4694049	.8001192	.2566731
#1	5314.807	85510.29	7089.247	3970.402	6169.587
#2	5323.563	85771.35	7088.080	3980.719	6197.237
#3	5327.997	85913.84	7146.444	4030.182	6196.954

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04LX5 Acquired: 10/28/2025 15:32:33 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000537**	**.0004533**	**.0035263**	**.0007829**	**-.000071**	**.0093561**	**.0482924**
Stddev	.001300	.0009228	.0004654	.0025453	.000199	.0087962	.0005866
%RSD	242.3487	203.5958	13.19827	325.1009	281.3424	94.01514	1.214730
#1	.000802	.0003354	.0036678	-.000960	-.000243	.0193365	.0488366
#2	-.001796	.0014294	.0039045	.003704	-.000116	.0027328	.0483697
#3	-.000616	-.000405	.0030065	-.000395	.000147	.0059992	.0476710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000419**	**-.000040**	**16.80541**	**.0010767**	**.0005258**	**.0023860**	**4.694885**
Stddev	.0000442	.000073	.03791	.0003032	.0001953	.0006142	.033336
%RSD	105.5589	185.7169	.2255817	28.15870	37.14925	25.74245	.7100491
#1	.0000314	-.000123	16.79137	.0009649	.0003150	.0029373	4.732554
#2	.0000903	-.000011	16.84834	.0008452	.0005617	.0017239	4.682912
#3	.0000038	.000016	16.77653	.0014199	.0007007	.0024966	4.669190

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1975944**	**.8004150**	**.0009420**	**-.000356**	**67.17958**	**-.000816**	**.0143971**
Stddev	.0014009	.0269463	.0000976	.000142	.88500	.000795	.0000945
%RSD	.7089836	3.366535	10.36097	39.91859	1.317366	97.46122	.6565034
#1	.1986737	.8304248	.0008456	-.000454	68.17868	.000088	.0143614
#2	.1980983	.7782925	.0010408	-.000421	66.86593	-.001126	.0143256
#3	.1960112	.7925277	.0009396	-.000193	66.49411	-.001408	.0145042

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.067531**	**-.000222**	**.0003222**	**-.003532**	**-.000339**	**.2922921**	**.0193116**
Stddev	.019744	.000573	.0001437	.000390	.002008	.0099193	.0009131
%RSD	1.849485	257.9931	44.59156	11.05192	592.9904	3.393613	4.728459
#1	1.072572	-.000402	.0001577	-.003845	.001923	.3025557	.0203083
#2	1.084265	-.000683	.0003860	-.003095	-.001910	.2915630	.0185154
#3	1.045755	.000419	.0004228	-.003657	-.001028	.2827574	.0191112

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04LX5 Acquired: 10/28/2025 15:32:33 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2118373	.0164280	.0845619
Stddev	.0035747	.0016654	.0001532
%RSD	1.687469	10.13735	.1811226
#1	.2104060	.0145952	.0846280
#2	.2159058	.0178484	.0846709
#3	.2092000	.0168404	.0843868

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5498.788	89195.07	6991.443	4205.464	6602.034
Stddev	32.608	341.13	55.539	2.974	42.339
%RSD	.5929947	.3824568	.7943852	.0707254	.6413076
#1	5527.585	88801.25	7031.761	4205.319	6640.935
#2	5463.382	89385.10	6928.093	4208.509	6556.939
#3	5505.395	89398.87	7014.473	4202.565	6608.228

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04MS Acquired: 10/28/2025 15:36:48 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8535366**	**2.095327**	**1.000983**	**2.125784**	**.8524376**	**1.931497**	**.3798647**
Stddev	.0581463	.102799	.068966	.143503	.0604579	.005894	.0026059
%RSD	6.812403	4.906109	6.889808	6.750591	7.092359	.3051613	.6860059
#1	.8224570	2.044169	.960787	2.044789	.8179366	1.924728	.3782297
#2	.9206180	2.213668	1.080617	2.291473	.9222469	1.934264	.3828698
#3	.8175347	2.028144	.961546	2.041090	.8171294	1.935498	.3784945

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2018824**	**.2090253**	**61.98872**	**.4173758**	**.2143414**	**.3214679**	**20.65779**
Stddev	.0008666	.0148279	.14645	.0015497	.0151484	.0230304	.05226
%RSD	.4292575	7.093811	.2362480	.3712885	7.067414	7.164124	.2529732
#1	.2010397	.2004522	61.81986	.4157813	.2055028	.3092295	20.62902
#2	.2018362	.2261470	62.06523	.4174697	.2318330	.3480337	20.62624
#3	.2027711	.2004766	62.08105	.4188764	.2056885	.3071405	20.71812

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9209406**	**4.855770**	**.5288243**	**.0726048**	**258.9486**	**.2986945**	**.2723759**
Stddev	.0057256	.019943	.0376518	.0001747	2.4386	.0046491	.0017223
%RSD	.6217094	.4107115	7.119913	.2406216	.9417248	1.556469	.6323121
#1	.9155569	4.863010	.5070870	.0724033	259.3344	.3034750	.2736352
#2	.9269557	4.833218	.5723009	.0727143	261.1713	.2941890	.2704133
#3	.9203091	4.871082	.5070849	.0726968	256.3401	.2984194	.2730793

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.13837**	**.2980820**	**.4598583**	**.7423894**	**.1966630**	**2.090569**	**6.541758**
Stddev	.03157	.0011191	.0316246	.0525881	.0008487	.027192	.447397
%RSD	.2600498	.3754397	6.877025	7.083630	.4315393	1.300694	6.839088
#1	12.16201	.2972371	.4417418	.7132577	.1956893	2.091180	6.286441
#2	12.15057	.2976577	.4963749	.8030965	.1970543	2.063076	7.058355
#3	12.10252	.2993512	.4414583	.7108140	.1972454	2.117449	6.280477

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04MS Acquired: 10/28/2025 15:36:48 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7619163	.1909493	.4977907
Stddev	.0541889	.0018225	.0023611
%RSD	7.112187	.9544147	.4743219
#1	.7327805	.1907676	.4956135
#2	.8244401	.1892245	.5003005
#3	.7285283	.1928558	.4974579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5135.980	85055.50	6848.344	4004.765	5938.186
Stddev	303.644	321.10	30.068	18.573	358.732
%RSD	5.912102	.3775212	.4390555	.4637778	6.041108
#1	5302.683	85262.70	6880.354	3989.898	6137.406
#2	4785.501	85218.19	6843.983	4025.585	5524.057
#3	5319.757	84685.62	6820.694	3998.812	6153.096

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04MSD Acquired: 10/28/2025 15:40:56 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8401052**	**2.067861**	**.9815542**	**2.095933**	**.8291288**	**2.074474**	**.4410837**
Stddev	.0019875	.021665	.0008006	.004697	.0012071	.013183	.0021825
%RSD	.2365786	1.047715	.0815644	.2240955	.1455888	.6355084	.4948036
#1	.8378982	2.043799	.9820400	2.101319	.8277427	2.059540	.4433537
#2	.8417537	2.073961	.9819925	2.093794	.8296946	2.079381	.4408966
#3	.8406638	2.085821	.9806302	2.092687	.8299491	2.084500	.4390008

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2179645**	**.2040326**	**77.80968**	**.4260782**	**.2086573**	**.3120875**	**23.83152**
Stddev	.0020875	.0003900	.03195	.0003232	.0002003	.0003763	.23463
%RSD	.9577246	.1911191	.0410565	.0758568	.0960099	.1205882	.9845268
#1	.2203463	.2043710	77.82447	.4257190	.2088749	.3120453	23.57516
#2	.2164528	.2041208	77.77302	.4263455	.2086167	.3124831	24.03558
#3	.2170944	.2036062	77.83155	.4261700	.2084804	.3117340	23.88383

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.128808**	**5.793089**	**.5164055**	**.0627158**	**325.2362**	**.3146769**	**.2852738**
Stddev	.003176	.056473	.0007703	.0002367	2.3230	.0035510	.0000962
%RSD	.2813901	.9748261	.1491593	.3774726	.7142394	1.128462	.0337351
#1	1.127225	5.732502	.5166469	.0628995	325.2792	.3146389	.2852440
#2	1.126735	5.844265	.5170261	.0624486	322.8921	.3111451	.2853814
#3	1.132465	5.802499	.5155434	.0627991	327.5374	.3182468	.2851960

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.68551**	**.3219840**	**.4460634**	**.7234819**	**.2061854**	**2.335902**	**6.482250**
Stddev	.15667	.0018272	.0003348	.0019891	.0024359	.011537	.055867
%RSD	1.234998	.5674658	.0750547	.2749415	1.181405	.4939137	.8618413
#1	12.50845	.3240774	.4464500	.7235354	.2039700	2.325908	6.521113
#2	12.80617	.3211647	.4458670	.7254438	.2087939	2.333270	6.507410
#3	12.74191	.3207099	.4458733	.7214666	.2057924	2.348528	6.418228

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04MSD Acquired: 10/28/2025 15:40:56 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.8945999	.2164022	.5872846
Stddev	.0060282	.0004870	.0017057
%RSD	.6738416	.2250247	.2904326
#1	.8899025	.2168295	.5873617
#2	.9013972	.2158720	.5889503
#3	.8925000	.2165051	.5855416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5226.320	83354.84	6330.244	3961.342	6006.790
Stddev	4.962	147.09	47.426	4.608	15.031
%RSD	.0949460	.1764646	.7491961	.1163123	.2502283
#1	5224.431	83483.64	6280.821	3960.996	5994.499
#2	5222.580	83386.33	6375.382	3966.112	6002.324
#3	5231.950	83194.56	6334.527	3956.917	6023.548

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV04 Acquired: 10/28/2025 15:45:05 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.927083**	**5.214309**	**4.919013**	**4.925708**	**4.911161**	**9.558643**	**9.922428**
Stddev	.009777	.099902	.006369	.014059	.009375	.022619	.015610
%RSD	.1984288	1.915927	.1294817	.2854297	.1908879	.2366362	.1573210
#1	4.923103	5.310385	4.922978	4.932274	4.907135	9.552060	9.916263
#2	4.919924	5.110976	4.922395	4.909567	4.904471	9.540045	9.940179
#3	4.938222	5.221565	4.911666	4.935283	4.921876	9.583823	9.910842

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2560499**	**2.495415**	**24.69199**	**1.004704**	**2.489630**	**1.245178**	**4.887822**
Stddev	.0021960	.000594	.07405	.002477	.001581	.001394	.035571
%RSD	.8576512	.0237856	.2998994	.2465853	.0634977	.1119567	.7277508
#1	.2569120	2.495825	24.66262	1.006670	2.490883	1.244718	4.860792
#2	.2535536	2.495687	24.63712	1.005522	2.490152	1.246745	4.928120
#3	.2576840	2.494735	24.77622	1.001921	2.487854	1.244073	4.874554

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.501404**	**24.69980**	**2.485832**	**1.241518**	**25.71253**	**2.456691**	**2.480061**
Stddev	.009400	.12322	.000501	.001782	.30659	.002449	.007436
%RSD	.3757971	.4988602	.0201350	.1435212	1.192377	.0997016	.2998419
#1	2.498180	24.73082	2.485638	1.242290	25.73589	2.457660	2.482674
#2	2.494039	24.56404	2.486400	1.239480	26.00677	2.453906	2.471671
#3	2.511991	24.80455	2.485457	1.242784	25.39493	2.458508	2.485837

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.76439**	**5.060716**	**5.001234**	**5.023226**	**4.933584**	**4.804333**	**5.058013**
Stddev	.25317	.043485	.003656	.004409	.009059	.012456	.029300
%RSD	1.022321	.8592656	.0731090	.0877720	.1836172	.2592728	.5792853
#1	24.66556	5.080617	4.997692	5.022962	4.937716	4.795221	5.090811
#2	25.05207	5.010842	5.001016	5.018954	4.923196	4.818527	5.048809
#3	24.57553	5.090689	5.004995	5.027760	4.939841	4.799252	5.034421

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV04 Acquired: 10/28/2025 15:45:05 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.957083**	**4.855853**	**4.865651**
Stddev	.023397	.009165	.072579
%RSD	.4719958	.1887321	1.491656
#1	4.976458	4.855168	4.866623
#2	4.931089	4.865341	4.792592
#3	4.963700	4.847051	4.937739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5666.980**	**90030.89**	**6969.683**	**4249.183**	**6536.144**
Stddev	12.506	161.01	42.071	6.909	15.364
%RSD	.2206736	.1788359	.6036241	.1625893	.2350654
#1	5672.678	90005.40	6950.764	4255.106	6533.836
#2	5652.640	89884.15	7017.891	4250.849	6522.065
#3	5675.621	90203.12	6940.393	4241.593	6552.532

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB04 Acquired: 10/28/2025 15:49:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0002022**	**-.001361**	**-.000677**	**.0003206**	**.0009460**	**.0070138**	**.0031125**
Stddev	.0007767	.002114	.000117	.0006692	.0009932	.0104251	.0012140
%RSD	384.1219	155.3715	17.34939	208.7440	104.9842	148.6367	39.00446
#1	-.000419	-.003298	-.000635	.0002231	.0012022	.0012521	.0037794
#2	.001073	.000894	-.000809	.0010331	.0017860	.0007413	.0038468
#3	-.000047	-.001679	-.000586	-.000295	-.000150	.0190480	.0017112

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000140**	**-.000026**	**-.003461**	**.0001004**	**.0000189**	**.0015944**	**.0069037**
Stddev	.0000164	.000007	.001593	.0002165	.0000215	.0000692	.0075938
%RSD	117.0202	25.80552	46.02031	215.6546	113.6516	4.342422	109.9961
#1	.0000330	-.000019	-.004369	.0002313	.0000037	.0015239	.0000451
#2	.0000046	-.000033	-.001622	-.000150	.0000435	.0015972	.0150642
#3	.0000045	-.000027	-.004392	.000219	.0000095	.0016623	.0056016

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000652**	**-.023112**	**-.000470**	**-.000404**	**.6790833**	**.0014969**	**-.000067**
Stddev	.000244	.010872	.000126	.000302	.0291355	.0023675	.000208
%RSD	37.46749	47.04144	26.74513	74.62173	4.290412	158.1584	310.7385
#1	-.000914	-.012449	-.000448	-.000749	.6477809	.0042249	.000173
#2	-.000613	-.034182	-.000357	-.000275	.7054113	.0002883	-.000200
#3	-.000430	-.022703	-.000605	-.000189	.6840577	-.000022	-.000173

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3539242**	**-.001999**	**.0003298**	**.0002501**	**.0016859**	**-.003376**	**-.001310**
Stddev	.0429499	.000621	.0000694	.0004620	.0010428	.004161	.000859
%RSD	12.13534	31.08066	21.03518	184.7024	61.85509	123.2663	65.60966
#1	.3311400	-.001749	.0003364	.0005959	.0025686	-.005703	-.001238
#2	.3271672	-.001542	.0003956	.0004289	.0005353	-.005852	-.000489
#3	.4034655	-.002707	.0002573	-.000275	.0019538	.001428	-.002203

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB04 Acquired: 10/28/2025 15:49:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0066583	.0057420	.0001112
Stddev	.0017759	.0025045	.0000618
%RSD	26.67255	43.61719	55.59370
#1	.0058195	.0041252	.0000999
#2	.0054570	.0086269	.0001779
#3	.0086982	.0044738	.0000558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5729.663	92333.32	7014.323	4307.565	7349.400
Stddev	14.610	273.17	25.405	14.958	15.440
%RSD	.2549828	.2958484	.3621812	.3472519	.2100872
#1	5715.802	92164.26	7014.228	4291.102	7332.949
#2	5728.266	92187.22	7039.775	4311.273	7351.672
#3	5744.921	92648.46	6988.966	4320.320	7363.578

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04A Acquired: 10/28/2025 15:53:26 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8284647**	**1.959601**	**.9794356**	**2.071300**	**.8298339**	**1.990429**	**.4250191**
Stddev	.0012041	.024297	.0027801	.005354	.0013639	.005717	.0017706
%RSD	.1453360	1.239909	.2838491	.2584927	.1643593	.2872174	.4165844
#1	.8284972	1.984088	.9763520	2.067346	.8309574	1.987957	.4244063
#2	.8296522	1.935497	.9802044	2.077393	.8302281	1.996966	.4270147
#3	.8272448	1.959219	.9817505	2.069160	.8283164	1.986364	.4236363

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2030198**	**.2033097**	**75.65157**	**.4221662**	**.2081356**	**.3138029**	**24.72949**
Stddev	.0007267	.0003114	.07394	.0008373	.0005183	.0002469	.06380
%RSD	.3579589	.1531726	.0977322	.1983342	.2490054	.0786760	.2579868
#1	.2022206	.2029776	75.59190	.4212968	.2075514	.3135347	24.79486
#2	.2036409	.2035952	75.73429	.4222345	.2083153	.3138536	24.72621
#3	.2031980	.2033563	75.62854	.4229672	.2085402	.3140206	24.66739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.090951**	**5.527404**	**.5176592**	**.0692966**	**321.8765**	**.3056058**	**.2817123**
Stddev	.000749	.007395	.0014037	.0005473	1.8725	.0021028	.0012229
%RSD	.0686973	.1337920	.2711579	.7897850	.5817468	.6880682	.4340830
#1	1.090220	5.529168	.5160688	.0698834	321.1795	.3074071	.2803006
#2	1.091718	5.533757	.5187251	.0688000	323.9975	.3032952	.2824430
#3	1.090914	5.519286	.5181837	.0692064	320.4524	.3061152	.2823934

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.88942**	**.3139130**	**.4436737**	**.7230134**	**.1989590**	**2.378083**	**6.379364**
Stddev	.04296	.0007362	.0010262	.0025000	.0021420	.018115	.010244
%RSD	.3332667	.2345176	.2312990	.3457788	1.076608	.7617315	.1605732
#1	12.86496	.3130865	.4425392	.7237875	.1964880	2.358770	6.384349
#2	12.86427	.3144985	.4445371	.7202178	.2001015	2.380784	6.367582
#3	12.93902	.3141538	.4439449	.7250347	.2002876	2.394696	6.386161

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-04A Acquired: 10/28/2025 15:53:26 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.9399703	.1956071	.5713004
Stddev	.0039648	.0013572	.0003252
%RSD	.4218019	.6938483	.0569256
#1	.9438212	.1946226	.5716181
#2	.9359007	.1950434	.5713151
#3	.9401889	.1971553	.5709682

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5262.151	84404.73	6843.624	3985.017	6060.708
Stddev	15.596	101.66	22.195	17.842	15.834
%RSD	.2963750	.1204399	.3243097	.4477308	.2612600
#1	5280.109	84510.56	6868.752	4002.126	6078.352
#2	5254.345	84395.79	6835.421	3986.402	6056.036
#3	5252.000	84307.83	6826.698	3966.522	6047.735

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3422-02 Acquired: 10/28/2025 15:57:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001440**	**-.004343**	**.0010328**	**.0041154**	**.0026962**	**.0200356**	**.0025082**
Stddev	.000621	.002425	.0002063	.0013674	.0022695	.0168855	.0005544
%RSD	43.13883	55.83414	19.97675	33.22587	84.17568	84.27729	22.10257
#1	-.001770	-.005857	.0008220	.0025608	.0048495	.0370889	.0024164
#2	-.001826	-.001546	.0012344	.0046537	.0029132	.0033230	.0020055
#3	-.000723	-.005626	.0010420	.0051318	.0003259	.0196951	.0031028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000218**	**-.000005**	**.0330135**	**.0052797**	**-.000266**	**.0003307**	**.0261067**
Stddev	.000051	.000102	.0087381	.0002453	.000086	.0003861	.0047936
%RSD	23.41498	2066.537	26.46818	4.646016	32.20187	116.7704	18.36148
#1	-.000265	-.000097	.0234167	.0049997	-.000365	.0004151	.0304872
#2	-.000226	-.000022	.0405102	.0053825	-.000218	.0006676	.0209861
#3	-.000164	.000105	.0351135	.0054568	-.000216	-.000091	.0268467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016658**	**.0104744**	**.0008203**	**-.000599**	**.0632758**	**.0005993**	**.0023047**
Stddev	.0002012	.0225896	.0001407	.000186	.0076967	.0010022	.0000805
%RSD	12.07761	215.6652	17.15245	31.08119	12.16374	167.2405	3.493099
#1	.0015596	-.015601	.0008697	-.000768	.0566129	-.000433	.0022210
#2	.0018978	.024104	.0006616	-.000629	.0615137	.001568	.0023117
#3	.0015400	.022920	.0009298	-.000400	.0717007	.000663	.0023816

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.190946**	**-.007090**	**.0005657**	**-.012825**	**.0004409**	**-.003170**	**.0058861**
Stddev	.018417	.000768	.0002533	.000470	.0003039	.008408	.0006384
%RSD	9.644939	10.82790	44.78601	3.664513	68.92967	265.2105	10.84625
#1	-.200680	-.006208	.0002732	-.012740	.0006222	-.002796	.0053497
#2	-.169705	-.007458	.0007095	-.013331	.0000900	-.011759	.0065923
#3	-.202454	-.007605	.0007144	-.012403	.0006105	.005044	.0057164

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3422-02 Acquired: 10/28/2025 15:57:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0277305	-.002438	.0000578
Stddev	.0002085	.000408	.0001213
%RSD	.7519636	16.73489	209.7542
#1	.0278263	-.002028	-.000074
#2	.0278739	-.002441	.000164
#3	.0274913	-.002844	.000083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5644.046	93612.06	6742.487	4326.733	7319.156
Stddev	14.336	231.31	9.870	31.849	15.908
%RSD	.2540006	.2470967	.1463807	.7360902	.2173457
#1	5641.695	93345.12	6746.905	4303.840	7313.221
#2	5631.031	93737.74	6749.375	4313.253	7307.069
#3	5659.412	93753.32	6731.180	4363.104	7337.178

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170251BL Acquired: 10/28/2025 16:01:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001359**	**-.000435**	**.0006287**	**-.001016**	**.0004817**	**-.002504**	**.0005201**
Stddev	.002226	.001137	.0003074	.001462	.0004194	.012802	.0002736
%RSD	163.8240	261.3916	48.89659	143.9365	87.04869	511.3127	52.60299
#1	.000971	-.001175	.0007435	-.000102	-.000001	.006837	.0006772
#2	-.001583	-.001005	.0008622	-.002702	.000752	-.017096	.0006790
#3	-.003464	.000874	.0002804	-.000243	.000695	.002748	.0002042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000020**	**.0000489**	**-.007585**	**.0000676**	**-.000060**	**.0000604**	**.0430584**
Stddev	.000080	.0000841	.007253	.0000430	.000064	.0002746	.0017755
%RSD	398.0085	171.9387	95.62026	63.56201	107.1480	455.0198	4.123510
#1	.000034	-.000041	-.001164	.0001106	-.000087	.0002948	.0410150
#2	-.000112	.000126	-.015452	.0000677	.000013	.0001280	.0442247
#3	.000017	.000061	-.006139	.0000246	-.000106	-.000242	.0439354

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000710**	**-.004733**	**-.000248**	**-.000757**	**.6644564**	**-.001674**	**-.000278**
Stddev	.0002736	.004159	.000066	.000047	.0345365	.002470	.000326
%RSD	385.2624	87.86981	26.61135	6.219919	5.197706	147.5801	117.0807
#1	.0002674	-.002473	-.000280	-.000773	.6329895	.000965	.000011
#2	.0001872	-.002194	-.000291	-.000793	.7014065	-.002056	-.000631
#3	-.000241	-.009533	-.000172	-.000703	.6589732	-.003930	-.000215

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3128027**	**-.008047**	**-.000013**	**.0016538**	**.0016473**	**-.012906**	**-.001875**
Stddev	.0248286	.000969	.000216	.0004337	.0010885	.006605	.002083
%RSD	7.937477	12.03832	1653.466	26.22560	66.07676	51.17573	111.0903
#1	.3074194	-.007385	-.000128	.0013647	.0004433	-.014334	-.000654
#2	.3398814	-.009159	-.000148	.0021525	.0025618	-.005704	-.004281
#3	.2911073	-.007597	.000237	.0014442	.0019368	-.018679	-.000691

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170251BL Acquired: 10/28/2025 16:01:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0034419	.0063783	-.000050
Stddev	.0002999	.0015322	.000180
%RSD	8.713376	24.02251	362.9269
#1	.0032217	.0065271	-.000237
#2	.0037835	.0078308	-.000033
#3	.0033206	.0047772	.000122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5695.538	91283.80	6940.222	4286.256	7324.227
Stddev	78.448	169.15	39.193	9.235	105.673
%RSD	1.377355	.1853023	.5647197	.2154641	1.442783
#1	5645.185	91468.26	6967.873	4276.143	7257.975
#2	5655.503	91247.21	6957.422	4294.243	7268.613
#3	5785.925	91135.95	6895.370	4288.382	7446.092

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170251BS Acquired: 10/28/2025 16:06:12 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8473718**	**2.316518**	**1.026945**	**2.129943**	**.8604993**	**2.168305**
Stddev	.0003513	.013324	.001776	.004377	.0027451	.006008
%RSD	.0414546	.5751844	.1729813	.2054912	.3190061	.2770831
#1	.8476185	2.305158	1.026312	2.131282	.8613770	2.161929
#2	.8469696	2.313212	1.028951	2.125053	.8574228	2.169125
#3	.8475273	2.331184	1.025571	2.133494	.8626983	2.173861

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2163328**	**.2270695**	**.2074527**	**1.108611**	**.4453627**	**.2129202**
Stddev	.0014759	.0011426	.0002108	.014154	.0015896	.0004143
%RSD	.6822452	.5031750	.1015973	1.276726	.3569282	.1945545
#1	.2156207	.2280631	.2076358	1.122725	.4435621	.2133920
#2	.2180298	.2273243	.2075000	1.094418	.4465720	.2127525
#3	.2153480	.2258211	.2072223	1.108689	.4459538	.2126161

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3379786**	**3.270093**	**.2239488**	**2.141704**	**.5342308**	**.0813137**
Stddev	.0002415	.019932	.0008439	.030623	.0010666	.0001285
%RSD	.0714637	.6095249	.3768094	1.429822	.1996599	.1580432
#1	.3379065	3.249561	.2230929	2.107939	.5348013	.0814616
#2	.3377813	3.271353	.2247801	2.149491	.5348909	.0812507
#3	.3382480	3.289365	.2239734	2.167681	.5330002	.0812289

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.539280**	**.3202862**	**.2276841**	**10.31798**	**.3231958**	**.4410880**
Stddev	.023747	.0012844	.0009413	.08844	.0027452	.0003577
%RSD	.6709456	.4010251	.4134102	.8571393	.8493966	.0810908
#1	3.514986	.3203347	.2277947	10.21648	.3253530	.4413071
#2	3.540415	.3189782	.2266924	10.35892	.3241287	.4412815
#3	3.562439	.3215457	.2285652	10.37852	.3201057	.4406752

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170251BS Acquired: 10/28/2025 16:06:12 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7514077	.2099904	.8934985	6.153509	F .0087788	.2229282
Stddev	.0010007	.0006873	.0096512	.017611	.0057512	.0007629
%RSD	.1331802	.3272866	1.080155	.2861874	65.51203	.3422136
#1	.7506654	.2096433	.8931917	6.159267	.0057371	.2223663
#2	.7525458	.2107820	.8840043	6.167520	.0154121	.2226217
#3	.7510120	.2095459	.9032994	6.133741	.0051873	.2237967

Elem	Sr4077
Units	ppm
Avg	.2067498
Stddev	.0001551
%RSD	.0750074
#1	.2067168
#2	.2069187
#3	.2066139

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5648.787	90814.93	6847.184	4233.682	6983.937
Stddev	6.620	224.46	23.090	17.633	14.636
%RSD	.1171855	.2471583	.3372221	.4165025	.2095700
#1	5646.431	91060.94	6832.190	4251.628	6974.570
#2	5643.667	90762.55	6835.587	4233.037	6976.437
#3	5656.262	90621.29	6873.774	4216.379	7000.803

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3434-02DLX5 Acquired: 10/28/2025 16:10:13 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0039388**	**-.000352**	**.0311585**	**-.001364**	**.0016982**	**3.654840**
Stddev	.0017032	.002027	.0006711	.000850	.0004813	.255911
%RSD	43.24249	575.6060	2.153794	62.36452	28.34188	7.001973
#1	.0058748	.000584	.0304075	-.000548	.0013278	3.949282
#2	.0026709	.001037	.0316993	-.002245	.0015244	3.485976
#3	.0032707	-.002678	.0313688	-.001299	.0022422	3.529262

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1120728**	**.0002330**	**.0003896**	**35.26042**	**.0220457**	**.0013847**
Stddev	.0082435	.0001011	.0000704	2.35924	.0003466	.0001893
%RSD	7.355447	43.37421	18.07016	6.690913	1.572281	13.67373
#1	.1215915	.0001475	.0003085	37.97413	.0224332	.0015545
#2	.1072970	.0002069	.0004343	33.69644	.0219386	.0014190
#3	.1073300	.0003445	.0004261	34.11071	.0217652	.0011806

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0236981**	**4.783396**	**.2544498**	**104.9578**	**.0065100**	**-.000093**
Stddev	.0004020	.080849	.0171491	7.1700	.0003205	.000308
%RSD	1.696394	1.690194	6.739685	6.831350	4.923836	331.1867
#1	.0239380	4.858631	.2741517	113.1849	.0067401	-.000412
#2	.0232339	4.697911	.2428752	100.0407	.0066461	-.000067
#3	.0239223	4.793646	.2463227	101.6477	.0061439	.000201

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1003.320**	**.0084363**	**.1225650**	**42.53179**	**.3601631**	**.0061279**
Stddev	4.436	.0028256	.0009963	.53642	.0197896	.0002092
%RSD	.4421633	33.49286	.8128539	1.261232	5.494620	3.413179
#1	999.623	.0108276	.1231421	43.12680	.3829857	.0062041
#2	1002.098	.0053184	.1214146	42.08520	.3477629	.0058914
#3	1008.239	.0091629	.1231384	42.38337	.3497408	.0062884

Sample Name: Q3434-02DLX5 Acquired: 10/28/2025 16:10:13 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0203337	.1755375	F 10.59448	.7297619	F 83.28487	.0250199
Stddev	.0004832	.0026258	.13448	.0041260	.67823	.0025829
%RSD	2.376506	1.495851	1.269295	.5653952	.8143488	10.32352
#1	.0207229	.1770034	10.73415	.7334638	84.02131	.0271492
#2	.0197928	.1725060	10.58342	.7253136	82.68591	.0221466
#3	.0204852	.1771029	10.46588	.7305082	83.14740	.0257639

Elem	Sr4077
Units	ppm
Avg	.5860387
Stddev	.0394759
%RSD	6.736053
#1	.6314705
#2	.5601122
#3	.5665334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4982.322	79469.90	6968.815	3724.782	5521.320
Stddev	13.028	404.96	384.007	24.528	8.900
%RSD	.2614852	.5095710	5.510358	.6585070	.1611947
#1	4990.740	79156.32	6529.583	3704.564	5531.079
#2	4988.910	79927.09	7241.035	3752.068	5519.231
#3	4967.316	79326.28	7135.828	3717.715	5513.651

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-01DLX5 Acquired: 10/28/2025 16:14:32 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1164229**	**-.039107**	**2.535478**	**.0006701**	**.0660646**	**2.315609**
Stddev	.0014637	.000814	.000766	.0005990	.0008977	.214302
%RSD	1.257228	2.082128	.0302177	89.38611	1.358740	9.254665
#1	.1163650	-.039235	2.534928	.0000728	.0671005	2.541414
#2	.1149890	-.038236	2.536353	.0006666	.0655763	2.290366
#3	.1179147	-.039849	2.535153	.0012708	.0655169	2.115046

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1514175**	**.0079878**	**.0075527**	**11.88436**	**.0074083**	**.0592551**
Stddev	.0165791	.0006128	.0007288	1.01477	.0008596	.0004548
%RSD	10.94929	7.671578	9.650130	8.538728	11.60310	.7674426
#1	.1689373	.0085558	.0067134	12.94798	.0064543	.0587765
#2	.1493403	.0080692	.0080264	11.77833	.0081226	.0593074
#3	.1359748	.0073383	.0079182	10.92676	.0076480	.0596815

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.788820**	**485.5353**	**2.439496**	**2.129059**	**.1132228**	**.0120557**
Stddev	.004948	7.9750	.210352	.178192	.0005250	.0017499
%RSD	.2766122	1.642527	8.622747	8.369516	.4636875	14.51552
#1	1.783200	494.7264	2.660142	2.309070	.1134483	.0139384
#2	1.792521	480.4459	2.417118	2.125364	.1126227	.0117500
#3	1.790739	481.4336	2.241228	1.952743	.1135974	.0104788

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.004496**	**.0502114**	**1.514399**	**.6525934**	**.1673657**	**.0020832**
Stddev	.119310	.0020491	.013243	.0526509	.0780297	.0002392
%RSD	1.325004	4.080841	.8744588	8.067953	46.62227	11.48376
#1	9.142051	.0525566	1.529556	.6365990	.0929130	.0022899
#2	8.929095	.0487676	1.505064	.6097944	.1606463	.0021386
#3	8.942341	.0493100	1.508579	.7113869	.2485377	.0018211

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-01DLX5 Acquired: 10/28/2025 16:14:32 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1120826	.1103561	1.164486	.6679230	F 18.36860	.0548620
Stddev	.0014636	.0102936	.002916	.0027874	.10655	.0021808
%RSD	1.305838	9.327609	.2504187	.4173166	.5800539	3.975120
#1	.1132608	.1215380	1.167750	.6711359	18.38567	.0573800
#2	.1104442	.1082555	1.163568	.6661509	18.25455	.0535761
#3	.1125428	.1012749	1.162139	.6664823	18.46559	.0536298

Elem	Sr4077
Units	ppm
Avg	-.358966
Stddev	.004229
%RSD	1.178124
#1	-.357740
#2	-.355485
#3	-.363672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5584.830	92243.71	7528.088	4200.030	6870.759
Stddev	6.980	642.28	586.417	27.173	1.474
%RSD	.1249855	.6962892	7.789715	.6469680	.0214586
#1	5581.210	91594.71	6932.614	4173.466	6870.367
#2	5580.404	92879.06	7546.644	4227.774	6872.390
#3	5592.877	92257.37	8105.006	4198.851	6869.521

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-03DLX5 Acquired: 10/28/2025 16:18:37 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8908674**	**-.030695**	**45.39713**	**.0913452**	**1.969073**	**34.17603**
Stddev	.0007980	.001270	.04743	.0016117	.001660	.36319
%RSD	.0895781	4.138031	.1044846	1.764420	.0842853	1.062710
#1	.8907605	-.031004	45.38371	.0912493	1.970105	34.59206
#2	.8901282	-.029298	45.35785	.0897836	1.967159	33.92226
#3	.8917135	-.031782	45.44982	.0930028	1.969955	34.01375

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.923316**	**.0092486**	**.0751737**	**84.42449**	**.3153771**	**.1178794**
Stddev	.037693	.0000615	.0002273	.98315	.0004792	.0001586
%RSD	1.289377	.6653284	.3023513	1.164535	.1519397	.1345175
#1	2.965680	.0093032	.0751503	85.52993	.3148892	.1180182
#2	2.893490	.0091819	.0749590	83.64795	.3158471	.1177066
#3	2.910778	.0092607	.0754118	84.09559	.3153950	.1179134

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.45520**	**413.0458**	**2.471190**	**13.57381**	**.6149287**	**.0738879**
Stddev	.00273	.6365	.035614	.23036	.0006026	.0000540
%RSD	.0260810	.1541105	1.441182	1.697106	.0979886	.0730714
#1	10.45483	413.3427	2.511857	13.83578	.6152384	.0738743
#2	10.45809	413.4796	2.445564	13.40289	.6142343	.0738420
#3	10.45267	412.3150	2.456149	13.48275	.6153134	.0739474

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.081669**	**.2191267**	**10.31911**	**3.568630**	**.1998868**	**.0218516**
Stddev	.016107	.0003699	.02600	.012534	.0084976	.0003079
%RSD	.7737643	.1688095	.2519395	.3512168	4.251215	1.409014
#1	2.077481	.2194128	10.34117	3.583006	.1925416	.0219294
#2	2.099457	.2192583	10.32572	3.562889	.2091937	.0215122
#3	2.068070	.2187090	10.29045	3.559995	.1979251	.0221130

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-03DLX5 Acquired: 10/28/2025 16:18:37 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.833676	1.228737	1.418738	6.753993	F 15.34207	.0716208
Stddev	.002299	.018591	.006365	.032194	.02659	.0021717
%RSD	.1253683	1.513038	.4486658	.4766590	.1732932	3.032264
#1	1.835518	1.248957	1.426027	6.771044	15.37275	.0735023
#2	1.831100	1.212383	1.415915	6.774075	15.32588	.0692443
#3	1.834411	1.224872	1.414274	6.716861	15.32757	.0721158

Elem	Sr4077
Units	ppm
Avg	.1294249
Stddev	.0076787
%RSD	5.932898
#1	.1379195
#2	.1229768
#3	.1273786

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5776.116	94823.18	7630.935	4373.259	6587.063
Stddev	3.140	244.15	76.622	9.766	4.519
%RSD	.0543638	.2574813	1.004091	.2233170	.0686098
#1	5776.975	95098.79	7552.924	4371.618	6592.254
#2	5772.635	94633.99	7706.087	4364.417	6584.005
#3	5778.736	94736.76	7633.795	4383.741	6584.930

Sample Name: Q3447-05DLX5 Acquired: 10/28/2025 16:22:37 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1348430**	**-.012163**	F **371.2904**	**-.001371**	**3.616398**	**5.597981**
Stddev	.0024820	.001776	8.6157	.003629	.081539	.016553
%RSD	1.840648	14.60231	2.320474	264.7498	2.254689	.2957035
#1	.1365752	-.013007	373.1373	-.004244	3.640824	5.616324
#2	.1319995	-.013360	361.9010	-.002576	3.525439	5.593463
#3	.1359541	-.010122	378.8329	.002707	3.682933	5.584156

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2920762**	**.0023785**	**.0352578**	**6.897569**	**.0454237**	**.0344486**
Stddev	.0012963	.0000394	.0006138	.019919	.0012076	.0009794
%RSD	.4438403	1.655801	1.740930	.2887773	2.658555	2.843176
#1	.2912246	.0023346	.0354932	6.911827	.0458903	.0350101
#2	.2914359	.0024106	.0345612	6.874810	.0440524	.0333177
#3	.2935681	.0023904	.0357192	6.906068	.0463285	.0350181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **93.23386**	**138.3269**	**.6160065**	**1.481769**	**.3495502**	**.0637836**
Stddev	1.93660	3.9512	.0032527	.023538	.0073991	.0021169
%RSD	2.077145	2.856447	.5280336	1.588486	2.116741	3.318928
#1	93.93742	140.2344	.6129478	1.459609	.3528071	.0653992
#2	91.04383	133.7838	.6156481	1.506477	.3410814	.0613872
#3	94.72034	140.9624	.6194235	1.479221	.3547621	.0645645

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.426182**	**.3742944**	**4.587881**	**1.310039**	**.0465067**	**.0075954**
Stddev	.048653	.0011740	.122201	.074321	.0132340	.0001888
%RSD	3.411416	.3136529	2.663550	5.673160	28.45604	2.485789
#1	1.427493	.3736128	4.623421	1.315648	.0551820	.0077822
#2	1.376886	.3736204	4.451850	1.233073	.0312744	.0074046
#3	1.474166	.3756500	4.688372	1.381396	.0530635	.0075994

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3447-05DLX5 Acquired: 10/28/2025 16:22:37 Type: Unk
Method: 6010-200.7 NEW(v320) 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	F **104.3178**	**.1415798**	**.4883330**	**.4448225**	F **20.54288**	**.0200395**
Stddev	2.2834	.0005298	.0051731	.0078626	.39092	.0018256
%RSD	2.188889	.3741873	1.059344	1.767574	1.902941	9.109867
#1	105.3194	.1418403	.4931475	.4491505	20.77465	.0179951
#2	101.7048	.1409702	.4889878	.4357468	20.09154	.0206168
#3	105.9292	.1419288	.4828636	.4495701	20.76245	.0215066

Elem	Sr4077
Units	ppm
Avg	**-.094875**
Stddev	.003859
%RSD	4.067229
#1	-.096865
#2	-.090427
#3	-.097332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5686.296**	**95212.85**	**7417.697**	**4266.237**	**7060.571**
Stddev	112.440	2316.04	34.473	105.984	131.936
%RSD	1.977377	2.432489	.4647452	2.484256	1.868631
#1	5640.281	94171.03	7456.269	4225.698	7002.681
#2	5814.445	97866.83	7389.891	4386.507	7211.555
#3	5604.163	93600.68	7406.932	4186.506	6967.475

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DLX5 Acquired: 10/28/2025 16:26:58 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0224205**	**.0018441**	**.0062012**	**.2015653**	**.0030532**	**1.030195**
Stddev	.0002160	.0036396	.0010198	.0036358	.0007520	.009342
%RSD	.9632116	197.3623	16.44520	1.803778	24.62935	.9068007
#1	.0223652	.0014806	.0071466	.2025921	.0037267	1.020623
#2	.0222376	-.001600	.0051205	.1975265	.0022418	1.039289
#3	.0226588	.005652	.0063364	.2045773	.0031911	1.030673

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031716**	**.0000158**	**-.000003**	**.4568728**	**.0095301**	**.0007356**
Stddev	.0015122	.0000570	.000055	.0170634	.0003155	.0001579
%RSD	47.67750	360.8747	1665.259	3.734826	3.310542	21.46267
#1	.0015829	.0000772	.000006	.4667302	.0091962	.0007203
#2	.0045933	-.000036	-.000062	.4667186	.0095708	.0009005
#3	.0033387	.000006	.000046	.4371697	.0098233	.0005859

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046318**	**.2350514**	**.0047674**	**.3284303**	**.0074399**	**-.000770**
Stddev	.0003257	.0066660	.0007503	.0263162	.0002750	.000213
%RSD	7.031306	2.835979	15.73795	8.012703	3.696603	27.70225
#1	.0043311	.2396616	.0044709	.3063160	.0073352	-.001005
#2	.0049777	.2274082	.0056206	.3575363	.0077519	-.000588
#3	.0045867	.2380844	.0042106	.3214388	.0072326	-.000717

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2481.408**	**.0012298**	**.1144580**	**4.685817**	**3.310274**	**.0117155**
Stddev	8.551	.0022814	.0002853	.261814	.047062	.0002273
%RSD	.3445997	185.5067	.2492434	5.587362	1.421683	1.940371
#1	2491.231	.0027840	.1141725	4.403017	3.281225	.0117841
#2	2477.358	-.001389	.1144585	4.734672	3.364572	.0114618
#3	2475.634	.002295	.1147431	4.919762	3.285026	.0119006

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DLX5 Acquired: 10/28/2025 16:26:58 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0298997	.0206333	6.158174	.0644297	F 584.7707	.0274365
Stddev	.0047607	.0026131	.156554	.0023043	3.2777	.0028158
%RSD	15.92212	12.66435	2.542217	3.576399	.5605123	10.26280
#1	.0349929	.0236288	6.005627	.0622033	582.3662	.0243586
#2	.0291444	.0188218	6.150446	.0668046	588.5042	.0280678
#3	.0255619	.0194493	6.318449	.0642811	583.4417	.0298829

Elem	Sr4077
Units	ppm
Avg	.0040642
Stddev	.0000553
%RSD	1.360429
#1	.0040839
#2	.0040018
#3	.0041069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4728.136	73397.04	7067.134	3537.429	5115.962
Stddev	8.224	302.07	117.467	20.384	12.857
%RSD	.1739466	.4115541	1.662154	.5762483	.2513166
#1	4732.634	73732.67	7118.148	3549.400	5127.198
#2	4718.643	73147.01	6932.785	3548.995	5101.940
#3	4733.130	73311.42	7150.470	3513.892	5118.747

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DUPDLX5 Acquired: 10/28/2025 16:31:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0227420**	**.0014725**	**.0016508**	**.1972764**	**.0026670**	**1.016313**
Stddev	.0022951	.0003722	.0009815	.0026805	.0025022	.006276
%RSD	10.09201	25.27296	59.45745	1.358770	93.82275	.6175567
#1	.0242684	.0015799	.0025293	.1984528	-.000218	1.018680
#2	.0201026	.0017792	.0018317	.1991676	.004242	1.021063
#3	.0238551	.0010585	.0005914	.1942089	.003977	1.009198

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053585**	**.0000218**	**.0000710**	**.4449206**	**.0094480**	**.0004564**
Stddev	.0011157	.0000647	.0000717	.0069070	.0000866	.0000903
%RSD	20.82111	296.5252	100.9914	1.552403	.9165181	19.78550
#1	.0047590	.0000430	.0000620	.4436330	.0094504	.0005581
#2	.0066458	.0000733	.0001467	.4523808	.0095335	.0004255
#3	.0046707	-.000051	.0000042	.4387481	.0093603	.0003856

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045181**	**.2214331**	**.0048480**	**.3285027**	**.0071888**	**-.000296**
Stddev	.0003729	.0056254	.0006019	.0268972	.0002485	.000890
%RSD	8.254216	2.540470	12.41586	8.187805	3.456558	300.9796
#1	.0043159	.2258308	.0042708	.3541515	.0074667	.000594
#2	.0042899	.2150941	.0048011	.3308461	.0071116	-.001187
#3	.0049484	.2233745	.0054719	.3005105	.0069881	-.000295

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2370.208**	**-.000287**	**.1136705**	**5.916791**	**3.386970**	**.0115996**
Stddev	32.882	.000405	.0003499	.238243	.010555	.0002417
%RSD	1.387287	141.1500	.3078264	4.026555	.3116314	2.083537
#1	2396.333	-.000555	.1133344	5.641806	3.375312	.0113227
#2	2333.286	-.000484	.1140327	6.047440	3.395877	.0117079
#3	2381.007	.000179	.1136444	6.061128	3.389721	.0117682

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DUPDLX5 Acquired: 10/28/2025 16:31:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0103776	.0197188	6.288162	.0625256	F 574.8356	.0463129
Stddev	.0009676	.0020457	.134099	.0005064	3.5745	.0029022
%RSD	9.324351	10.37414	2.132562	.8099015	.6218264	6.266583
#1	.0111904	.0180215	6.161106	.0623231	572.6700	.0430412
#2	.0106352	.0219902	6.275041	.0631020	572.8756	.0473200
#3	.0093072	.0191448	6.428339	.0621519	578.9614	.0485774

Elem	Sr4077
Units	ppm
Avg	.0039758
Stddev	.0000975
%RSD	2.451724
#1	.0040479
#2	.0038649
#3	.0040145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4744.204	72659.31	6800.967	3519.039	5136.506
Stddev	6.110	179.51	16.838	9.862	4.051
%RSD	.1287891	.2470639	.2475881	.2802573	.0788695
#1	4745.504	72562.41	6816.085	3524.703	5140.172
#2	4749.560	72866.45	6803.996	3524.764	5132.157
#3	4737.549	72549.06	6782.819	3507.651	5137.188

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV05 Acquired: 10/28/2025 16:35:45 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.098963**	**5.043949**	**5.061880**	**5.085705**	**5.116959**	**9.901456**	**10.25664**
Stddev	.013166	.023627	.002643	.013927	.009557	.023107	.02088
%RSD	.2582014	.4684283	.0522171	.2738428	.1867632	.2333719	.2035663
#1	5.109107	5.052325	5.064374	5.101346	5.127947	9.926594	10.24971
#2	5.084085	5.062248	5.062155	5.074648	5.112345	9.896630	10.28010
#3	5.103697	5.017275	5.059110	5.081121	5.110584	9.881142	10.24011

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2618234**	**2.563415**	**25.53834**	**1.028850**	**2.577531**	**1.292935**	**5.066196**
Stddev	.0019388	.001500	.01770	.003426	.000874	.000740	.050805
%RSD	.7405076	.0585153	.0693163	.3330227	.0339156	.0572334	1.002822
#1	.2638917	2.564225	25.55877	1.027083	2.577245	1.293621	5.022723
#2	.2615313	2.564336	25.52832	1.032799	2.578512	1.293033	5.122046
#3	.2600472	2.561684	25.52792	1.026667	2.576836	1.292151	5.053818

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.592690**	**25.40737**	**2.563060**	**1.279647**	**26.39580**	**2.540705**	**2.563136**
Stddev	.007559	.13148	.000589	.002433	.16735	.010445	.005885
%RSD	.2915476	.5175072	.0229720	.1901529	.6340135	.4110964	.2295905
#1	2.601279	25.55834	2.563717	1.276844	26.23838	2.550627	2.556379
#2	2.589740	25.34586	2.562582	1.281215	26.57157	2.541683	2.565891
#3	2.587050	25.31793	2.562879	1.280881	26.37743	2.529806	2.567138

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.45204**	**5.198656**	**5.170858**	**5.172901**	**5.105928**	**5.237056**	**5.274512**
Stddev	.20444	.032040	.005966	.011643	.015695	.048225	.013994
%RSD	.8032174	.6163083	.1153703	.2250713	.3073801	.9208341	.2653157
#1	25.24132	5.235489	5.177225	5.186337	5.091726	5.186743	5.263200
#2	25.64955	5.177232	5.169954	5.166596	5.122778	5.282878	5.290161
#3	25.46524	5.183248	5.165397	5.165771	5.103280	5.241547	5.270174

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV05 Acquired: 10/28/2025 16:35:45 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.133327	5.033446	5.079931
Stddev	.009617	.015422	.081120
%RSD	.1873414	.3063887	1.596870
#1	5.144413	5.020571	5.024016
#2	5.128352	5.050537	5.042807
#3	5.127217	5.029229	5.172969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5490.059	88607.80	6823.074	4178.207	6349.159
Stddev	5.514	253.52	49.656	16.276	7.951
%RSD	.1004278	.2861155	.7277632	.3895545	.1252325
#1	5495.041	88611.28	6768.612	4183.557	6357.267
#2	5484.135	88352.57	6834.774	4159.930	6341.375
#3	5491.000	88859.57	6865.834	4191.136	6348.835

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB05 Acquired: 10/28/2025 16:39:48 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003669**	**.0013049**	**-.000719**	**.0024590**	**.0021419**	**.0078310**
Stddev	.0014696	.0030953	.000347	.0021855	.0012209	.0068494
%RSD	400.5773	237.2151	48.21610	88.87710	57.00034	87.46560
#1	.0010348	.0048514	-.000655	.0007464	.0034331	.0156136
#2	.0013838	-.000084	-.000409	.0017102	.0019865	.0027200
#3	-.001318	-.000853	-.001093	.0049206	.0010061	.0051594

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008253**	**.0000019**	**.0000250**	**.0027180**	**.0000469**	**-.000022**
Stddev	.0012230	.0000680	.0000426	.0150786	.0002181	.000070
%RSD	148.1934	3658.316	170.4022	554.7730	465.0349	313.0096
#1	.0010882	.0000112	.0000740	-.013763	.0002835	-.000102
#2	.0018954	-.000070	-.000003	.015822	.0000036	.000024
#3	-.000508	.000065	.000003	.006094	-.000146	.000012

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001031**	**-.000581**	**-.000496**	**-.010026**	**-.000475**	**-.000389**
Stddev	.0001466	.001881	.000571	.007937	.000181	.000311
%RSD	142.1926	323.5022	115.2000	79.15986	38.19825	79.94858
#1	-.000062	.001527	.000123	-.019168	-.000541	-.000424
#2	.000219	-.001186	-.001003	-.004892	-.000614	-.000062
#3	.000152	-.002086	-.000607	-.006019	-.000270	-.000681

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7017270**	**-.001759**	**-.000141**	**.4169105**	**.0033156**	**.0005106**
Stddev	.0330429	.003188	.000111	.0404631	.0013500	.0001601
%RSD	4.708802	181.1827	78.80997	9.705474	40.71526	31.34994
#1	.6662085	-.005382	-.000267	.3874024	.0045548	.0004949
#2	.7074170	.000615	-.000058	.4002924	.0035150	.0006779
#3	.7315553	-.000511	-.000097	.4630369	.0018771	.0003590

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB05 Acquired: 10/28/2025 16:39:48 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056521	.0000531	.0171808	-.001249	F .0168212	.0055205
Stddev	.0011848	.0021751	.0189465	.001155	.0005537	.0028908
%RSD	20.96234	4098.639	110.2775	92.49091	3.291756	52.36445
#1	.0052120	.0008163	.0390577	-.000022	.0165465	.0087693
#2	.0047504	-.002401	.0063830	-.001408	.0164585	.0032320
#3	.0069940	.001744	.0061016	-.002316	.0174585	.0045604

Elem	Sr4077
Units	ppm
Avg	-.000039
Stddev	.000081
%RSD	205.0804
#1	-.000078
#2	.000053
#3	-.000093

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5492.214	91768.40	7024.112	4280.817	7096.471
Stddev	239.205	516.46	34.892	32.640	305.956
%RSD	4.355345	.5627854	.4967468	.7624771	4.311388
#1	5631.654	92360.96	7013.152	4317.476	7269.302
#2	5628.979	91530.32	7063.168	4270.068	7276.900
#3	5216.008	91413.93	6996.016	4254.906	6743.210

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3417-01DLX5 Acquired: 10/28/2025 16:44:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.1514671**	**-.184564**	**-.004135**	**.4007924**	**.1330642**	**.1570298**	**-.011947**
Stddev	.0035554	.003990	.000978	.0051949	.0041997	.0081212	.000352
%RSD	2.347306	2.161932	23.65869	1.296167	3.156147	5.171748	2.950168
#1	.1484522	-.181802	-.003264	.3948414	.1372879	.1615668	-.011541
#2	.1553877	-.182751	-.003947	.4031145	.1330158	.1618688	-.012177
#3	.1505613	-.189139	-.005193	.4044213	.1288889	.1476539	-.012123

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007889**	**.0001025**	**.8174947**	**.0009377**	**.0031641**	**.0155365**	**9.483934**
Stddev	.0000247	.0000207	.0133387	.0000833	.0001562	.0001569	.052184
%RSD	3.132649	20.16364	1.631660	8.877743	4.935007	1.010043	.5502341
#1	.0007894	.0000795	.8297347	.0009518	.0033401	.0156473	9.453756
#2	.0007640	.0001194	.8194717	.0010130	.0031100	.0156052	9.544191
#3	.0008134	.0001085	.8032779	.0008483	.0030422	.0153569	9.453856

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1705454**	**.1612647**	**.0084821**	**.0022841**	**4.834286**	**.0017381**	**.0483054**
Stddev	.0017745	.0082819	.0004122	.0001713	.038090	.0055277	.0004376
%RSD	1.040493	5.135602	4.859639	7.499455	.7879105	318.0274	.9058706
#1	.1714659	.1588478	.0080146	.0023237	4.790531	.0012321	.0479312
#2	.1684998	.1704862	.0086386	.0024322	4.852292	.0075014	.0487865
#3	.1716705	.1544600	.0087931	.0020965	4.860034	-.003519	.0481985

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.90397**	**.0027683**	**.0073491**	**.1027519**	**.0065527**	**.1808797**	**.6208377**
Stddev	.05576	.0002971	.0003341	.0009160	.0014869	.0057984	.0054602
%RSD	.4684156	10.73090	4.545810	.8914400	22.69146	3.205654	.8794938
#1	11.84416	.0028476	.0077134	.1036458	.0082344	.1742883	.6206236
#2	11.95452	.0030177	.0070571	.1018153	.0060115	.1851935	.6154877
#3	11.91324	.0024396	.0072767	.1027944	.0054122	.1831572	.6264019

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3417-01DLX5 Acquired: 10/28/2025 16:44:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	1.740639	.0009853	-.006067
Stddev	.005561	.0012873	.000105
%RSD	.3194773	130.6498	1.732010
#1	1.736899	.0007488	-.006078
#2	1.737988	.0023743	-.006166
#3	1.747029	-.000167	-.005957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5015.369	82911.86	7851.572	3720.638	7224.605
Stddev	1.978	546.34	32.018	21.960	4.697
%RSD	.0394315	.6589354	.4077917	.5902331	.0650205
#1	5013.244	82938.40	7834.691	3722.112	7227.686
#2	5015.707	82352.74	7831.527	3697.977	7226.929
#3	5017.156	83444.44	7888.498	3741.824	7219.198

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05MSDLX5 Acquired: 10/28/2025 16:48:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.2033226**	**.3213025**	**.2030834**	**.6536246**	**.1829545**	**1.047240**
Stddev	.0022016	.0072437	.0010167	.0022842	.0003810	.004527
%RSD	1.082807	2.254487	.5006195	.3494636	.2082545	.4322953
#1	.2052134	.3296344	.2019257	.6562596	.1833624	1.042427
#2	.2009056	.3164991	.2034930	.6522066	.1826077	1.051413
#3	.2038488	.3177740	.2038313	.6524077	.1828934	1.047881

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0449357**	**.0398275**	**.0441469**	**.5847149**	**.0940896**	**.0439661**
Stddev	.0021995	.0007514	.0002702	.0045725	.0002408	.0001678
%RSD	4.894848	1.886542	.6119690	.7820034	.2558868	.3816752
#1	.0474638	.0406918	.0439934	.5899413	.0942787	.0438299
#2	.0434604	.0393300	.0439885	.5814525	.0941716	.0439150
#3	.0438830	.0394607	.0444589	.5827509	.0938186	.0441536

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0651839**	**.8870867**	**.0446415**	**.6833179**	**.1152489**	**.0178378**
Stddev	.0005338	.0148271	.0005870	.0397604	.0006135	.0004738
%RSD	.8189969	1.671442	1.314868	5.818728	.5322907	2.656224
#1	.0645808	.8699853	.0451723	.6753254	.1148057	.0173904
#2	.0653753	.8949295	.0447412	.6481609	.1149919	.0183342
#3	.0655957	.8963452	.0440111	.7264675	.1159491	.0177887

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2377.274**	**.0617324**	**.1547263**	**7.383189**	**3.334464**	**.0959494**
Stddev	33.634	.0013448	.0009152	.357770	.063710	.0000875
%RSD	1.414814	2.178410	.5914752	4.845740	1.910644	.0912388
#1	2376.066	.0616199	.1555450	7.005341	3.408030	.0959143
#2	2344.260	.0631299	.1537383	7.427468	3.297809	.0960490
#3	2411.496	.0604474	.1548955	7.716759	3.297554	.0958848

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05MSDLX5 Acquired: 10/28/2025 16:48:53 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1555124	.0548415	5.152329	1.527667	F 548.6883	.0766614
Stddev	.0013789	.0013327	.159297	.002586	1.9528	.0028985
%RSD	.8866787	2.430066	3.091749	.1692662	.3558955	3.780953
#1	.1539688	.0534846	4.983365	1.527262	550.0369	.0755272
#2	.1559457	.0548913	5.173851	1.525307	546.4490	.0745015
#3	.1566225	.0561485	5.299771	1.530431	549.5790	.0799555

Elem	Sr4077
Units	ppm
Avg	.0426679
Stddev	.0002658
%RSD	.6230418
#1	.0429278
#2	.0423965
#3	.0426792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4771.049	74786.06	6860.880	3589.821	5186.151
Stddev	13.101	35.55	130.375	16.953	15.303
%RSD	.2745920	.0475386	1.900266	.4722468	.2950699
#1	4783.142	74781.57	6710.370	3570.846	5201.462
#2	4772.873	74752.96	6933.367	3603.476	5186.134
#3	4757.131	74823.64	6938.904	3595.140	5170.857

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05MSDDLX5 Acquired: 10/28/2025 16:53:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.2064616**	**.3453919**	**.2086076**	**.6493210**	**.1793901**	**1.122625**
Stddev	.0031842	.0175879	.0014034	.0045414	.0019923	.009653
%RSD	1.542261	5.092154	.6727221	.6994056	1.110577	.8598350
#1	.2035759	.3258254	.2074327	.6484855	.1782255	1.111649
#2	.2098777	.3504636	.2101615	.6452554	.1782544	1.129789
#3	.2059313	.3598867	.2082287	.6542222	.1816906	1.126438

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0412942**	**.0395336**	**.0453861**	**.5897239**	**.0957779**	**.0454461**
Stddev	.0004336	.0002950	.0002525	.0047994	.0005287	.0003091
%RSD	1.050099	.7463196	.5563885	.8138458	.5520162	.6800308
#1	.0417056	.0391933	.0451173	.5880912	.0952209	.0452808
#2	.0413356	.0397186	.0456184	.5859538	.0958400	.0458027
#3	.0408413	.0396888	.0454225	.5951266	.0962729	.0452549

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0658968**	**.9074112**	**.0433593**	**.6918417**	**.1178813**	**.0178234**
Stddev	.0005550	.0182053	.0008355	.0128971	.0004361	.0003025
%RSD	.8422364	2.006290	1.926857	1.864174	.3699202	1.697195
#1	.0661527	.9048890	.0426141	.6772967	.1183837	.0175001
#2	.0652600	.8905986	.0442624	.7018832	.1176006	.0178705
#3	.0662778	.9267461	.0432012	.6963454	.1176597	.0180996

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2277.311**	**.0654634**	**.1628736**	**8.594619**	**3.290807**	**.0975419**
Stddev	31.102	.0027209	.0021528	.325012	.021728	.0002710
%RSD	1.365727	4.156417	1.321760	3.781572	.6602556	.2778623
#1	2246.324	.0646508	.1626827	8.326850	3.268454	.0972300
#2	2277.082	.0632413	.1608226	8.500782	3.311850	.0976759
#3	2308.526	.0684980	.1651155	8.956226	3.292119	.0977199

Sample Name: Q3420-05MSDDLX5 Acquired: 10/28/2025 16:53:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1591264	.0575116	5.644661	1.567511	F 557.7196	.0902324
Stddev	.0002063	.0011133	.162685	.008316	3.5114	.0018148
%RSD	.1296694	1.935821	2.882098	.5305161	.6296041	2.011204
#1	.1592312	.0564130	5.499071	1.557910	553.6731	.0882715
#2	.1592593	.0586391	5.614650	1.572434	559.5207	.0918528
#3	.1588887	.0574826	5.820262	1.572190	559.9651	.0905728

Elem	Sr4077
Units	ppm
Avg	.0422137
Stddev	.0004624
%RSD	1.095474
#1	.0416860
#2	.0425482
#3	.0424069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4716.531	73570.68	6894.315	3582.002	5112.590
Stddev	13.201	714.77	49.463	18.197	15.875
%RSD	.2798795	.9715353	.7174402	.5080250	.3105173
#1	4719.364	74042.67	6935.390	3578.649	5119.870
#2	4702.144	73921.04	6839.409	3601.643	5094.380
#3	4728.085	72748.34	6908.146	3565.714	5123.520

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05ADLX5 Acquired: 10/28/2025 16:57:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.2015596**	**.3352860**	**.2029895**	**.6399293**	**.1766083**	**1.028518**
Stddev	.0012132	.0049835	.0011588	.0026699	.0006724	.011900
%RSD	.6019081	1.486350	.5708654	.4172147	.3807029	1.157027
#1	.2028345	.3369900	.2029915	.6417823	.1758365	1.037801
#2	.2004193	.3391940	.2041473	.6368690	.1770672	1.015102
#3	.2014250	.3296740	.2018297	.6411366	.1769212	1.032649

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0404457**	**.0404522**	**.0444659**	**.5839843**	**.0939678**	**.0445752**
Stddev	.0014523	.0004895	.0000891	.0051535	.0005787	.0003592
%RSD	3.590780	1.210119	.2004162	.8824640	.6158294	.8057671
#1	.0411218	.0410169	.0445315	.5809502	.0933004	.0448471
#2	.0414368	.0401899	.0443645	.5899346	.0943304	.0447105
#3	.0387786	.0401497	.0445019	.5810681	.0942726	.0441681

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0649855**	**.9149867**	**.0450041**	**.6882799**	**.1160490**	**.0172964**
Stddev	.0004316	.0041889	.0009409	.0147762	.0004079	.0003097
%RSD	.6642150	.4578065	2.090677	2.146833	.3514678	1.790383
#1	.0654718	.9137684	.0458172	.6911644	.1163921	.0172575
#2	.0646478	.9196497	.0452217	.6722741	.1155980	.0176237
#3	.0648368	.9115420	.0439735	.7014011	.1161569	.0170080

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2239.738**	**.0583006**	**.1557513**	**8.909079**	**3.396493**	**.0954014**
Stddev	9.933	.0053614	.0004137	.308515	.041579	.0000406
%RSD	.4435048	9.196079	.2655819	3.462926	1.224189	.0425917
#1	2250.206	.0574083	.1555641	8.553356	3.444504	.0954007
#2	2238.565	.0640522	.1554643	9.070284	3.372412	.0954423
#3	2230.444	.0534414	.1562254	9.103596	3.372561	.0953611

Sample Name: Q3420-05ADLX5 Acquired: 10/28/2025 16:57:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1553630	.0553802	5.515673	1.580897	F 562.4653	.0959408
Stddev	.0011133	.0012700	.147470	.006671	3.0532	.0014711
%RSD	.7165799	2.293270	2.673657	.4219438	.5428274	1.533289
#1	.1552673	.0552792	5.349881	1.588342	565.5944	.0943250
#2	.1565210	.0566977	5.564919	1.578885	562.3073	.0962950
#3	.1543006	.0541637	5.632218	1.575464	559.4941	.0972024

Elem	Sr4077
Units	ppm
Avg	.0423880
Stddev	.0005081
%RSD	1.198696
#1	.0428938
#2	.0423926
#3	.0418776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4722.040	72277.74	6643.403	3565.740	5090.374
Stddev	14.933	337.88	65.835	23.062	19.132
%RSD	.3162453	.4674785	.9909889	.6467535	.3758520
#1	4710.531	72424.55	6572.628	3565.565	5070.058
#2	4716.675	71891.28	6654.761	3542.767	5093.017
#3	4738.915	72517.37	6702.821	3588.889	5108.048

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05LDLX5 Acquired: 10/28/2025 17:01:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0035726**	**-.004880**	**.0023140**	**.0365507**	**.0023693**	**.2184320**
Stddev	.0010675	.002989	.0009568	.0035632	.0012402	.0072656
%RSD	29.88042	61.26153	41.34660	9.748765	52.34499	3.326247
#1	.0028482	-.008097	.0025392	.0366766	.0018880	.2179706
#2	.0030711	-.004355	.0012647	.0400493	.0037779	.2259173
#3	.0047985	-.002188	.0031380	.0329262	.0014418	.2114082

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000922**	**-.000039**	**.0000575**	**.0917090**	**.0020285**	**.0001114**
Stddev	.000543	.000020	.0000859	.0057019	.0001856	.0000586
%RSD	58.84694	50.65739	149.4590	6.217376	9.146955	52.62254
#1	-.000550	-.000038	.0001385	.0947686	.0020429	.0000512
#2	-.000672	-.000020	.0000666	.0952280	.0022065	.0001683
#3	-.001545	-.000060	-.000033	.0851304	.0018362	.0001147

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016715**	**.0512299**	**.0020903**	**.0631761**	**.0010565**	**-.001151**
Stddev	.0001171	.0045199	.0008834	.0113277	.0000975	.000702
%RSD	7.007045	8.822707	42.26371	17.93040	9.233489	60.94267
#1	.0016860	.0506826	.0013691	.0671982	.0011691	-.001666
#2	.0015478	.0470086	.0030757	.0719440	.0010023	-.000352
#3	.0017807	.0559985	.0018261	.0503862	.0009980	-.001436

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**493.7764**	**-.001481**	**.0221112**	**2.033985**	**.7405382**	**.0030673**
Stddev	5.0549	.003620	.0002083	.076493	.0045422	.0001718
%RSD	1.023724	244.4038	.9419387	3.760766	.6133623	5.600237
#1	493.1700	-.002036	.0218725	1.963391	.7452625	.0032447
#2	489.0521	.002384	.0222557	2.023308	.7401489	.0030554
#3	499.1072	-.004791	.0222055	2.115256	.7362032	.0029018

Sample Name: Q3420-05LDLX5 Acquired: 10/28/2025 17:01:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0039197	.0053856	1.157565	.0118904	F 112.6678	.0258100
Stddev	.0002751	.0010950	.008881	.0016982	.6677	.0005002
%RSD	7.018131	20.33168	.7671917	14.28188	.5926353	1.938157
#1	.0041734	.0051138	1.158789	.0106658	112.8978	.0263335
#2	.0039584	.0044520	1.165771	.0138290	111.9154	.0253369
#3	.0036273	.0065908	1.148136	.0111764	113.1900	.0257596

Elem	Sr4077
Units	ppm
Avg	.0008840
Stddev	.0000621
%RSD	7.022164
#1	.0009121
#2	.0008128
#3	.0009270

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5247.224	82797.95	6940.449	4024.350	5999.367
Stddev	12.225	240.15	22.128	22.643	14.114
%RSD	.2329753	.2900386	.3188252	.5626586	.2352656
#1	5253.111	83070.14	6918.000	4035.665	6009.364
#2	5233.170	82707.68	6941.106	3998.279	5983.221
#3	5255.392	82616.01	6962.241	4039.106	6005.516

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DL2X10 Acquired: 10/28/2025 17:06:12 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0102624**	**-.006693**	**.0008540**	**.0980323**	**.0012793**	**.5165051**
Stddev	.0025996	.001607	.0009606	.0037151	.0021009	.0047433
%RSD	25.33156	24.01391	112.4775	3.789682	164.2205	.9183430
#1	.0078504	-.005861	.0018443	.0971685	.0006725	.5152710
#2	.0099208	-.008546	.0007916	.0948251	.0036168	.5125009
#3	.0130159	-.005672	-.000074	.1021032	-.000451	.5217435

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030005**	**.0000235**	**.0000169**	**.2260631**	**.0050612**	**.0000592**
Stddev	.0012540	.0000339	.0000347	.0051655	.0003589	.0000411
%RSD	41.79190	144.5571	204.5112	2.284964	7.091745	69.34258
#1	.0019121	.0000582	-.000023	.2262571	.0049795	.0000540
#2	.0043717	.0000218	.000040	.2208034	.0047502	.0001026
#3	.0027178	-.000010	.000034	.2311288	.0054540	.0000210

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019424**	**.1041874**	**.0025906**	**.1339760**	**.0033567**	**-.001123**
Stddev	.0001170	.0050952	.0003025	.0226635	.0002909	.000264
%RSD	6.022949	4.890443	11.67570	16.91608	8.664772	23.54728
#1	.0018237	.1074982	.0026315	.1139570	.0033278	-.001051
#2	.0019460	.1067439	.0028706	.1293888	.0030813	-.001416
#3	.0020576	.0983201	.0022698	.1585821	.0036609	-.000902

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1246.902**	**-.000905**	**.0570632**	**3.188275**	**1.801707**	**.0069954**
Stddev	10.466	.002004	.0003834	.102488	.005256	.0004677
%RSD	.8393823	221.5738	.6717942	3.214532	.2917347	6.685784
#1	1258.299	-.002550	.0568184	3.091175	1.797700	.0072029
#2	1244.684	.001328	.0575049	3.178238	1.799762	.0073235
#3	1237.722	-.001491	.0568661	3.295412	1.807658	.0064599

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DL2X10 Acquired: 10/28/2025 17:06:12 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0248742	.0128379	2.781422	.0302912	F 302.6625	.0268726
Stddev	.0008720	.0011987	.048485	.0023628	.4825	.0015805
%RSD	3.505678	9.337579	1.743186	7.800313	.1594200	5.881409
#1	.0257748	.0130566	2.737200	.0277030	302.1650	.0260362
#2	.0248139	.0139122	2.773797	.0308380	302.6942	.0286955
#3	.0240339	.0115448	2.833267	.0323328	303.1284	.0258861

Elem	Sr4077
Units	ppm
Avg	.0020059
Stddev	.0001981
%RSD	9.877231
#1	.0017924
#2	.0020414
#3	.0021839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4875.855	76074.87	6774.759	3689.688	5388.060
Stddev	18.175	170.87	31.757	16.739	14.427
%RSD	.3727455	.2246044	.4687541	.4536720	.2677608
#1	4855.001	76226.06	6811.220	3708.063	5371.461
#2	4884.251	75889.50	6759.909	3675.308	5395.132
#3	4888.315	76109.06	6753.147	3685.694	5397.587

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DUPDL2X10 Acquired: 10/28/2025 17:10:37 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0103421**	**-.005284**	**.0007282**	**.0909014**	**.0010686**	**.4839035**
Stddev	.0014798	.002315	.0008552	.0043049	.0014923	.0059629
%RSD	14.30894	43.80918	117.4378	4.735794	139.6539	1.232244
#1	.0088108	-.007059	.0015095	.0868082	.0027711	.4872970
#2	.0104509	-.006128	-.000185	.0905052	.0004476	.4873950
#3	.0117645	-.002666	.000861	.0953906	-.000013	.4770183

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024048**	**-.000008**	**.0000418**	**.2275486**	**.0049409**	**.0003495**
Stddev	.0019028	.000077	.0000427	.0032243	.0003694	.0001556
%RSD	79.12317	983.2356	102.1409	1.416970	7.475481	44.52167
#1	.0043276	.000079	-.000007	.2311036	.0050526	.0002046
#2	.0023642	-.000036	.000072	.2267289	.0045286	.0003299
#3	.0005227	-.000067	.000060	.2248133	.0052415	.0005140

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019553**	**.1068670**	**.0024977**	**.1436228**	**.0032435**	**-.000843**
Stddev	.0003058	.0082930	.0002007	.0109990	.0003880	.000285
%RSD	15.64165	7.760104	8.035978	7.658246	11.96076	33.80561
#1	.0019217	.1116414	.0026602	.1309258	.0028523	-.000766
#2	.0022766	.1116686	.0025595	.1497111	.0032502	-.001158
#3	.0016677	.0972911	.0022733	.1502315	.0036281	-.000604

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1189.769**	**-.000572**	**.0538142**	**3.134347**	**1.730292**	**.0068124**
Stddev	14.723	.002400	.0002155	.095354	.014846	.0001856
%RSD	1.237467	419.4671	.4005278	3.042243	.8580184	2.723969
#1	1205.859	-.002366	.0535660	3.031971	1.732567	.0066225
#2	1176.969	-.001504	.0539218	3.150435	1.743869	.0068214
#3	1186.480	.002154	.0539548	3.220634	1.714439	.0069933

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05DUPDL2X10 Acquired: 10/28/2025 17:10:37 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0238146**	**.0115764**	**2.715879**	**.0280996**	F **281.9878**	**.0258509**
Stddev	.0005275	.0008343	.043340	.0025958	2.8216	.0012095
%RSD	2.214976	7.206778	1.595801	9.237753	1.000617	4.678829
#1	.0241042	.0106287	2.691848	.0272327	278.7597	.0244545
#2	.0241338	.0119007	2.689877	.0260483	283.9840	.0265284
#3	.0232057	.0121999	2.765910	.0310179	283.2197	.0265699

Elem	Sr4077
Units	ppm
Avg	**.0018965**
Stddev	.0000328
%RSD	1.730197
#1	.0018745
#2	.0019342
#3	.0018808

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5040.270**	**78052.49**	**6892.237**	**3762.061**	**5596.047**
Stddev	44.202	387.78	20.971	14.957	48.233
%RSD	.8769769	.4968137	.3042766	.3975861	.8619109
#1	4995.269	78233.34	6889.704	3767.823	5552.179
#2	5041.916	78316.80	6872.647	3773.281	5588.263
#3	5083.627	77607.32	6914.360	3745.079	5647.698

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05LDL2X50 Acquired: 10/28/2025 17:15:02 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0041020**	**-.004503**	**.0003343**	**.0198960**	**.0027560**	**.1013186**
Stddev	.0022013	.002415	.0006981	.0021621	.0006993	.0089662
%RSD	53.66325	53.63372	208.8392	10.86718	25.37203	8.849458
#1	.0022126	-.005019	-.000357	.0191228	.0028229	.0917461
#2	.0035743	-.006619	.001039	.0223385	.0034194	.1026891
#3	.0065192	-.001872	.000322	.0182268	.0020257	.1095206

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051658**	**.0000458**	**-.000066**	**.0504558**	**.0010553**	**-.000020**
Stddev	.0015976	.0000125	.000022	.0020795	.0001831	.000047
%RSD	30.92609	27.34588	32.75797	4.121443	17.35088	236.7407
#1	.0061626	.0000413	-.000050	.0493162	.0009175	-.000024
#2	.0033232	.0000600	-.000091	.0491951	.0012631	.000029
#3	.0060118	.0000362	-.000058	.0528559	.0009854	-.000064

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004327**	**.0125318**	**.0007882**	**.0352435**	**.0002311**	**-.000934**
Stddev	.0002202	.0094596	.0004225	.0125899	.0002407	.000582
%RSD	50.88672	75.48469	53.60378	35.72266	104.1330	62.27713
#1	.0003936	.0169940	.0010942	.0424745	.0003316	-.000270
#2	.0002347	.0016664	.0003061	.0207060	.0004052	-.001353
#3	.0006699	.0189349	.0009643	.0425500	-.000044	-.001179

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**254.2445**	**-.001320**	**.0113140**	**1.041720**	**.4001665**	**.0023108**
Stddev	1.7786	.004426	.0001261	.076470	.0005689	.0000048
%RSD	.6995686	335.4067	1.114292	7.340754	.1421589	.2064563
#1	254.7933	.002211	.0111847	.960057	.4004590	.0023081
#2	252.2562	-.006286	.0113207	1.111638	.3995109	.0023080
#3	255.6841	.000116	.0114366	1.053466	.4005297	.0023163

Sample Name: Q3420-05LDL2X50 Acquired: 10/28/2025 17:15:02 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0253472	.0040885	.5076702	.0052048	F 55.81960	.0141529
Stddev	.0008393	.0025301	.0019104	.0015046	.28329	.0007154
%RSD	3.311119	61.88292	.3763018	28.90757	.5075044	5.054409
#1	.0255757	.0031254	.5085322	.0047598	55.52228	.0139517
#2	.0244174	.0021814	.5054807	.0068816	56.08638	.0149473
#3	.0260486	.0069587	.5089976	.0039729	55.85014	.0135597

Elem	Sr4077
Units	ppm
Avg	.0003922
Stddev	.0000678
%RSD	17.28044
#1	.0004523
#2	.0004056
#3	.0003187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5271.191	83081.04	6683.420	3955.031	6190.185
Stddev	8.904	115.02	4.954	3.177	12.663
%RSD	.1689112	.1384482	.0741242	.0803216	.2045606
#1	5268.339	83199.33	6678.956	3958.673	6193.123
#2	5264.062	82969.59	6688.750	3952.829	6176.312
#3	5281.171	83074.20	6682.554	3953.591	6201.121

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05MSDL2X10 Acquired: 10/28/2025 17:19:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0917396**	**.1633785**	**.0990902**	**.2936428**	**.0808621**	**.5096498**
Stddev	.0003410	.0056228	.0006946	.0015472	.0003641	.0112038
%RSD	.3717268	3.441578	.7009371	.5268878	.4502754	2.198333
#1	.0917700	.1689197	.0988425	.2942268	.0812496	.5225732
#2	.0913844	.1635382	.0985534	.2948129	.0805270	.5026748
#3	.0920644	.1576775	.0998746	.2918886	.0808098	.5037014

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211522**	**.0195894**	**.0215061**	**.2950008**	**.0460178**	**.0212754**
Stddev	.0019882	.0001907	.0000861	.0179514	.0003083	.0001718
%RSD	9.399618	.9736396	.4005911	6.085188	.6700745	.8076797
#1	.0219488	.0198053	.0215677	.2762899	.0456783	.0214471
#2	.0188892	.0194438	.0215430	.2966311	.0460948	.0212757
#3	.0226186	.0195190	.0214076	.3120814	.0462804	.0211034

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0319327**	**.4158138**	**.0219176**	**.3394249**	**.0554094**	**.0070842**
Stddev	.0001538	.0045607	.0010599	.0052770	.0002035	.0007427
%RSD	.4815767	1.096824	4.835687	1.554678	.3672398	10.48328
#1	.0319509	.4167044	.0211720	.3413879	.0552767	.0066059
#2	.0317706	.4198636	.0231308	.3334478	.0556436	.0067071
#3	.0320765	.4108735	.0214498	.3434391	.0553077	.0079398

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1173.622**	**.0303464**	**.0726351**	**3.748708**	**1.692307**	**.0476111**
Stddev	18.981	.0045933	.0005393	.168579	.017192	.0004584
%RSD	1.617339	15.13623	.7424959	4.496999	1.015898	.9628594
#1	1162.915	.0253615	.0721956	3.554886	1.707546	.0479160
#2	1195.538	.0312698	.0724727	3.830002	1.673669	.0478333
#3	1162.414	.0344078	.0732369	3.861236	1.695704	.0470839

Sample Name: Q3420-05MSDL2X10 Acquired: 10/28/2025 17:19:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0967212	.0281898	2.318786	.7148199	F 268.9186	.0402361
Stddev	.0009816	.0003690	.033117	.0049437	4.0891	.0018458
%RSD	1.014845	1.309137	1.428214	.6916033	1.520559	4.587339
#1	.0974887	.0278965	2.280595	.7201241	272.9307	.0385791
#2	.0970597	.0280688	2.336200	.7139951	269.0685	.0422255
#3	.0956151	.0286042	2.339564	.7103405	264.7567	.0399036

Elem	Sr4077
Units	ppm
Avg	.0209210
Stddev	.0003132
%RSD	1.496869
#1	.0206806
#2	.0212751
#3	.0208072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5013.323	77080.71	6714.139	3802.603	5549.863
Stddev	22.767	808.89	28.883	34.106	27.659
%RSD	.4541217	1.049412	.4301867	.8969177	.4983738
#1	5017.780	77771.30	6711.734	3841.102	5552.533
#2	4988.658	76190.78	6686.533	3776.172	5520.966
#3	5033.532	77280.05	6744.149	3790.535	5576.091

Sample Name: Q3420-05MSDDL2X10 Acquired: 10/28/2025 17:23:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0922538**	**.1665647**	**.0994033**	**.2914867**	**.0819578**	**.5409774**
Stddev	.0018639	.0036012	.0008380	.0013510	.0022145	.0160238
%RSD	2.020428	2.162028	.8430646	.4634878	2.701955	2.962002
#1	.0910471	.1626633	.0989324	.2899269	.0801088	.5288261
#2	.0913138	.1672692	.1003709	.2922492	.0813528	.5349690
#3	.0944006	.1697616	.0989066	.2922842	.0844119	.5591369

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0252845**	**.0203925**	**.0214035**	**.3092064**	**.0461639**	**.0211924**
Stddev	.0004817	.0004107	.0000413	.0060070	.0003393	.0001290
%RSD	1.905231	2.014131	.1929628	1.942730	.7349523	.6085206
#1	.0251735	.0202071	.0213678	.3125435	.0465365	.0212590
#2	.0248680	.0201072	.0213941	.3022717	.0460824	.0212746
#3	.0258120	.0208633	.0214487	.3128040	.0458727	.0210438

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0317573**	**.4070430**	**.0228253**	**.3497602**	**.0551983**	**.0074705**
Stddev	.0005491	.0037005	.0008769	.0173446	.0001489	.0005759
%RSD	1.729032	.9091231	3.841605	4.958985	.2697521	7.709605
#1	.0314817	.4079115	.0224161	.3517653	.0553389	.0068854
#2	.0323896	.4102320	.0222278	.3315002	.0552137	.0080369
#3	.0314006	.4029855	.0238319	.3660151	.0550423	.0074893

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1168.288**	**.0278040**	**.0727419**	**3.703636**	**1.757670**	**.0475263**
Stddev	17.246	.0061867	.0000897	.157002	.042397	.0001530
%RSD	1.476162	22.25113	.1233746	4.239142	2.412136	.3218766
#1	1184.287	.0286800	.0728416	3.570519	1.740291	.0476072
#2	1170.556	.0212260	.0726676	3.663613	1.726724	.0476219
#3	1150.020	.0335060	.0727165	3.876776	1.805996	.0473499

Sample Name: Q3420-05MSDDL2X10 Acquired: 10/28/2025 17:23:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0969265	.0286303	2.255832	.7259030	F 268.2367	.0502060
Stddev	.0008300	.0014646	.035156	.0010729	1.1895	.0032145
%RSD	.8562844	5.115625	1.558457	.1477991	.4434666	6.402618
#1	.0961632	.0279683	2.215540	.7249546	267.0720	.0485835
#2	.0968064	.0276136	2.280262	.7270675	269.4496	.0481261
#3	.0978100	.0303091	2.271695	.7256868	268.1884	.0539084

Elem	Sr4077
Units	ppm
Avg	.0212563
Stddev	.0005415
%RSD	2.547312
#1	.0210276
#2	.0208667
#3	.0218746

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4952.632	76288.48	6350.516	3770.974	5491.540
Stddev	8.042	167.74	132.334	23.226	8.375
%RSD	.1623728	.2198757	2.083838	.6159150	.1525012
#1	4958.204	76179.19	6400.044	3754.014	5500.240
#2	4956.279	76204.63	6450.942	3761.462	5490.847
#3	4943.413	76481.61	6200.561	3797.446	5483.534

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV06 Acquired: 10/28/2025 17:27:59 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.963511**	**4.774304**	**4.961456**	**4.967397**	**4.942761**	**9.682756**	**10.02178**
Stddev	.002492	.024810	.003857	.003940	.006034	.043177	.03495
%RSD	.0502079	.5196523	.0777356	.0793153	.1220688	.4459133	.3487859
#1	4.961871	4.755915	4.958587	4.963901	4.944789	9.730631	9.98444
#2	4.962284	4.802522	4.959941	4.966624	4.935975	9.670871	10.05372
#3	4.966379	4.764474	4.965840	4.971666	4.947519	9.646767	10.02718

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2641313**	**2.516863**	**25.03758**	**1.010609**	**2.521594**	**1.263663**	**4.882524**
Stddev	.0021202	.002251	.00433	.005018	.002521	.002519	.030805
%RSD	.8027061	.0894454	.0172878	.4965588	.0999706	.1993769	.6309282
#1	.2624580	2.514265	25.04169	1.005081	2.518695	1.262333	4.856229
#2	.2665156	2.518224	25.03306	1.011871	2.522819	1.262087	4.874926
#3	.2634202	2.518102	25.03800	1.014876	2.523268	1.266569	4.916417

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.543082**	**24.99538**	**2.509728**	**1.258635**	**25.26647**	**2.476321**	**2.520090**
Stddev	.008341	.05212	.003173	.003728	.07814	.008779	.007061
%RSD	.3280070	.2085308	.1264476	.2961632	.3092648	.3545058	.2801976
#1	2.533503	25.04701	2.506089	1.255815	25.21303	2.466343	2.512207
#2	2.548744	24.94278	2.511174	1.262861	25.23022	2.479762	2.525835
#3	2.546999	24.99634	2.511920	1.257228	25.35615	2.482857	2.522228

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.50434**	**5.225356**	**5.042103**	**5.096312**	**4.983647**	**4.921948**	**5.304164**
Stddev	.06610	.040824	.001394	.010371	.007545	.037174	.005336
%RSD	.2697665	.7812734	.0276515	.2034974	.1513892	.7552661	.1005934
#1	24.43002	5.212204	5.040494	5.086530	4.977958	4.930385	5.299973
#2	24.52643	5.271135	5.042942	5.107186	4.992205	4.881281	5.302348
#3	24.55657	5.192728	5.042875	5.095219	4.980778	4.954178	5.310171

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV06 Acquired: 10/28/2025 17:27:59 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.086707**	**4.925474**	**4.943085**
Stddev	.009859	.008091	.026080
%RSD	.1938267	.1642695	.5276040
#1	5.084269	4.917565	4.939382
#2	5.097557	4.933736	4.970819
#3	5.078295	4.925120	4.919055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5414.402**	**86331.67**	**6541.696**	**4122.531**	**6240.500**
Stddev	6.836	462.81	14.064	12.048	11.759
%RSD	.1262591	.5360828	.2149881	.2922585	.1884357
#1	5417.220	86568.61	6557.482	4131.089	6247.323
#2	5406.608	86628.03	6530.502	4127.750	6226.922
#3	5419.379	85798.37	6537.104	4108.753	6247.255

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB06 Acquired: 10/28/2025 17:32:01 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001297**	**-.006665**	**.0005613**	**-.000415**	**-.001201**	**-.001497**
Stddev	.0014488	.002076	.0016039	.001978	.002510	.006490
%RSD	1116.672	31.15034	285.7478	477.1528	209.0177	433.5262
#1	.0015182	-.007512	.0017827	.000576	.000773	.000736
#2	-.001373	-.008184	-.001255	-.002692	-.000351	.003582
#3	.000244	-.004299	.001156	.000873	-.004026	-.008809

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010713**	**-.000007**	**.0000135**	**-.007364**	**.0002798**	**.0000091**
Stddev	.0017503	.000078	.0000509	.023636	.0000328	.0000988
%RSD	163.3827	1072.992	376.0693	320.9591	11.72258	1085.880
#1	-.000614	-.000030	.0000204	-.028927	.0002465	-.000048
#2	.002880	.000080	.0000606	-.011072	.0002810	-.000048
#3	.000948	-.000071	-.000040	.017906	.0003120	.000123

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000047**	**-.008929**	**-.000579**	**-.026065**	**-.000442**	**-.000577**
Stddev	.000154	.002949	.000449	.023240	.000319	.000560
%RSD	330.4998	33.02381	77.43565	89.16008	72.26549	97.10815
#1	-.000114	-.006337	-.000954	-.028483	-.000115	-.000926
#2	.000130	-.012137	-.000082	-.001711	-.000458	-.000874
#3	-.000155	-.008312	-.000701	-.048002	-.000753	.000069

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6501166**	**-.000916**	**.0008687**	**.3459273**	**.0042940**	**.0001592**
Stddev	.0315309	.003844	.0002820	.0250031	.0007409	.0003824
%RSD	4.850032	419.7009	32.46716	7.227842	17.25335	240.1617
#1	.6173223	-.003188	.0008764	.3261382	.0051319	.0004424
#2	.6528173	-.003082	.0005828	.3376161	.0040243	.0003110
#3	.6802103	.003522	.0011467	.3740275	.0037258	-.000276

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB06 Acquired: 10/28/2025 17:32:01 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008681**	**.0020010**	**.0222835**	**-.001030**	F **.0140813**	**.0044840**
Stddev	.0003489	.0016231	.0053344	.000712	.0031276	.0022243
%RSD	40.18527	81.11343	23.93871	69.12397	22.21084	49.60455
#1	.0010820	.0032868	.0234043	-.001720	.0175620	.0029434
#2	.0010569	.0025390	.0164778	-.001071	.0131746	.0034746
#3	.0004656	.0001772	.0269685	-.000298	.0115072	.0070339

Elem	Sr4077
Units	ppm
Avg	**.0000105**
Stddev	.0001091
%RSD	1034.946
#1	.0001349
#2	-.000034
#3	-.000069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5646.216**	**90960.49**	**6802.063**	**4259.921**	**7225.343**
Stddev	3.702	363.56	15.755	9.948	3.562
%RSD	.0655629	.3996897	.2316174	.2335148	.0492987
#1	5647.567	91364.27	6813.377	4269.895	7222.773
#2	5642.028	90659.12	6784.068	4259.867	7223.847
#3	5649.052	90858.10	6808.742	4250.000	7229.409

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05ADLX10 Acquired: 10/28/2025 17:36:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0968302**	**.1685237**	**.0991291**	**.2992268**	**.0837381**	**.5282398**
Stddev	.0012635	.0043638	.0006955	.0019533	.0017122	.0036940
%RSD	1.304906	2.589422	.7016250	.6527779	2.044658	.6993113
#1	.0957067	.1659062	.0996106	.2989525	.0850246	.5280879
#2	.0981981	.1661036	.0994451	.3013027	.0817947	.5320074
#3	.0965858	.1735613	.0983317	.2974252	.0843949	.5246240

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0241594**	**.0199706**	**.0216803**	**.2842767**	**.0468601**	**.0217337**
Stddev	.0013502	.0001456	.0000369	.0049276	.0004559	.0001093
%RSD	5.588874	.7289292	.1702590	1.733397	.9729351	.5031089
#1	.0232483	.0201190	.0216947	.2803886	.0472967	.0217037
#2	.0257107	.0199649	.0217079	.2826230	.0468966	.0218549
#3	.0235193	.0198280	.0216384	.2898185	.0463870	.0216425

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0330835**	**.4175628**	**.0223244**	**.3238525**	**.0560593**	**.0071784**
Stddev	.0002037	.0113244	.0006061	.0332240	.0000357	.0004398
%RSD	.6157604	2.712016	2.714830	10.25898	.0637075	6.127421
#1	.0332631	.4298644	.0228951	.3129903	.0560986	.0067907
#2	.0328621	.4075722	.0223899	.3611481	.0560288	.0076564
#3	.0331253	.4152518	.0216883	.2974193	.0560505	.0070881

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1187.356**	**.0290590**	**.0733853**	**3.285920**	**1.721550**	**.0484721**
Stddev	16.335	.0034073	.0003775	.107058	.008614	.0002528
%RSD	1.375764	11.72548	.5143776	3.258097	.5003648	.5214715
#1	1184.444	.0257174	.0737495	3.166444	1.729088	.0484576
#2	1204.952	.0325284	.0734104	3.318171	1.723400	.0487318
#3	1172.673	.0289310	.0729959	3.373146	1.712161	.0482269

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3420-05ADLX10 Acquired: 10/28/2025 17:36:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0986514	.0285587	2.271061	.7249221	F 274.7870	.0390927
Stddev	.0007823	.0003559	.039405	.0016858	.8986	.0021844
%RSD	.7929757	1.246156	1.735097	.2325479	.3270204	5.587678
#1	.0994480	.0284864	2.228519	.7256198	275.0293	.0367765
#2	.0986220	.0282445	2.278356	.7229994	273.7921	.0393860
#3	.0978843	.0289452	2.306310	.7261470	275.5396	.0411156

Elem	Sr4077
Units	ppm
Avg	.0207243
Stddev	.0002589
%RSD	1.249085
#1	.0210204
#2	.0206115
#3	.0205409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4995.476	77081.45	6665.290	3761.966	5554.149
Stddev	4.917	64.21	21.775	6.556	8.442
%RSD	.0984255	.0833065	.3266878	.1742587	.1520011
#1	4999.181	77013.28	6642.194	3766.329	5560.363
#2	4989.898	77090.27	6685.443	3754.427	5544.537
#3	4997.349	77140.79	6668.234	3765.142	5557.547

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170265BL Acquired: 10/28/2025 17:40:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000483**	**-.006065**	**.0007187**	**.0009808**	**-.000171**	**.0024008**
Stddev	.001856	.002127	.0004140	.0006060	.001491	.0124889
%RSD	384.6963	35.07006	57.60891	61.78239	873.1915	520.1964
#1	.000264	-.003621	.0009489	.0016514	.000762	.0093705
#2	.000884	-.007081	.0002407	.0008187	.000615	-.012018
#3	-.002596	-.007494	.0009665	.0004724	-.001890	.009849

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046176**	**-.000019**	**-.000018**	**-.006088**	**.0002471**	**-.000157**
Stddev	.0041349	.000037	.000030	.010997	.0003073	.000162
%RSD	89.54635	198.7674	168.9426	180.6445	124.3699	103.1316
#1	.0008371	.000014	-.000045	-.018762	.0003402	-.000228
#2	.0039824	-.000012	-.000022	.000935	.0004970	-.000272
#3	.0090334	-.000059	.000014	-.000437	-.000096	.000028

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**-.003658**	**.0003125**	**-.019352**	**-.000396**	**-.001332**
Stddev	.000587	.000951	.0001473	.020588	.000188	.000144
%RSD	7283.427	26.00110	47.12134	106.3862	47.53164	10.77581
#1	.000496	-.004736	.0002828	.004310	-.000231	-.001489
#2	-.000653	-.002940	.0001823	-.029199	-.000356	-.001298
#3	.000132	-.003297	.0004724	-.033166	-.000601	-.001208

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9101842**	**-.001336**	**.0003791**	**.3066569**	**.0014618**	**.0011718**
Stddev	.0448246	.001663	.0002603	.0150048	.0008213	.0001190
%RSD	4.924786	124.5438	68.66262	4.893016	56.17953	10.15984
#1	.9610249	-.003110	.0003511	.3050507	.0005758	.0013065
#2	.8931699	.000188	.0001339	.3224002	.0016123	.0011281
#3	.8763578	-.001084	.0006523	.2925199	.0021975	.0010807

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170265BL Acquired: 10/28/2025 17:40:41 Type: Unk
Method: 6010-200.7 NEW(v320) 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	F .0225773	.0019701	.0002020	.0003655	F .0205084	.0078885
Stddev	.0004908	.0006964	.0108135	.0014309	.0061666	.0013438
%RSD	2.173684	35.35067	5352.662	391.4971	30.06873	17.03551
#1	.0227670	.0017369	-.005495	.0012216	.0267606	.0070621
#2	.0220200	.0014202	.012673	-.001286	.0203336	.0071643
#3	.0229449	.0027532	-.006572	.001161	.0144311	.0094392

Elem	Sr4077
Units	ppm
Avg	-.000111
Stddev	.000107
%RSD	96.84612
#1	-.000012
#2	-.000225
#3	-.000096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5664.658	91298.40	6901.209	4249.597	7251.186
Stddev	65.479	139.27	444.093	9.680	88.173
%RSD	1.155915	.1525487	6.434998	.2277820	1.215978
#1	5590.502	91238.03	7245.687	4240.276	7151.032
#2	5688.966	91457.68	7057.937	4259.599	7285.413
#3	5714.507	91199.50	6400.002	4248.916	7317.115

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170265BS Acquired: 10/28/2025 17:45:00 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.7555137**	**1.641906**	**.9101546**	**1.902673**	**.7800346**	**1.818810**
Stddev	.0002379	.045702	.0018779	.005536	.0019272	.121035
%RSD	.0314884	2.783454	.2063317	.2909750	.2470617	6.654621
#1	.7553370	1.597833	.9087753	1.904834	.7822581	1.679734
#2	.7554200	1.638806	.9122933	1.896383	.7788451	1.900295
#3	.7557842	1.689078	.9093952	1.906804	.7790005	1.876403

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1861079**	**.1983281**	**.1847199**	**.9498007**	**.3925104**	**.1907043**
Stddev	.0143014	.0126861	.0002346	.0704768	.0009460	.0002368
%RSD	7.684455	6.396507	.1269900	7.420169	.2410014	.1241749
#1	.1696912	.1839898	.1848977	.8713718	.3921507	.1905334
#2	.1958654	.2080948	.1844540	1.007821	.3935834	.1906049
#3	.1927670	.2028996	.1848078	.970209	.3917970	.1909746

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3043619**	**2.857561**	**.1937152**	**1.870128**	**.4756420**	**.0742802**
Stddev	.0002583	.018320	.0130547	.133317	.0004595	.0006520
%RSD	.0848706	.6411131	6.739130	7.128772	.0965999	.8777983
#1	.3040746	2.839181	.1787228	1.724793	.4760387	.0749176
#2	.3044362	2.857682	.2025701	1.986748	.4751386	.0743085
#3	.3045750	2.875821	.1998527	1.898843	.4757487	.0736145

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.278206**	**.2776211**	**.2018878**	**9.367262**	**.2907140**	**.3982396**
Stddev	.081427	.0193009	.0003801	.057527	.0191469	.0003083
%RSD	2.483898	6.952236	.1882776	.6141320	6.586150	.0774270
#1	3.226281	.2554058	.2018727	9.309762	.2690943	.3978928
#2	3.236284	.2902722	.2022753	9.367207	.3055296	.3984829
#3	3.372052	.2871854	.2015155	9.424816	.2975179	.3983432

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170265BS Acquired: 10/28/2025 17:45:00 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.6834224**	**.1858148**	**.8271403**	**5.571559**	F **.0084760**	**.1947419**
Stddev	.0002876	.0105438	.0064140	.012931	.0004461	.0130500
%RSD	.0420830	5.674378	.7754431	.2320825	5.262918	6.701174
#1	.6837503	.1736540	.8338981	5.560142	.0081260	.1798479
#2	.6833043	.1913864	.8263860	5.568934	.0083236	.2041709
#3	.6832127	.1924039	.8211368	5.585600	.0089783	.2002069

Elem	Sr4077
Units	ppm
Avg	**.1822943**
Stddev	.0125627
%RSD	6.891441
#1	.1678943
#2	.1910116
#3	.1879769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5703.253**	**92179.21**	**7211.719**	**4343.915**	**7079.756**
Stddev	2.921	349.89	476.407	19.425	4.712
%RSD	.0512171	.3795808	6.606006	.4471867	.0665627
#1	5706.062	92355.05	7757.848	4356.446	7082.557
#2	5700.231	92406.30	6881.464	4353.761	7082.395
#3	5703.467	91776.27	6995.846	4321.538	7074.315

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-01 Acquired: 10/28/2025 17:49:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0416953**	**-.025254**	**.1294968**	**.0019370**	**-.010065**	**166.6237**	**.4576419**
Stddev	.0026730	.002145	.0023244	.0022702	.002384	.2445	.0017418
%RSD	6.410702	8.495200	1.794952	117.2015	23.68690	.1467309	.3806055
#1	.0415637	-.024161	.1268173	.0042104	-.012145	166.3572	.4594338
#2	.0390905	-.023874	.1307025	-.000330	-.010586	166.6760	.4575371
#3	.0444316	-.027725	.1309707	.001930	-.007463	166.8377	.4559549

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097106**	**.0036192**	**6.457334**	**.1853305**	**.1055545**	**.2863908**	**232.4750**
Stddev	.0000305	.0001568	.001911	.0006615	.0006744	.0006188	1.3382
%RSD	.3143089	4.332077	.0295934	.3569178	.6389157	.2160602	.5756362
#1	.0097459	.0036296	6.455129	.1851718	.1047810	.2857631	232.4796
#2	.0096932	.0034575	6.458491	.1860570	.1058635	.2864092	233.8110
#3	.0096928	.0037705	6.458384	.1847629	.1060191	.2870002	231.1346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.992902**	**40.58811**	**.2154170**	**.0045613**	**8.599322**	**.3033662**	**.4717397**
Stddev	.002837	.09711	.0003455	.0010681	.068358	.0023008	.0020257
%RSD	.1423595	.2392533	.1604060	23.41689	.7949205	.7584107	.4294182
#1	1.996163	40.54966	.2151395	.0046950	8.591116	.3012412	.4695732
#2	1.990999	40.51612	.2158041	.0055563	8.671412	.3058095	.4735866
#3	1.991544	40.69855	.2153075	.0034327	8.535437	.3030479	.4720593

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.69115**	**.1538869**	**.0043032**	**.0059430**	**3.141688**	**5.171776**	**6.043152**
Stddev	.04645	.0044354	.0002548	.0001470	.007137	.033593	.013147
%RSD	.3392646	2.882234	5.921658	2.474214	.2271609	.6495365	.2175459
#1	13.68381	.1564442	.0044919	.0057946	3.149875	5.142360	6.047060
#2	13.74083	.1564512	.0044043	.0060886	3.136779	5.208381	6.053902
#3	13.64880	.1487654	.0040133	.0059459	3.138411	5.164586	6.028495

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-01 Acquired: 10/28/2025 17:49:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.9519581	.2348520	-.130557
Stddev	.0038202	.0032684	.000979
%RSD	.4012984	1.391670	.7497347
#1	.9499602	.2323998	-.130585
#2	.9563630	.2385625	-.131521
#3	.9495511	.2335938	-.129564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6396.957	100195.4	7874.275	4856.441	6478.752
Stddev	1.925	94.2	20.730	11.956	6.048
%RSD	.0300966	.0940437	.2632579	.2461872	.0933496
#1	6398.023	100295.0	7875.561	4859.501	6485.703
#2	6398.113	100107.7	7894.332	4843.253	6475.855
#3	6394.734	100183.5	7852.933	4866.570	6474.697

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05 Acquired: 10/28/2025 17:53:04 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0290205**	**-.013584**	**.1406115**	**-.003167**	**-.007441**	**95.23130**	**.3969975**
Stddev	.0015072	.000533	.0018047	.001255	.001336	.20742	.0015521
%RSD	5.193570	3.926357	1.283492	39.62299	17.95845	.2178069	.3909505
#1	.0302080	-.014164	.1419295	-.002244	-.008159	95.05076	.3987249
#2	.0295285	-.013116	.1385545	-.002660	-.008264	95.45787	.3965470
#3	.0273249	-.013471	.1413503	-.004595	-.005899	95.18526	.3957204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072569**	**.0039300**	**29.72070**	**.1177686**	**.0646878**	**.2800716**	**156.9058**
Stddev	.0000627	.0000634	.08098	.0003250	.0001319	.0001326	.6810
%RSD	.8634110	1.613919	.2724836	.2759955	.2038662	.0473308	.4339930
#1	.0071860	.0039900	29.70601	.1176257	.0645385	.2802155	157.5663
#2	.0073049	.0038636	29.80802	.1181405	.0647883	.2800447	156.2061
#3	.0072798	.0039363	29.64807	.1175394	.0647367	.2799545	156.9450

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.646105**	**21.54285**	**.1294644**	**.0024239**	**7.260159**	**.1984229**	**.3563871**
Stddev	.001815	.05453	.0002249	.0005349	.057292	.0008576	.0007308
%RSD	.0685734	.2531383	.1736958	22.06948	.7891299	.4322183	.2050672
#1	2.644337	21.50622	.1297156	.0030330	7.324981	.1985549	.3562711
#2	2.646014	21.60553	.1292818	.0020306	7.216304	.1975070	.3571690
#3	2.647963	21.51682	.1293957	.0022081	7.239192	.1992070	.3557212

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.949477**	**.0877309**	**.0014305**	**.0021998**	**2.141337**	**5.804894**	**4.246618**
Stddev	.070320	.0044120	.0002030	.0003433	.004185	.013647	.012231
%RSD	.8845926	5.029008	14.19275	15.60570	.1954409	.2350916	.2880109
#1	8.028157	.0925377	.0016000	.0025941	2.136937	5.811247	4.257205
#2	7.892756	.0838659	.0012055	.0020379	2.141805	5.789229	4.249418
#3	7.927520	.0867890	.0014859	.0019673	2.145268	5.814206	4.233229

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05 Acquired: 10/28/2025 17:53:04 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4816596	.1153369	.1222765
Stddev	.0034644	.0013417	.0004773
%RSD	.7192528	1.163306	.3903873
#1	.4778275	.1168390	.1222793
#2	.4845695	.1142573	.1227524
#3	.4825818	.1149143	.1217977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6429.783	101922.6	7980.476	4907.496	6521.421
Stddev	9.005	375.5	70.985	19.651	3.366
%RSD	.1400583	.3683940	.8894828	.4004243	.0516206
#1	6419.597	102063.5	8028.322	4912.126	6517.653
#2	6433.065	101497.0	7898.916	4885.943	6524.131
#3	6436.687	102207.2	8014.188	4924.418	6522.480

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05DUP Acquired: 10/28/2025 17:57:07 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0303788**	**-.016667**	**.1137016**	**-.004196**	**-.006793**	**90.20524**	**.3855795**
Stddev	.0030410	.002180	.0021336	.001674	.002708	.96090	.0040499
%RSD	10.01027	13.08055	1.876475	39.90534	39.86221	1.065233	1.050343
#1	.0270285	-.018347	.1159978	-.002872	-.004581	89.28793	.3816132
#2	.0329646	-.017451	.1133269	-.003638	-.005985	91.20448	.3897081
#3	.0311433	-.014203	.1117803	-.006078	-.009813	90.12331	.3854172

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069122**	**.0041630**	**43.06645**	**.1183409**	**.0626805**	**.2816091**	**162.5908**
Stddev	.0001329	.0004253	.48035	.0011777	.0022604	.0097407	1.2949
%RSD	1.921978	10.21499	1.115365	.9951588	3.606157	3.458949	.7964441
#1	.0067617	.0046473	42.61033	.1195226	.0652904	.2928027	164.0663
#2	.0070133	.0038510	43.56783	.1171673	.0614007	.2769657	161.6431
#3	.0069616	.0039906	43.02120	.1183327	.0613505	.2750589	162.0630

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.483557**	**21.37199**	**.1280867**	**.0020113**	**6.787668**	**.1952337**	**.3667296**
Stddev	.025307	.31989	.0036790	.0002657	.096312	.0014816	.0058297
%RSD	1.018972	1.496793	2.872279	13.20877	1.418924	.7588993	1.589650
#1	2.460573	21.03494	.1323306	.0022202	6.898437	.1936428	.3711613
#2	2.510677	21.67139	.1257996	.0021014	6.723698	.1965742	.3601256
#3	2.479421	21.40965	.1261299	.0017123	6.740870	.1954840	.3689020

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.742293**	**.0931364**	**.0016358**	**.0014557**	**2.084410**	**5.384879**	**4.296471**
Stddev	.076036	.0066005	.0001405	.0014316	.015425	.035838	.130488
%RSD	.9820920	7.086932	8.591104	98.34327	.7400332	.6655388	3.037102
#1	7.822379	.1003862	.0015055	.0029373	2.070571	5.416184	4.446556
#2	7.671086	.0874752	.0017847	.0013500	2.101040	5.345788	4.209895
#3	7.733414	.0915478	.0016172	.0000799	2.081619	5.392666	4.232962

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05DUP Acquired: 10/28/2025 17:57:07 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.8850961	.1104460	.2721341
Stddev	.0245626	.0014336	.0039965
%RSD	2.775137	1.298004	1.468559
#1	.9123940	.1089821	.2680991
#2	.8647807	.1118472	.2760908
#3	.8781135	.1105087	.2722123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6392.289	101671.2	8188.874	4843.307	6515.718
Stddev	147.501	632.1	89.992	45.850	175.724
%RSD	2.307490	.6217580	1.098950	.9466618	2.696929
#1	6223.612	101067.9	8287.393	4815.201	6313.578
#2	6456.192	102328.7	8110.995	4896.216	6601.509
#3	6497.063	101616.9	8168.235	4818.505	6632.067

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05LX5 Acquired: 10/28/2025 18:01:10 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0054426**	**-.007864**	**.0290521**	**-.001701**	**-.001767**	**21.00026**	**.0874637**
Stddev	.0004020	.001442	.0002951	.000465	.001419	.09371	.0009022
%RSD	7.386491	18.33444	1.015875	27.36451	80.27806	.4462470	1.031519
#1	.0052593	-.009297	.0293833	-.002203	-.002098	21.04599	.0879030
#2	.0051649	-.007883	.0289563	-.001616	-.000213	21.06233	.0880620
#3	.0059036	-.006413	.0288168	-.001283	-.002992	20.89246	.0864259

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016923**	**.0002679**	**6.609156**	**.0263678**	**.0125085**	**.0653990**	**34.28198**
Stddev	.0000469	.0000526	.039759	.0000823	.0001088	.0001362	.13569
%RSD	2.773861	19.64037	.6015743	.3120646	.8698357	.2082371	.3958185
#1	.0017465	.0002181	6.646574	.0263551	.0126304	.0653689	34.41284
#2	.0016638	.0002625	6.613484	.0264557	.0124213	.0652804	34.14192
#3	.0016666	.0003230	6.567410	.0262927	.0124737	.0655477	34.29118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5866908**	**4.807764**	**.0250433**	**-.000662**	**1.705214**	**.0441324**	**.0793983**
Stddev	.0061231	.039930	.0001199	.000273	.000651	.0032370	.0004948
%RSD	1.043664	.8305373	.4788288	41.26435	.0381966	7.334693	.6232094
#1	.5937507	4.832328	.0250323	-.000348	1.705383	.0474032	.0789144
#2	.5834923	4.829273	.0251682	-.000796	1.704495	.0409303	.0799033
#3	.5828293	4.761690	.0249292	-.000842	1.705764	.0440637	.0793771

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.749097**	**.0152187**	**.0014065**	**.0172791**	**.4686322**	**1.224477**	**.8181159**
Stddev	.009287	.0009009	.0000517	.0001060	.0035086	.015616	.0010118
%RSD	.5309832	5.920007	3.677394	.6131837	.7486869	1.275339	.1236724
#1	1.757095	.0147022	.0014203	.0173631	.4724565	1.210875	.8190136
#2	1.751285	.0146949	.0014499	.0173140	.4655619	1.241531	.8183147
#3	1.738911	.0162591	.0013493	.0171600	.4678781	1.221027	.8170195

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05LX5 Acquired: 10/28/2025 18:01:10 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1015676	.0258159	.0271648
Stddev	.0020538	.0007476	.0004855
%RSD	2.022117	2.896029	1.787333
#1	.1032692	.0256384	.0277204
#2	.0992862	.0266363	.0269523
#3	.1021473	.0251730	.0268217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5997.867	96033.96	7404.489	4514.107	7113.643
Stddev	15.183	212.18	20.510	31.979	15.085
%RSD	.2531355	.2209376	.2769939	.7084254	.2120541
#1	5980.697	96108.12	7381.042	4528.259	7096.897
#2	6009.517	96199.11	7419.102	4536.568	7126.167
#3	6003.387	95794.66	7413.322	4477.494	7117.865

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05MS Acquired: 10/28/2025 18:05:22 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.7010845**	**1.553176**	**1.041820**	**1.595762**	**.3543753**	**111.2445**	**.5752923**
Stddev	.0023981	.024701	.002081	.003470	.0031134	.3465	.0045076
%RSD	.3420486	1.590328	.1997764	.2174373	.8785460	.3114935	.7835351
#1	.7028233	1.581696	1.039969	1.595507	.3560593	110.9159	.5727857
#2	.6983488	1.539239	1.044073	1.599352	.3562840	111.2112	.5725950
#3	.7020814	1.538594	1.041418	1.592426	.3507827	111.6065	.5804961

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1812786**	**.1947116**	**25.71111**	**.4832372**	**.2679193**	**.5469447**	**175.1132**
Stddev	.0009590	.0004212	.11938	.0012434	.0002366	.0015461	1.2100
%RSD	.5290197	.2162942	.4643257	.2573137	.0883071	.2826814	.6909908
#1	.1805947	.1949850	25.62633	.4818069	.2681923	.5482547	173.8680
#2	.1808662	.1949232	25.65937	.4838434	.2677732	.5473402	175.1868
#3	.1823748	.1942266	25.84764	.4840612	.2677924	.5452393	176.2847

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.636592**	**25.97620**	**.6320037**	**.0683950**	**9.734216**	**.4638865**	**.5125220**
Stddev	.015977	.15863	.0010704	.0000860	.059001	.0043871	.0012690
%RSD	.6059839	.6106681	.1693644	.1257451	.6061191	.9457291	.2475933
#1	2.622547	25.92610	.6321788	.0683123	9.702159	.4589323	.5133909
#2	2.633256	25.84868	.6329757	.0684839	9.698184	.4654478	.5131093
#3	2.653974	26.15383	.6308565	.0683889	9.802306	.4672794	.5110657

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.40992**	**.3205067**	**.3488277**	**.6560948**	**2.445222**	**5.241413**	**9.603775**
Stddev	.09126	.0023902	.0011775	.0011970	.016874	.028029	.016982
%RSD	.5241929	.7457561	.3375464	.1824447	.6900704	.5347609	.1768261
#1	17.32122	.3177718	.3501696	.6555635	2.430299	5.210238	9.617397
#2	17.40500	.3221957	.3479672	.6552554	2.441836	5.249467	9.584748
#3	17.50354	.3215524	.3483465	.6574655	2.463532	5.264533	9.609179

Sample Name: Q3451-05MS Acquired: 10/28/2025 18:05:22 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.3678017	.3076318	.2777069
Stddev	.0009730	.0016677	.0024998
%RSD	.2645547	.5421228	.9001423
#1	.3666782	.3057759	.2764405
#2	.3683734	.3090048	.2760939
#3	.3683536	.3081146	.2805865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6462.954	102724.5	8122.039	4893.888	6592.679
Stddev	10.686	251.4	36.074	10.592	14.121
%RSD	.1653349	.2447404	.4441462	.2164371	.2141856
#1	6470.426	102974.6	8129.626	4890.760	6605.969
#2	6450.715	102727.1	8153.717	4885.211	6577.854
#3	6467.722	102471.8	8082.776	4905.691	6594.215

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05MSD Acquired: 10/28/2025 18:09:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.6735606**	**1.590745**	**.9983724**	**1.562289**	**.3530636**	**107.5247**	**.5644518**
Stddev	.0041894	.070701	.0029327	.002248	.0020924	.3416	.0029036
%RSD	.6219772	4.444535	.2937433	.1438711	.5926387	.3176850	.5144050
#1	.6766436	1.515109	.9952953	1.559839	.3510479	107.1324	.5616240
#2	.6752474	1.655173	1.001135	1.564257	.3552250	107.6859	.5643057
#3	.6687907	1.601953	.998686	1.562769	.3529179	107.7559	.5674256

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1771566**	**.1880305**	**30.11725**	**.4568004**	**.2563771**	**.5093657**	**160.1223**
Stddev	.0012611	.0005045	.08206	.0012484	.0001941	.0027281	1.0670
%RSD	.7118664	.2683185	.2724524	.2732868	.0757116	.5355796	.6663581
#1	.1758740	.1874484	30.02304	.4575117	.2561673	.5063722	161.0042
#2	.1772008	.1883412	30.17309	.4575305	.2565502	.5100133	160.4264
#3	.1783950	.1883020	30.15562	.4553589	.2564138	.5117118	158.9362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.860979**	**23.41807**	**.5938960**	**.0666942**	**9.276963**	**.4438906**	**.4828210**
Stddev	.006311	.15183	.0014318	.0004092	.038300	.0031734	.0010519
%RSD	.2205989	.6483508	.2410787	.6135347	.4128494	.7148969	.2178624
#1	2.854861	23.28568	.5922921	.0667900	9.317078	.4438192	.4816371
#2	2.860609	23.58380	.5943506	.0670470	9.273030	.4407536	.4836478
#3	2.867468	23.38474	.5950452	.0662456	9.240782	.4470991	.4831782

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.43482**	**.3117772**	**.3361372**	**.6306262**	**2.293925**	**5.248975**	**9.616017**
Stddev	.10130	.0041520	.0009363	.0027496	.001160	.037083	.026682
%RSD	.6163652	1.331707	.2785420	.4360175	.0505780	.7064819	.2774787
#1	16.52210	.3143791	.3356541	.6274899	2.293109	5.263635	9.598080
#2	16.45861	.3139635	.3372163	.6326229	2.295253	5.276488	9.646680
#3	16.32374	.3069889	.3355411	.6317656	2.293412	5.206804	9.603291

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05MSD Acquired: 10/28/2025 18:09:19 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4640171	.2813833	.2926700
Stddev	.0028745	.0023637	.0024364
%RSD	.6194745	.8400322	.8324740
#1	.4610106	.2786967	.2905913
#2	.4667382	.2823101	.2920677
#3	.4643026	.2831432	.2953511

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6496.501	103290.6	8100.464	4993.076	6608.166
Stddev	19.459	406.5	40.930	17.319	21.453
%RSD	.2995281	.3935837	.5052805	.3468699	.3246463
#1	6517.814	102949.9	8143.032	4987.239	6630.701
#2	6479.684	103181.3	8096.964	4979.430	6587.990
#3	6492.006	103740.7	8061.397	5012.560	6605.806

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05A Acquired: 10/28/2025 18:13:16 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.7042860**	**1.733091**	**1.068749**	**1.659756**	**.6715673**	**94.13768**	**.5571143**
Stddev	.0021754	.071924	.004516	.004408	.0037362	1.41392	.0085473
%RSD	.3088856	4.150069	.4225245	.2655764	.5563399	1.501973	1.534216
#1	.7027016	1.761225	1.066046	1.656813	.6690356	93.46521	.5549848
#2	.7033900	1.786696	1.073962	1.664824	.6758584	95.76233	.5665251
#3	.7067663	1.651352	1.066239	1.657631	.6698079	93.18550	.5498331

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1865818**	**.1968218**	**29.87791**	**.4664639**	**.2623337**	**.5334737**	**154.9082**
Stddev	.0021734	.0003638	.44998	.0037952	.0005448	.0009547	.7223
%RSD	1.164835	.1848554	1.506058	.8136068	.2076842	.1789559	.4662753
#1	.1864415	.1968578	29.64157	.4705876	.2625632	.5324241	155.5800
#2	.1888219	.1971663	30.39681	.4656863	.2627263	.5337067	155.0003
#3	.1844820	.1964413	29.59533	.4631177	.2617117	.5342904	154.1442

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.756147**	**22.56549**	**.6182868**	**.0688278**	**9.172129**	**.4511056**	**.5228814**
Stddev	.035501	.32298	.0010626	.0005507	.055750	.0055455	.0030039
%RSD	1.288067	1.431302	.1718578	.8000911	.6078232	1.229312	.5744982
#1	2.737336	22.34426	.6174368	.0682793	9.234559	.4448877	.5263319
#2	2.797095	22.93613	.6194781	.0693807	9.127315	.4555396	.5214630
#3	2.734011	22.41609	.6179454	.0688235	9.154511	.4528896	.5208493

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.12745**	**.3357444**	**.3573895**	**.6958029**	**2.262302**	**6.538805**	**9.994373**
Stddev	.10286	.0034842	.0001162	.0020729	.029800	.052277	.036560
%RSD	.6378039	1.037765	.0325084	.2979090	1.317221	.7994874	.3658082
#1	16.22734	.3397549	.3573955	.6968196	2.243204	6.564979	10.02172
#2	16.13316	.3334624	.3575026	.6971710	2.296640	6.572825	10.00856
#3	16.02185	.3340157	.3572704	.6934179	2.247064	6.478611	9.95285

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3451-05A Acquired: 10/28/2025 18:13:16 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4586965	.2824357	.2889844
Stddev	.0022972	.0055303	.0054702
%RSD	.5008190	1.958066	1.892905
#1	.4570761	.2781099	.2862817
#2	.4613255	.2886667	.2952799
#3	.4576879	.2805306	.2853916

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6400.460	101968.5	7883.528	4891.705	6480.235
Stddev	11.632	599.2	107.140	4.447	10.702
%RSD	.1817429	.5876187	1.359031	.0908989	.1651551
#1	6411.867	101426.9	7926.577	4888.676	6490.766
#2	6400.899	101866.4	7761.560	4889.629	6469.369
#3	6388.614	102612.2	7962.448	4896.810	6480.570

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV07 Acquired: 10/28/2025 18:17:13 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.972109**	**4.743323**	**4.951852**	**4.967717**	**4.965495**	**9.737043**	**10.18119**
Stddev	.008377	.057838	.003201	.009229	.008403	.006323	.02594
%RSD	.1684697	1.219361	.0646415	.1857693	.1692298	.0649357	.2547927
#1	4.963502	4.810106	4.954455	4.974483	4.975101	9.731463	10.19469
#2	4.972593	4.709450	4.948278	4.971464	4.959505	9.743910	10.19760
#3	4.980234	4.710412	4.952823	4.957205	4.961879	9.735755	10.15129

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2582730**	**2.520336**	**25.18949**	**1.011008**	**2.529515**	**1.265767**	**4.988869**
Stddev	.0003920	.001683	.04079	.003089	.002275	.001023	.023784
%RSD	.1517711	.0667573	.1619470	.3055088	.0899416	.0808475	.4767408
#1	.2580292	2.522234	25.16151	1.007451	2.531219	1.264916	4.973303
#2	.2580646	2.519026	25.23629	1.013009	2.526931	1.266903	5.016247
#3	.2587252	2.519750	25.17066	1.012564	2.530393	1.265484	4.977058

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.565787**	**25.07646**	**2.525131**	**1.257719**	**25.18494**	**2.488725**	**2.515040**
Stddev	.007129	.12501	.001731	.000320	.15387	.008394	.015218
%RSD	.2778425	.4985010	.0685640	.0254796	.6109541	.3372960	.6050903
#1	2.566534	24.94149	2.526230	1.257349	25.16705	2.492560	2.518921
#2	2.572512	25.18827	2.523135	1.257894	25.34697	2.494517	2.527942
#3	2.558314	25.09962	2.526027	1.257913	25.04080	2.479098	2.498257

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.54749**	**5.116302**	**5.088402**	**5.094975**	**5.032776**	**4.896264**	**5.170478**
Stddev	.09894	.010922	.005131	.006488	.009297	.036284	.017373
%RSD	.4030531	.2134785	.1008375	.1273459	.1847229	.7410648	.3359946
#1	24.48889	5.107469	5.092124	5.101807	5.023589	4.856545	5.177805
#2	24.66173	5.112923	5.090532	5.088896	5.042178	4.927671	5.182986
#3	24.49186	5.128514	5.082549	5.094221	5.032561	4.904576	5.150642

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV07 Acquired: 10/28/2025 18:17:13 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.027787**	**4.977624**	**5.030220**
Stddev	.010338	.014076	.065797
%RSD	.2056179	.2827834	1.308036
#1	5.038734	4.974123	4.988613
#2	5.018190	4.993120	5.106077
#3	5.026437	4.965629	4.995970

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5598.253**	**89522.08**	**6869.561**	**4273.040**	**6470.173**
Stddev	4.969	117.80	10.728	28.570	3.410
%RSD	.0887584	.1315862	.1561654	.6686150	.0527013
#1	5594.124	89646.63	6874.832	4289.058	6466.353
#2	5596.866	89412.46	6876.633	4240.055	6471.257
#3	5603.767	89507.16	6857.217	4290.008	6472.909

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB07 Acquired: 10/28/2025 18:21:14 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001511**	**-.006105**	**-.000420**	**.0002053**	**.0003827**	**.0019823**	**.0019627**
Stddev	.001952	.001898	.001613	.0027136	.0007732	.0107736	.0016405
%RSD	129.1780	31.09361	384.3783	1321.550	202.0369	543.5004	83.58093
#1	-.000815	-.005979	.001440	.0025880	-.000404	-.010420	.0036626
#2	-.000003	-.004273	-.001269	-.002748	.001142	.009020	.0018367
#3	-.003716	-.008063	-.001430	.000776	.000410	.007347	.0003889

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000020**	**.0000286**	**-.007926**	**.0000984**	**-.000009**	**.0001951**	**.0214620**
Stddev	.000041	.0000507	.008311	.0001538	.000061	.0001315	.0073390
%RSD	208.5611	176.8323	104.8632	156.2816	664.4970	67.38658	34.19555
#1	.000007	-.000027	-.013347	.0001057	-.000044	.0000571	.0203003
#2	.000001	.000071	.001643	-.000059	-.000045	.0002091	.0293125
#3	-.000067	.000042	-.012073	.000248	.000062	.0003189	.0147730

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000261**	**-.016242**	**-.000325**	**-.000542**	**.2308843**	**-.002064**	**-.000035**
Stddev	.000627	.023368	.000230	.000190	.0267960	.003125	.000202
%RSD	240.3000	143.8722	70.77257	35.05865	11.60582	151.3753	581.6802
#1	-.000594	-.012537	-.000489	-.000369	.2001391	-.005118	-.000170
#2	.000463	.005052	-.000424	-.000512	.2492693	-.002202	.000198
#3	-.000652	-.041241	-.000062	-.000745	.2432445	.001127	-.000132

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0667072**	**.0010555**	**.0003163**	**.0008558**	**.0013382**	**.0097676**	**-.001171**
Stddev	.0237586	.0005454	.0002455	.0004606	.0011431	.0153241	.000774
%RSD	35.61632	51.67051	77.62091	53.81603	85.42730	156.8869	66.08658
#1	.0584739	.0016851	.0001934	.0013252	.0000482	.0273048	-.000830
#2	.0481604	.0007304	.0005990	.0008377	.0022257	.0030397	-.002058
#3	.0934873	.0007510	.0001566	.0004046	.0017405	-.001042	-.000627

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB07 Acquired: 10/28/2025 18:21:14 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0024984	-.001750	-.000117
Stddev	.0031724	.001500	.000084
%RSD	126.9790	85.69578	71.80738
#1	.0061216	-.000568	-.000053
#2	.0011542	-.001245	-.000086
#3	.0002193	-.003437	-.000212

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5597.745	88822.81	6854.553	4163.163	7208.653
Stddev	12.073	955.64	38.398	47.770	9.628
%RSD	.2156681	1.075899	.5601820	1.147434	.1335550
#1	5585.519	89728.93	6814.228	4204.084	7199.773
#2	5598.060	87824.35	6858.752	4110.671	7207.302
#3	5609.658	88915.16	6890.678	4174.735	7218.885

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-01 Acquired: 10/28/2025 18:25:33 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.2930026**	**-.027803**	**13.25561**	**.0147154**	**.0055073**	**73.45687**
Stddev	.0013001	.003682	.01512	.0026064	.0030721	.29799
%RSD	.4437073	13.24384	.1140729	17.71240	55.78335	.4056611
#1	.2921320	-.030048	13.24056	.0168204	.0031883	73.13149
#2	.2944970	-.023554	13.25548	.0155258	.0043420	73.71645
#3	.2923788	-.029808	13.27080	.0118000	.0089915	73.52268

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.947053**	**.0130540**	**.0170132**	**116.9656**	**.3433155**	**.1313317**
Stddev	.041043	.0000602	.0002031	.3690	.0015662	.0002389
%RSD	.6901453	.4610656	1.193785	.3154703	.4561898	.1818684
#1	5.944495	.0130043	.0172083	116.6227	.3415700	.1310560
#2	5.989315	.0131209	.0168030	117.3561	.3445979	.1314775
#3	5.907348	.0130369	.0170284	116.9180	.3437786	.1314615

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.943206**	**336.0136**	**2.965914**	**18.57307**	**.3680793**	**.0243689**
Stddev	.006752	2.1089	.013284	.07439	.0004940	.0008243
%RSD	.1712356	.6276326	.4478847	.4005088	.1342161	3.382656
#1	3.941096	334.8977	2.969242	18.48837	.3675257	.0250070
#2	3.937761	338.4460	2.977218	18.62780	.3684753	.0246615
#3	3.950761	334.6969	2.951283	18.60303	.3682369	.0234382

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.22926**	**.3494708**	**5.605944**	**9.940023**	**.1691329**	**.0340857**
Stddev	.17865	.0067441	.023206	.056762	.0102349	.0001348
%RSD	1.036881	1.929801	.4139611	.5710423	6.051400	.3953445
#1	17.23513	.3422980	5.580415	9.878549	.1693285	.0339643
#2	17.40490	.3556833	5.625761	9.990448	.1792685	.0340622
#3	17.04775	.3504312	5.611656	9.951072	.1588015	.0342307

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3452-01 Acquired: 10/28/2025 18:25:33 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.053301	2.487891	3.603274	F 20.66007	F 20.77320	.1371514
Stddev	.003289	.009348	.032925	.05952	.08068	.0006859
%RSD	.3122287	.3757480	.9137399	.2880735	.3883799	.5000835
#1	1.050703	2.482355	3.565270	20.68717	20.76154	.1365223
#2	1.052202	2.498684	3.621376	20.59183	20.69898	.1378826
#3	1.056999	2.482634	3.623175	20.70121	20.85907	.1370492

Elem	Sr4077
Units	ppm
Avg	1.435798
Stddev	.008919
%RSD	.6211654
#1	1.436216
#2	1.444500
#3	1.426677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6192.730	99353.05	7864.729	4700.214	6407.219
Stddev	8.961	558.06	36.085	24.983	10.065
%RSD	.1447067	.5616945	.4588182	.5315231	.1570884
#1	6202.406	99952.85	7906.301	4725.790	6418.737
#2	6191.069	98849.16	7841.506	4675.870	6402.804
#3	6184.716	99257.15	7846.381	4698.984	6400.116

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3457-01 Acquired: 10/28/2025 18:29:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0871211**	**-.023312**	**.8054582**	**-.000442**	**-.011560**	**113.9472**	**.4458060**
Stddev	.0028030	.005000	.0006599	.000487	.001279	1.3544	.0054680
%RSD	3.217337	21.44763	.0819268	110.1629	11.06493	1.188601	1.226533
#1	.0900590	-.029044	.8047826	-.000589	-.012860	115.5085	.4520318
#2	.0868282	-.019851	.8061011	.000101	-.011518	113.2454	.4417833
#3	.0844760	-.021040	.8054909	-.000839	-.010303	113.0878	.4436028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0103947**	**.0082065**	**51.78814**	**.2135535**	**.1890253**	**.3689073**	**265.7876**
Stddev	.0002139	.0004412	.55186	.0020497	.0000625	.0018571	3.5652
%RSD	2.057608	5.376526	1.065602	.9597987	.0330401	.5034001	1.341354
#1	.0106159	.0087026	52.42475	.2111876	.1890050	.3708511	261.8422
#2	.0101890	.0078580	51.49421	.2147904	.1889756	.3671512	268.7778
#3	.0103791	.0080589	51.44546	.2146825	.1890954	.3687196	266.7429

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.773937**	**33.94670**	**.1911166**	**.0054795**	**4.674087**	**.3671839**	**3.475978**
Stddev	.034446	.37008	.0003113	.0007077	.065132	.0035249	.029503
%RSD	.9127254	1.090193	.1629041	12.91536	1.393461	.9599743	.8487552
#1	3.813677	34.37362	.1908334	.0048235	4.608775	.3712135	3.444986
#2	3.755507	33.71686	.1914500	.0062295	4.739037	.3646723	3.503722
#3	3.752628	33.74963	.1910665	.0053855	4.674450	.3656661	3.479226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.54356**	**.1490868**	**.0049874**	**.0190301**	**1.757035**	**3.996981**	**4.569992**
Stddev	.11294	.0175606	.0001077	.0007686	.018068	.060407	.008301
%RSD	1.071192	11.77875	2.160019	4.039027	1.028317	1.511328	.1816423
#1	10.41474	.1304072	.0049648	.0183762	1.776901	3.939927	4.570373
#2	10.62556	.1652587	.0048928	.0188374	1.752619	4.060260	4.578096
#3	10.59039	.1515946	.0051047	.0198768	1.741584	3.990755	4.561507

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3457-01 Acquired: 10/28/2025 18:29:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**3.138997**	**.1551491**	**-.020980**
Stddev	.013905	.0015143	.005430
%RSD	.4429885	.9760282	25.88406
#1	3.142295	.1562508	-.014729
#2	3.150957	.1557742	-.024536
#3	3.123740	.1534223	-.023674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6320.581**	**100726.4**	**8068.719**	**4788.364**	**6414.454**
Stddev	6.187	734.7	127.147	37.747	6.785
%RSD	.0978789	.7294271	1.575799	.7883170	.1057762
#1	6326.003	101568.8	7924.106	4824.034	6419.546
#2	6313.842	100218.5	8162.973	4748.835	6406.751
#3	6321.898	100391.8	8119.079	4792.222	6417.064

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-01 Acquired: 10/28/2025 18:33:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0775159**	**-.021119**	**6.391344**	**-.007512**	**-.031814**	**72.53180**
Stddev	.0001359	.002682	.009417	.001360	.000493	.24318
%RSD	.1752863	12.69798	.1473469	18.10163	1.550483	.3352766
#1	.0774980	-.018476	6.401490	-.006040	-.031672	72.34573
#2	.0776599	-.021045	6.389660	-.008721	-.031407	72.80696
#3	.0773899	-.023838	6.382882	-.007777	-.032363	72.44270

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.371176**	**.0092922**	**.0126808**	**98.67389**	**.1634176**	**.1335622**
Stddev	.005515	.0000937	.0002604	.65942	.0003606	.0005471
%RSD	.4022389	1.008212	2.053796	.6682816	.2206713	.4096094
#1	1.365679	.0093442	.0124183	98.11164	.1632843	.1340266
#2	1.376710	.0093482	.0129391	99.39970	.1638259	.1337009
#3	1.371138	.0091840	.0126850	98.51034	.1631426	.1329591

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6574375**	**302.3934**	**2.990773**	**38.56924**	**.2087744**	**.0060583**
Stddev	.0007933	1.3254	.020727	.34248	.0007215	.0005204
%RSD	.1206683	.4383133	.6930415	.8879539	.3456000	8.589607
#1	.6565362	302.2609	2.971761	38.19455	.2083286	.0058867
#2	.6580300	301.1392	3.012870	38.86611	.2096069	.0056454
#3	.6577462	303.7801	2.987688	38.64705	.2083879	.0066428

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.649408**	**.3261110**	**2.910306**	**17.52542**	**.3126432**	**.0190299**
Stddev	.025592	.0015048	.003901	.13151	.0072922	.0002614
%RSD	.7012696	.4614313	.1340563	.7503724	2.332421	1.373473
#1	3.653396	.3252964	2.910954	17.56828	.3176795	.0187556
#2	3.622056	.3278474	2.906122	17.37784	.3042811	.0190580
#3	3.672773	.3251890	2.913844	17.63016	.3159691	.0192760

Sample Name: Q3460-01 Acquired: 10/28/2025 18:33:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	2.931728	5.939068	3.322524	F 16.50333	3.885546	.1084091
Stddev	.004406	.041398	.019329	.07884	.009331	.0013671
%RSD	.1502777	.6970418	.5817534	.4777329	.2401436	1.261030
#1	2.936168	5.900059	3.319393	16.57162	3.895169	.1078053
#2	2.927358	5.982500	3.304952	16.41705	3.884932	.1099742
#3	2.931658	5.934645	3.343227	16.52132	3.876538	.1074480

Elem	Sr4077
Units	ppm
Avg	-.039934
Stddev	.002147
%RSD	5.375880
#1	-.040660
#2	-.037518
#3	-.041623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7175.922	115175.6	9018.414	5482.730	6319.539
Stddev	8.672	359.1	91.121	24.006	6.158
%RSD	.1208516	.3117455	1.010389	.4378529	.0974485
#1	7184.641	115351.6	9099.633	5499.536	6324.376
#2	7167.297	115412.7	8919.877	5493.417	6312.607
#3	7175.827	114762.5	9035.734	5455.236	6321.635

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-05 Acquired: 10/28/2025 18:37:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0262230**	**-.023205**	**.0671928**	**-.014394**	**-.016869**	**32.48829**
Stddev	.0008439	.003157	.0019701	.002152	.001904	.35322
%RSD	3.218143	13.60657	2.932079	14.94848	11.28485	1.087209
#1	.0268507	-.025780	.0694515	-.012431	-.014778	32.89569
#2	.0265546	-.019682	.0662979	-.016694	-.017327	32.26793
#3	.0252637	-.024153	.0658289	-.014057	-.018502	32.30124

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5391423**	**.0071710**	**.0172109**	**54.71932**	**.0156093**	**.1273951**
Stddev	.0101294	.0000574	.0002117	.73645	.0002408	.0000268
%RSD	1.878801	.7999383	1.229830	1.345875	1.542887	.0210559
#1	.5505946	.0072155	.0169684	55.56965	.0155246	.1274044
#2	.5313572	.0071914	.0173062	54.30269	.0158811	.1274160
#3	.5354753	.0071063	.0173583	54.28563	.0154223	.1273648

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3354840**	**274.8190**	**2.125067**	**24.65238**	**.0787145**	**.0020501**
Stddev	.0004016	2.7825	.037548	.27541	.0001756	.0014744
%RSD	.1197029	1.012471	1.766930	1.117157	.2231094	71.92028
#1	.3351689	277.5068	2.166896	24.96944	.0789171	.0034152
#2	.3359362	271.9506	2.094271	24.47252	.0786221	.0004864
#3	.3353470	274.9995	2.114035	24.51519	.0786044	.0022487

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.116931**	**.1253749**	**.2989522**	**15.45044**	**.1057827**	**.0143229**
Stddev	.020661	.0017941	.0006845	.09743	.0076673	.0000553
%RSD	.9759726	1.430960	.2289718	.6305905	7.248179	.3862157
#1	2.138607	.1265860	.2991562	15.54109	.1054584	.0143639
#2	2.097463	.1233138	.2995115	15.34741	.0982827	.0142600
#3	2.114723	.1262250	.2981888	15.46281	.1136071	.0143449

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-05 Acquired: 10/28/2025 18:37:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0041030	5.303066	2.651357	F 21.19713	5.084624	.0603127
Stddev	.0008191	.077436	.016335	.02549	.015775	.0014751
%RSD	19.96342	1.460208	.6161101	.1202469	.3102523	2.445798
#1	.0033548	5.391962	2.664788	21.22581	5.068853	.0617988
#2	.0049782	5.250288	2.633172	21.18854	5.100404	.0588488
#3	.0039759	5.266948	2.656111	21.17705	5.084615	.0602906

Elem	Sr4077
Units	ppm
Avg	-.170811
Stddev	.001377
%RSD	.8064419
#1	-.171808
#2	-.169239
#3	-.171386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9050.682	146180.1	11307.87	6889.175	6326.725
Stddev	20.695	411.5	118.41	14.657	15.789
%RSD	.2286519	.2814765	1.047182	.2127503	.2495643
#1	9032.372	145716.4	11171.87	6874.354	6310.579
#2	9073.135	146501.7	11363.64	6889.510	6342.132
#3	9046.539	146322.2	11388.11	6903.662	6327.462

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-09 Acquired: 10/28/2025 18:41:42 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0258346**	**-.009332**	**.0613788**	**-.005842**	**-.005923**	**72.99346**
Stddev	.0024309	.000553	.0015413	.001592	.001392	.08044
%RSD	9.409387	5.927374	2.511199	27.25464	23.50707	.1102042
#1	.0234871	-.009722	.0629313	-.007076	-.007275	72.95901
#2	.0283411	-.009574	.0598489	-.006406	-.004493	72.93597
#3	.0256756	-.008699	.0613560	-.004045	-.006002	73.08539

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4849581**	**.0062041**	**.0093690**	**32.29286**	**.3546126**	**.1749892**
Stddev	.0015951	.0001422	.0008176	.07049	.0012439	.0049109
%RSD	.3289123	2.292749	8.726617	.2182983	.3507866	2.806422
#1	.4847771	.0060400	.0102893	32.21838	.3541454	.1806522
#2	.4866359	.0062927	.0087266	32.35855	.3560225	.1724119
#3	.4834612	.0062796	.0090911	32.30163	.3536699	.1719033

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6020172**	**216.5722**	**1.507505**	**69.92442**	**.2822161**	**.0001314**
Stddev	.0124505	1.0726	.004978	.15205	.0065186	.0007110
%RSD	2.068128	.4952462	.3302330	.2174432	2.309803	541.2174
#1	.6163594	217.1227	1.507468	69.74886	.2897395	.0007136
#2	.5939856	217.2576	1.512502	70.01115	.2786559	.0003414
#3	.5957065	215.3361	1.502546	70.01326	.2782527	-.000661

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.508139**	**.3347015**	**.2555435**	**48.69278**	**.0964963**	**.0150757**
Stddev	.027824	.0018472	.0015195	.20141	.0030817	.0002552
%RSD	1.844912	.5518942	.5945958	.4136380	3.193602	1.692801
#1	1.510754	.3358143	.2553292	48.80623	.0985362	.0153175
#2	1.534564	.3325692	.2541426	48.81188	.0980014	.0151008
#3	1.479100	.3357209	.2571587	48.46023	.0929513	.0148089

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-09 Acquired: 10/28/2025 18:41:42 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0144088	F 11.96106	3.125993	F 13.14339	5.423984	.1415586
Stddev	.0003261	.01876	.005801	.32051	.127011	.0011747
%RSD	2.263532	.1568132	.1855695	2.438557	2.341648	.8298603
#1	.0147739	11.95240	3.132041	13.51333	5.570397	.1419989
#2	.0141463	11.98258	3.125464	12.94904	5.358132	.1402273
#3	.0143062	11.94819	3.120475	12.96781	5.343422	.1424495

Elem	Sr4077
Units	ppm
Avg	-.156884
Stddev	.000835
%RSD	.5321543
#1	-.157510
#2	-.157205
#3	-.155936

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7149.165	112985.9	9199.111	5318.490	6078.863
Stddev	110.248	309.5	21.173	14.805	134.952
%RSD	1.542106	.2739321	.2301667	.2783688	2.220021
#1	7021.864	112912.4	9219.349	5334.889	5923.132
#2	7213.476	112719.8	9177.112	5306.108	6151.931
#3	7212.154	113325.6	9200.872	5314.474	6161.525

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-13 Acquired: 10/28/2025 18:45:45 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0794049**	**-.026022**	**2.072351**	**-.010940**	**-.018656**	**75.80704**
Stddev	.0016776	.006167	.021362	.003576	.000204	1.41470
%RSD	2.112666	23.70052	1.030806	32.68557	1.095849	1.866189
#1	.0776625	-.031233	2.047810	-.015062	-.018494	77.44053
#2	.0795432	-.027620	2.082468	-.008678	-.018589	74.97817
#3	.0810091	-.019213	2.086774	-.009080	-.018886	75.00241

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.154182**	**.0089375**	**.0200452**	**94.32127**	**.1800563**	**.1366251**
Stddev	.024487	.0001161	.0009974	1.66073	.0006195	.0018239
%RSD	2.121618	1.298986	4.975903	1.760713	.3440830	1.334971
#1	1.182230	.0090619	.0188962	96.23869	.1795074	.1345203
#2	1.137054	.0088321	.0205520	93.38754	.1807281	.1376151
#3	1.143263	.0089185	.0206876	93.33757	.1799334	.1377400

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8318921**	**316.2275**	**3.227940**	**48.21664**	**.2400771**	**.0024862**
Stddev	.0086795	3.2649	.066562	.78952	.0025935	.0018671
%RSD	1.043347	1.032446	2.062044	1.637441	1.080291	75.09893
#1	.8220381	319.9529	3.304796	49.12808	.2371553	.0045293
#2	.8352352	313.8643	3.188937	47.77786	.2409691	.0008683
#3	.8384029	314.8654	3.190087	47.74397	.2421069	.0020612

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.882249**	**.3099296**	**1.760184**	**19.38205**	**1.681342**	**.0135735**
Stddev	.047780	.0066545	.000294	.19363	.015399	.0002138
%RSD	1.230740	2.147094	.0167219	.9990192	.9158551	1.574840
#1	3.936276	.3171655	1.759866	19.60227	1.698923	.0134146
#2	3.864922	.3040727	1.760238	19.23846	1.670253	.0134893
#3	3.845550	.3085504	1.760447	19.30543	1.674848	.0138165

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-13 Acquired: 10/28/2025 18:45:45 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.520435	7.738163	2.988735	F 24.58416	3.499667	.1037698
Stddev	.015623	.152219	.022442	.32732	.066490	.0017983
%RSD	1.027515	1.967120	.7508999	1.331409	1.899884	1.732963
#1	1.502485	7.912794	3.013836	24.20775	3.423939	.1054315
#2	1.527857	7.633564	2.981763	24.74290	3.526582	.1018605
#3	1.530963	7.668132	2.970607	24.80184	3.548480	.1040175

Elem	Sr4077
Units	ppm
Avg	-.120065
Stddev	.000837
%RSD	.6970755
#1	-.119130
#2	-.120744
#3	-.120321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7404.997	118489.5	9421.458	5567.364	6273.838
Stddev	47.046	498.6	99.224	20.049	58.408
%RSD	.6353216	.4208058	1.053174	.3601117	.9309761
#1	7459.181	118335.7	9320.205	5559.645	6340.974
#2	7374.542	118085.8	9425.648	5552.321	6234.703
#3	7381.267	119046.8	9518.520	5590.124	6245.837

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-17 Acquired: 10/28/2025 18:49:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0450810**	**-.023165**	**1.029291**	**-.011683**	**-.013676**	**69.98407**
Stddev	.0010244	.003707	.004893	.002301	.002942	.55654
%RSD	2.272372	16.00364	.4753920	19.69194	21.51071	.7952326
#1	.0459233	-.019071	1.023681	-.010419	-.016024	70.62585
#2	.0453791	-.026295	1.031519	-.014338	-.014627	69.63457
#3	.0439406	-.024128	1.032674	-.010291	-.010376	69.69178

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9097971**	**.0078830**	**.0192478**	**70.29104**	**.1188815**	**.1363056**
Stddev	.0116637	.0001958	.0000486	.68210	.0008624	.0001551
%RSD	1.282014	2.484156	.2522310	.9703938	.7253917	.1137838
#1	.9227952	.0080412	.0192469	71.07708	.1182254	.1361266
#2	.9063526	.0076640	.0191997	69.94123	.1185607	.1363987
#3	.9002435	.0079439	.0192968	69.85481	.1198582	.1363916

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6762132**	**290.4381**	**3.038965**	**36.94913**	**.1587881**	**.0025477**
Stddev	.0011915	.6054	.032127	.25029	.0009285	.0004110
%RSD	.1762080	.2084558	1.057178	.6773935	.5847107	16.13402
#1	.6750267	290.2834	3.075546	37.22937	.1577176	.0025466
#2	.6762033	291.1059	3.026015	36.87019	.1593734	.0029593
#3	.6774097	289.9250	3.015334	36.74782	.1592733	.0021372

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.117862**	**.3075279**	**1.024124**	**23.03555**	**.9753436**	**.0206804**
Stddev	.013100	.0036772	.001923	.03253	.0033337	.0002008
%RSD	.6185722	1.195727	.1878136	.1412268	.3417982	.9707067
#1	2.113551	.3100412	1.022498	23.00013	.9788838	.0205683
#2	2.107460	.3092351	1.026247	23.06409	.9748825	.0209121
#3	2.132574	.3033074	1.023628	23.04242	.9722644	.0205608

Sample Name: Q3460-17 Acquired: 10/28/2025 18:49:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0407375	5.924248	2.624832	F 20.11634	3.148463	.0839663
Stddev	.0004947	.062446	.009601	.12725	.019949	.0019246
%RSD	1.214444	1.054067	.3657753	.6325584	.6336073	2.292073
#1	.0410613	5.995848	2.635623	19.96987	3.126376	.0861800
#2	.0401680	5.895836	2.617237	20.19971	3.165170	.0826906
#3	.0409832	5.881061	2.621635	20.17943	3.153844	.0830282

Elem	Sr4077
Units	ppm
Avg	-.134162
Stddev	.001812
%RSD	1.350644
#1	-.132104
#2	-.135517
#3	-.134866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8197.971	131980.7	10572.58	6202.417	6216.567
Stddev	27.188	576.6	87.45	12.188	23.354
%RSD	.3316486	.4369115	.8271848	.1965045	.3756726
#1	8228.938	132542.5	10480.10	6215.176	6243.532
#2	8186.958	132009.3	10653.95	6201.180	6203.328
#3	8178.017	131390.3	10583.68	6190.894	6202.842

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170291BL Acquired: 10/28/2025 18:53:49 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0013027**	**-.004782**	**.0000445**	**-.000373**	**.0000445**	**.0084214**
Stddev	.0009048	.001053	.0004623	.001787	.0007378	.0100597
%RSD	69.45562	22.02789	1037.964	478.6403	1659.276	119.4541
#1	.0022010	-.004082	.0005673	-.001404	-.000730	.0030014
#2	.0003915	-.005993	-.000123	.001690	.000124	.0200290
#3	.0013156	-.004271	-.000310	-.001406	.000740	.0022339

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038498**	**.0000116**	**-.000027**	**.0038144**	**.0004145**	**-.000057**
Stddev	.0016916	.0000554	.000066	.0096480	.0003133	.000265
%RSD	43.94039	476.4412	240.1735	252.9366	75.58950	466.9403
#1	.0056941	-.000051	-.000054	-.007145	.0007596	.000166
#2	.0034848	.000056	-.000076	.011029	.0003361	.000014
#3	.0023705	.000030	.000048	.007559	.0001478	-.000349

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001108**	**.0069755**	**.0001839**	**-.008285**	**-.000305**	**-.001031**
Stddev	.0003092	.0067078	.0005408	.008605	.000267	.000419
%RSD	279.2080	96.16096	294.0534	103.8697	87.39591	40.65914
#1	.0003969	.0057595	-.000213	-.016015	-.000609	-.001417
#2	-.000217	.0142081	-.000036	.000987	-.000113	-.001090
#3	.000153	.0009590	.000800	-.009827	-.000193	-.000585

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0812917**	**-.000050**	**.0000999**	**-.041131**	**-.002534**	**.0010109**
Stddev	.0067046	.003049	.0001830	.058538	.000531	.0001344
%RSD	8.247591	6064.946	183.1943	142.3225	20.94858	13.28970
#1	.0744026	.002526	-.000108	-.011386	-.002005	.0008583
#2	.0877951	.000740	.000235	-.003437	-.003067	.0011114
#3	.0816775	-.003417	.000173	-.108569	-.002529	.0010631

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170291BL Acquired: 10/28/2025 18:53:49 Type: Unk
Method: 6010-200.7 NEW(v320) 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	F .0214903	.0024320	-.020991	.0010781	.0071181	.0004586
Stddev	.0002103	.0012649	.014507	.0017649	.0042827	.0004409
%RSD	.9785447	52.00918	69.10895	163.6969	60.16596	96.14926
#1	.0216502	.0016766	-.005705	.0019207	.0096835	.0008958
#2	.0212521	.0038923	-.034567	.0022639	.0094968	.0004657
#3	.0215685	.0017273	-.022701	-.000950	.0021741	.0000141

Elem	Sr4077
Units	ppm
Avg	-.000060
Stddev	.000094
%RSD	158.3325
#1	.000049
#2	-.000121
#3	-.000107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5698.839	92537.86	6788.118	4305.920	7325.514
Stddev	19.016	538.66	131.601	27.992	22.338
%RSD	.3336859	.5820973	1.938695	.6500818	.3049392
#1	5687.834	91926.21	6649.640	4275.032	7317.928
#2	5687.885	92745.87	6803.166	4313.120	7307.957
#3	5720.797	92941.49	6911.548	4329.609	7350.658

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170291BS Acquired: 10/28/2025 18:58:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.7594016**	**1.673266**	**.9232442**	**1.905113**	**.7822911**	**1.906460**
Stddev	.0049778	.035679	.0018697	.011863	.0060144	.006090
%RSD	.6554893	2.132285	.2025179	.6227014	.7688131	.3194508
#1	.7638524	1.686999	.9220985	1.913542	.7865104	1.899445
#2	.7603259	1.700037	.9254018	1.910250	.7849584	1.909538
#3	.7540264	1.632761	.9222323	1.891547	.7754043	1.910397

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1988927**	**.2063060**	**.1874107**	**1.009945**	**.3960164**	**.1931887**
Stddev	.0011321	.0011523	.0001560	.005371	.0012229	.0003873
%RSD	.5692109	.5585245	.0832308	.5318067	.3087978	.2004749
#1	.1995925	.2070399	.1872593	1.005108	.3946265	.1933094
#2	.1994991	.2049780	.1874020	1.009000	.3969276	.1927555
#3	.1975866	.2069003	.1875709	1.015725	.3964949	.1935013

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3071830**	**2.930903**	**.2063404**	**1.952419**	**.4824636**	**.0732757**
Stddev	.0004401	.039513	.0005584	.007806	.0010146	.0004848
%RSD	.1432680	1.348165	.2706150	.3998033	.2103042	.6616736
#1	.3073604	2.890209	.2056983	1.957420	.4813685	.0732345
#2	.3075066	2.969119	.2066111	1.943425	.4826505	.0728128
#3	.3066818	2.933383	.2067118	1.956414	.4833717	.0737798

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.975220**	**.2927036**	**.2014970**	**9.263369**	**.2971835**	**.4022985**
Stddev	.052100	.0021339	.0008545	.070387	.0014500	.0013839
%RSD	1.751136	.7290429	.4240680	.7598475	.4879009	.3440061
#1	2.919398	.2908286	.2024528	9.186441	.2988449	.4038510
#2	3.022557	.2922565	.2012313	9.324548	.2961737	.4018505
#3	2.983705	.2950256	.2008070	9.279118	.2965319	.4011941

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170291BS Acquired: 10/28/2025 18:58:08 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.6921741	.1955674	.8274649	5.547577	F .0057156	.2032110
Stddev	.0006212	.0018315	.0017709	.004287	.0009549	.0009838
%RSD	.0897442	.9365049	.2140117	.0772763	16.70668	.4841257
#1	.6917918	.1963468	.8254651	5.543622	.0046174	.2027855
#2	.6928909	.1968803	.8280954	5.546978	.0061797	.2025115
#3	.6918398	.1934751	.8288343	5.552132	.0063498	.2043359

Elem	Sr4077
Units	ppm
Avg	.1919600
Stddev	.0014196
%RSD	.7395389
#1	.1905387
#2	.1933779
#3	.1919633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5787.678	93222.56	6944.483	4459.975	7138.077
Stddev	2.005	328.05	8.866	8.905	15.604
%RSD	.0346405	.3519008	.1276722	.1996694	.2186007
#1	5785.404	93538.81	6943.192	4463.288	7152.047
#2	5788.435	92883.86	6953.924	4449.888	7140.948
#3	5789.193	93245.01	6936.333	4466.748	7121.238

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170261TB Acquired: 10/28/2025 19:02:09 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002229**	**-.009673**	**.0000168**	**.0048545**	**.0011875**	**.0092540**	**-.000076**
Stddev	.000906	.000916	.0013258	.0024309	.0010002	.0073718	.001072
%RSD	40.66078	9.473443	7909.364	50.07429	84.22650	79.66122	1408.890
#1	-.002849	-.009508	-.000737	.0020561	.0001193	.0146702	.000831
#2	-.002649	-.008851	.001548	.0064427	.0021018	.0122329	-.001259
#3	-.001189	-.010661	-.000760	.0060647	.0013414	.0008588	.000200

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000195**	**.0000096**	**.0030595**	**.0013229**	**-.000309**	**.0001889**	**.0139363**
Stddev	.000026	.0000723	.0050233	.0000907	.000088	.0001538	.0063198
%RSD	13.24378	755.3632	164.1866	6.854157	28.44806	81.41369	45.34752
#1	-.000165	-.000074	.0069898	.0013323	-.000268	.0000130	.0124748
#2	-.000212	.000045	-.002600	.0012278	-.000410	.0002559	.0084753
#3	-.000208	.000058	.004789	.0014084	-.000250	.0002978	.0208588

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004926**	**-.003588**	**.0008580**	**-.001018**	**413.8239**	**-.002136**	**.0040657**
Stddev	.0008179	.003765	.0001038	.000255	3.2770	.000397	.0004833
%RSD	166.0437	104.9311	12.09240	25.05752	.7918881	18.59739	11.88778
#1	.0009671	-.003460	.0008827	-.001156	411.1191	-.001703	.0040060
#2	.0009625	.000112	.0009472	-.000724	417.4680	-.002484	.0045761
#3	-.000452	-.007415	.0007441	-.001175	412.8845	-.002221	.0036150

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.090411**	**-.006578**	**.0008063**	**-.012967**	**.0003218**	**.0038569**	**.0071399**
Stddev	.016699	.000765	.0001043	.000279	.0012718	.0130201	.0006720
%RSD	18.47020	11.62891	12.93907	2.150482	395.2151	337.5764	9.411379
#1	-.082593	-.005897	.0007244	-.013111	-.000871	-.003837	.0067567
#2	-.079054	-.007405	.0007707	-.012646	.000176	-.003482	.0067473
#3	-.109584	-.006430	.0009237	-.013146	.001660	.018890	.0079158

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: PB170261TB Acquired: 10/28/2025 19:02:09 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0091150	-.004680	.0000380
Stddev	.0016394	.001071	.0000848
%RSD	17.98593	22.89448	223.2468
#1	.0083497	-.004743	.0001110
#2	.0109972	-.005719	.0000579
#3	.0079982	-.003579	-.000055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5266.544	83926.71	6741.341	4049.544	6159.633
Stddev	16.290	277.41	27.560	21.569	23.227
%RSD	.3093204	.3305359	.4088202	.5326370	.3770859
#1	5253.660	84008.14	6715.825	4070.385	6140.262
#2	5261.116	84154.29	6770.569	4050.932	6153.253
#3	5284.855	83617.70	6737.628	4027.313	6185.383

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV08 Acquired: 10/28/2025 19:06:36 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.113983**	**4.878483**	**5.091340**	**5.122995**	**5.101292**	**10.83697**	**10.53643**
Stddev	.001024	.084387	.007994	.012643	.005267	.03657	.02843
%RSD	.0200279	1.729785	.1570080	.2467983	.1032453	.3374678	.2697949
#1	5.112810	4.870241	5.088960	5.113139	5.096613	10.85587	10.56897
#2	5.114697	4.798519	5.100254	5.137250	5.100268	10.79481	10.52388
#3	5.114444	4.966689	5.084807	5.118596	5.106996	10.86021	10.51643

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2690727**	**2.601345**	**26.08556**	**1.032519**	**2.613687**	**1.304197**	**5.137427**
Stddev	.0023105	.002595	.02531	.004545	.003466	.001566	.037136
%RSD	.8586970	.0997629	.0970240	.4401725	.1326158	.1200664	.7228490
#1	.2669593	2.601980	26.08268	1.035452	2.615196	1.302932	5.166424
#2	.2687193	2.603563	26.11219	1.034822	2.616143	1.305948	5.150286
#3	.2715396	2.598491	26.06182	1.027284	2.609722	1.303710	5.095570

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.671651**	**25.93373**	**2.597898**	**1.293251**	**26.37559**	**2.586585**	**2.594017**
Stddev	.002035	.03136	.004951	.001689	.40595	.008569	.010322
%RSD	.0761574	.1209319	.1905649	.1306054	1.539121	.3312995	.3978969
#1	2.670122	25.91985	2.599919	1.293644	26.79781	2.576897	2.588643
#2	2.673960	25.91171	2.601518	1.294709	26.34081	2.589687	2.605917
#3	2.670869	25.96964	2.592256	1.291400	25.98815	2.593172	2.587492

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.19978**	**5.356596**	**5.214133**	**5.253038**	**5.227970**	**5.027289**	**5.338106**
Stddev	.32263	.059828	.002117	.006446	.002514	.057136	.009562
%RSD	1.280288	1.116908	.0406000	.1227147	.0480879	1.136511	.1791284
#1	25.51868	5.296184	5.214779	5.256031	5.229921	5.076441	5.349104
#2	25.20710	5.357779	5.215852	5.257443	5.228856	5.040825	5.331757
#3	24.87355	5.415824	5.211768	5.245639	5.225133	4.964601	5.333458

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV08 Acquired: 10/28/2025 19:06:36 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.223209	5.215107	5.229766
Stddev	.006979	.005022	.072733
%RSD	.1336076	.0962989	1.390752
#1	5.228390	5.220884	5.153940
#2	5.225962	5.212663	5.236406
#3	5.215273	5.211776	5.298951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5561.840	88971.55	6730.805	4253.833	6395.090
Stddev	4.108	398.00	52.141	19.952	11.478
%RSD	.0738656	.4473384	.7746562	.4690241	.1794845
#1	5560.542	88605.39	6778.605	4248.666	6383.922
#2	5558.538	88914.12	6738.606	4236.974	6394.493
#3	5566.441	89395.15	6675.203	4275.860	6406.855

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB08 Acquired: 10/28/2025 19:10:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000524**	**-.006307**	**.0003329**	**.0001125**	**-.000266**	**.0090585**	**.0031865**
Stddev	.000608	.001936	.0007739	.0002243	.000859	.0091300	.0012290
%RSD	116.0812	30.69494	232.4615	199.2727	323.2614	100.7892	38.56930
#1	-.001054	-.007422	-.000561	.0003569	.000505	.0159187	.0017879
#2	.000140	-.004072	.000796	-.000084	-.000110	-.001304	.0040942
#3	-.000657	-.007429	.000763	.000064	-.001192	.012561	.0036775

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**.0000176**	**.0069734**	**.0003836**	**-.000032**	**.0011366**	**.0157811**
Stddev	.000037	.0000341	.0066559	.0003264	.000111	.0002552	.0040446
%RSD	43.42579	193.1721	95.44714	85.10385	348.8801	22.45278	25.62914
#1	-.000109	.0000431	.0092561	.0007592	-.000160	.0009613	.0139675
#2	-.000042	.0000310	-.000523	.0001683	.000020	.0014294	.0204150
#3	-.000102	-.000021	.012188	.0002233	.000044	.0010192	.0129606

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011054**	**-.006235**	**-.000384**	**-.000940**	**.1671640**	**-.001146**	**.0028702**
Stddev	.0002043	.002121	.000183	.000171	.0257283	.002364	.0001833
%RSD	18.47690	34.01023	47.80282	18.18769	15.39102	206.2301	6.385266
#1	.0013087	-.008346	-.000190	-.000743	.1433486	-.003360	.0026773
#2	.0011074	-.004105	-.000406	-.001035	.1944524	.001343	.0028912
#3	.0009002	-.006255	-.000555	-.001044	.1636911	-.001421	.0030420

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0423116**	**.0005497**	**.0006786**	**-.000691**	**.0014644**	**.0070242**	**.0008071**
Stddev	.0265062	.0001826	.0001954	.000309	.0006868	.0061701	.0014216
%RSD	62.64511	33.22485	28.79579	44.77899	46.90097	87.83992	176.1500
#1	.0364199	.0007298	.0004533	-.001016	.0007071	.0020825	.0024421
#2	.0192471	.0005546	.0007807	-.000658	.0020469	.0050505	.0001159
#3	.0712679	.0003646	.0008019	-.000399	.0016393	.0139397	-.000137

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB08 Acquired: 10/28/2025 19:10:39 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.0019653	.0011905	-.000051
Stddev	.0008577	.0024454	.000083
%RSD	43.64142	205.4117	162.7776
#1	.0013483	-.001342	.000044
#2	.0029447	.001376	-.000085
#3	.0016028	.003538	-.000112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5716.400	91748.16	6842.627	4286.410	7353.193
Stddev	5.087	132.65	59.707	2.872	2.312
%RSD	.0889926	.1445805	.8725704	.0670046	.0314468
#1	5711.015	91617.72	6891.557	4286.735	7355.266
#2	5717.062	91882.92	6776.099	4283.390	7350.699
#3	5721.124	91743.84	6860.225	4289.106	7353.612

Sample Name: Q3460-04 Acquired: 10/28/2025 19:14:57 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003699**	**-.006453**	**.1068092**	**.0040757**	**.0023147**	**.0405116**	**.2083979**
Stddev	.001566	.002156	.0007978	.0012496	.0008287	.0053692	.0023662
%RSD	42.34854	33.40664	.7469488	30.65866	35.80327	13.25357	1.135423
#1	-.004970	-.005288	.1071827	.0052121	.0015011	.0352526	.2108462
#2	-.001949	-.005130	.1073517	.0027376	.0031579	.0402975	.2061233
#3	-.004177	-.008940	.1058931	.0042774	.0022852	.0459847	.2082242

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000109**	**.0004879**	**49.32340**	**.0010161**	**.0054350**	**.0237842**	**.0314030**
Stddev	.000047	.0000519	.10020	.0000862	.0000484	.0001293	.0097273
%RSD	43.61558	10.63646	.2031426	8.483281	.8915281	.5437973	30.97557
#1	-.000163	.0004318	49.36735	.0010917	.0054908	.0239167	.0262624
#2	-.000075	.0004977	49.20874	.0009222	.0054034	.0236583	.0426220
#3	-.000088	.0005341	49.39411	.0010344	.0054107	.0237775	.0253246

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2753903**	**1.151290**	**.0046211**	**-.001004**	**293.5595**	**-.001080**	**.3577051**
Stddev	.0014907	.003031	.0002557	.000264	3.4594	.001605	.0012595
%RSD	.5413037	.2632328	5.532387	26.25376	1.178440	148.5669	.3521085
#1	.2768204	1.151502	.0044506	-.000709	296.5420	-.000402	.3578248
#2	.2738456	1.154208	.0049150	-.001216	294.3696	-.002913	.3589005
#3	.2755047	1.148158	.0044976	-.001088	289.7670	.000074	.3563900

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.612653**	**.0042978**	**.0011424**	**-.015251**	**-.000608**	**1.209466**	**.0252756**
Stddev	.041354	.0003275	.0002230	.000422	.000931	.023256	.0014171
%RSD	2.564316	7.619465	19.51739	2.769966	153.0957	1.922804	5.606392
#1	1.656662	.0045082	.0009138	-.015092	.000253	1.231890	.0263258
#2	1.606698	.0039205	.0011539	-.014931	-.000481	1.185460	.0258370
#3	1.574601	.0044647	.0013593	-.015730	-.001597	1.211049	.0236638

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04 Acquired: 10/28/2025 19:14:57 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7981973	-.009102	.1003501
Stddev	.0006918	.000467	.0007779
%RSD	.0866756	5.133281	.7752128
#1	.7989850	-.008607	.1011798
#2	.7976882	-.009535	.0996371
#3	.7979187	-.009166	.1002334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5295.598	84892.05	6799.136	4055.069	6142.867
Stddev	1.728	113.89	9.477	14.256	9.353
%RSD	.0326338	.1341577	.1393847	.3515597	.1522563
#1	5295.612	84915.28	6808.762	4057.157	6149.367
#2	5293.863	84768.33	6789.815	4039.885	6132.148
#3	5297.319	84992.53	6798.832	4068.167	6147.086

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04DUP Acquired: 10/28/2025 19:19:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002660**	**-.006598**	**.1068274**	**.0043818**	**.0032258**	**.0417629**	**.2011003**
Stddev	.001256	.002147	.0009172	.0021737	.0010065	.0051800	.0004162
%RSD	47.20355	32.54113	.8585630	49.60800	31.20253	12.40339	.2069687
#1	-.004108	-.004538	.1064361	.0062318	.0039391	.0360746	.2006716
#2	-.001987	-.006433	.1078753	.0049257	.0036639	.0462086	.2015027
#3	-.001884	-.008822	.1061707	.0019877	.0020745	.0430054	.2011266

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000144**	**.0005074**	**48.67766**	**.0010152**	**.0054828**	**.0237158**	**.0296664**
Stddev	.000068	.0000681	.05797	.0001096	.0000794	.0000608	.0024174
%RSD	47.20350	13.42177	.1190908	10.79736	1.448859	.2564389	8.148726
#1	-.000066	.0005412	48.61160	.0010422	.0055727	.0237830	.0269271
#2	-.000190	.0005520	48.70134	.0011087	.0054538	.0236647	.0305710
#3	-.000176	.0004290	48.72004	.0008946	.0054220	.0236995	.0315010

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2688789**	**1.124509**	**.0049433**	**-.000932**	**286.6383**	**-.001266**	**.3587214**
Stddev	.0016524	.022976	.0001564	.000342	2.6459	.002206	.0009797
%RSD	.6145538	2.043204	3.164617	36.71617	.9230790	174.2474	.2730952
#1	.2669971	1.119303	.0047662	-.001314	283.9362	-.001797	.3595936
#2	.2695466	1.104582	.0050628	-.000831	286.7545	.001157	.3576615
#3	.2700929	1.149641	.0050009	-.000652	289.2242	-.003159	.3589091

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.680277**	**.0032015**	**.0012392**	**-.015043**	**.0012166**	**1.220412**	**.0236441**
Stddev	.057029	.0003752	.0000878	.000411	.0009820	.026129	.0010724
%RSD	3.394023	11.71821	7.084025	2.731426	80.71779	2.140989	4.535701
#1	1.614842	.0036259	.0011688	-.015185	.0017440	1.221420	.0227107
#2	1.706586	.0029140	.0012112	-.015364	.0000836	1.246022	.0248155
#3	1.719401	.0030647	.0013375	-.014580	.0018223	1.193793	.0234061

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04DUP Acquired: 10/28/2025 19:19:21 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7914444	-.010576	.0991266
Stddev	.0015282	.001444	.0004421
%RSD	.1930917	13.65664	.4460262
#1	.7920156	-.009977	.0987573
#2	.7926048	-.012223	.0996165
#3	.7897129	-.009528	.0990059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5365.633	85070.56	6979.196	4054.882	6224.659
Stddev	4.797	186.07	19.539	14.929	9.144
%RSD	.0894102	.2187189	.2799554	.3681757	.1468971
#1	5370.040	84863.07	6967.658	4037.685	6235.092
#2	5360.523	85126.02	7001.756	4064.519	6220.845
#3	5366.335	85222.59	6968.175	4062.442	6218.039

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04LX5 Acquired: 10/28/2025 19:23:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0003435**	**-.007077**	**.0202870**	**.0033487**	**.0003841**	**.0084636**	**.0428907**
Stddev	.0006285	.001368	.0009378	.0042503	.0008291	.0139676	.0020989
%RSD	182.9572	19.32609	4.622928	126.9228	215.8387	165.0310	4.893610
#1	.0003904	-.008629	.0213064	-.001278	-.000328	-.007315	.0423845
#2	-.000307	-.006045	.0200938	.007080	.001294	.013459	.0451964
#3	.000947	-.006559	.0194608	.004244	.000186	.019247	.0410912

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000186**	**.0001369**	**9.923891**	**.0003412**	**.0011303**	**.0048217**	**.0017472**
Stddev	.0001154	.0000533	.019869	.0002917	.0001579	.0002757	.0070598
%RSD	621.3375	38.94420	.2002127	85.48176	13.97468	5.717062	404.0504
#1	.0000839	.0001457	9.934757	.0005064	.0012083	.0050694	.0036662
#2	.0000865	.0000797	9.935957	.0000044	.0012340	.0048710	-.006074
#3	-.000115	.0001852	9.900959	.0005128	.0009485	.0045247	.007649

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0547045**	**.2223927**	**.0006655**	**-.000683**	**55.73116**	**.0014475**	**.0703503**
Stddev	.0008065	.0256449	.0001625	.000107	.36634	.0000805	.0000892
%RSD	1.474323	11.53136	24.41506	15.66664	.6573334	5.563363	.1268369
#1	.0537949	.1947199	.0004857	-.000662	56.14157	.0014143	.0704454
#2	.0549865	.2271008	.0008017	-.000798	55.43718	.0013890	.0703372
#3	.0553322	.2453573	.0007091	-.000587	55.61475	.0015394	.0702684

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3555486**	**-.004137**	**.0009424**	**.0148361**	**.0032586**	**.2171005**	**.0053905**
Stddev	.0160069	.000359	.0001906	.0002955	.0011073	.0035882	.0016772
%RSD	4.502036	8.689043	20.21969	1.992035	33.97967	1.652808	31.11311
#1	.3690441	-.004428	.0011548	.0149325	.0031116	.2163074	.0054873
#2	.3597383	-.003735	.0008862	.0150715	.0044320	.2139752	.0070172
#3	.3378635	-.004247	.0007863	.0145045	.0022322	.2210190	.0036671

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04LX5 Acquired: 10/28/2025 19:23:46 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1589950	.0024455	.0199436
Stddev	.0026640	.0014612	.0000955
%RSD	1.675505	59.75279	.4788776
#1	.1560536	.0040783	.0200331
#2	.1596860	.0019975	.0199546
#3	.1612454	.0012607	.0198431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5564.843	89403.68	6945.592	4255.416	6719.998
Stddev	12.235	239.52	9.918	10.107	18.789
%RSD	.2198675	.2679030	.1427949	.2375002	.2795995
#1	5556.750	89610.45	6949.692	4248.869	6707.538
#2	5578.918	89459.38	6934.281	4267.056	6741.610
#3	5558.860	89141.23	6952.801	4250.324	6710.848

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04MS Acquired: 10/28/2025 19:28:03 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.7729201**	**1.616323**	**1.047629**	**1.936231**	**.7731619**	**1.879393**	**.4831761**
Stddev	.0018063	.034767	.008002	.004627	.0017862	.032388	.0053410
%RSD	.2336984	2.151016	.7638596	.2389595	.2310238	1.723331	1.105403
#1	.7739306	1.649188	1.043630	1.939374	.7711105	1.902964	.4873253
#2	.7739950	1.619859	1.056842	1.938401	.7743731	1.892752	.4850530
#3	.7708347	1.579923	1.042414	1.930918	.7740019	1.842462	.4771499

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1927075**	**.1925688**	**70.78267**	**.3936750**	**.2027986**	**.3160342**	**3.021657**
Stddev	.0020127	.0013027	.76457	.0014365	.0012811	.0018023	.034862
%RSD	1.044414	.6764964	1.080163	.3648962	.6317270	.5702737	1.153723
#1	.1934054	.1918448	71.12110	.3945850	.2023555	.3142662	3.055807
#2	.1942782	.1940727	71.31962	.3920189	.2042425	.3178689	2.986125
#3	.1904387	.1917890	69.90730	.3944210	.2017979	.3159675	3.023040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5895329**	**3.489011**	**.4886780**	**.0708586**	**432.3997**	**.2795259**	**.7069431**
Stddev	.0065040	.026262	.0028855	.0005998	4.8777	.0063146	.0033353
%RSD	1.103250	.7527172	.5904641	.8465477	1.128060	2.259034	.4717970
#1	.5940228	3.514271	.4865072	.0715512	433.1864	.2850380	.7105164
#2	.5925018	3.490911	.4919524	.0705029	427.1764	.2809033	.7064006
#3	.5820742	3.461850	.4875745	.0705218	436.8362	.2726363	.7039122

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.59846**	**.2626107**	**.4160988**	**.6805284**	**.1892627**	**2.609461**	**6.066362**
Stddev	.05248	.0034148	.0012197	.0027090	.0049279	.012527	.025616
%RSD	.4165778	1.300337	.2931297	.3980719	2.603724	.4800505	.4222605
#1	12.60145	.2643171	.4157097	.6802301	.1924172	2.623664	6.071106
#2	12.64938	.2648361	.4174656	.6833741	.1917868	2.599987	6.089273
#3	12.54455	.2586790	.4151210	.6779808	.1835842	2.604733	6.038705

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04MS Acquired: 10/28/2025 19:28:03 Type: Unk
Method: 6010-200.7 NEW(v320) 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	1.154383	.1842766	.3245813
Stddev	.006910	.0017064	.0035012
%RSD	.5986110	.9260220	1.078689
#1	1.161931	.1849475	.3267513
#2	1.152852	.1855456	.3264505
#3	1.148367	.1823367	.3205422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5349.078	85240.27	6871.665	4108.394	6087.647
Stddev	32.467	91.60	63.595	16.499	47.299
%RSD	.6069615	.1074562	.9254605	.4015883	.7769720
#1	5367.788	85134.95	6859.324	4089.941	6110.600
#2	5311.588	85301.34	6815.145	4113.518	6033.251
#3	5367.858	85284.53	6940.525	4121.723	6119.091

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04MSD Acquired: 10/28/2025 19:32:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8060926**	**1.696753**	**1.060878**	**2.017854**	**.7956171**	**1.984422**	**.4632092**
Stddev	.0025834	.024898	.002952	.002931	.0030762	.016639	.0009094
%RSD	.3204791	1.467386	.2782674	.1452675	.3866395	.8384932	.1963339
#1	.8033938	1.714470	1.060561	2.016376	.7966223	1.965957	.4640239
#2	.8085425	1.707503	1.058097	2.021230	.7980649	1.998252	.4633758
#3	.8063415	1.668286	1.063976	2.015956	.7921640	1.989056	.4622280

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2059810**	**.1987198**	**63.28973**	**.4079158**	**.2078938**	**.3222749**	**3.100157**
Stddev	.0006959	.0000647	.13316	.0015050	.0001634	.0007524	.018022
%RSD	.3378238	.0325544	.2104052	.3689473	.0785981	.2334717	.5813112
#1	.2061795	.1987922	63.36428	.4096097	.2080242	.3230095	3.110922
#2	.2052075	.1986994	63.13599	.4067325	.2077105	.3223092	3.110197
#3	.2065560	.1986678	63.36892	.4074052	.2079467	.3215058	3.079352

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5548813**	**3.429526**	**.5038104**	**.0742542**	**382.7285**	**.2979318**	**.6534458**
Stddev	.0039629	.008920	.0003324	.0002326	2.9879	.0014772	.0014970
%RSD	.7141891	.2600994	.0659749	.3132658	.7806959	.4958065	.2290974
#1	.5590698	3.426167	.5041888	.0745168	384.0757	.2983939	.6518413
#2	.5511911	3.422774	.5036768	.0740740	384.8057	.2962788	.6548051
#3	.5543832	3.439638	.5035656	.0741717	379.3042	.2991226	.6536909

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.49232**	**.2787450**	**.4285686**	**.6986519**	**.1988490**	**2.430042**	**6.258684**
Stddev	.03793	.0017506	.0003532	.0003521	.0012234	.003711	.009295
%RSD	.3036176	.6280377	.0824170	.0504021	.6152447	.1527284	.1485192
#1	12.51170	.2779596	.4284504	.6982459	.1974390	2.426697	6.266239
#2	12.51665	.2775247	.4289658	.6988747	.1994794	2.429396	6.248304
#3	12.44862	.2807508	.4282897	.6988350	.1996287	2.434035	6.261509

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04MSD Acquired: 10/28/2025 19:32:11 Type: Unk
Method: 6010-200.7 NEW(v320) 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	1.015366	.1955826	.3172643
Stddev	.003020	.0032317	.0005134
%RSD	.2974595	1.652319	.1618097
#1	1.017381	.1973457	.3167100
#2	1.011894	.1918528	.3177235
#3	1.016824	.1975491	.3173593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5332.660	84642.56	6649.974	4071.931	6090.117
Stddev	7.861	366.18	29.127	13.196	10.120
%RSD	.1474083	.4326134	.4380025	.3240802	.1661647
#1	5325.243	84221.01	6632.048	4056.694	6078.489
#2	5331.838	84824.89	6683.582	4079.681	6094.931
#3	5340.900	84881.77	6634.292	4079.418	6096.931

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04A Acquired: 10/28/2025 19:36:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.8109553**	**1.717953**	**1.041669**	**2.035968**	**.8262483**	**1.988089**	**.4055470**
Stddev	.0043398	.007185	.000670	.002566	.0021940	.008294	.0032698
%RSD	.5351476	.4182067	.0643544	.1260541	.2655343	.4171816	.8062609
#1	.8059460	1.709662	1.041790	2.035148	.8254652	1.979043	.4018859
#2	.8133407	1.721832	1.042271	2.038844	.8245534	1.989888	.4081767
#3	.8135791	1.722364	1.040947	2.033911	.8287264	1.995335	.4065785

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2039441**	**.1996926**	**49.43884**	**.4119225**	**.2079649**	**.3203836**	**3.164681**
Stddev	.0015277	.0000975	.08068	.0016501	.0001569	.0006217	.019048
%RSD	.7490758	.0488288	.1631882	.4005849	.0754673	.1940388	.6018849
#1	.2022398	.1998029	49.34701	.4123498	.2079308	.3210595	3.186251
#2	.2044019	.1996180	49.47121	.4101008	.2081361	.3198363	3.157620
#3	.2051906	.1996569	49.49831	.4133169	.2078278	.3202549	3.150171

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4772624**	**3.104481**	**.5071702**	**.0721119**	**294.9468**	**.3050374**	**.5601558**
Stddev	.0041072	.013470	.0005674	.0012315	1.8770	.0019306	.0008584
%RSD	.8605637	.4338892	.1118755	1.707818	.6363778	.6329194	.1532498
#1	.4729057	3.106529	.5077259	.0719635	296.5554	.3033187	.5605154
#2	.4810634	3.090104	.5071927	.0734109	292.8846	.3071263	.5591760
#3	.4778182	3.116809	.5065918	.0709613	295.4003	.3046671	.5607759

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.08091**	**.2788652**	**.4415934**	**.7203999**	**.2017372**	**2.158656**	**6.191542**
Stddev	.06735	.0025017	.0003244	.0008368	.0020306	.020931	.016248
%RSD	.5575184	.8970859	.0734625	.1161514	1.006538	.9696448	.2624203
#1	12.10998	.2763680	.4413439	.7195160	.2038235	2.181786	6.177232
#2	12.12884	.2788562	.4414762	.7211798	.2016206	2.141019	6.209205
#3	12.00390	.2813713	.4419601	.7205039	.1997675	2.153164	6.188191

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-04A Acquired: 10/28/2025 19:36:20 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7698115	.1962856	.2907053
Stddev	.0011852	.0011629	.0014908
%RSD	.1539570	.5924734	.5128369
#1	.7686082	.1970618	.2889999
#2	.7698487	.1949485	.2917612
#3	.7709776	.1968466	.2913547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5353.999	84587.85	6789.602	4041.942	6174.639
Stddev	4.696	231.09	51.617	15.844	3.817
%RSD	.0877093	.2731917	.7602412	.3920015	.0618194
#1	5348.621	84473.94	6839.148	4039.163	6171.049
#2	5357.291	84853.78	6793.519	4058.992	6174.220
#3	5356.084	84435.84	6736.137	4027.671	6178.649

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-08 Acquired: 10/28/2025 19:40:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002934**	**-.007302**	**.0238975**	**.0028322**	**.0041702**	**.1612895**	**.1385719**
Stddev	.000150	.001269	.0004716	.0011184	.0013075	.0033617	.0010988
%RSD	5.110310	17.38236	1.973453	39.48857	31.35388	2.084253	.7929586
#1	-.002980	-.007436	.0240165	.0037200	.0056005	.1606764	.1390040
#2	-.003055	-.005971	.0242981	.0015761	.0030364	.1582766	.1393891
#3	-.002766	-.008499	.0233777	.0032004	.0038736	.1649155	.1373228

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000142**	**.0000823**	**14.26904**	**.0013167**	**.0176821**	**.0298531**	**.0343893**
Stddev	.000088	.0000620	.04173	.0000308	.0001025	.0002831	.0016220
%RSD	61.91786	75.27741	.2924545	2.338273	.5795241	.9484283	4.716556
#1	-.000137	.0001052	14.30832	.0013273	.0175699	.0301194	.0325232
#2	-.000057	.0000122	14.27357	.0013407	.0177055	.0298843	.0351840
#3	-.000233	.0001295	14.22523	.0012820	.0177708	.0295557	.0354607

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3583368**	**.2425671**	**.0032905**	**-.000893**	**310.6903**	**-.002727**	**.0871013**
Stddev	.0020968	.0340790	.0000964	.000325	4.0622	.005101	.0001020
%RSD	.5851500	14.04932	2.929405	36.41674	1.307491	187.0558	.1171200
#1	.3577402	.2713844	.0033056	-.000520	311.6157	-.000695	.0870123
#2	.3606673	.2513652	.0033785	-.001040	306.2452	-.008530	.0872126
#3	.3566030	.2049517	.0031875	-.001118	314.2100	.001045	.0870791

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.192757**	**-.000136**	**.0008368**	**-.014009**	**.0001047**	**.5761384**	**.0112715**
Stddev	.066050	.000504	.0000473	.000483	.0008618	.0102281	.0013151
%RSD	3.012173	371.5840	5.646606	3.444647	822.9789	1.775293	11.66710
#1	2.144725	-.000005	.0008230	-.014280	.0010998	.5644185	.0119805
#2	2.165468	.000290	.0007980	-.014295	-.000402	.5832625	.0120799
#3	2.268078	-.000691	.0008894	-.013452	-.000384	.5807341	.0097541

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-08 Acquired: 10/28/2025 19:40:29 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4219813	-.003969	.0222189
Stddev	.0023013	.002081	.0001031
%RSD	.5453484	52.42887	.4637834
#1	.4242646	-.005104	.0221442
#2	.4196624	-.005235	.0223364
#3	.4220169	-.001567	.0221759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5365.552	85071.60	6886.121	4056.705	6277.786
Stddev	10.811	86.90	56.860	23.402	10.060
%RSD	.2014831	.1021473	.8257229	.5768633	.1602530
#1	5364.044	84987.22	6853.343	4052.765	6278.041
#2	5355.575	85066.76	6853.243	4035.524	6267.600
#3	5377.038	85160.82	6951.777	4081.827	6287.716

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-12 Acquired: 10/28/2025 19:44:52 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003482**	**-.007447**	**.0207277**	**.0058912**	**.0006483**	**.1009452**	**.1186446**
Stddev	.000917	.002136	.0015527	.0006909	.0012325	.0065501	.0006357
%RSD	26.32079	28.68092	7.490756	11.72841	190.0928	6.488782	.5357960
#1	-.003053	-.004981	.0220327	.0064396	.0016207	.1077254	.1188439
#2	-.002859	-.008639	.0190106	.0061188	.0010622	.0946524	.1191568
#3	-.004535	-.008719	.0211399	.0051152	-.000738	.1004580	.1179332

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000107**	**.0000610**	**4.227089**	**.0012690**	**.0273318**	**.0555995**	**.1123052**
Stddev	.000016	.0000925	.020617	.0000614	.0009384	.0018996	.0105616
%RSD	14.79871	151.6125	.4877409	4.837322	3.433185	3.416516	9.404374
#1	-.000091	.0000207	4.207221	.0012783	.0284149	.0577745	.1149599
#2	-.000107	-.000004	4.225665	.0012034	.0268170	.0547570	.1212862
#3	-.000123	.000167	4.248382	.0013251	.0267636	.0542668	.1006695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3112974**	**.2958998**	**.0166167**	**-.000787**	**328.0422**	**-.001637**	**.0618533**
Stddev	.0024582	.0124879	.0005870	.000381	3.8577	.002840	.0004155
%RSD	.7896540	4.220319	3.532711	48.37447	1.175987	173.5271	.6717090
#1	.3140513	.2832387	.0172927	-.000807	327.0338	-.004231	.0618771
#2	.3093248	.3082070	.0163214	-.000397	332.3040	-.002078	.0622564
#3	.3105163	.2962537	.0162360	-.001157	324.7888	.001398	.0614265

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.986305**	**.0011100**	**.0007697**	**-.014116**	**.0045866**	**.6844172**	**.0123319**
Stddev	.051453	.0002392	.0001644	.000341	.0022619	.0130779	.0002513
%RSD	2.590394	21.55300	21.36526	2.417914	49.31399	1.910803	2.037569
#1	2.020692	.0013508	.0008002	-.014107	.0020494	.6711165	.0126218
#2	2.011071	.0011069	.0005921	-.013780	.0063918	.6848750	.0121786
#3	1.927153	.0008723	.0009167	-.014462	.0053187	.6972602	.0121951

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-12 Acquired: 10/28/2025 19:44:52 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1634106	-.002302	.0094150
Stddev	.0075810	.002088	.0000485
%RSD	4.639215	90.71254	.5154550
#1	.1719881	-.004346	.0094629
#2	.1606353	-.002386	.0093658
#3	.1576083	-.000173	.0094162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5236.807	85007.24	6938.468	4053.184	6137.117
Stddev	139.186	566.10	31.449	32.721	169.946
%RSD	2.657847	.6659450	.4532591	.8072907	2.769143
#1	5076.092	85350.70	6970.547	4059.235	5940.925
#2	5318.051	84353.85	6937.168	4017.860	6238.860
#3	5316.279	85317.18	6907.689	4082.457	6231.564

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-16 Acquired: 10/28/2025 19:49:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001620**	**-.007060**	**.0690133**	**.0020451**	**.0020329**	**.0615301**	**.2390746**
Stddev	.001008	.003040	.0004246	.0024824	.0010618	.0071671	.0014905
%RSD	62.22231	43.05849	.6152724	121.3838	52.23149	11.64805	.6234480
#1	-.000785	-.006721	.0691986	.0049026	.0017926	.0687634	.2379863
#2	-.002741	-.010256	.0693138	.0004206	.0031943	.0544312	.2384640
#3	-.001336	-.004204	.0685275	.0008120	.0011119	.0613957	.2407734

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000080**	**.0009935**	**23.32168**	**.0012543**	**.0038081**	**.1420999**	**.0592828**
Stddev	.000028	.0000576	.05970	.0003178	.0002266	.0006769	.0047603
%RSD	34.67384	5.796851	.2560025	25.33727	5.951522	.4763838	8.029821
#1	-.000051	.0009658	23.29306	.0009934	.0035695	.1425086	.0546653
#2	-.000106	.0009550	23.39031	.0016082	.0040206	.1424726	.0590091
#3	-.000084	.0010597	23.28168	.0011611	.0038343	.1413185	.0641740

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3609135**	**1.193701**	**.0029005**	**-.001221**	**342.2001**	**.0002277**	**.1592701**
Stddev	.0017851	.012915	.0001999	.000354	2.0238	.0048526	.0005026
%RSD	.4946043	1.081953	6.891425	28.99123	.5913987	2130.840	.3155664
#1	.3592779	1.203267	.0028395	-.000828	341.3326	-.002326	.1588434
#2	.3606450	1.198827	.0031238	-.001320	340.7547	.005824	.1591429
#3	.3628176	1.179010	.0027382	-.001515	344.5130	-.002815	.1598241

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.006878**	**.0069277**	**.0005455**	**-.014564**	**.0010759**	**.9434937**	**.0187942**
Stddev	.022634	.0009129	.0000508	.000221	.0018277	.0084358	.0008412
%RSD	1.127834	13.17750	9.316517	1.518532	169.8732	.8941019	4.475679
#1	2.010194	.0060689	.0005253	-.014572	-.000690	.9356108	.0194745
#2	2.027672	.0068279	.0006033	-.014782	.000959	.9424797	.0178537
#3	1.982769	.0078864	.0005078	-.014340	.002959	.9523907	.0190545

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-16 Acquired: 10/28/2025 19:49:15 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2873011	-.006095	.0537330
Stddev	.0013595	.003356	.0001462
%RSD	.4732082	55.05855	.2721193
#1	.2857478	-.002448	.0536187
#2	.2882747	-.006782	.0538978
#3	.2878808	-.009053	.0536825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5349.556	85585.18	6880.764	4134.711	6213.763
Stddev	20.129	165.45	61.418	13.804	16.658
%RSD	.3762734	.1933160	.8926010	.3338507	.2680889
#1	5331.981	85593.52	6951.458	4129.315	6200.471
#2	5345.171	85415.72	6850.307	4150.398	6208.367
#3	5371.516	85746.31	6840.528	4124.421	6232.450

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-20 Acquired: 10/28/2025 19:53:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.001901**	**-.007828**	**.0793856**	**.0051059**	**.0021895**	**.0899857**	**.2126044**
Stddev	.001019	.001593	.0016082	.0013190	.0005523	.0019522	.0010186
%RSD	53.61736	20.34415	2.025802	25.83294	25.22427	2.169492	.4791079
#1	-.001171	-.006856	.0804111	.0065555	.0015753	.0920116	.2124943
#2	-.003066	-.009666	.0802135	.0039763	.0023480	.0881166	.2116453
#3	-.001467	-.006963	.0775321	.0047860	.0026452	.0898289	.2136735

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000211**	**.0007233**	**33.26457**	**.0021960**	**.0097635**	**.0340950**	**.0745803**
Stddev	.000035	.0000666	.09538	.0009788	.0002270	.0004840	.0037051
%RSD	16.80173	9.212612	.2867234	44.57261	2.325324	1.419695	4.967955
#1	-.000172	.0006486	33.17010	.0019231	.0098157	.0335364	.0727681
#2	-.000241	.0007765	33.26278	.0032824	.0095149	.0343904	.0788427
#3	-.000219	.0007449	33.36083	.0013827	.0099598	.0343583	.0721301

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3523562**	**1.081605**	**.0035585**	**-.001164**	**334.7320**	**-.001621**	**.1270611**
Stddev	.0007892	.049243	.0001903	.000251	3.1002	.002823	.0005462
%RSD	.2239770	4.552778	5.348938	21.58908	.9261776	174.1384	.4298444
#1	.3517193	1.101617	.0037645	-.001242	336.9879	-.001439	.1265184
#2	.3521102	1.025506	.0033891	-.000883	331.1968	-.004530	.1270541
#3	.3532391	1.117691	.0035220	-.001367	336.0112	.001107	.1276107

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.299817**	**.0020963**	**.0013148**	**-.014889**	**.0021128**	**.9316560**	**.0144960**
Stddev	.018411	.0003175	.0002022	.000339	.0010781	.0127315	.0012241
%RSD	.8005328	15.14371	15.38060	2.276098	51.02930	1.366549	8.444698
#1	2.298962	.0018515	.0011209	-.015281	.0030714	.9174157	.0158324
#2	2.281848	.0019825	.0012991	-.014685	.0009456	.9356138	.0134291
#3	2.318640	.0024550	.0015244	-.014703	.0023213	.9419386	.0142264

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3460-20 Acquired: 10/28/2025 19:53:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.3771793	-.007947	.0717956
Stddev	.0004332	.002419	.0001344
%RSD	.1148483	30.43985	.1872132
#1	.3773765	-.007392	.0717431
#2	.3774788	-.005853	.0716953
#3	.3766826	-.010595	.0719483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5327.597	83410.86	6841.445	4027.136	6165.644
Stddev	11.462	200.04	28.558	23.916	15.299
%RSD	.2151390	.2398215	.4174204	.5938665	.2481392
#1	5318.520	83561.25	6874.404	4039.476	6149.831
#2	5323.794	83487.50	6824.076	4042.363	6166.730
#3	5340.477	83183.83	6825.854	3999.571	6180.372

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV09 Acquired: 10/28/2025 19:58:00 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.987443**	**4.668960**	**4.957260**	**4.999229**	**4.980257**	**9.843036**
Stddev	.009096	.154335	.007171	.016130	.006639	.002326
%RSD	.1823873	3.305565	.1446476	.3226447	.1333123	.0236290
#1	4.996742	4.840492	4.949736	5.012816	4.973520	9.843111
#2	4.978563	4.625052	4.964014	4.981403	4.980458	9.845323
#3	4.987024	4.541336	4.958032	5.003467	4.986795	9.840673

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.34515**	**.2619072**	**2.531571**	**25.51153**	**1.010904**	**2.544728**
Stddev	.06024	.0004785	.001126	.07852	.003095	.000479
%RSD	.5822690	.1826942	.0444971	.3077770	.3062041	.0188168
#1	10.41164	.2620865	2.532218	25.59547	1.009355	2.544645
#2	10.29421	.2613650	2.532224	25.43988	1.008889	2.545243
#3	10.32961	.2622702	2.530270	25.49923	1.014469	2.544297

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.271679**	**5.120055**	**2.618311**	**25.25873**	**2.530632**	**1.278102**
Stddev	.001496	.012832	.014714	.05224	.000348	.002746
%RSD	.1176427	.2506215	.5619628	.2068248	.0137658	.2148796
#1	1.271322	5.134836	2.635298	25.23179	2.530614	1.281098
#2	1.270394	5.111769	2.609555	25.22547	2.530990	1.275705
#3	1.273322	5.113560	2.610079	25.31894	2.530294	1.277502

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.94889**	**2.521908**	**2.564011**	**25.59627**	**5.222776**	**5.087211**
Stddev	.26589	.003420	.002953	.12039	.002017	.005527
%RSD	.9513270	.1356243	.1151591	.4703496	.0386108	.1086526
#1	28.25504	2.520134	2.566985	25.73418	5.223154	5.092967
#2	27.81574	2.519738	2.561080	25.51216	5.220597	5.081945
#3	27.77588	2.525850	2.563966	25.54246	5.224576	5.086721

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV09 Acquired: 10/28/2025 19:58:00 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.115759**	**5.112018**	**4.964824**	**5.216502**	**5.071089**	**5.107003**
Stddev	.006991	.018074	.032209	.027362	.036134	.023206
%RSD	.1366531	.3535681	.6487378	.5245333	.7125480	.4544033
#1	5.121974	5.132887	4.929117	5.246413	5.106641	5.133020
#2	5.117113	5.101388	4.973668	5.192733	5.034400	5.088438
#3	5.108191	5.101778	4.991686	5.210359	5.072226	5.099551

Elem	Sr4077
Units	ppm
Avg	**5.056255**
Stddev	.028026
%RSD	.5542862
#1	5.088611
#2	5.039547
#3	5.040608

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5514.635**	**87445.81**	**6768.225**	**4171.334**	**6349.936**
Stddev	2.334	256.47	17.973	22.598	7.106
%RSD	.0423178	.2932861	.2655500	.5417517	.1119064
#1	5517.325	87514.93	6769.816	4164.894	6347.562
#2	5513.418	87660.63	6785.350	4196.453	6344.321
#3	5513.161	87161.86	6749.510	4152.654	6357.925

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB09 Acquired: 10/28/2025 20:02:03 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000894**	**-.006222**	**.0008053**	**-.001755**	**-.000952**	**.0017013**	**.0023815**
Stddev	.001517	.000942	.0004874	.002643	.001582	.0016415	.0006544
%RSD	169.6671	15.13948	60.52304	150.5932	166.1594	96.48929	27.47915
#1	-.002314	-.005771	.0013415	-.000094	-.000924	.0032885	.0018761
#2	-.001072	-.007305	.0003890	-.004803	-.002548	.0018050	.0031207
#3	.000704	-.005590	.0006856	-.000369	.000616	.0000103	.0021478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000038**	**.0000613**	**-.000755**	**.0001471**	**-.000058**	**-.000078**	**.0041513**
Stddev	.000045	.0000397	.009590	.0001579	.000045	.000182	.0031558
%RSD	117.3262	64.72682	1269.934	107.3698	77.62945	233.6006	76.01852
#1	-.000005	.0000180	.010041	.0001575	-.000078	.000083	.0005097
#2	-.000020	.0000701	-.008284	.0002994	-.000089	-.000276	.0058597
#3	-.000089	.0000959	-.004023	-.000016	-.000006	-.000041	.0060846

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003546**	**.0250863**	**-.000053**	**-.001015**	**.8325837**	**-.000202**	**.0004160**
Stddev	.0009900	.0176075	.000217	.000223	.0233776	.000636	.0001540
%RSD	279.2087	70.18782	409.6603	21.92074	2.807833	315.4839	37.01385
#1	-.000061	.0452692	-.000302	-.000769	.8536068	.000365	.0004978
#2	-.000360	.0128708	.000096	-.001203	.8074082	-.000081	.0005118
#3	.001485	.0171189	.000047	-.001073	.8367361	-.000890	.0002384

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2891461**	**-.000805**	**.0006258**	**.0005380**	**.0016924**	**-.007563**	**.0012874**
Stddev	.0025818	.000462	.0001802	.0002067	.0020782	.015839	.0005914
%RSD	.8929098	57.41392	28.78932	38.42330	122.7946	209.4176	45.93786
#1	.2920008	-.000279	.0007223	.0007766	.0009030	-.014981	.0010630
#2	.2884628	-.000989	.0007373	.0004252	.0001246	-.018332	.0019581
#3	.2869747	-.001146	.0004180	.0004122	.0040496	.010623	.0008410

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB09 Acquired: 10/28/2025 20:02:03 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.000423	.0084579	.0000130
Stddev	.003514	.0009693	.0001103
%RSD	830.0844	11.46014	846.6632
#1	-.002141	.0073424	-.000058
#2	.003619	.0089363	.000140
#3	-.002749	.0090950	-.000043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5754.082	92969.38	6900.442	4365.595	7397.446
Stddev	8.719	237.79	24.775	9.022	16.319
%RSD	.1515290	.2557775	.3590289	.2066544	.2206015
#1	5750.658	92695.47	6879.260	4355.358	7388.430
#2	5747.595	93122.94	6927.685	4372.387	7387.624
#3	5763.994	93089.73	6894.380	4369.038	7416.284

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3466-03 Acquired: 10/28/2025 20:06:22 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003033**	**-.007693**	**.0109333**	**.0037125**	**.0022461**	**.0258009**	**.2179900**
Stddev	.001292	.002177	.0011100	.0011682	.0008089	.0024717	.0003487
%RSD	42.61021	28.29922	10.15273	31.46530	36.01584	9.579825	.1599642
#1	-.004348	-.005574	.0100937	.0030019	.0013284	.0252181	.2181256
#2	-.002986	-.007581	.0105143	.0050608	.0028558	.0236727	.2175939
#3	-.001765	-.009924	.0121918	.0030749	.0025541	.0285119	.2182505

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000130**	**.0001789**	**9.989359**	**.0027742**	**-.000121**	**.0010378**	**.0209457**
Stddev	.000053	.0000188	.024444	.0004111	.000174	.0001604	.0017770
%RSD	40.71960	10.50497	.2446985	14.81878	143.5988	15.45506	8.484044
#1	-.000179	.0001584	10.01209	.0025186	.000061	.0010780	.0211298
#2	-.000139	.0001953	9.96350	.0025557	-.000138	.0008611	.0190838
#3	-.000073	.0001831	9.99248	.0032485	-.000286	.0011742	.0226235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0425416**	**.6474506**	**.0010489**	**-.001473**	**249.5044**	**-.001988**	**.0794889**
Stddev	.0006494	.0065271	.0005100	.000299	1.4588	.003304	.0005397
%RSD	1.526580	1.008130	48.62130	20.26974	.5846641	166.1657	.6789525
#1	.0431025	.6436859	.0006023	-.001705	247.8984	-.001007	.0791280
#2	.0426923	.6549875	.0009397	-.001577	250.7473	-.005672	.0792294
#3	.0418301	.6436783	.0016047	-.001136	249.8677	.000713	.0801093

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8143934**	**.0174055**	**.0008274**	**-.013809**	**.0010123**	**.4593886**	**.0147684**
Stddev	.0217630	.0004370	.0003314	.000811	.0001627	.0110503	.0003602
%RSD	2.672289	2.510552	40.04584	5.870874	16.07215	2.405431	2.438957
#1	.7904663	.0177072	.0006500	-.013231	.0010209	.4549220	.0145241
#2	.8330087	.0176049	.0012097	-.013461	.0011706	.4512707	.0145990
#3	.8197051	.0169044	.0006226	-.014736	.0008455	.4719730	.0151820

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3466-03 Acquired: 10/28/2025 20:06:22 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2953616	-.006616	.0903091
Stddev	.0008070	.001875	.0003113
%RSD	.2732231	28.34075	.3446525
#1	.2962903	-.005214	.0904843
#2	.2949637	-.008745	.0899498
#3	.2948308	-.005888	.0904934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5378.599	85936.32	6959.191	4090.264	6336.525
Stddev	9.589	513.29	57.344	31.612	12.112
%RSD	.1782717	.5972870	.8239970	.7728661	.1911424
#1	5367.546	86522.76	6907.861	4125.866	6322.623
#2	5383.569	85717.46	7021.080	4065.485	6344.799
#3	5384.684	85568.75	6948.632	4079.440	6342.153

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3469-04 Acquired: 10/28/2025 20:10:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.000460**	**-.007090**	**.0109765**	**.0040977**	**.0020651**	**.0436235**	**.1118786**
Stddev	.001795	.003586	.0015023	.0024133	.0020864	.0026516	.0002935
%RSD	389.9424	50.57731	13.68628	58.89458	101.0343	6.078341	.2622930
#1	.001578	-.003600	.0108502	.0060666	.0004135	.0411417	.1115908
#2	-.001805	-.010764	.0095413	.0014054	.0044099	.0433116	.1118677
#3	-.001153	-.006906	.0125379	.0048211	.0013718	.0464173	.1121774

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000148**	**-.000027**	**4.875647**	**.0014829**	**-.000291**	**.0063744**	**.0257033**
Stddev	.000054	.000044	.032116	.0002926	.000087	.0003679	.0043096
%RSD	36.44886	162.9003	.6586965	19.73011	29.82985	5.771618	16.76661
#1	-.000155	.000010	4.848579	.0018178	-.000196	.0067377	.0217870
#2	-.000091	-.000016	4.867227	.0013545	-.000366	.0063834	.0250025
#3	-.000198	-.000076	4.911133	.0012765	-.000311	.0060021	.0303202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176676**	**.2302108**	**.0000634**	**-.001208**	**345.8321**	**.0004100**	**.0378075**
Stddev	.0004854	.0376581	.0001266	.000610	3.4644	.0036239	.0002320
%RSD	2.747310	16.35811	199.4769	50.45204	1.001744	883.9457	.6136036
#1	.0177004	.2722656	.0001873	-.001552	349.4213	-.000271	.0376735
#2	.0171666	.1996085	.0000687	-.000504	342.5078	-.002825	.0380753
#3	.0181357	.2187583	-.000066	-.001568	345.5673	.004326	.0376736

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8797529**	**.0054994**	**.0008016**	**.0070435**	**.0007093**	**.4619566**	**.0758023**
Stddev	.0237638	.0005910	.0002066	.0006480	.0021764	.0253388	.0014386
%RSD	2.701186	10.74761	25.77050	9.200614	306.8339	5.485113	1.897818
#1	.9057289	.0048276	.0010380	.0066768	-.001112	.4881173	.0742696
#2	.8591066	.0059395	.0006560	.0077918	.000120	.4602241	.0760139
#3	.8744231	.0057311	.0007107	.0066621	.003120	.4375285	.0771234

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3469-04 Acquired: 10/28/2025 20:10:47 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1503764	-.004141	.0743146
Stddev	.0023939	.001802	.0004125
%RSD	1.591959	43.52412	.5551007
#1	.1529205	-.003957	.0738987
#2	.1481682	-.002438	.0743215
#3	.1500405	-.006028	.0747237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5266.979	82940.55	6912.837	3972.475	6158.880
Stddev	26.542	208.67	47.389	5.913	25.111
%RSD	.5039268	.2515930	.6855217	.1488501	.4077160
#1	5246.988	82702.11	6964.875	3966.556	6142.979
#2	5256.858	83029.69	6901.470	3972.487	6145.833
#3	5297.093	83089.85	6872.165	3978.382	6187.829

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-05 Acquired: 10/28/2025 20:15:13 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003381**	**-.005590**	**.0036111**	**.0084676**	**.0036646**	**.0111563**	**.1297967**
Stddev	.001963	.003812	.0013031	.0014005	.0026434	.0088605	.0007080
%RSD	58.07116	68.19376	36.08574	16.53905	72.13301	79.42176	.5454544
#1	-.002553	-.009552	.0049357	.0090202	.0008392	.0015616	.1297621
#2	-.001967	-.001948	.0023307	.0068752	.0040771	.0190302	.1291066
#3	-.005623	-.005271	.0035668	.0095075	.0060774	.0128772	.1305213

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000152**	**.0019264**	**.4617032**	**.0021617**	**-.000296**	**.0057033**	**.1349644**
Stddev	.000042	.0000715	.0047926	.0002515	.000266	.0003423	.0037161
%RSD	27.47771	3.711992	1.038036	11.63308	90.03314	6.000994	2.753399
#1	-.000162	.0020031	.4667967	.0021160	-.000600	.0054767	.1374244
#2	-.000189	.0019147	.4610304	.0024329	-.000187	.0055362	.1306896
#3	-.000106	.0018615	.4572825	.0019362	-.000101	.0060970	.1367793

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081192**	**.0354938**	**.0005333**	**-.001361**	**306.3892**	**-.001866**	**.2328048**
Stddev	.0005064	.0179290	.0002751	.000810	4.4039	.002844	.0010420
%RSD	6.236782	50.51299	51.57773	59.51325	1.437357	152.4089	.4475636
#1	.0077791	.0554267	.0002602	-.001895	307.7918	-.005016	.2331832
#2	.0087011	.0303707	.0008103	-.001760	301.4548	-.001098	.2316266
#3	.0078774	.0206840	.0005295	-.000429	309.9209	.000515	.2336047

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254641**	**.0140440**	**.0006413**	**-.012973**	**.0013894**	**.0286904**	**.0231781**
Stddev	.0584065	.0006109	.0001310	.000757	.0018518	.0159380	.0009663
%RSD	229.3679	4.349871	20.43095	5.836915	133.2808	55.55178	4.169168
#1	.0707405	.0142893	.0004932	-.013817	.0002869	.0245324	.0221024
#2	.0461139	.0144941	.0006888	-.012352	.0035273	.0462953	.0239728
#3	-.040462	.0133486	.0007420	-.012750	.0003540	.0152435	.0234591

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-05 Acquired: 10/28/2025 20:15:13 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2121509	-.003304	.0028405
Stddev	.0010741	.000357	.0001452
%RSD	.5062996	10.79620	5.110437
#1	.2133295	-.003025	.0027091
#2	.2118961	-.003706	.0028160
#3	.2112270	-.003180	.0029963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5260.202	84529.21	6926.085	4055.123	6209.014
Stddev	18.884	712.20	12.721	20.750	20.311
%RSD	.3590022	.8425473	.1836731	.5116969	.3271270
#1	5281.368	84627.04	6940.739	4052.961	6230.733
#2	5254.159	85187.43	6919.633	4076.869	6205.818
#3	5245.079	83773.15	6917.882	4035.539	6190.490

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-07 Acquired: 10/28/2025 20:19:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002517**	**-.006618**	**.0021858**	**.0028353**	**.0033168**	**.0056208**	**.1463952**
Stddev	.000802	.001807	.0005158	.0003894	.0012779	.0103631	.0008580
%RSD	31.87527	27.31334	23.59824	13.73495	38.52804	184.3714	.5860483
#1	-.002621	-.008529	.0027578	.0024149	.0046547	-.006340	.1470734
#2	-.003263	-.006388	.0020436	.0031837	.0031869	.011299	.1466814
#3	-.001668	-.004936	.0017560	.0029073	.0021088	.011904	.1454307

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000203**	**.0001404**	**.2306994**	**.0026095**	**-.000220**	**.0216645**	**.0263841**
Stddev	.000029	.0000402	.0163145	.0000334	.000040	.0002108	.0063682
%RSD	14.00639	28.58733	7.071733	1.278942	18.09665	.9727723	24.13641
#1	-.000194	.0001568	.2183436	.0025848	-.000191	.0214220	.0314855
#2	-.000181	.0000947	.2245622	.0026475	-.000203	.0217688	.0192470
#3	-.000235	.0001698	.2491924	.0025963	-.000265	.0218028	.0284197

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022072**	**-.001412**	**.0004009**	**-.001604**	**248.4789**	**-.000812**	**.2318912**
Stddev	.0004609	.019837	.0000875	.000236	2.3968	.001531	.0001549
%RSD	20.88122	1405.096	21.81742	14.68989	.9645734	188.5877	.0667928
#1	.0026220	.015672	.0003142	-.001378	250.7561	.000422	.2317410
#2	.0022886	.003260	.0004891	-.001585	245.9782	-.002526	.2320504
#3	.0017111	-.023168	.0003993	-.001848	248.7025	-.000332	.2318821

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1734906**	**.0153172**	**.0005343**	**-.014114**	**.0009406**	**.0050282**	**.0180944**
Stddev	.0470120	.0004946	.0001475	.000090	.0008785	.0070751	.0010885
%RSD	27.09773	3.228919	27.60151	.6400028	93.39347	140.7082	6.015849
#1	.2004844	.0151653	.0006072	-.014046	.0018607	.0014018	.0168530
#2	.2007813	.0158698	.0006312	-.014079	.0001108	.0005016	.0185442
#3	.1192061	.0149163	.0003646	-.014217	.0008503	.0131812	.0188859

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-07 Acquired: 10/28/2025 20:19:38 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.1864990	-.007636	.0028597
Stddev	.0014130	.000360	.0000103
%RSD	.7576325	4.718414	.3620878
#1	.1860828	-.007551	.0028611
#2	.1880733	-.007326	.0028693
#3	.1853408	-.008031	.0028487

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5347.429	85895.60	6888.190	4096.096	6362.529
Stddev	3.835	246.40	11.668	11.871	9.875
%RSD	.0717105	.2868611	.1693944	.2898108	.1552056
#1	5345.436	86177.41	6890.389	4097.945	6358.698
#2	5345.000	85788.65	6875.579	4083.409	6355.144
#3	5351.849	85720.74	6898.602	4106.934	6373.746

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-09 Acquired: 10/28/2025 20:24:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.002429**	**-.007956**	**.0040999**	**.0057672**	**.0019355**	**.0152552**	**.1496901**
Stddev	.001117	.000623	.0007803	.0017055	.0017264	.0051209	.0012981
%RSD	45.97202	7.828384	19.03208	29.57185	89.19497	33.56812	.8671810
#1	-.003630	-.007315	.0049063	.0049959	.0037562	.0163029	.1490017
#2	-.001421	-.008559	.0033486	.0077221	.0003221	.0197712	.1511874
#3	-.002237	-.007995	.0040447	.0045837	.0017283	.0096915	.1488813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000188**	**.0000043**	**.9340585**	**.0117115**	**-.000244**	**.0091139**	**.1928057**
Stddev	.000044	.0000284	.0161142	.0001656	.000048	.0003999	.0012091
%RSD	23.57990	658.8158	1.725176	1.413739	19.53879	4.388188	.6270923
#1	-.000220	.0000022	.9189962	.0117176	-.000204	.0091607	.1915982
#2	-.000206	-.000023	.9321287	.0118740	-.000297	.0086926	.1940164
#3	-.000137	.000034	.9510507	.0115430	-.000233	.0094883	.1928024

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0277008**	**.0591977**	**.0072432**	**-.001394**	**347.9522**	**-.000238**	**.1809005**
Stddev	.0004869	.0257171	.0004643	.000301	6.6495	.002849	.0008464
%RSD	1.757625	43.44271	6.410195	21.60351	1.911038	1199.000	.4678844
#1	.0271895	.0741030	.0071737	-.001327	350.6185	.000869	.1811177
#2	.0281589	.0295022	.0077383	-.001132	352.8547	.001892	.1816172
#3	.0277539	.0739879	.0068175	-.001723	340.3833	-.003474	.1799667

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1186640**	**.0113386**	**.0006877**	**-.013965**	**.0010906**	**.0489942**	**.0091421**
Stddev	.0281587	.0008887	.0000266	.000139	.0022185	.0238888	.0011047
%RSD	23.72979	7.837546	3.864089	.9943163	203.4313	48.75833	12.08398
#1	.1338833	.0120918	.0007129	-.014112	-.000475	.0295025	.0104173
#2	.0861708	.0115655	.0006599	-.013948	.000117	.0418366	.0084746
#3	.1359380	.0103585	.0006901	-.013836	.003629	.0756436	.0085345

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-09 Acquired: 10/28/2025 20:24:01 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.2483197	-.005350	.0055853
Stddev	.0006930	.001236	.0001268
%RSD	.2790617	23.10151	2.271217
#1	.2482927	-.004368	.0056938
#2	.2476406	-.004944	.0054458
#3	.2490258	-.006738	.0056163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5282.248	84366.32	6835.721	4025.575	6228.638
Stddev	4.346	375.27	25.456	27.708	7.666
%RSD	.0822698	.4448135	.3723923	.6883108	.1230817
#1	5277.767	83994.18	6823.881	3995.791	6221.633
#2	5282.532	84360.12	6864.940	4030.345	6227.454
#3	5286.445	84744.65	6818.342	4050.589	6236.827

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-11 Acquired: 10/28/2025 20:28:27 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.003772**	**-.007230**	**.0507575**	**.0049547**	**.0029119**	**.0247511**	**.2486953**
Stddev	.001705	.001877	.0002815	.0044432	.0021315	.0031442	.0014528
%RSD	45.19433	25.95834	.5546752	89.67563	73.19918	12.70333	.5841639
#1	-.005618	-.006931	.0505086	.0032033	.0047408	.0257348	.2476605
#2	-.003441	-.009239	.0507009	.0100067	.0005711	.0212326	.2480692
#3	-.002257	-.005521	.0510631	.0016541	.0034238	.0272858	.2503562

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000155**	**.0049903**	**3.085282**	**.0019391**	**-.000109**	**.0214645**	**.1268212**
Stddev	.000005	.0000750	.011107	.0002464	.000200	.0003456	.0092150
%RSD	2.998358	1.501980	.3599959	12.70659	184.5113	1.610168	7.266115
#1	-.000150	.0049927	3.073036	.0020227	-.000188	.0217986	.1187721
#2	-.000156	.0049142	3.094705	.0021328	-.000257	.0214864	.1368727
#3	-.000159	.0050640	3.088106	.0016618	.000119	.0211085	.1248188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0383019**	**.1337880**	**.0020510**	**-.000699**	**360.2211**	**-.000747**	**3.692143**
Stddev	.0006323	.0065649	.0000958	.000481	6.0953	.004430	.006062
%RSD	1.650766	4.906917	4.670643	68.76224	1.692088	592.9026	.1641949
#1	.0389091	.1317715	.0021467	-.000550	356.9377	-.004687	3.685163
#2	.0376472	.1284679	.0020514	-.001237	356.4715	-.001604	3.696094
#3	.0383494	.1411246	.0019551	-.000311	367.2542	.004049	3.695171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4379343**	**.0196662**	**-.000735**	**-.012921**	**.0017534**	**.1220103**	**.0912914**
Stddev	.0396869	.0004557	.000102	.000071	.0010026	.0082585	.0030787
%RSD	9.062288	2.317383	13.83406	.5531807	57.17879	6.768715	3.372336
#1	.4068123	.0196985	-.000783	-.012841	.0026966	.1229204	.0928088
#2	.4826263	.0201049	-.000619	-.012978	.0018632	.1297760	.0877486
#3	.4243643	.0191951	-.000804	-.012946	.0007005	.1133344	.0933168

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-11 Acquired: 10/28/2025 20:28:27 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.4735319	-.006359	.0291601
Stddev	.0030929	.000962	.0000250
%RSD	.6531515	15.12733	.0857268
#1	.4705500	-.005389	.0291378
#2	.4733207	-.006377	.0291871
#3	.4767250	-.007312	.0291553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5375.240	86828.81	6759.895	4115.366	6336.325
Stddev	10.911	267.74	31.279	8.400	6.089
%RSD	.2029786	.3083512	.4627148	.2041098	.0960980
#1	5386.576	86897.47	6777.714	4123.806	6343.346
#2	5364.812	86533.43	6778.193	4107.007	6332.491
#3	5374.331	87055.53	6723.779	4115.284	6333.137

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-13 Acquired: 10/28/2025 20:32:51 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**-.004147**	**-.007547**	**.0020935**	**.0071883**	**.0064108**	**.1525318**	**.2933736**
Stddev	.001420	.000396	.0002020	.0004035	.0010641	.0069622	.0004969
%RSD	34.24250	5.249060	9.649322	5.612822	16.59917	4.564402	.1693861
#1	-.005050	-.007232	.0018819	.0075124	.0059252	.1570808	.2933617
#2	-.002510	-.007417	.0021144	.0073161	.0076311	.1445169	.2928828
#3	-.004880	-.007992	.0022842	.0067364	.0056760	.1559977	.2938764

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000143**	**.0299410**	**7.429400**	**.0039695**	**.0016996**	**.0471439**	**.9350090**
Stddev	.000056	.0001099	.033343	.0002607	.0000919	.0000497	.0057482
%RSD	39.26922	.3671631	.4487921	6.567607	5.405324	.1054966	.6147775
#1	-.000159	.0298778	7.400627	.0036888	.0016130	.0471661	.9392128
#2	-.000080	.0298773	7.465941	.0042041	.0017959	.0470869	.9373555
#3	-.000188	.0300679	7.421633	.0040157	.0016898	.0471787	.9284587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0863647**	**.4884071**	**.0072996**	**-.000997**	**292.8106**	**-.000609**	**1.630633**
Stddev	.0006885	.0056881	.0001447	.000220	1.0620	.001561	.006697
%RSD	.7972006	1.164626	1.982548	22.09607	.3626902	256.2169	.4106892
#1	.0855724	.4947686	.0074528	-.000971	294.0364	-.002230	1.636996
#2	.0867042	.4838109	.0072810	-.000791	292.1680	-.000481	1.623646
#3	.0868175	.4866420	.0071652	-.001229	292.2275	.000884	1.631257

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9897937**	**.0458959**	**.0471092**	**-.008345**	**.0006687**	**.2849242**	**.1120253**
Stddev	.0475192	.0008699	.0000734	.000394	.0010942	.0122624	.0016233
%RSD	4.800921	1.895350	.1557953	4.717390	163.6304	4.303724	1.449069
#1	.9400707	.0448921	.0470299	-.008704	-.000087	.2848812	.1137935
#2	1.034750	.0463675	.0471748	-.008406	.000169	.2972081	.1106025
#3	.994561	.0464282	.0471230	-.007924	.001924	.2726835	.1116798

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-13 Acquired: 10/28/2025 20:32:51 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.7626039	.0147103	.0245167
Stddev	.0032712	.0011699	.0001629
%RSD	.4289479	7.952859	.6645100
#1	.7653557	.0157356	.0244220
#2	.7589872	.0134359	.0244233
#3	.7634688	.0149595	.0247048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5369.302	85728.94	7046.139	4052.203	6354.802
Stddev	6.589	233.33	56.883	22.872	5.442
%RSD	.1227188	.2721687	.8072866	.5644388	.0856390
#1	5374.386	85515.67	7103.595	4032.255	6360.691
#2	5371.662	85692.99	6989.848	4077.167	6353.759
#3	5361.858	85978.15	7044.976	4047.188	6349.957

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-15 Acquired: 10/28/2025 20:37:14 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0003679**	**-.005575**	**-.001245**	**.0038353**	**.0173306**	**.0218194**	**.1218009**
Stddev	.0017065	.000488	.000884	.0019176	.0009729	.0081569	.0003038
%RSD	463.8475	8.744492	70.96919	49.99853	5.614062	37.38351	.2494029
#1	.0020673	-.005781	-.002259	.0044972	.0177332	.0127476	.1221445
#2	.0003820	-.005927	-.000839	.0053343	.0162209	.0285487	.1215679
#3	-.001346	-.005019	-.000638	.0016744	.0180376	.0241620	.1216904

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000102**	**.0000704**	**8.319250**	**.0034043**	**.0023624**	**.0021963**	**4.615240**
Stddev	.000033	.0000632	.042094	.0000348	.0000642	.0002214	.020015
%RSD	31.82863	89.75890	.5059879	1.021744	2.715748	10.07817	.4336811
#1	-.000137	.0000922	8.299752	.0034250	.0022999	.0019909	4.600529
#2	-.000072	.0001197	8.290440	.0034238	.0024281	.0024308	4.638033
#3	-.000099	-.000001	8.367558	.0033642	.0023591	.0021673	4.607159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0762207**	**2.106254**	**.0045206**	**-.000905**	**247.8059**	**-.000198**	**7.946333**
Stddev	.0005769	.013049	.0000705	.000351	2.4451	.001711	.011748
%RSD	.7568674	.6195540	1.560460	38.78862	.9867059	865.3090	.1478420
#1	.0765963	2.107556	.0045408	-.000876	250.6288	.000296	7.935923
#2	.0765094	2.092603	.0044422	-.000569	246.3513	.001212	7.959070
#3	.0755565	2.118605	.0045788	-.001270	246.4376	-.002101	7.944006

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.878701**	**.0431926**	**.0059333**	**-.014421**	**.0007556**	**.2060080**	**.3015937**
Stddev	.040921	.0008625	.0002177	.000538	.0005672	.0125186	.0020964
%RSD	2.178149	1.996867	3.668227	3.730108	75.06835	6.076753	.6951150
#1	1.925936	.0427723	.0057114	-.014294	.0003567	.1925214	.2992180
#2	1.854018	.0426209	.0061465	-.013958	.0014049	.2172567	.3031840
#3	1.856148	.0441847	.0059419	-.015011	.0005052	.2082459	.3023793

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-15 Acquired: 10/28/2025 20:37:14 Type: Unk
Method: 6010-200.7 NEW(v320) 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	.8680158	.1097882	.0472043
Stddev	.0071401	.0017225	.0000956
%RSD	.8225761	1.568908	.2025879
#1	.8600791	.1091366	.0472557
#2	.8700511	.1084866	.0470940
#3	.8739173	.1117414	.0472633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.017	87098.21	7224.742	4073.635	6542.769
Stddev	7.273	225.61	38.716	22.959	6.837
%RSD	.1319993	.2590325	.5358758	.5635916	.1045005
#1	5507.846	87187.27	7230.608	4089.003	6548.291
#2	5518.128	86841.66	7260.191	4047.243	6544.895
#3	5504.076	87265.70	7183.429	4084.658	6535.122

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-17 Acquired: 10/28/2025 20:41:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0066903**	**-.005725**	**1.195585**	**.0000899**	**-.001789**	**.0052362**
Stddev	.0008826	.001077	.003448	.0038593	.001177	.0008530
%RSD	13.19274	18.80495	.2883731	4293.997	65.83143	16.29104
#1	.0071297	-.004575	1.199563	.0045404	-.000832	.0055177
#2	.0056742	-.006710	1.193746	-.002333	-.001430	.0059128
#3	.0072670	-.005889	1.193447	-.001937	-.003103	.0042780

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057285**	**-.000117**	**.0033340**	**2.128941**	**.0004074**	**-.000021**
Stddev	.0045860	.000063	.0000462	.217663	.0003543	.000179
%RSD	80.05581	53.81899	1.387128	10.22403	86.96219	866.7708
#1	.0029359	-.000183	.0033330	2.019912	.0001936	-.000091
#2	.0032284	-.000057	.0033808	1.987338	.0008163	.000183
#3	.0110213	-.000113	.0032883	2.379572	.0002122	-.000154

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.661504**	**.0936698**	**.0078226**	**.0023118**	**.0005311**	**.0000919**
Stddev	.001318	.0034975	.0006050	.0319766	.0002037	.0005334
%RSD	.0793292	3.733820	7.733525	1383.171	38.34589	580.6496
#1	1.662201	.0917848	.0072880	.0076247	.0007644	-.000519
#2	1.659984	.0977055	.0077006	-.031988	.0003886	.000327
#3	1.662328	.0915193	.0084793	.031299	.0004404	.000467

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.226603**	**-.001413**	**18.66685**	**-.182682**	**-.008376**	**-.007673**
Stddev	.025430	.003979	.03261	.018051	.000702	.000264
%RSD	11.22226	281.4826	.1747037	9.881172	8.382938	3.439351
#1	-.198959	-.000187	18.70153	-.167309	-.009186	-.007883
#2	-.231848	.001807	18.63680	-.202559	-.007935	-.007759
#3	-.249001	-.005861	18.66224	-.178178	-.008007	-.007376

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3472-17 Acquired: 10/28/2025 20:41:35 Type: Unk
Method: 6010-200.7 NEW(v320) 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	-.014400	.0014192	-.005783	.7083063	F 13.50059	-.003270
Stddev	.000321	.0022376	.008585	.0049177	.05707	.000272
%RSD	2.225901	157.6695	148.4535	.6942898	.4227068	8.328681
#1	-.014767	.0019374	-.008593	.7137261	13.54113	-.003583
#2	-.014172	-.001032	-.012610	.7070638	13.52530	-.003138
#3	-.014262	.003352	.003855	.7041291	13.43533	-.003089

Elem	Sr4077
Units	ppm
Avg	.0005927
Stddev	.0001377
%RSD	23.22390
#1	.0005035
#2	.0005234
#3	.0007513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5998.273	98727.24	7042.651	4621.718	7802.471
Stddev	7.780	429.00	600.384	8.706	7.047
%RSD	.1297102	.4345330	8.524975	.1883649	.0903181
#1	5998.728	99081.55	7411.272	4625.022	7803.993
#2	6005.816	98849.91	7366.819	4628.288	7808.632
#3	5990.275	98250.26	6349.862	4611.844	7794.787

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3465-01 Acquired: 10/28/2025 20:45:57 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**.0479522**	**-.016933**	**.1635959**	**-.002209**	**-.011056**	**138.3307**	**.5759230**
Stddev	.0006411	.002589	.0007450	.003253	.000649	.3534	.0010343
%RSD	1.337012	15.29092	.4553732	147.2606	5.869471	.2554922	.1795864
#1	.0473993	-.019312	.1628060	-.005316	-.010719	138.5944	.5754101
#2	.0486550	-.014175	.1636957	-.002482	-.010646	137.9291	.5752453
#3	.0478024	-.017314	.1642859	.001172	-.011804	138.4685	.5771134

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109076**	**.0097003**	**34.50196**	**.2576569**	**.1322172**	**.2639149**	**274.9337**
Stddev	.0000879	.0002173	.07789	.0008315	.0002666	.0011667	1.8056
%RSD	.8060358	2.240201	.2257429	.3227282	.2016516	.4420883	.6567331
#1	.0110086	.0099300	34.57171	.2569672	.1320294	.2651919	272.9918
#2	.0108480	.0096729	34.41792	.2585803	.1320997	.2636482	275.2473
#3	.0108662	.0094980	34.51626	.2574232	.1325224	.2629046	276.5619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.743322**	**42.63278**	**.2107941**	**.0060609**	**4.969842**	**.4910969**	**.4438356**
Stddev	.006202	.24966	.0003303	.0003728	.059813	.0015345	.0006287
%RSD	.2260756	.5856144	.1567115	6.151692	1.203523	.3124615	.1416450
#1	2.749517	42.88642	.2111711	.0057363	4.920034	.4899545	.4438826
#2	2.737113	42.38730	.2106554	.0059781	4.953310	.4904951	.4431848
#3	2.743335	42.62464	.2105557	.0064681	5.036183	.4928411	.4444395

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.86849**	**.1989048**	**.0068029**	**.0089034**	**7.529554**	**6.629306**	**7.011686**
Stddev	.03544	.0137068	.0003633	.0010416	.017428	.034613	.013980
%RSD	.3260779	6.891145	5.340909	11.69904	.2314585	.5221189	.1993769
#1	10.82876	.1849854	.0064121	.0077299	7.520846	6.611797	7.023878
#2	10.87987	.1993404	.0071306	.0092619	7.518196	6.669175	7.014751
#3	10.89685	.2123886	.0068658	.0097185	7.549620	6.606946	6.996428

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: Q3465-01 Acquired: 10/28/2025 20:45:57 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**2.061800**	**.1097500**	**-.134458**
Stddev	.013446	.0016197	.001421
%RSD	.6521437	1.475815	1.057027
#1	2.062246	.1079655	-.132865
#2	2.075017	.1101571	-.134916
#3	2.048137	.1111273	-.135595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7261.248**	**114180.9**	**9204.305**	**5473.334**	**6337.440**
Stddev	12.549	224.5	53.311	23.778	6.889
%RSD	.1728175	.1966205	.5791992	.4344418	.1087091
#1	7267.133	114421.0	9142.858	5483.976	6339.576
#2	7269.773	114145.6	9231.819	5489.933	6343.008
#3	7246.838	113976.2	9238.238	5446.093	6329.736

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV10 Acquired: 10/28/2025 20:49:59 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.882374**	F **4.473187**	**4.851180**	**4.882209**	**4.893374**	**9.478712**
Stddev	.007127	.005127	.008139	.010824	.013903	.033218
%RSD	.1459697	.1146216	.1677819	.2217025	.2841247	.3504511
#1	4.876204	4.468011	4.855104	4.875954	4.883649	9.517068
#2	4.880744	4.473285	4.841822	4.875966	4.887174	9.459805
#3	4.890175	4.478264	4.856614	4.894708	4.909299	9.459262

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.09376**	**.2506729**	**2.477984**	**24.79265**	**.9869682**	**2.493713**
Stddev	.04108	.0021238	.003388	.07016	.0017704	.003900
%RSD	.4070236	.8472213	.1367296	.2829701	.1793793	.1563881
#1	10.11188	.2531227	2.479606	24.84998	.9855607	2.495764
#2	10.04672	.2493508	2.474090	24.71442	.9863879	2.489215
#3	10.12266	.2495453	2.480256	24.81355	.9889559	2.496160

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.248731**	**4.967662**	**2.545678**	**24.43509**	**2.479635**	**1.233134**
Stddev	.000938	.044070	.008310	.05312	.003796	.001432
%RSD	.0750924	.8871371	.3264279	.2174002	.1530820	.1161620
#1	1.248111	4.926631	2.551027	24.44636	2.481638	1.233800
#2	1.249810	4.962109	2.536104	24.37723	2.475257	1.234112
#3	1.248272	5.014245	2.549901	24.48167	2.482010	1.231490

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.75132**	**2.451166**	**2.446098**	**24.62345**	**4.975157**	**5.000212**
Stddev	.16446	.006412	.005623	.15890	.035455	.003778
%RSD	.6386485	.2615745	.2298644	.6453372	.7126482	.0755485
#1	25.59515	2.457554	2.447162	24.48781	5.016058	4.996119
#2	25.73585	2.444731	2.440020	24.58425	4.956262	5.000955
#3	25.92297	2.451213	2.451113	24.79828	4.953152	5.003564

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCV10 Acquired: 10/28/2025 20:49:59 Type: Unk
Method: 6010-200.7 NEW(v320) 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	**4.995247**	**4.972489**	**4.758243**	**5.098461**	**4.943987**	**4.859749**
Stddev	.012176	.011296	.025006	.011700	.013359	.019298
%RSD	.2437578	.2271658	.5255296	.2294879	.2702107	.3971026
#1	5.000574	4.980445	4.730594	5.110754	4.949578	4.875529
#2	4.981315	4.959560	4.764862	5.087460	4.928741	4.838234
#3	5.003853	4.977461	4.779275	5.097169	4.953642	4.865485

Elem	Sr4077
Units	ppm
Avg	**4.937933**
Stddev	.031043
%RSD	.6286632
#1	4.937712
#2	4.907001
#3	4.969086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5644.194**	**90918.60**	**7017.802**	**4332.487**	**6517.424**
Stddev	3.904	294.37	38.167	7.678	6.901
%RSD	.0691726	.3237706	.5438554	.1772294	.1058784
#1	5648.702	91171.09	6974.394	4325.866	6514.653
#2	5641.909	90989.43	7046.101	4340.905	6525.279
#3	5641.970	90595.28	7032.912	4330.690	6512.340

Reviewed By:mohan
On:11/3/2025 10:11:27 AM
Inst Id :P4
LB :LB137677

Sample Name: CCB10 Acquired: 10/28/2025 20:54:02 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002032**	**-.006364**	**.0007045**	**.0005441**	**-.000265**	**.0144217**
Stddev	.002694	.001851	.0011618	.0015055	.001520	.0016849
%RSD	132.5479	29.08303	164.9032	276.7009	573.6825	11.68341
#1	-.002727	-.004592	-.000586	-.000644	-.001965	.0146402
#2	-.004310	-.006216	.001032	.002237	.000207	.0159867
#3	.000941	-.008285	.001668	.000040	.000963	.0126381

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001769**	**.0000381**	**.0000578**	**.0133931**	**.0000885**	**-.000219**
Stddev	.0016579	.0000131	.0000457	.0083073	.0003531	.000093
%RSD	937.1105	34.31562	79.06752	62.02659	398.8904	42.26103
#1	-.001577	.0000489	.0001106	.0186043	-.000263	-.000183
#2	.000390	.0000418	.0000290	.0177621	.000443	-.000150
#3	.001718	.0000236	.0000339	.0038130	.000086	-.000324

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019133**	F **.0704322**	**.0005540**	**-.011762**	**-.000152**	**-.000325**
Stddev	.0004611	.0092750	.0003925	.013380	.000124	.000562
%RSD	24.09869	13.16869	70.84757	113.7595	81.53052	173.1852
#1	.0013909	.0601923	.0008745	-.018572	-.000140	-.000660
#2	.0020856	.0782693	.0006714	.003654	-.000035	-.000639
#3	.0022635	.0728351	.0001162	-.020368	-.000282	.000324

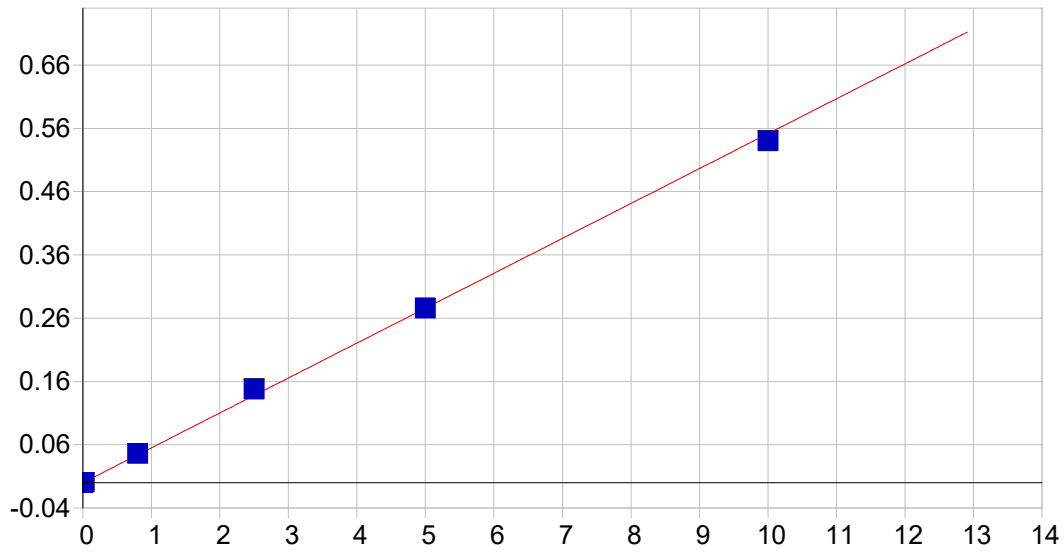
Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8168922**	**-.003260**	**.0076690**	**.2821279**	**-.001242**	**.0003657**
Stddev	.0255244	.002289	.0006448	.0303382	.000440	.0001875
%RSD	3.124575	70.19351	8.407252	10.75334	35.39729	51.26227
#1	.7910561	-.004057	.0069250	.2512612	-.001602	.0002558
#2	.8175274	-.005044	.0080659	.2832140	-.001372	.0002592
#3	.8420931	-.000680	.0080160	.3119084	-.000752	.0005822

Sample Name: CCB10 Acquired: 10/28/2025 20:54:02 Type: Unk
Method: 6010-200.7 NEW(v320) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008559	.0017706	-.006890	.0020869	F .0101871	.0074831
Stddev	.0005225	.0013989	.015732	.0006064	.0030649	.0017885
%RSD	61.05255	79.00728	228.3290	29.05801	30.08598	23.90001
#1	.0008103	.0009246	-.000061	.0027724	.0118722	.0057305
#2	.0013997	.0033854	.004273	.0016203	.0120398	.0074133
#3	.0003576	.0010020	-.024883	.0018680	.0066494	.0093054

Elem	Sr4077
Units	ppm
Avg	-.000040
Stddev	.000154
%RSD	384.0681
#1	-.000216
#2	.000074
#3	.000022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5676.308	92550.91	6985.885	4352.597	7306.305
Stddev	3.767	762.10	31.240	24.130	3.708
%RSD	.0663687	.8234415	.4471931	.5543719	.0507550
#1	5680.648	92737.83	7021.958	4360.002	7308.468
#2	5673.892	93202.16	6967.732	4372.157	7302.023
#3	5674.382	91712.73	6967.965	4325.633	7308.425

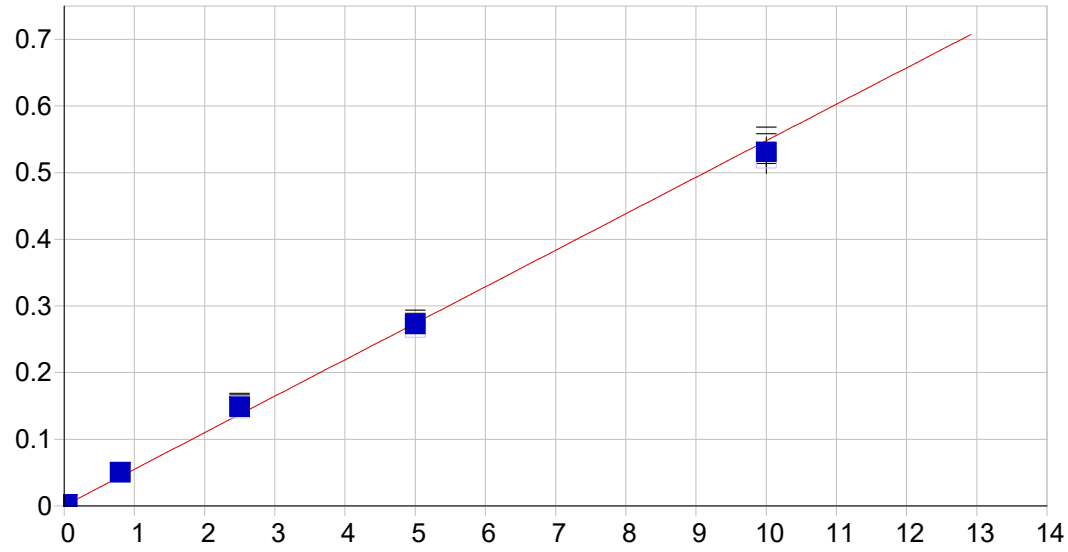


As 189.042 {479}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.055160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999483	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002032		
Predicted MQL:	0.006774		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.02000	.02050	.000	2.48	.00112	.000	1
S3	2.5000	2.6805	.180	7.22	.14771	.001	1
S4	5.0000	4.9947	-.005	-.106	.27522	.001	1
S5	10.000	9.7900	-.210	-2.10	.53944	.001	1
S2	.80000	.83436	.034	4.29	.04597	.000	1

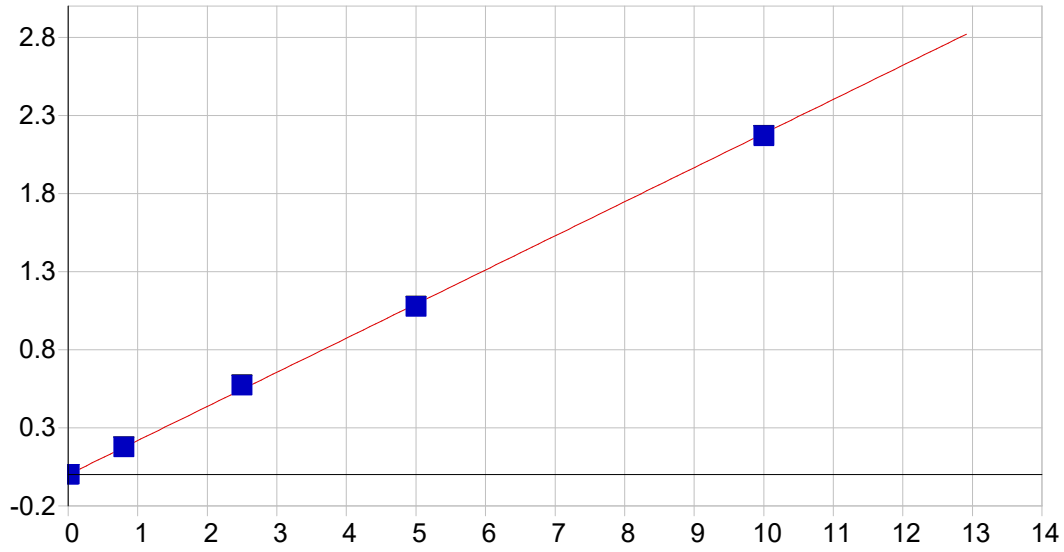


Tl 190.856 {477}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000337	Re-Slope:	1.000000
A1 (Gain):	0.054751	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998755	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.002850		
Predicted MQL:	0.009501		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00034	.000	1
S1	.04000	.04366	.004	9.16	.00259	.000	1
S3	2.5000	2.7163	.216	8.65	.14656	.005	1
S4	5.0000	4.9723	-.028	-.553	.26758	.006	1
S5	10.000	9.6960	-.304	-3.04	.52121	.022	1
S2	.80000	.91194	.112	14.0	.04947	.000	1

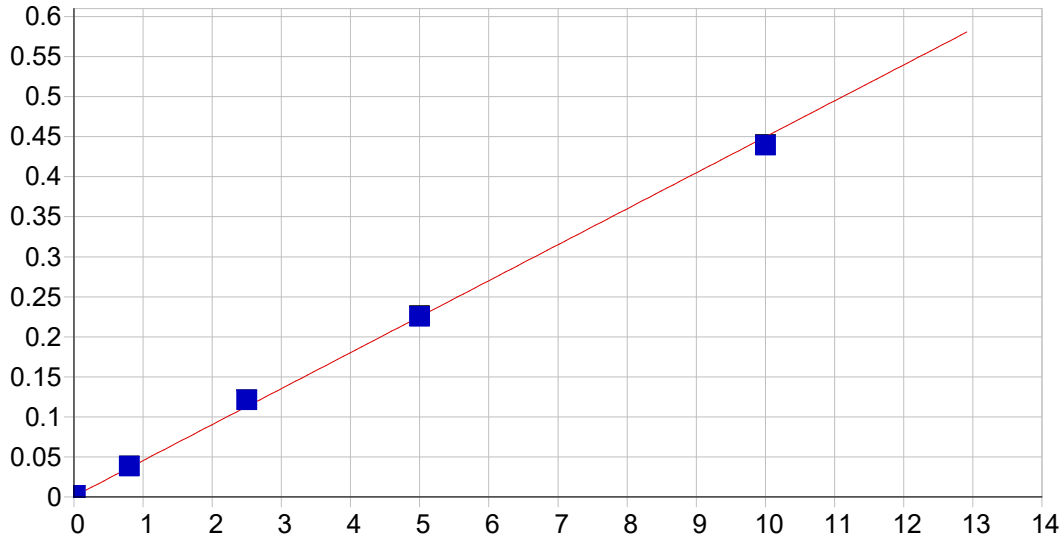


Pb 220.353 {453}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000199	Re-Slope:	1.000000
A1 (Gain):	0.218369	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.001219		
Predicted MQL:	0.004062		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00020	.000	1
S1	.01200	.01107	-.001	-7.71	.00256	.000	1
S3	2.5000	2.6229	.123	4.92	.57235	.002	1
S4	5.0000	4.9307	-.069	-1.39	1.0757	.002	1
S5	10.000	9.9337	-.066	-.663	2.1670	.003	1
S2	.80000	.81361	.014	1.70	.17767	.000	1

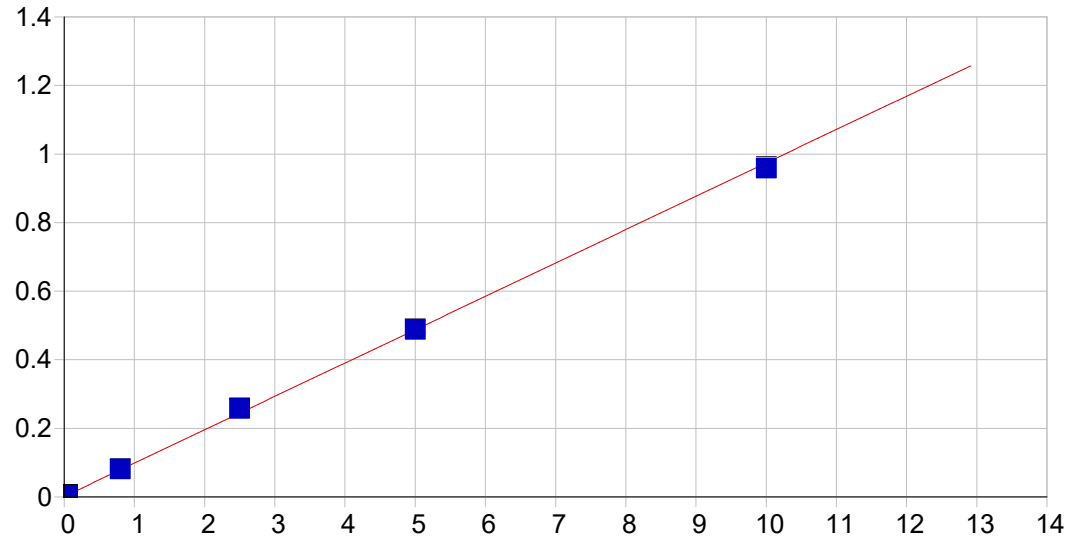


Se 196.090 {472}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000535	Re-Slope:	1.000000
A1 (Gain):	0.044922	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999429	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.003067		
Predicted MQL:	0.010223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00054	.000	1
S1	.02000	.02251	.003	12.6	.00155	.000	1
S3	2.5000	2.6807	.181	7.23	.12093	.001	1
S4	5.0000	5.0101	.010	.203	.22554	.000	1
S5	10.000	9.7661	-.234	-2.34	.43913	.001	1
S2	.80000	.84053	.041	5.07	.03828	.000	1

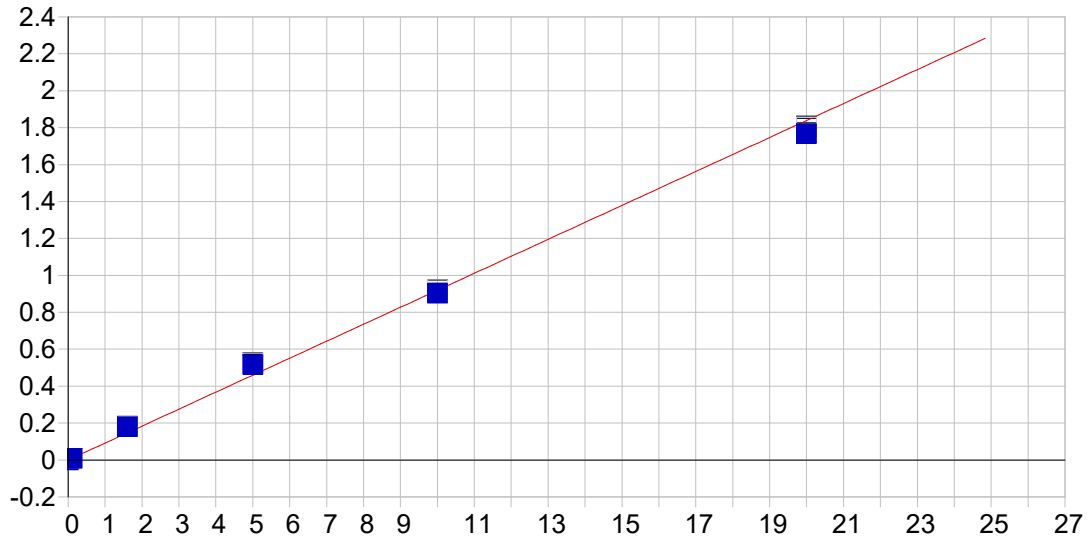


Sb 206.833 {463}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001257	Re-Slope:	1.000000
A1 (Gain):	0.097294	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999718	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.001868		
Predicted MQL:	0.006228		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00126	.000	1
S1	.05000	.04926	-.001	-1.47	.00606	.000	1
S3	2.5000	2.6363	.136	5.45	.25841	.001	1
S4	5.0000	5.0025	.002	.050	.48929	.000	1
S5	10.000	9.8425	-.158	-1.58	.96152	.001	1
S2	.80000	.81948	.019	2.43	.08120	.000	1

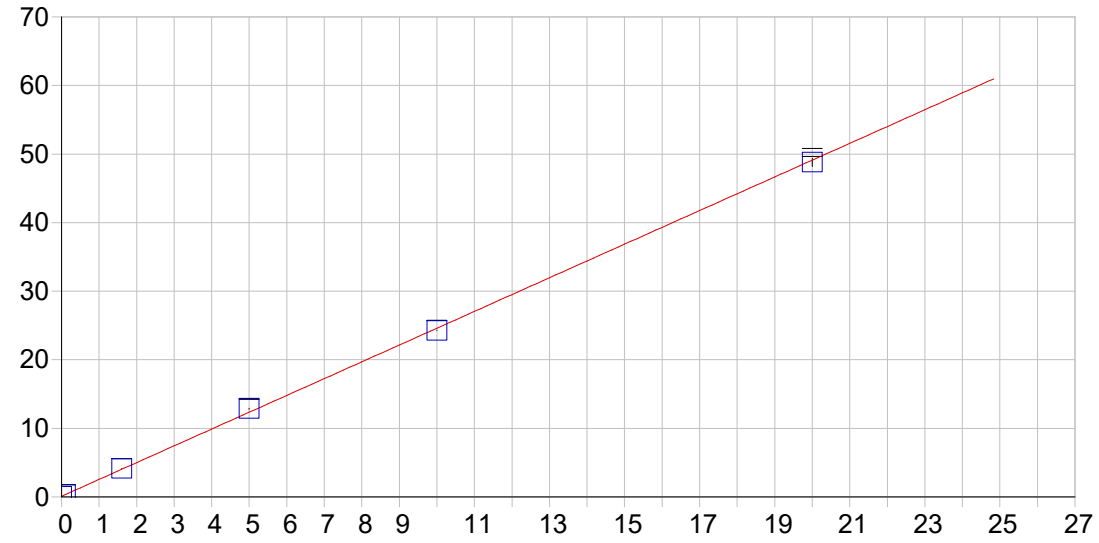


Al 396.152 { 85}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000426	Re-Slope:	1.000000
A1 (Gain):	0.091961	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997589	Status:	OK.
Std Error of Est:	0.000484		
Predicted MDL:	0.011819		
Predicted MQL:	0.039396		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00043	.001	1
S1	.10000	.09543	-.005	-4.57	.00906	.000	1
S3	5.0000	5.6116	.612	12.2	.52454	.001	1
S4	10.000	9.8250	-.175	-1.75	.92093	.001	1
S5	20.000	19.219	-.781	-3.90	1.8027	.005	1
S2	1.6000	1.9489	.349	21.8	.18165	.001	1

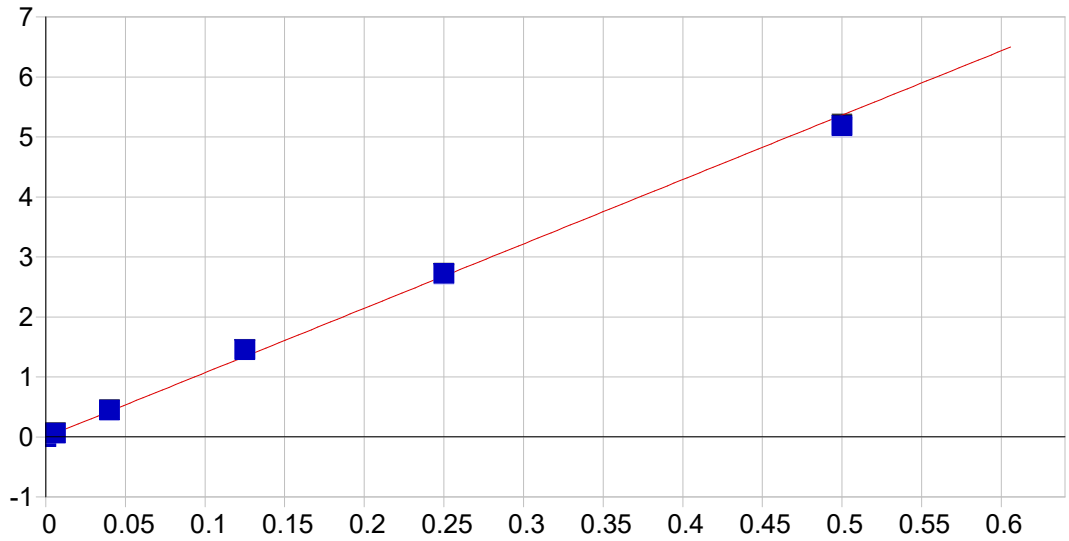


Ba 493.409 { 68}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.094729	Re-Slope:	1.000000
A1 (Gain):	2.450915	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.003389		
Predicted MDL:	0.001240		
Predicted MQL:	0.004134		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.09471	.004	1
S1	.10000	.10266	.003	2.66	.34635	.007	1
S3	5.0000	5.2077	.208	4.15	12.858	.081	1
S4	10.000	9.8708	-.129	-1.29	24.287	.039	1
S5	20.000	19.869	-.131	-.654	48.792	.583	1
S2	1.6000	1.6497	.050	3.10	4.1379	.022	1

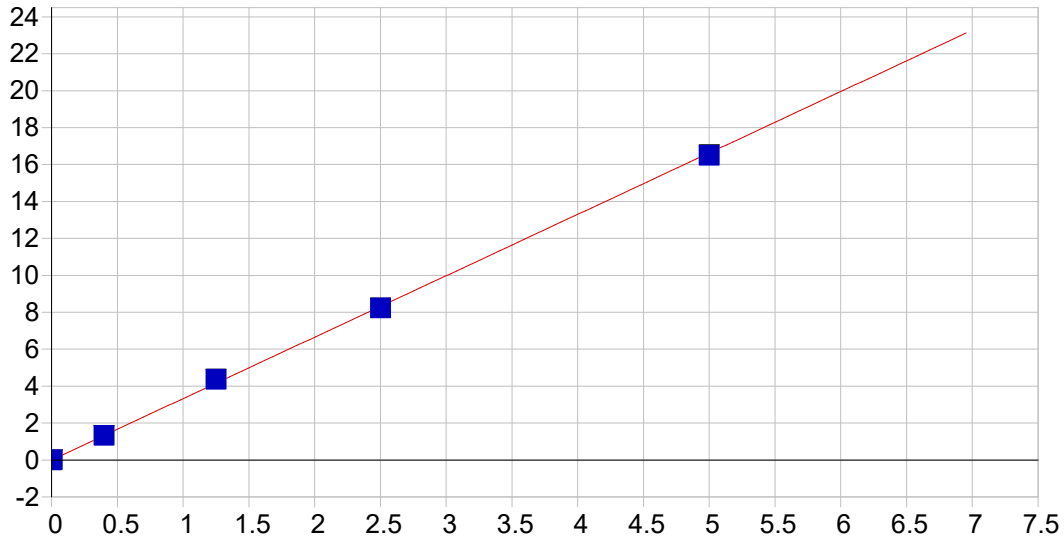


Be 234.861 {144}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002648	Re-Slope:	1.000000
A1 (Gain):	10.729807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999108	Status:	OK.
Std Error of Est:	0.001299		
Predicted MDL:	0.000067		
Predicted MQL:	0.000222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00266	.000	1
S1	.00600	.00614	.000	2.36	.06277	.001	1
S3	.12500	.13582	.011	8.66	1.4487	.005	1
S4	.25000	.25381	.004	1.52	2.7087	.006	1
S5	.50000	.48342	-.017	-3.32	5.1603	.029	1
S2	.04000	.04181	.002	4.52	.44403	.003	1

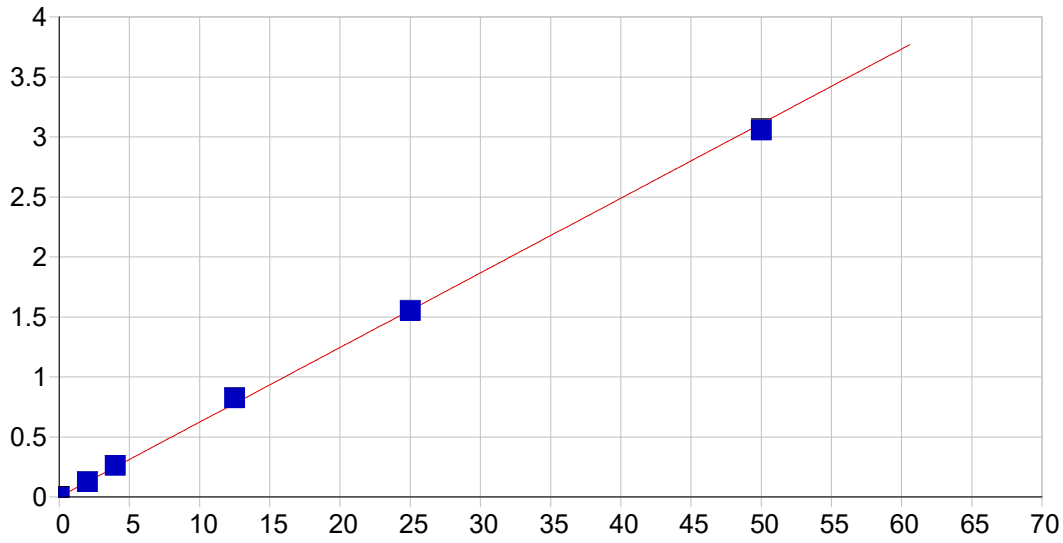


Cd 226.502 {449}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000620	Re-Slope:	1.000000
A1 (Gain):	3.325994	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999791	Status:	OK.
Std Error of Est:	0.000617		
Predicted MDL:	0.000068		
Predicted MQL:	0.000227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00062	.000	1
S1	.00600	.00569	-.000	-5.23	.01836	.000	1
S3	1.2500	1.3138	.064	5.10	4.3717	.005	1
S4	2.5000	2.4759	-.024	-.965	8.2396	.007	1
S5	5.0000	4.9600	-.040	-.800	16.507	.038	1
S2	.40000	.40068	.001	.169	1.3329	.002	1

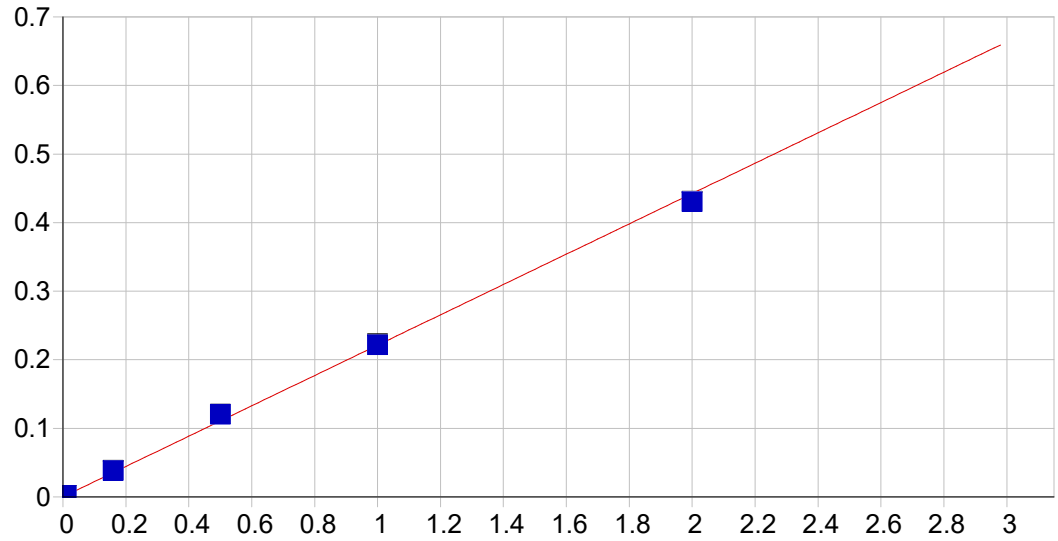


Ca 373.690 { 90}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001269	Re-Slope:	1.000000
A1 (Gain):	0.062184	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999646	Status:	OK.
Std Error of Est:	0.000875		
Predicted MDL:	0.013754		
Predicted MQL:	0.045845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00126	.001	1
S2	4.0000	4.1812	.181	4.53	.26127	.001	1
S3	12.500	13.233	.733	5.87	.82418	.002	1
S4	25.000	24.933	-.067	-.267	1.5517	.002	1
S5	50.000	49.144	-.856	-1.71	3.0573	.009	1
S1	2.0000	2.0080	.008	.401	.12614	.000	1

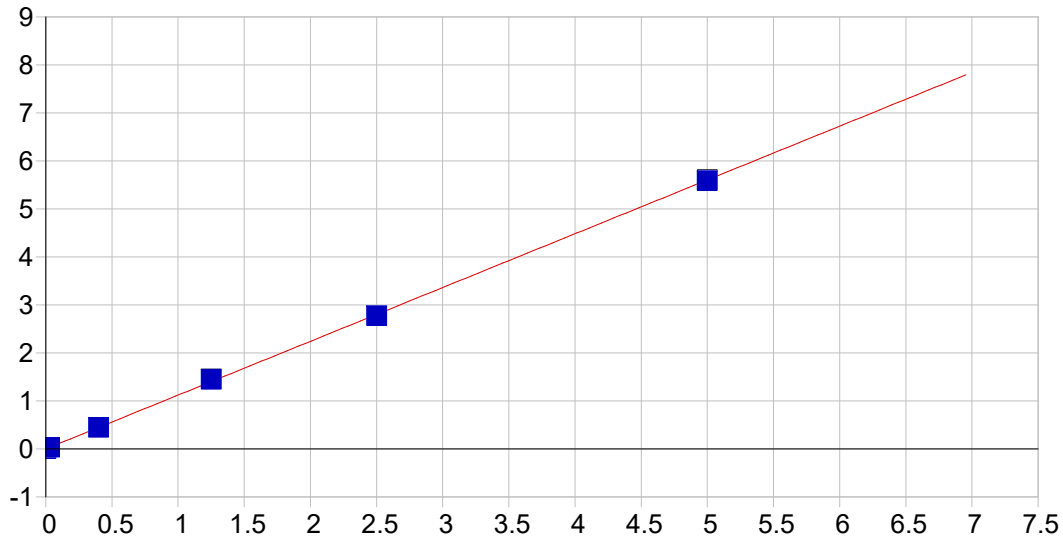


Cr 267.716 {126}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000148	Re-Slope:	1.000000
A1 (Gain):	0.221143	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999170	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.000330		
Predicted MQL:	0.001099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.01000	.00981	-.000	-1.89	.00232	.000	1
S3	.50000	.54332	.043	8.66	.12039	.000	1
S4	1.0000	1.0007	.001	.070	.22162	.001	1
S5	2.0000	1.9447	-.055	-2.76	.43056	.001	1
S2	.16000	.17146	.011	7.16	.03809	.001	1

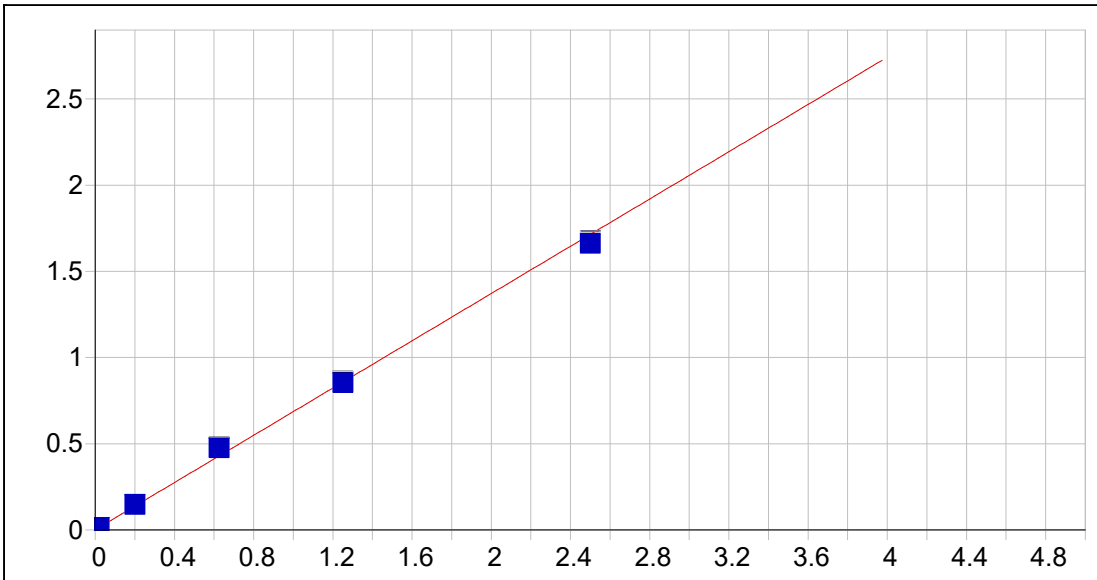


Co 228.616 {448}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000080	Re-Slope:	1.000000
A1 (Gain):	1.120655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000321		
Predicted MDL:	0.000179		
Predicted MQL:	0.000596		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.03000	.02916	-.001	-2.80	.03262	.000	1
S3	1.2500	1.2931	.043	3.45	1.4516	.003	1
S4	2.5000	2.4742	-.026	-1.03	2.7776	.005	1
S5	5.0000	4.9847	-.015	-.307	5.5957	.009	1
S2	.40000	.39880	-.001	-.299	.44776	.001	1

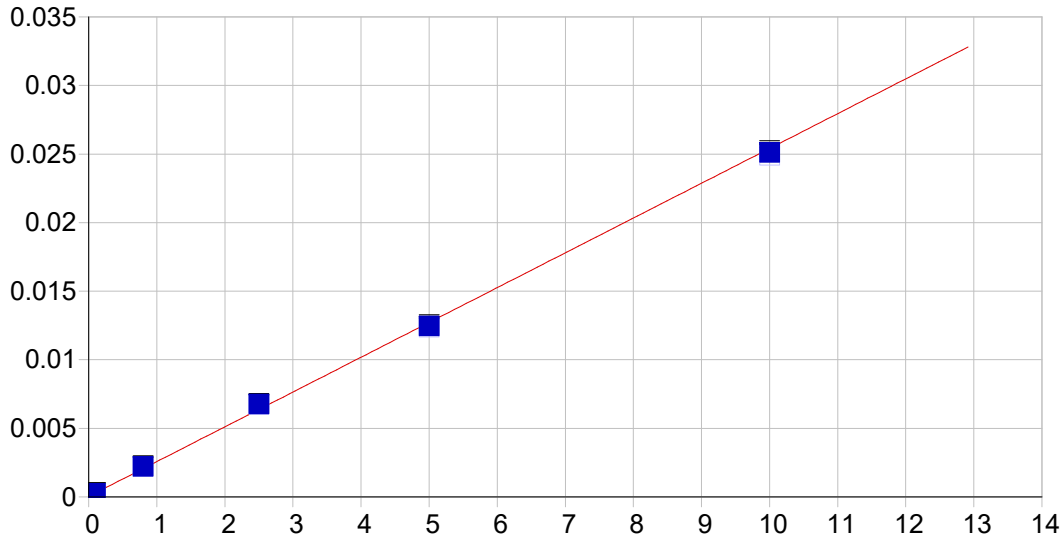


Cu 224.700 {450}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000682	Re-Slope:	1.000000
A1 (Gain):	0.685476	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998881	Status:	OK.
Std Error of Est:	0.000384		
Predicted MDL:	0.000399		
Predicted MQL:	0.001330		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00068	.000	1
S1	.02000	.02135	.001	6.77	.01547	.000	1
S3	.62500	.69212	.067	10.7	.47869	.002	1
S4	1.2500	1.2454	-.005	-.367	.86152	.002	1
S5	2.5000	2.4234	-.077	-3.06	1.6761	.002	1
S2	.20000	.21273	.013	6.36	.14765	.000	1

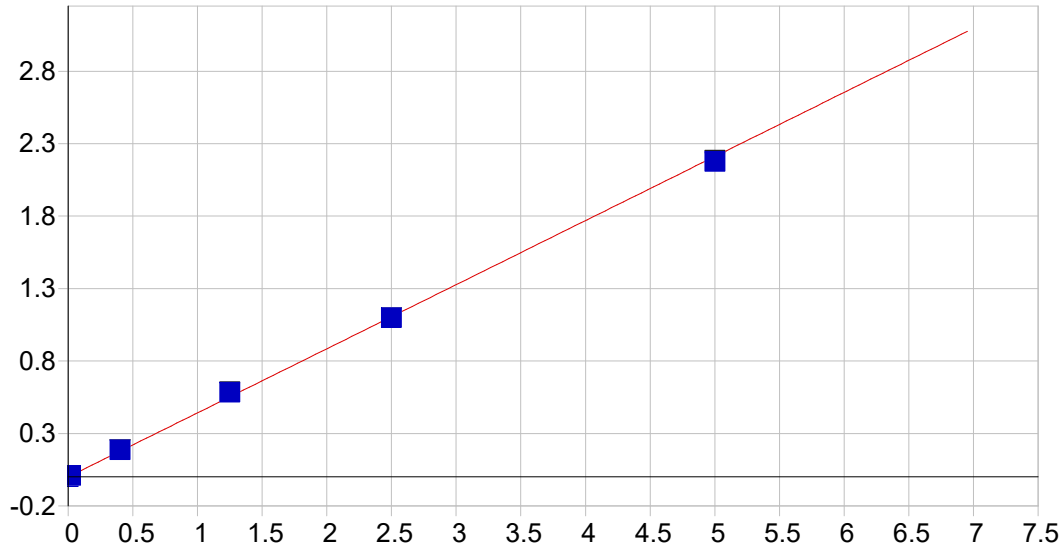


Fe 240.488 {140}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	0.002537	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999516	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.008376		
Predicted MQL:	0.027921		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00003	.000	1
S1	.10000	.10103	.001	1.03	.00029	.000	1
S3	2.5000	2.6566	.157	6.27	.00672	.000	1
S4	5.0000	4.9007	-.099	-1.99	.01236	.000	1
S5	10.000	9.8827	-.117	-1.17	.02489	.000	1
S2	.80000	.85894	.059	7.37	.00220	.000	1

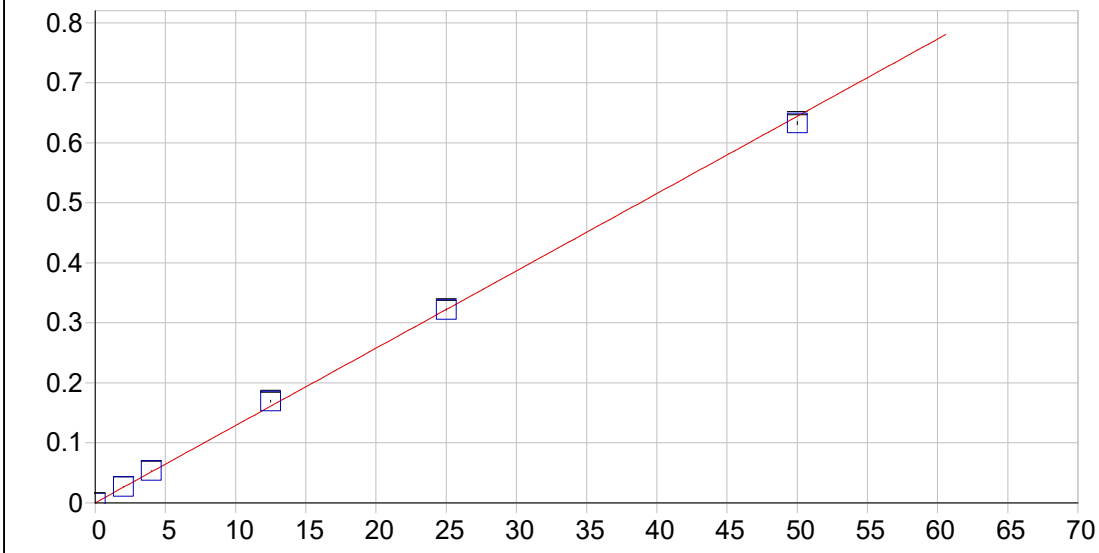


Mn 257.610 {131}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000103	Re-Slope:	1.000000
A1 (Gain):	0.442361	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000197		
Predicted MDL:	0.000711		
Predicted MQL:	0.002369		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.02196	.002	9.79	.00961	.000	1
S3	1.2500	1.3192	.069	5.54	.58359	.003	1
S4	2.5000	2.4837	-.016	-.651	1.0988	.002	1
S5	5.0000	4.9223	-.078	-1.55	2.1778	.009	1
S2	.40000	.42275	.023	5.69	.18694	.001	1

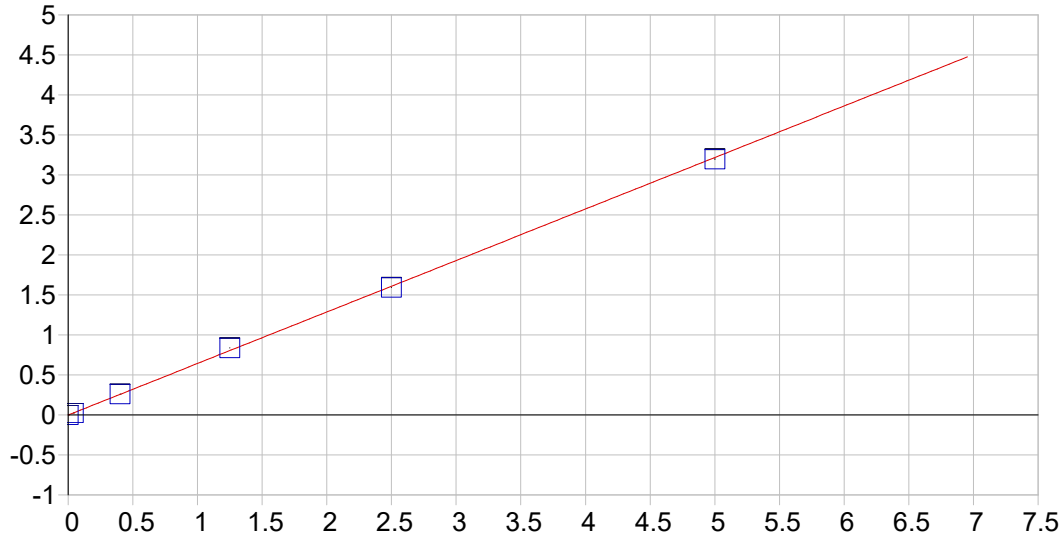


Mg 279.079 {121}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000226	Re-Slope:	1.000000
A1 (Gain):	0.012877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999688	Status:	OK.
Std Error of Est:	0.000170		
Predicted MDL:	0.031253		
Predicted MQL:	0.104177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00023	-.000	.000	.00022	.000	1
S2	4.0000	4.1465	.147	3.66	.05362	.000	1
S3	12.500	13.150	.650	5.20	.16956	.002	1
S4	25.000	24.996	-.004	-.016	.32209	.001	1
S5	50.000	49.122	-.878	-1.76	.63275	.003	1
S1	2.0000	2.0851	.085	4.25	.02707	.000	1

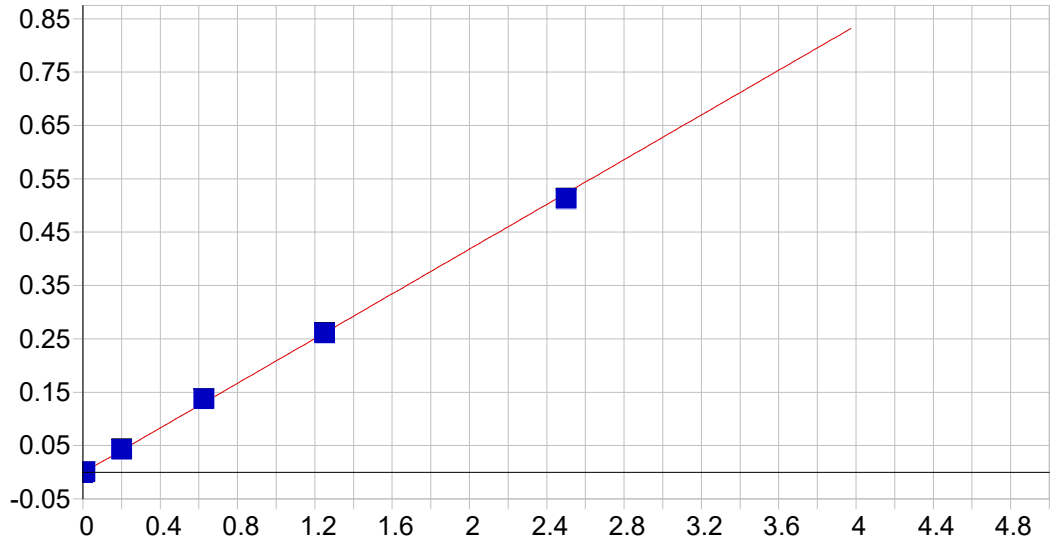


Ni 231.604 {446}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000808	Re-Slope:	1.000000
A1 (Gain):	0.643686	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000261		
Predicted MDL:	0.000332		
Predicted MQL:	0.001107		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00081	.000	1
S1	.04000	.03913	-.001	-2.18	.02438	.000	1
S3	1.2500	1.3023	.052	4.19	.83749	.001	1
S4	2.5000	2.4749	-.025	-1.00	1.5922	.002	1
S5	5.0000	4.9680	-.032	-.639	3.1970	.006	1
S2	.40000	.40563	.006	1.41	.26029	.000	1

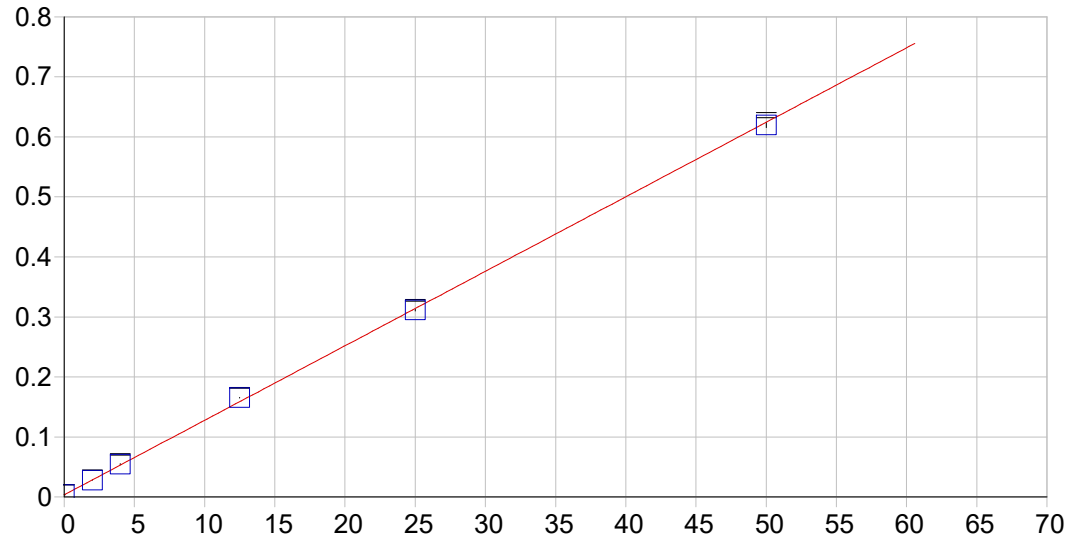


Ag 328.068 {103}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000920	Re-Slope:	1.000000
A1 (Gain):	0.209580	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999612	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.000549		
Predicted MQL:	0.001828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00092	.000	1
S1	.01000	.01029	.000	2.89	.00122	.000	1
S3	.62500	.66296	.038	6.07	.13739	.000	1
S4	1.2500	1.2501	.000	.011	.25981	.001	1
S5	2.5000	2.4534	-.047	-1.86	.51072	.001	1
S2	.20000	.20822	.008	4.11	.04252	.001	1

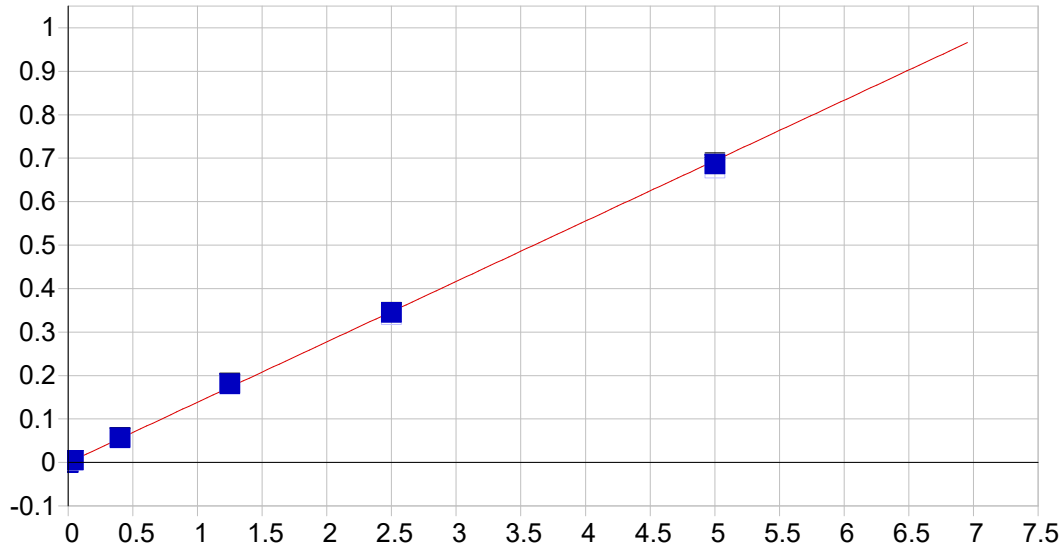


Na 589.592 { 57}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003530	Re-Slope:	1.000000
A1 (Gain):	0.012416	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000114		
Predicted MDL:	0.012520		
Predicted MQL:	0.041735		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	.00353	.000	1
S2	4.0000	4.0773	.077	1.93	.05415	.001	1
S3	12.500	13.024	.524	4.19	.16523	.000	1
S4	25.000	24.791	-.209	-.834	.31133	.001	1
S5	50.000	49.640	-.360	-.719	.61985	.004	1
S1	2.0000	1.9671	-.033	-1.65	.02795	.000	1

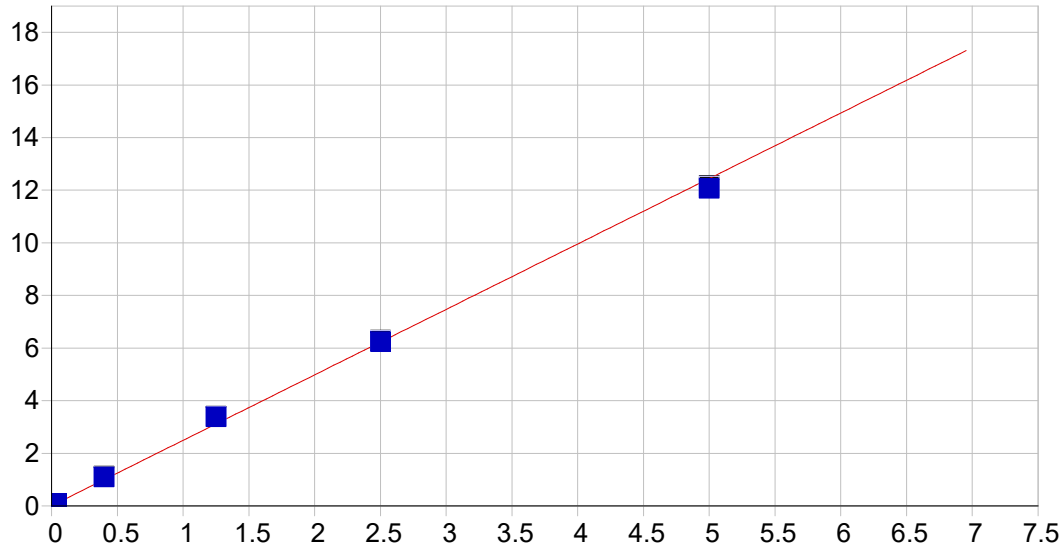


V 292.402 {115}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000497	Re-Slope:	1.000000
A1 (Gain):	0.138965	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.003420		
Predicted MQL:	0.011399		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00050	.000	1
S1	.04000	.04000	.000	.012	.00485	.000	1
S3	1.2500	1.3104	.060	4.83	.17907	.001	1
S4	2.5000	2.4857	-.014	-.572	.33986	.001	1
S5	5.0000	4.9440	-.056	-1.12	.67641	.003	1
S2	.40000	.40992	.010	2.48	.05566	.001	1

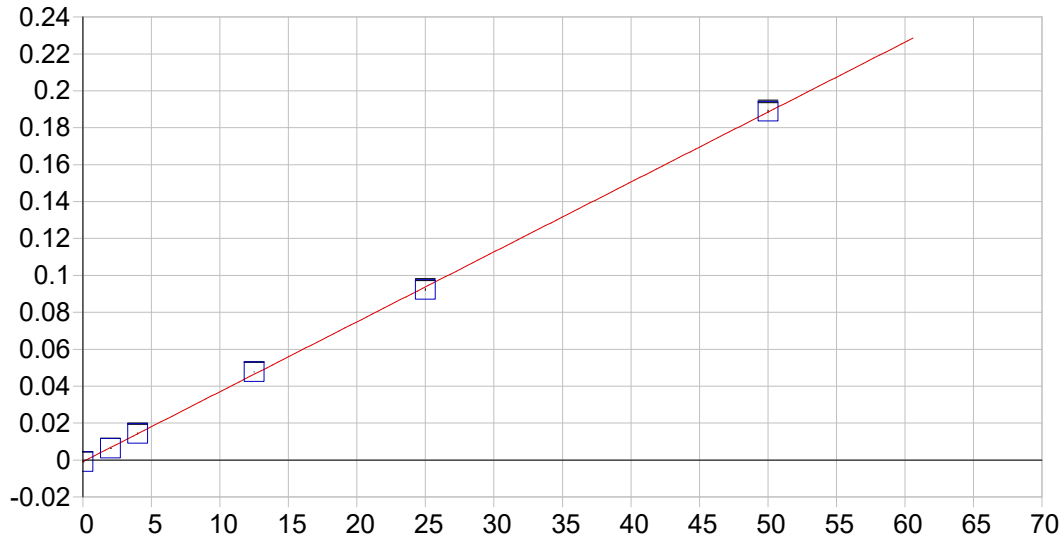


Zn 213.856 {158}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004495	Re-Slope:	1.000000
A1 (Gain):	2.488353	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999041	Status:	OK.
Std Error of Est:	0.002577		
Predicted MDL:	0.000232		
Predicted MQL:	0.000774		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00448	.001	1
S1	.04000	.04119	.001	2.98	.10769	.000	1
S3	1.2500	1.3566	.107	8.53	3.4019	.002	1
S4	2.5000	2.5071	.007	.283	6.2863	.011	1
S5	5.0000	4.8453	-.155	-3.09	12.148	.029	1
S2	.40000	.43978	.040	9.94	1.1057	.024	1

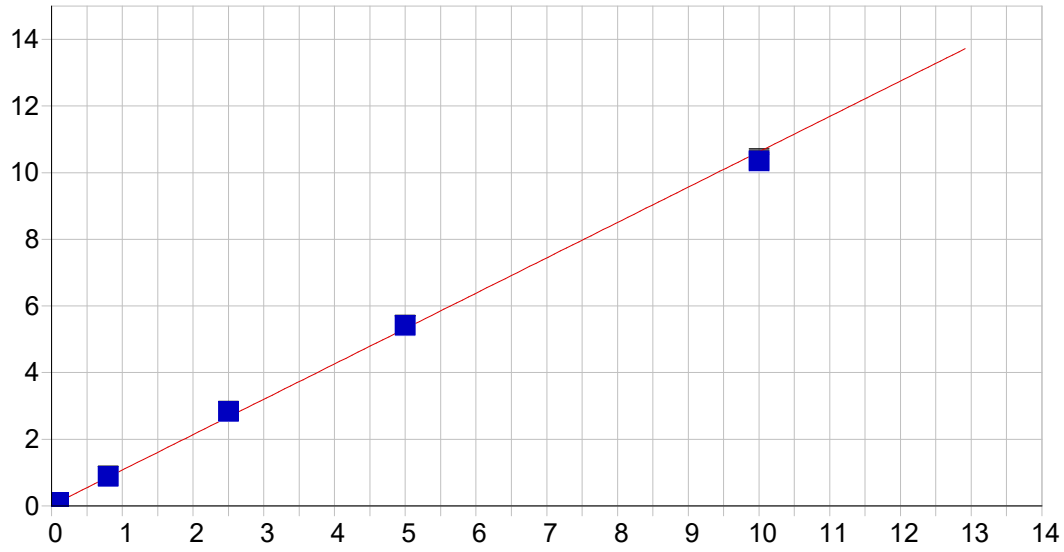


K 766.490 { 44}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000899	Re-Slope:	1.000000
A1 (Gain):	0.003787	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.048042		
Predicted MQL:	0.160141		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	-.00090	.000	1
S2	4.0000	4.0035	.004	.088	.01426	.000	1
S3	12.500	12.839	.339	2.71	.04772	.000	1
S4	25.000	24.623	-.377	-1.51	.09235	.001	1
S5	50.000	50.117	.117	.233	.18889	.001	1
S1	2.0000	1.9182	-.082	-4.09	.00637	.000	1

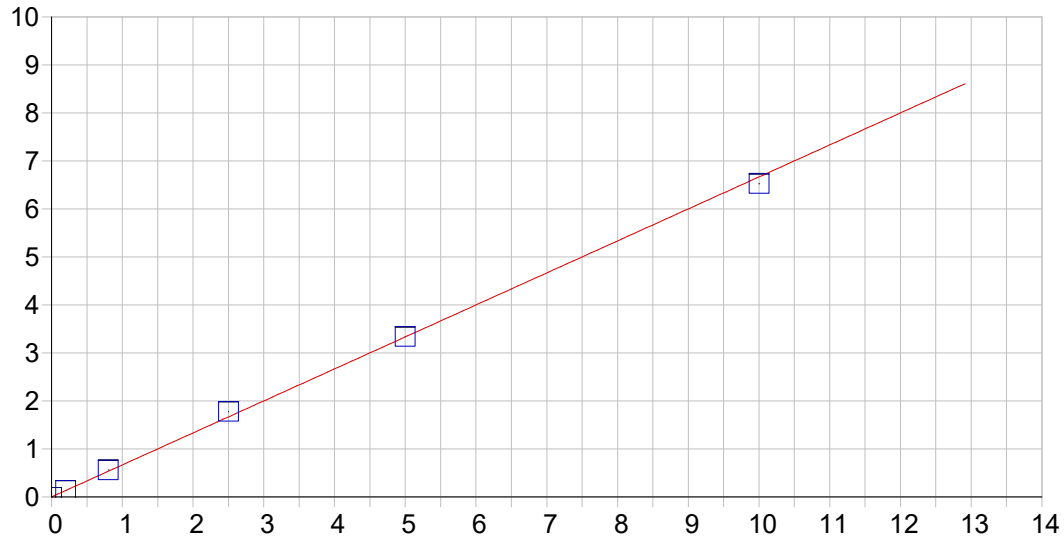


B 249.678 {135}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016152	Re-Slope:	1.000000
A1 (Gain):	1.061122	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999486	Status:	OK.
Std Error of Est:	0.001781		
Predicted MDL:	0.000720		
Predicted MQL:	0.002399		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01615	.001	1
S1	.10000	.09401	-.006	-5.99	.11528	.001	1
S3	2.5000	2.6558	.156	6.23	2.8247	.004	1
S4	5.0000	5.0880	.088	1.76	5.3960	.010	1
S5	10.000	9.7418	-.258	-2.58	10.315	.063	1
S2	.80000	.82038	.020	2.55	.88361	.006	1

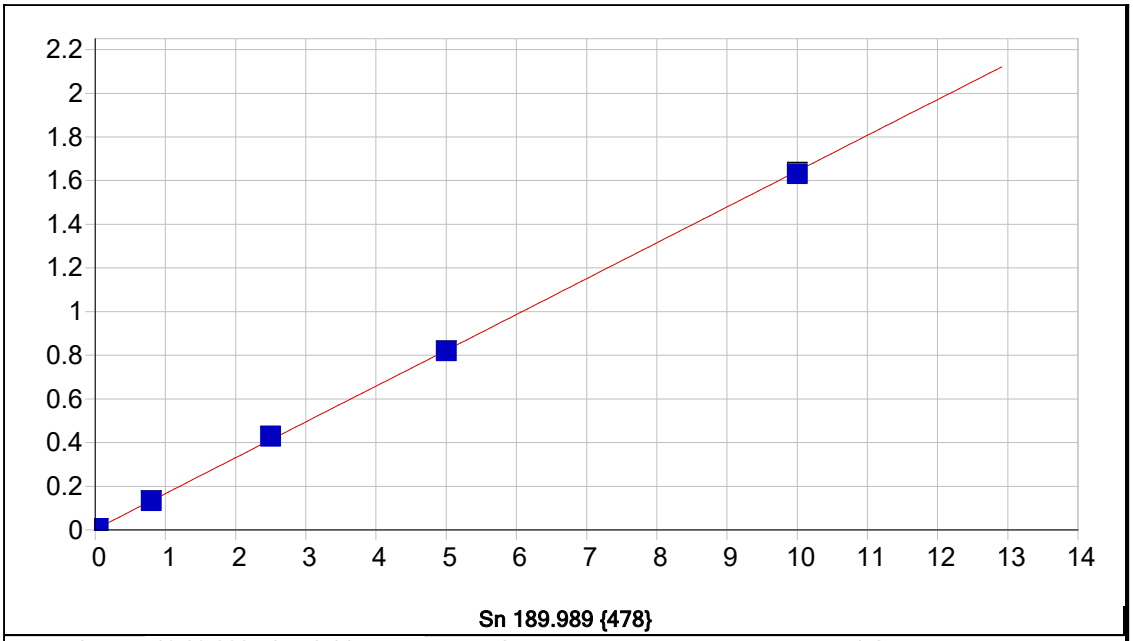


Mo 202.030 {467}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000769	Re-Slope:	1.000000
A1 (Gain):	0.666534	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999523	Status:	OK.
Std Error of Est:	0.001532		
Predicted MDL:	0.000253		
Predicted MQL:	0.000845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00076	.000	1
S1	.20000	.19794	-.002	-1.03	.13271	.000	1
S3	2.5000	2.6662	.166	6.65	1.7779	.004	1
S4	5.0000	5.0071	.007	.142	3.3382	.003	1
S5	10.000	9.7881	-.212	-2.12	6.5249	.007	1
S2	.80000	.84074	.041	5.09	.56115	.001	1

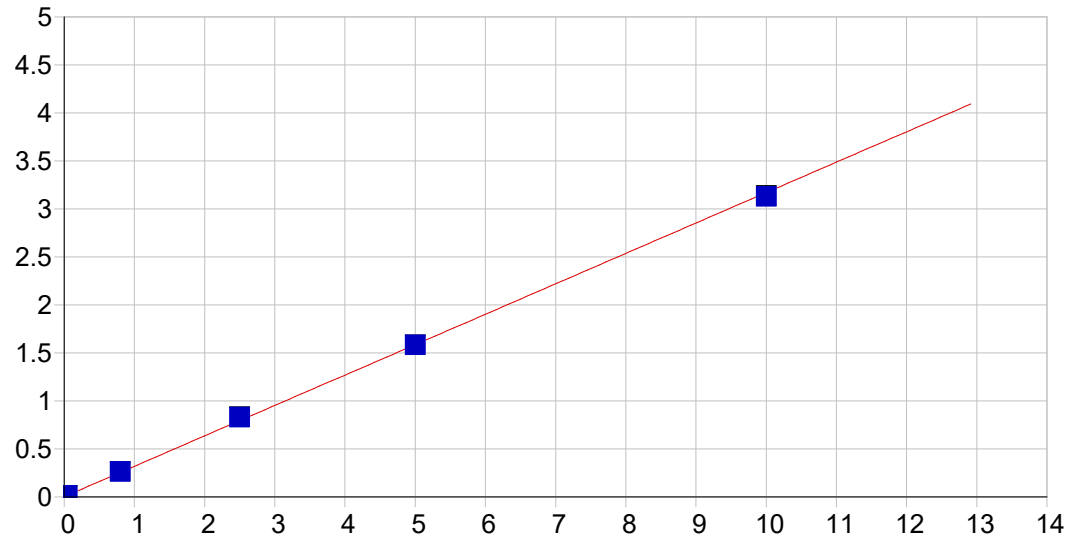


Sn 189.989 {478}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002422	Re-Slope:	1.000000
A1 (Gain):	0.164066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.000575		
Predicted MQL:	0.001918		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00242	.000	1
S1	.04000	.03819	-.002	-4.52	.00868	.000	1
S3	2.5000	2.5933	.093	3.73	.42748	.001	1
S4	5.0000	4.9818	-.018	-.364	.81893	.002	1
S5	10.000	9.9328	-.067	-.672	1.6304	.007	1
S2	.80000	.79392	-.006	-.760	.13254	.000	1

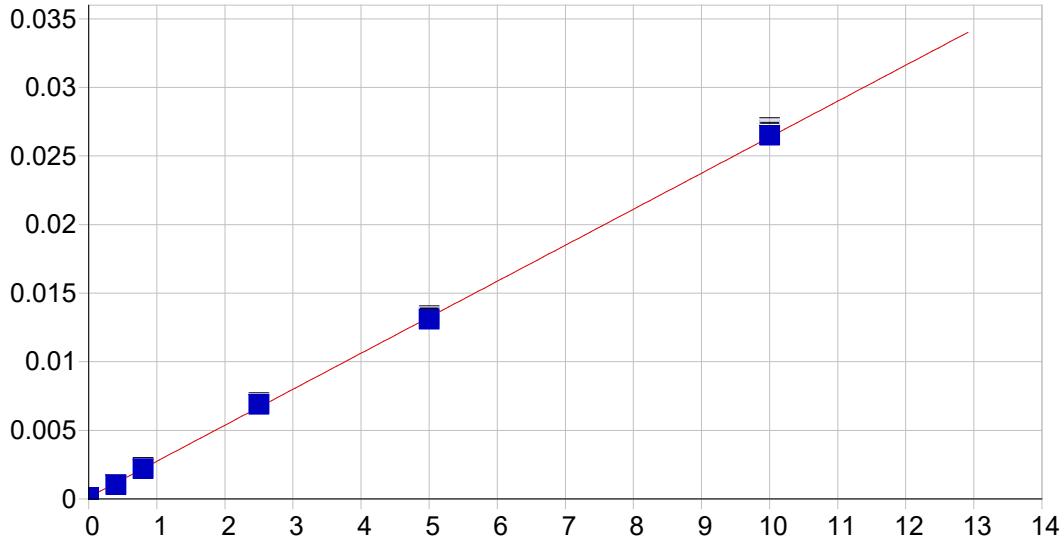


Ti 336.121 {100}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002176	Re-Slope:	1.000000
A1 (Gain):	0.316757	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999786	Status:	OK.
Std Error of Est:	0.000217		
Predicted MDL:	0.001951		
Predicted MQL:	0.006503		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00218	.000	1
S1	.04000	.03580	-.004	-10.5	.01351	.000	1
S3	2.5000	2.6162	.116	4.65	.83058	.001	1
S4	5.0000	4.9896	-.010	-.209	1.5821	.002	1
S5	10.000	9.8784	-.122	-1.22	3.1301	.005	1
S2	.80000	.82008	.020	2.51	.26185	.001	1

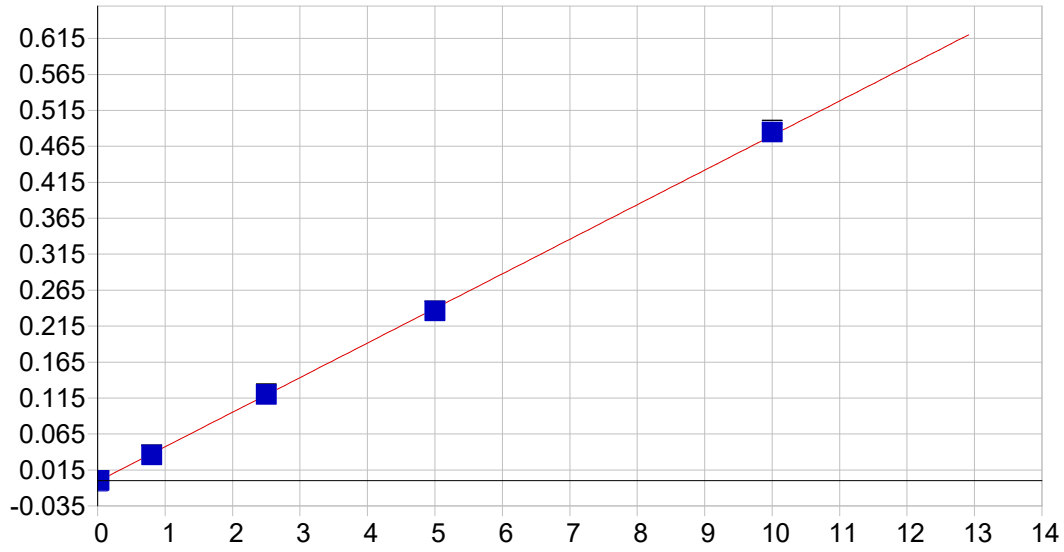


Si 288.158 {117}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000117	Re-Slope:	1.000000
A1 (Gain):	0.002625	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.014646		
Predicted MQL:	0.048820		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	.00012	.000	1
S1	.40000	.34875	-.051	-12.8	.00103	.000	1
S3	2.5000	2.5728	.073	2.91	.00697	.000	1
S4	5.0000	4.9372	-.063	-1.26	.01328	.000	1
S5	10.000	10.051	.051	.514	.02690	.000	1
S2	.80000	.78918	-.011	-1.35	.00222	.000	1

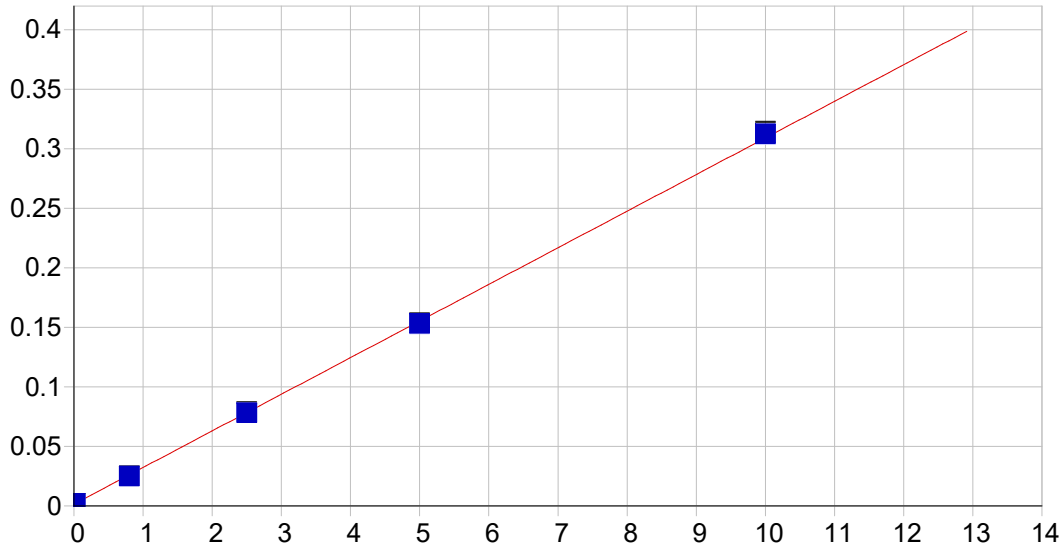


P 177.495 {490}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000933	Re-Slope:	1.000000
A1 (Gain):	0.048091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.001585		
Predicted MQL:	0.005284		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00093	.000	1
S1	.02000	.01854	-.001	-7.29	-.00004	.000	1
S3	2.5000	2.5158	.016	.632	.12004	.001	1
S4	5.0000	4.9229	-.077	-1.54	.23577	.000	1
S5	10.000	10.099	.099	.989	.48466	.003	1
S2	.80000	.76389	-.036	-4.51	.03580	.000	1

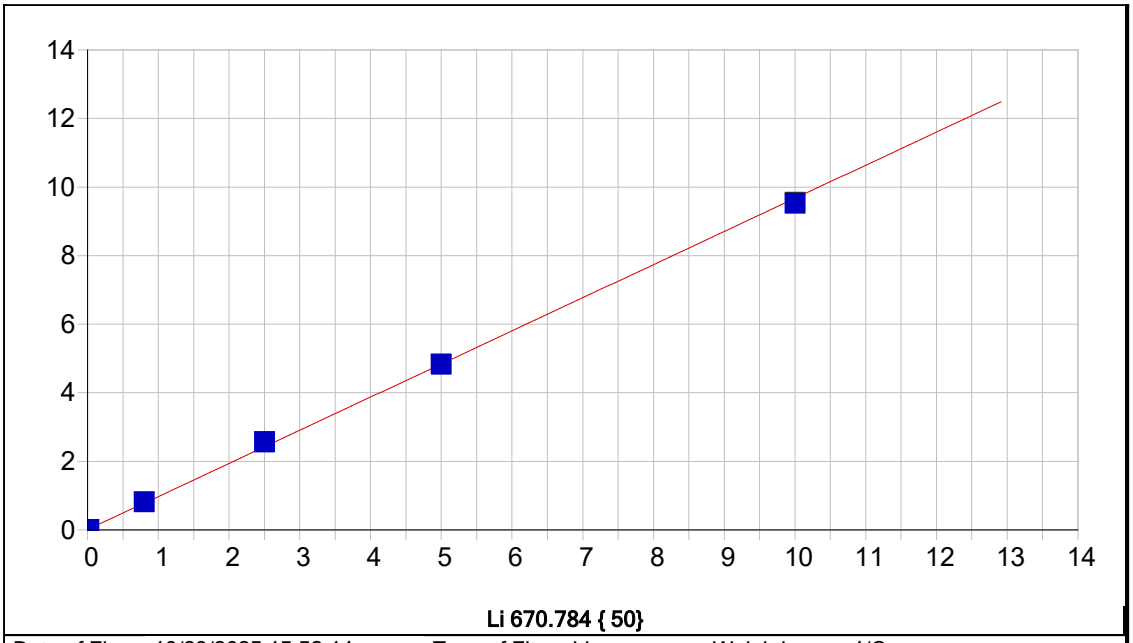


S 182.034 {485}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001521	Re-Slope:	1.000000
A1 (Gain):	0.030765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.002748		
Predicted MQL:	0.009158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00152	.000	1
S1	.02000	.01850	-.002	-7.52	.00206	.000	1
S3	2.5000	2.4966	-.003	-.134	.07813	.001	1
S4	5.0000	4.9288	-.071	-1.42	.15276	.001	1
S5	10.000	10.113	.113	1.13	.31185	.002	1
S2	.80000	.76291	-.037	-4.64	.02493	.000	1

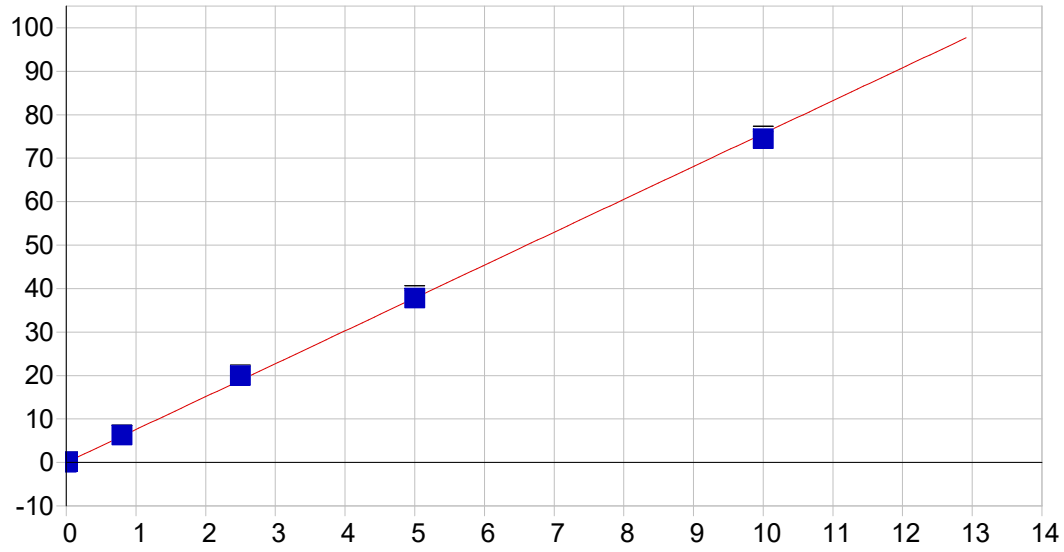


Li 670.784 { 50}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006936	Re-Slope:	1.000000
A1 (Gain):	0.966393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999671	Status:	OK.
Std Error of Est:	0.000582		
Predicted MDL:	0.002094		
Predicted MQL:	0.006981		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00694	.002	1
S5	10.000	9.8448	-.155	-1.55	9.5286	.029	1
S4	5.0000	4.9811	-.019	-.377	4.8245	.014	1
S3	2.5000	2.6410	.141	5.64	2.5611	.019	1
S1	.02000	.01830	-.002	-8.52	.02496	.002	1
S2	.80000	.83481	.035	4.35	.81430	.002	1

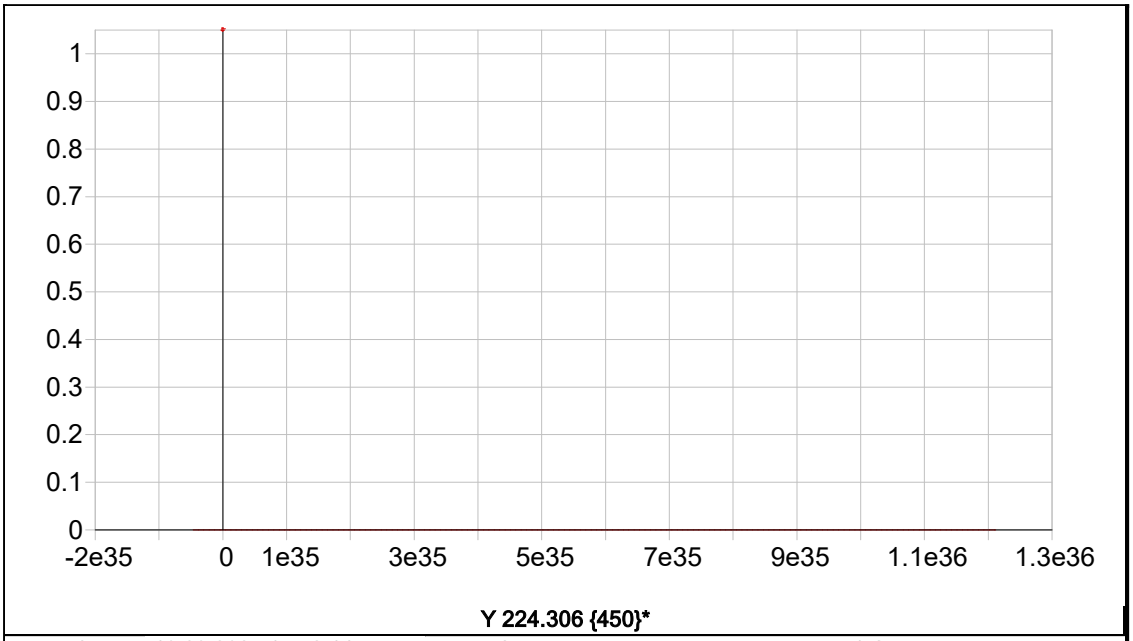


Sr 407.771 { 83}

Date of Fit:	10/29/2025 15:52:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000158	Re-Slope:	1.000000
A1 (Gain):	7.566255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999688	Status:	OK.
Std Error of Est:	0.004436		
Predicted MDL:	0.000139		
Predicted MQL:	0.000464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.001	1
S1	.02000	.02029	.000	1.44	.15407	.001	1
S3	2.5000	2.6401	.140	5.60	19.994	.113	1
S4	5.0000	4.9963	-.004	-.074	37.839	.562	1
S5	10.000	9.8361	-.164	-1.64	74.495	.603	1
S2	.80000	.82723	.027	3.40	6.2647	.008	1

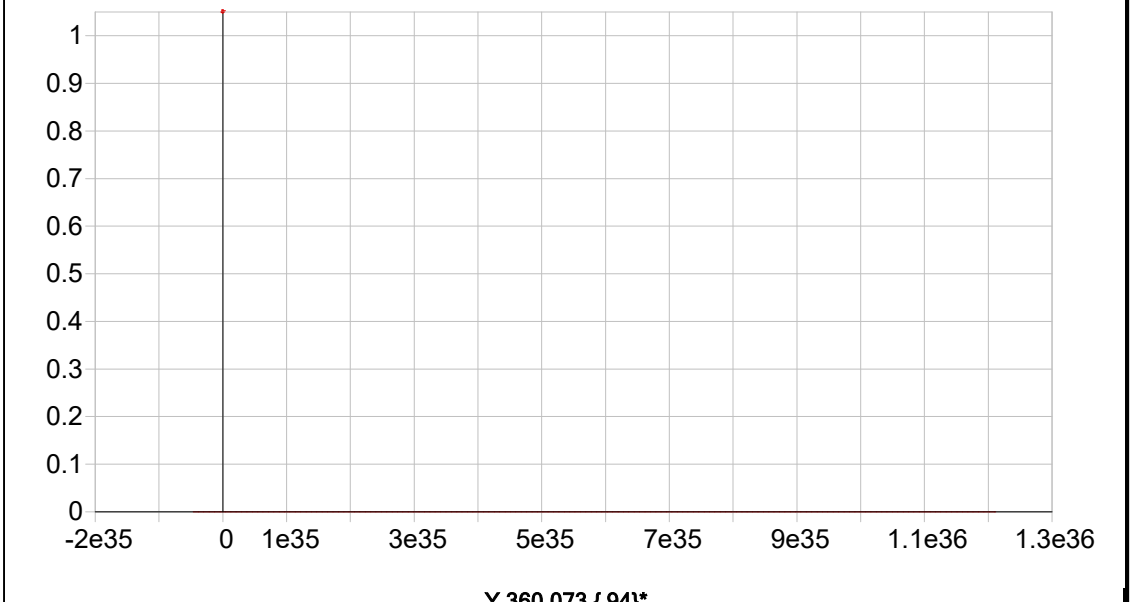


Y 224.306 {450}*

Date of Fit:	10/29/2025 15:52:14	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



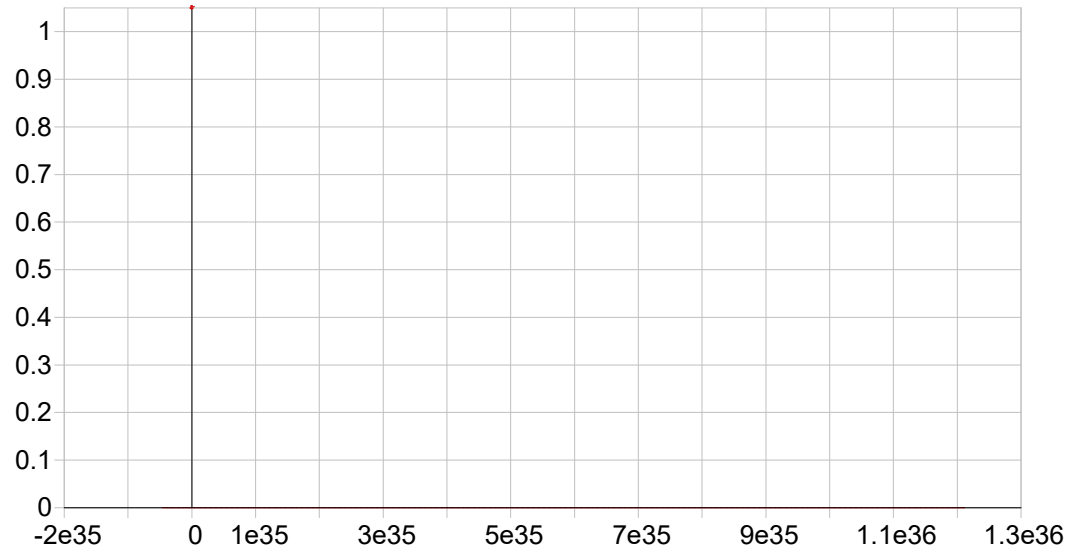
Y 360.073 { 94}*

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					

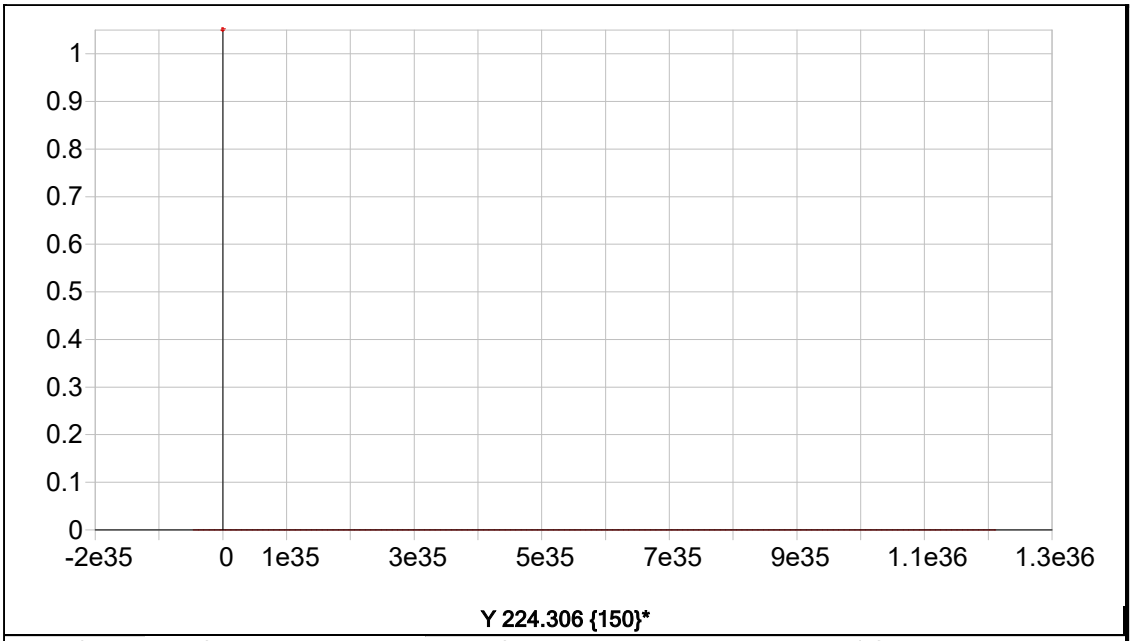
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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

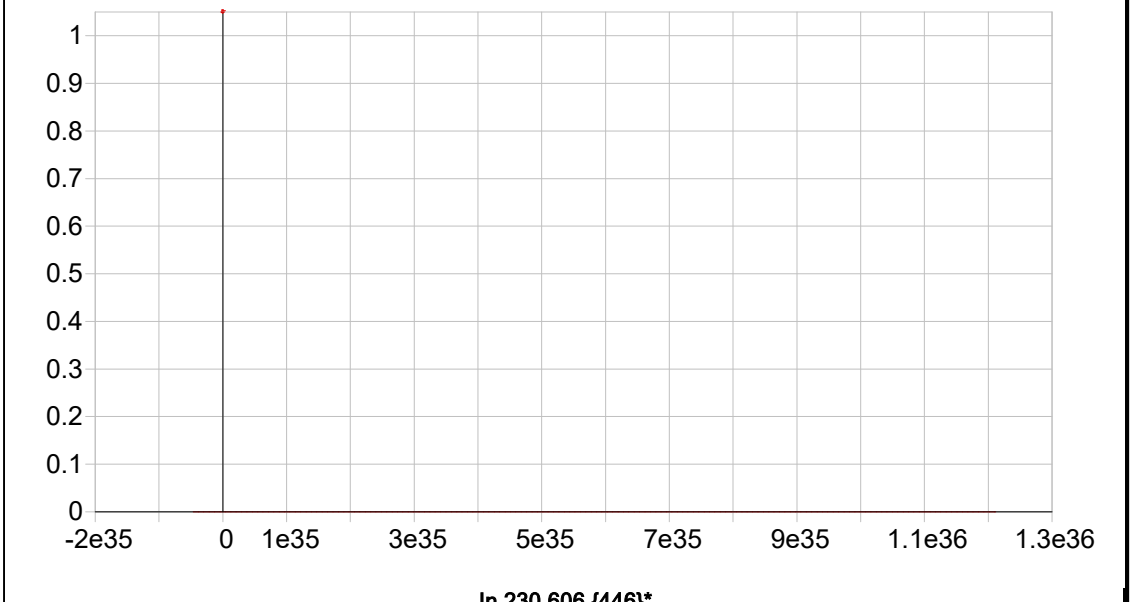


Y 224.306 {150}*

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:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S0 Acquired: 10/29/2025 13:36:14 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**-.00001**	**.00034**	**.00020**	**.00054**	**.00126**	**-.00043**	**.09471**	**-.00266**
Stddev	.00013	.00007	.00028	.00008	.00016	.00070	.00367	.00050
%RSD	1479.1	22.231	140.93	14.783	12.447	162.31	3.8712	18.702
#1	.00007	.00034	-.00004	.00060	.00118	.00037	.09873	-.00320
#2	.00007	.00041	.00012	.00056	.00115	-.00076	.09384	-.00222
#3	-.00016	.00026	.00051	.00045	.00144	-.00089	.09155	-.00256

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	**-.00062**	**.00126**	**.00015**	**.00008**	**.00068**	**.00003**	**-.00010**	**.00022**
Stddev	.00016	.00071	.00006	.00012	.00028	.00001	.00022	.00020
%RSD	26.619	56.076	43.194	153.23	41.932	39.679	209.10	89.365
#1	-.00072	.00206	.00007	.00001	.00044	.00004	-.00003	.00022
#2	-.00043	.00076	.00019	.00000	.00100	.00002	-.00035	.00042
#3	-.00071	.00095	.00018	.00022	.00060	.00004	.00007	.00002

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00081**	**-.00092**	**.00353**	**-.00050**	**.00448**	**-.00090**	**.01615**	**.00076**
Stddev	.00002	.00005	.00002	.00026	.00074	.00002	.00107	.00007
%RSD	1.8862	5.0510	.52916	51.384	16.582	1.6935	6.6317	9.0802
#1	-.00080	-.00087	.00352	-.00079	.00464	-.00090	.01730	.00076
#2	-.00080	-.00092	.00351	-.00040	.00367	-.00091	.01519	.00083
#3	-.00083	-.00097	.00355	-.00030	.00513	-.00088	.01596	.00069

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	**.00242**	**.00218**	**.00012**	**-.00093**	**.00152**	**.00694**	**-.00017**
Stddev	.00009	.00011	.00003	.00006	.00008	.00159	.00095
%RSD	3.6371	5.2838	28.266	6.9618	5.4496	22.885	556.65
#1	.00232	.00223	.00008	-.00098	.00161	.00780	.00092
#2	.00245	.00204	.00013	-.00095	.00145	.00790	-.00082
#3	.00249	.00225	.00014	-.00086	.00150	.00510	-.00062

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S0 Acquired: 10/29/2025 13:36:14 Type: Cal
Method: 6010-200.7 NEW(v324) 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	6261.7	98570.	7232.0	4986.8	7788.7
Stddev	2.2	1272.	55.7	64.5	3.7
%RSD	.03481	1.2906	.77048	1.2930	.04744
#1	6259.7	98029.	7178.6	4943.9	7792.7
#2	6261.4	100020.	7289.8	5060.9	7787.9
#3	6264.0	97658.	7227.6	4955.5	7785.5

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S1 Acquired: 10/29/2025 13:40:38 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**.00112**	**.00259**	**.00256**	**.00155**	**.00606**	**.00906**	**.34635**	**.06277**
Stddev	.00005	.00012	.00022	.00003	.00007	.00036	.00694	.00081
%RSD	4.4177	4.6992	8.6155	2.0844	1.2217	3.9836	2.0038	1.2873
#1	.00115	.00263	.00233	.00158	.00602	.00867	.34115	.06295
#2	.00106	.00245	.00260	.00155	.00615	.00913	.34367	.06347
#3	.00113	.00268	.00277	.00151	.00602	.00939	.35423	.06189

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	**.01836**	**.12614**	**.00232**	**.03262**	**.01547**	**.00029**	**.00961**	**.02707**
Stddev	.00015	.00050	.00005	.00028	.00035	.00002	.00024	.00009
%RSD	.82614	.39612	2.1344	.84426	2.2527	6.6332	2.4721	.34171
#1	.01824	.12646	.00227	.03270	.01508	.00028	.00981	.02718
#2	.01830	.12556	.00237	.03285	.01559	.00031	.00968	.02705
#3	.01853	.12638	.00232	.03231	.01575	.00027	.00935	.02700

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	**.02438**	**.00122**	**.02795**	**.00485**	**.10769**	**.00637**	**.11528**	**.13271**
Stddev	.00013	.00006	.00017	.00014	.00009	.00006	.00101	.00039
%RSD	.54780	5.1416	.60941	2.8107	.08174	.96727	.87953	.29144
#1	.02453	.00129	.02803	.00501	.10760	.00634	.11411	.13266
#2	.02430	.00121	.02807	.00482	.10770	.00644	.11583	.13234
#3	.02430	.00116	.02776	.00474	.10778	.00632	.11591	.13311

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	**.00868**	**.01351**	**.00103**	**-.00004**	**.00206**	**.02496**	**.15407**
Stddev	.00012	.00027	.00002	.00006	.00004	.00184	.00099
%RSD	1.3589	2.0073	1.8909	139.86	2.0965	7.3888	.64436
#1	.00873	.01369	.00105	.00000	.00211	.02511	.15307
#2	.00877	.01319	.00101	-.00002	.00202	.02304	.15408
#3	.00855	.01364	.00105	-.00010	.00206	.02672	.15506

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S1 Acquired: 10/29/2025 13:40:38 Type: Cal
Method: 6010-200.7 NEW(v324) 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	6155.7	96062.	7188.0	4869.7	7568.9
Stddev	12.7	167.	33.2	18.9	8.7
%RSD	.20607	.17424	.46169	.38810	.11535
#1	6166.7	95967.	7196.7	4856.5	7577.4
#2	6158.5	96255.	7216.0	4891.3	7569.2
#3	6141.8	95964.	7151.4	4861.2	7559.9

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S2 Acquired: 10/29/2025 13:44:57 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**.04597**	**.04947**	**.17767**	**.03828**	**.08120**	**.18165**	**4.1379**	**.44403**	**1.3329**
Stddev	.00010	.00029	.00024	.00011	.00018	.00079	.0222	.00350	.0019
%RSD	.21916	.57693	.13566	.28871	.22691	.43698	.53644	.78772	.14206
#1	.04601	.04953	.17747	.03816	.08109	.18092	4.1509	.44766	1.3311
#2	.04585	.04971	.17794	.03838	.08109	.18250	4.1506	.44374	1.3328
#3	.04605	.04915	.17761	.03832	.08141	.18154	4.1123	.44068	1.3349

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	**.26127**	**.03809**	**.44776**	**.14765**	**.00220**	**.18694**	**.05362**	**.26029**	**.04252**
Stddev	.00114	.00084	.00088	.00035	.00005	.00143	.00029	.00033	.00098
%RSD	.43779	2.1971	.19659	.23383	2.0599	.76570	.54532	.12674	2.3129
#1	.26224	.03842	.44703	.14725	.00221	.18831	.05383	.25998	.04295
#2	.26156	.03714	.44752	.14779	.00215	.18705	.05374	.26025	.04139
#3	.26001	.03872	.44874	.14790	.00224	.18546	.05329	.26064	.04321

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	**.05415**	**.05566**	**1.1057**	**.01426**	**.88361**	**.56115**	**.13254**	**.26185**	**.00222**
Stddev	.00106	.00057	.0239	.00036	.00572	.00088	.00029	.00057	.00006
%RSD	1.9512	1.0163	2.1565	2.5306	.64734	.15659	.21547	.21733	2.7087
#1	.05430	.05631	1.1212	.01434	.89016	.56156	.13235	.26228	.00221
#2	.05303	.05541	1.0783	.01387	.88107	.56015	.13287	.26206	.00217
#3	.05513	.05526	1.1177	.01458	.87960	.56176	.13241	.26120	.00228

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03580**	**.02493**	**.81430**	**6.2647**
Stddev	.00009	.00005	.00223	.0079
%RSD	.24339	.21859	.27390	.12605
#1	.03570	.02496	.81658	6.2580
#2	.03586	.02487	.81420	6.2734
#3	.03583	.02496	.81212	6.2627

Sample Name: S2 Acquired: 10/29/2025 13:44:57 Type: Cal
Method: 6010-200.7 NEW(v324) 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	6203.2	96049.	7166.8	4845.7	7438.5
Stddev	8.0	1863.	52.6	100.5	6.6
%RSD	.12952	1.9394	.73453	2.0745	.08815
#1	6209.3	95316.	7110.8	4789.3	7443.5
#2	6206.1	98167.	7174.3	4961.7	7441.0
#3	6194.1	94664.	7215.3	4786.0	7431.1

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S3 Acquired: 10/29/2025 13:49:02 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**.14771**	**.14656**	**.57235**	**.12093**	**.25841**	**.52454**	**12.858**	**1.4487**	**4.3717**
Stddev	.00068	.00518	.00152	.00069	.00080	.00129	.081	.0052	.0052
%RSD	.46012	3.5348	.26543	.56766	.30817	.24670	.63031	.36193	.11887
#1	.14780	.15254	.57091	.12108	.25778	.52307	12.884	1.4466	4.3689
#2	.14698	.14361	.57221	.12018	.25815	.52551	12.923	1.4546	4.3686
#3	.14833	.14353	.57393	.12153	.25931	.52504	12.767	1.4448	4.3777

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	**.82418**	**.12039**	**1.4516**	**.47869**	**.00672**	**.58359**	**.16956**	**.83749**	**.13739**
Stddev	.00228	.00009	.0027	.00188	.00003	.00281	.00159	.00133	.00012
%RSD	.27653	.07213	.18871	.39263	.40544	.48099	.93659	.15915	.08484
#1	.82267	.12029	1.4503	.47708	.00669	.58392	.16773	.83605	.13743
#2	.82680	.12045	1.4498	.47822	.00673	.58622	.17059	.83773	.13748
#3	.82306	.12042	1.4548	.48075	.00674	.58064	.17036	.83868	.13726

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	**.16523**	**.17907**	**3.4019**	**.04772**	**2.8247**	**1.7779**	**.42748**	**.83058**	**.00697**
Stddev	.00042	.00081	.0020	.00012	.0043	.0035	.00136	.00140	.00005
%RSD	.25337	.45452	.05819	.24435	.15158	.19735	.31799	.16915	.75744
#1	.16480	.17839	3.4014	.04785	2.8225	1.7765	.42801	.82967	.00692
#2	.16564	.17886	3.4041	.04770	2.8297	1.7752	.42593	.83220	.00703
#3	.16524	.17997	3.4003	.04761	2.8220	1.7818	.42849	.82988	.00696

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12004**	**.07813**	**2.5611**	**19.994**
Stddev	.00073	.00068	.0193	.113
%RSD	.61196	.87374	.75495	.56718
#1	.12077	.07876	2.5618	19.999
#2	.11931	.07741	2.5801	20.105
#3	.12003	.07822	2.5414	19.878

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S3 Acquired: 10/29/2025 13:49:02 Type: Cal
Method: 6010-200.7 NEW(v324) 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	5884.9	90456.	6762.3	4527.6	6846.5
Stddev	6.0	327.	24.7	21.0	2.9
%RSD	.10274	.36177	.36574	.46484	.04249
#1	5891.1	90834.	6786.4	4551.5	6848.0
#2	5884.7	90281.	6737.0	4511.8	6848.4
#3	5879.0	90254.	6763.6	4519.6	6843.2

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S4 Acquired: 10/29/2025 13:53:02 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**.27522**	**.26758**	**1.0757**	**.22554**	**.48929**	**.92093**	**24.287**	**2.7087**	**8.2396**
Stddev	.00054	.00645	.0021	.00047	.00044	.00111	.039	.0061	.0071
%RSD	.19554	2.4111	.19013	.20722	.09009	.12048	.16240	.22362	.08629
#1	.27565	.27075	1.0750	.22608	.48978	.92120	24.259	2.7087	8.2365
#2	.27461	.27184	1.0741	.22525	.48893	.91971	24.270	2.7026	8.2346
#3	.27539	.26016	1.0780	.22529	.48916	.92188	24.332	2.7148	8.2477

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	**1.5517**	**.22162**	**2.7776**	**.86152**	**.01236**	**1.0988**	**.32209**	**1.5922**	**.25981**
Stddev	.0019	.00148	.0051	.00173	.00008	.0020	.00137	.0022	.00056
%RSD	.12188	.66610	.18438	.20076	.61183	.18603	.42678	.13639	.21376
#1	1.5495	.21998	2.7756	.85999	.01231	1.0984	.32099	1.5923	.25918
#2	1.5528	.22204	2.7737	.86117	.01245	1.0970	.32166	1.5900	.26021
#3	1.5529	.22285	2.7834	.86339	.01233	1.1010	.32363	1.5944	.26005

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	**.31133**	**.33986**	**6.2863**	**.09235**	**5.3960**	**3.3382**	**.81893**	**1.5821**	**.01328**
Stddev	.00140	.00062	.0110	.00056	.0101	.0025	.00169	.0021	.00007
%RSD	.44968	.18214	.17566	.60803	.18795	.07551	.20661	.13188	.52793
#1	.30974	.33926	6.2736	.09172	5.3921	3.3383	.82035	1.5800	.01320
#2	.31192	.34050	6.2915	.09280	5.3885	3.3356	.81706	1.5821	.01329
#3	.31235	.33983	6.2937	.09253	5.4076	3.3406	.81937	1.5841	.01334

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.23577**	**.15276**	**4.8245**	**37.839**
Stddev	.00024	.00052	.0141	.562
%RSD	.10159	.33985	.29227	1.4855
#1	.23587	.15336	4.8090	37.396
#2	.23595	.15246	4.8281	37.650
#3	.23550	.15245	4.8365	38.472

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S4 Acquired: 10/29/2025 13:53:02 Type: Cal
Method: 6010-200.7 NEW(v324) 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	6043.2	92917.	6979.1	4633.1	6838.9
Stddev	8.9	623.	39.9	35.3	8.8
%RSD	.14745	.67085	.57170	.76186	.12935
#1	6053.4	93557.	7001.2	4665.8	6848.8
#2	6036.8	92883.	7003.0	4637.8	6836.1
#3	6039.5	92311.	6933.0	4595.7	6831.8

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S5 Acquired: 10/29/2025 13:57:06 Type: Cal
Method: 6010-200.7 NEW(v324) 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	**.53944**	**.52121**	**2.1670**	**.43913**	**.96152**	**1.8027**	**48.792**	**5.1603**	**16.507**
Stddev	.00053	.02243	.0033	.00095	.00127	.0055	.583	.0291	.038
%RSD	.09871	4.3032	.15282	.21556	.13235	.30490	1.1953	.56319	.23123
#1	.53934	.54710	2.1708	.44020	.96121	1.8000	49.342	5.1522	16.551
#2	.54001	.50905	2.1651	.43883	.96042	1.7990	48.180	5.1361	16.481
#3	.53896	.50749	2.1651	.43838	.96291	1.8090	48.855	5.1925	16.490

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	**3.0573**	**.43056**	**5.5957**	**1.6761**	**.02489**	**2.1778**	**.63275**	**3.1970**	**.51072**
Stddev	.0086	.00066	.0091	.0024	.00013	.0087	.00274	.0056	.00054
%RSD	.27959	.15279	.16263	.14054	.50644	.39914	.43230	.17516	.10571
#1	3.0487	.43006	5.6061	1.6740	.02478	2.1680	.62972	3.2033	.51104
#2	3.0573	.43131	5.5895	1.6758	.02503	2.1807	.63349	3.1925	.51102
#3	3.0658	.43032	5.5914	1.6786	.02488	2.1846	.63504	3.1953	.51010

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	**.61985**	**.67641**	**12.148**	**.18889**	**10.315**	**6.5249**	**1.6304**	**3.1301**	**.02690**
Stddev	.00418	.00272	.029	.00074	.063	.0074	.0071	.0049	.00016
%RSD	.67431	.40207	.23975	.38946	.60704	.11358	.43697	.15736	.58849
#1	.61924	.67478	12.177	.18890	10.316	6.5329	1.6384	3.1267	.02676
#2	.62431	.67489	12.119	.18962	10.252	6.5184	1.6278	3.1278	.02707
#3	.61601	.67955	12.148	.18815	10.377	6.5233	1.6249	3.1357	.02688

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.48466**	**.31185**	**9.5286**	**74.495**
Stddev	.00271	.00214	.0287	.603
%RSD	.55824	.68641	.30135	.81003
#1	.48745	.31432	9.5000	73.807
#2	.48205	.31059	9.5283	74.937
#3	.48446	.31065	9.5575	74.740

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: S5 Acquired: 10/29/2025 13:57:06 Type: Cal
Method: 6010-200.7 NEW(v324) 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	5875.5	91326.	6979.0	4568.2	6441.5
Stddev	6.0	114.	34.8	16.2	15.8
%RSD	.10261	.12473	.49834	.35397	.24512
#1	5874.4	91323.	6983.6	4550.8	6423.7
#2	5882.0	91215.	7011.2	4571.0	6453.7
#3	5870.1	91442.	6942.1	4582.8	6447.2

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICV01 Acquired: 10/29/2025 14:01:20 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**3.764472**	**3.970815**	**3.650856**	**3.778692**	**3.849122**	**7.263235**
Stddev	.011409	.180168	.002956	.011344	.008908	.017926
%RSD	.3030705	4.537303	.0809774	.3002040	.2314306	.2467982
#1	3.777515	4.175769	3.651200	3.791645	3.840079	7.247701
#2	3.756346	3.899256	3.647743	3.770529	3.849397	7.282849
#3	3.759554	3.837421	3.653625	3.773902	3.857889	7.259155

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.487683**	**.1881639**	**1.862307**	**18.70695**	**.7699359**	**1.875550**
Stddev	.049400	.0009678	.000434	.04867	.0030423	.001489
%RSD	.6597489	.5143534	.0233292	.2601712	.3951424	.0793711
#1	7.542885	.1892763	1.862761	18.68787	.7716792	1.874476
#2	7.472526	.1876998	1.862264	18.67071	.7717055	1.874925
#3	7.447637	.1875155	1.861896	18.76227	.7664229	1.877250

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9610564**	**3.786311**	**1.868415**	**18.73602**	**1.878021**	**.9692426**
Stddev	.0016789	.016832	.010398	.05769	.002945	.0021427
%RSD	.1746968	.4445517	.5564882	.3078932	.1567929	.2210650
#1	.9594709	3.802844	1.880413	18.71298	1.876160	.9716508
#2	.9608829	3.786895	1.862794	18.69341	1.876487	.9685301
#3	.9628153	3.769195	1.862038	18.80166	1.881416	.9675470

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.81848**	**1.857929**	**1.895587**	**18.67690**	**3.681743**	**3.830986**
Stddev	.03370	.000942	.004979	.08402	.013962	.005317
%RSD	.1791032	.0507016	.2626650	.4498493	.3792102	.1387798
#1	18.80498	1.857032	1.899038	18.76565	3.697722	3.835078
#2	18.85684	1.857844	1.897843	18.66645	3.671900	3.824976
#3	18.79361	1.858911	1.889879	18.59859	3.675607	3.832903

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICV01 Acquired: 10/29/2025 14:01:20 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.785073	3.739621	F 3.519975	F .0046740	F .0237317	F -.003574
Stddev	.009537	.010622	.014784	.0005223	.0040319	.000801
%RSD	.2519527	.2840317	.4199964	11.17563	16.98936	22.41756
#1	3.795718	3.751374	3.518672	.0044311	.0218097	-.002802
#2	3.777309	3.736783	3.535367	.0052735	.0210205	-.004401
#3	3.782194	3.730707	3.505885	.0043173	.0283650	-.003519

Elem	Sr4077
Units	ppm
Avg	F -.003012
Stddev	.000039
%RSD	1.297532
#1	-.002992
#2	-.003057
#3	-.002986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6160.555	94534.31	7292.244	4753.560	7075.244
Stddev	13.466	452.47	24.421	32.183	14.889
%RSD	.2185893	.4786252	.3348928	.6770307	.2104437
#1	6150.465	94377.41	7271.953	4738.281	7064.475
#2	6175.846	94181.18	7285.432	4731.862	7092.235
#3	6155.354	95044.34	7319.348	4790.536	7069.022

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LLICV01 Acquired: 10/29/2025 14:07:40 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0210553**	**.0463144**	**.0117190**	**.0230825**	**.0515223**	**.1029837**
Stddev	.0014325	.0025064	.0008309	.0013781	.0024293	.0123891
%RSD	6.803670	5.411758	7.089969	5.970439	4.715092	12.03014
#1	.0204275	.0484053	.0122790	.0216436	.0487232	.1079356
#2	.0226946	.0435359	.0107644	.0243905	.0530810	.1121309
#3	.0200439	.0470019	.0121137	.0232134	.0527627	.0888845

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1050841**	**.0064481**	**.0058332**	**2.078907**	**.0102518**	**.0299516**
Stddev	.0013103	.0000890	.0000236	.020677	.0002611	.0001269
%RSD	1.246910	1.380818	.4054114	.9946140	2.546500	.4236405
#1	.1051304	.0065029	.0058215	2.102651	.0100041	.0299958
#2	.1037513	.0063453	.0058605	2.069208	.0102268	.0300505
#3	.1063706	.0064960	.0058178	2.064862	.0105244	.0298085

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220424**	**.1072966**	**.0210845**	**2.155099**	**.0403917**	**.0105850**
Stddev	.0001332	.0048316	.0001135	.044564	.0003182	.0003705
%RSD	.6042516	4.503024	.5380973	2.067859	.7877895	3.500245
#1	.0218950	.1093583	.0210226	2.199856	.0404934	.0108615
#2	.0221542	.1017762	.0212155	2.110730	.0400351	.0101640
#3	.0220779	.1107554	.0210155	2.154710	.0406466	.0107295

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.007426**	**.0410484**	**.0432694**	**1.878880**	**.1022255**	**.2051291**
Stddev	.021428	.0040720	.0001427	.028995	.0014037	.0004649
%RSD	1.067449	9.920067	.3298594	1.543208	1.373133	.2266342
#1	1.997762	.0453110	.0433745	1.905244	.1024884	.2056629
#2	2.031984	.0371983	.0433267	1.883572	.1007090	.2048131
#3	1.992532	.0406360	.0431069	1.847826	.1034792	.2049113

Sample Name: LLICV01 Acquired: 10/29/2025 14:07:40 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0398141	.0382810	.3638532	.0189381	F .0124239	.0219099
Stddev	.0001082	.0020525	.0154514	.0020620	.0029877	.0027384
%RSD	.2716296	5.361733	4.246606	10.88804	24.04839	12.49839
#1	.0398197	.0399014	.3584293	.0168767	.0096052	.0244641
#2	.0397033	.0359730	.3812852	.0189370	.0155560	.0190186
#3	.0399194	.0389687	.3518449	.0210006	.0121104	.0222470

Elem	Sr4077
Units	ppm
Avg	.0213964
Stddev	.0001493
%RSD	.6978913
#1	.0212878
#2	.0215667
#3	.0213347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5992.948	92800.84	7016.174	4584.937	7401.945
Stddev	4.907	281.97	61.465	2.637	5.512
%RSD	.0818816	.3038419	.8760514	.0575063	.0744705
#1	5989.741	92967.47	7009.725	4586.606	7401.234
#2	5998.597	92475.28	7080.610	4581.898	7407.778
#3	5990.506	92959.76	6958.188	4586.308	7396.823

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICB01 Acquired: 10/29/2025 14:12:28 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000192**	**-.001332**	**.0000368**	**.0016523**	**-.003057**	**.0003858**
Stddev	.000787	.001046	.0005023	.0008440	.000979	.0072532
%RSD	410.1887	78.53132	1365.005	51.07542	32.01522	1879.993
#1	-.000201	-.000727	.0005504	.0007453	-.002924	.0087098
#2	.000600	-.000729	.0000134	.0024143	-.002152	-.004578
#3	-.000975	-.002540	-.000453	.0017975	-.004095	-.002975

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035380**	**.0000412**	**-.000062**	**.0010978**	**.0000599**	**-.000035**
Stddev	.0025030	.0000721	.000054	.0082217	.0000459	.000031
%RSD	70.74690	174.8109	87.61879	748.9517	76.63327	89.95037
#1	.0042512	.0001137	-.000061	-.006887	.0000990	-.000013
#2	.0056070	.0000405	-.000117	.009538	.0000094	-.000071
#3	.0007558	-.000030	-.000008	.000642	.0000712	-.000021

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000516**	**-.006560**	**.0005152**	**-.024158**	**.0002702**	**.0003049**
Stddev	.000200	.005761	.0007034	.022326	.0002685	.0005840
%RSD	38.83250	87.81276	136.5371	92.41517	99.35831	191.5602
#1	-.000559	-.013210	-.000252	-.046185	.0002335	-.000240
#2	-.000691	-.003379	.000669	-.001544	.0000220	.000233
#3	-.000297	-.003091	.001129	-.024746	.0005552	.000922

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.061099**	**.0030227**	**-.000323**	**-.117359**	**-.002559**	**.0005143**
Stddev	.007193	.0019150	.000224	.022375	.000422	.0001096
%RSD	11.77305	63.35504	69.12205	19.06515	16.48106	21.30741
#1	-.065231	.0040296	-.000483	-.135626	-.002508	.0006028
#2	-.065274	.0008143	-.000419	-.092402	-.002165	.0003917
#3	-.052793	.0042242	-.000068	-.124047	-.003004	.0005485

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICB01 Acquired: 10/29/2025 14:12:28 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0221066	-.000413	-.014888	-.000708	-.005562	.0003302
Stddev	.0005889	.000623	.013234	.000877	.001726	.0008800
%RSD	2.663777	150.9524	88.88871	123.8989	31.02370	266.5366
#1	.0215687	.000286	-.009134	-.001373	-.007446	.0007728
#2	.0220154	-.000911	-.030026	-.001038	-.004057	-.000683
#3	.0227358	-.000614	-.005505	.000286	-.005184	.000901

Elem	Sr4077
Units	ppm
Avg	.0000605
Stddev	.0001189
%RSD	196.6178
#1	-.000032
#2	.000195
#3	.000018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6130.168	95144.69	7278.849	4650.652	7739.233
Stddev	.991	99.26	40.738	16.040	.602
%RSD	.0161591	.1043274	.5596724	.3449073	.0077807
#1	6131.055	95240.90	7313.596	4669.094	7739.250
#2	6129.099	95150.54	7234.015	4639.941	7739.826
#3	6130.350	95042.63	7288.935	4642.921	7738.622

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CRI01 Acquired: 10/29/2025 14:16:49 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0198693**	**.0442487**	**.0115949**	**.0229665**	**.0499050**	**.0970909**
Stddev	.0010023	.0029648	.0004578	.0029018	.0008476	.0057034
%RSD	5.044226	6.700347	3.948342	12.63508	1.698511	5.874257
#1	.0191181	.0429587	.0112327	.0263172	.0507946	.1036746
#2	.0194824	.0476400	.0114426	.0213138	.0491066	.0939383
#3	.0210073	.0421474	.0121095	.0212686	.0498139	.0936598

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1017535**	**.0064134**	**.0058416**	**2.053676**	**.0103176**	**.0295674**
Stddev	.0009582	.0000319	.0000096	.014919	.0001461	.0000869
%RSD	.9416558	.4980086	.1645031	.7264683	1.415942	.2938956
#1	.1027274	.0064493	.0058312	2.044484	.0102900	.0295266
#2	.1017211	.0063880	.0058501	2.045654	.0101873	.0295084
#3	.1008119	.0064030	.0058436	2.070890	.0104755	.0296672

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0216022**	**.0979502**	**.0219929**	**2.124475**	**.0402649**	**.0110273**
Stddev	.0004109	.0059532	.0007662	.014744	.0001548	.0001768
%RSD	1.902249	6.077745	3.483662	.6939900	.3844968	1.603149
#1	.0218966	.0928396	.0223495	2.110218	.0401327	.0110620
#2	.0217772	.0965242	.0211134	2.139661	.0402267	.0108357
#3	.0211327	.1044869	.0225157	2.123546	.0404352	.0111841

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.942506**	**.0432077**	**.0423786**	**1.846613**	**.0968181**	**.2024829**
Stddev	.019562	.0017844	.0003747	.008586	.0009023	.0005072
%RSD	1.007071	4.129839	.8840905	.4649635	.9319336	.2504645
#1	1.921664	.0449517	.0426670	1.856408	.0978592	.2023076
#2	1.960470	.0432860	.0419551	1.840388	.0962650	.2030544
#3	1.945384	.0413854	.0425136	1.843043	.0963300	.2020866

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CRI01 Acquired: 10/29/2025 14:16:49 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0391850	.0365897	.3647980	.0188387	F .0132147	.0223118
Stddev	.0002582	.0002898	.0160803	.0016612	.0024170	.0007715
%RSD	.6588787	.7919785	4.408008	8.817919	18.28988	3.458057
#1	.0388915	.0362727	.3531115	.0203445	.0150982	.0214565
#2	.0393770	.0366556	.3581454	.0170567	.0140565	.0229554
#3	.0392864	.0368410	.3831371	.0191150	.0104894	.0225235

Elem	Sr4077
Units	ppm
Avg	.0211336
Stddev	.0001324
%RSD	.6262824
#1	.0212356
#2	.0209840
#3	.0211811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6030.828	93745.77	7039.782	4650.586	7429.757
Stddev	8.698	94.60	57.706	8.457	9.180
%RSD	.1442275	.1009139	.8197062	.1818490	.1235624
#1	6040.353	93806.04	6977.212	4644.273	7440.345
#2	6023.306	93794.55	7090.909	4660.194	7424.013
#3	6028.826	93636.74	7051.223	4647.290	7424.913

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSA01 Acquired: 10/29/2025 14:21:04 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0047665**	**.0103026**	**.0000376**	**.0017615**	**-.003016**	**238.2085**	**.0057226**
Stddev	.0002845	.0015953	.0007812	.0034386	.000976	.3389	.0015002
%RSD	5.967714	15.48478	2078.874	195.2076	32.33993	.1422873	26.21530
#1	.0048312	.0117855	.0006006	-.001982	-.002079	238.4740	.0070367
#2	.0044553	.0105076	-.000854	.004780	-.004026	237.8267	.0040881
#3	.0050130	.0086147	.000366	.002486	-.002945	238.3249	.0060431

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016957**	**.0006609**	**230.9623**	**.0488980**	**.0016167**	**.0140734**	**95.03462**
Stddev	.0001226	.0001396	.2804	.0004734	.0001400	.0005527	1.17085
%RSD	7.232254	21.11586	.1213882	.9681616	8.658784	3.927532	1.232020
#1	.0016641	.0008172	231.2405	.0483724	.0017553	.0146067	93.71110
#2	.0018310	.0006170	230.9665	.0490309	.0014754	.0135031	95.93534
#3	.0015920	.0005486	230.6798	.0492908	.0016194	.0141103	95.45743

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077844**	**245.6645**	**.0048467**	**.0008880**	**.1253627**	**.0049808**	**.0037220**
Stddev	.0002441	.8170	.0003438	.0002663	.0203736	.0001946	.0001891
%RSD	3.135587	.3325618	7.093516	29.98755	16.25170	3.907096	5.081219
#1	.0078965	246.5715	.0048733	.0006838	.1031716	.0047609	.0039315
#2	.0075044	245.4359	.0051765	.0007909	.1432221	.0050507	.0036708
#3	.0079522	244.9862	.0044904	.0011891	.1296944	.0051308	.0035638

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221409**	**.0569306**	**.0012487**	**.0184667**	**-.004641**	**.0039121**	**.0077631**
Stddev	.0479267	.0044004	.0002403	.0004087	.000730	.0185462	.0014627
%RSD	216.4625	7.729464	19.24449	2.213104	15.71957	474.0713	18.84096
#1	-.016778	.0518552	.0013893	.0180122	-.003955	-.009617	.0076516
#2	.075673	.0592582	.0009713	.0188040	-.005408	.025053	.0063595
#3	.007527	.0596784	.0013857	.0185840	-.004561	-.003700	.0092784

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSA01 Acquired: 10/29/2025 14:21:04 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.000657	F -.023720	.0050392
Stddev	.000825	.001308	.0015227
%RSD	125.6119	5.515234	30.21710
#1	-.000903	-.023133	.0067079
#2	-.001331	-.025219	.0037252
#3	.000263	-.022808	.0046843

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5744.452	86600.78	6866.950	4410.128	6201.587
Stddev	10.769	121.63	72.056	.767	11.309
%RSD	.1874622	.1404476	1.049314	.0173846	.1823490
#1	5749.754	86741.19	6783.859	4409.326	6207.645
#2	5751.541	86527.72	6904.758	4410.202	6208.577
#3	5732.060	86533.44	6912.233	4410.854	6188.541

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSAB01 Acquired: 10/29/2025 14:25:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.1048885**	**.1051475**	**.0473592**	**.0510748**	**.5796515**	**236.4256**
Stddev	.0010388	.0020074	.0043663	.0037338	.0001643	.3401
%RSD	.9903834	1.909160	9.219611	7.310416	.0283462	.1438382
#1	.1037896	.1071244	.0522342	.0506302	.5795937	236.5936
#2	.1058544	.1052073	.0438079	.0475831	.5798369	236.0342
#3	.1050214	.1031108	.0460353	.0550109	.5795239	236.6490

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4776329**	**.5012885**	**.9630589**	**229.1758**	**.5378894**	**.4855431**
Stddev	.0014894	.0038676	.0021894	.4851	.0023629	.0013611
%RSD	.3118325	.7715291	.2273337	.2116513	.4392988	.2803184
#1	.4779745	.5055038	.9605313	229.4406	.5363130	.4839767
#2	.4760023	.4979036	.9642811	228.6160	.5367488	.4862159
#3	.4789217	.5004579	.9643644	229.4708	.5406062	.4864367

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4744475**	**94.74832**	**.4787434**	**243.6830**	**.9675804**	**.2016066**
Stddev	.0003112	.61266	.0019324	.6744	.0031255	.0007886
%RSD	.0655997	.6466143	.4036302	.2767429	.3230166	.3911365
#1	.4744804	94.04300	.4767579	244.2082	.9640857	.2006961
#2	.4747409	95.05370	.4788547	242.9225	.9701081	.2020531
#3	.4741211	95.14827	.4806178	243.9184	.9685472	.2020705

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0957745**	**.4686423**	**.9985241**	**-.081141**	**.9770021**	**.9592048**
Stddev	.0103290	.0028354	.0031765	.022695	.0050716	.0026737
%RSD	10.78471	.6050269	.3181169	27.96943	.5190984	.2787405
#1	.0882389	.4719086	.9961576	-.061379	.9827084	.9562226
#2	.0915360	.4672045	1.002134	-.105927	.9752893	.9600044
#3	.1075485	.4668138	.997280	-.076118	.9730087	.9613875

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSAB01 Acquired: 10/29/2025 14:25:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.9869540	.9362467	.9435175	F .0054394	F -.000250	F -.026015
Stddev	.0047679	.0032878	.0137496	.0011088	.001046	.001625
%RSD	.4830914	.3511728	1.457271	20.38434	418.3625	6.246951
#1	.9814678	.9400417	.9293980	.0065814	-.001377	-.026720
#2	.9900957	.9344415	.9568646	.0053697	-.000063	-.027169
#3	.9892985	.9342569	.9442899	.0043671	.000690	-.024156

Elem	Sr4077
Units	ppm
Avg	F .0057269
Stddev	.0005373
%RSD	9.381916
#1	.0063469
#2	.0054369
#3	.0053969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5762.989	87568.42	7006.970	4436.006	6219.246
Stddev	12.298	498.13	49.829	23.534	14.845
%RSD	.2133911	.5688512	.7111397	.5305129	.2386980
#1	5769.996	87923.45	6973.170	4453.063	6233.279
#2	5770.182	87782.84	7064.195	4445.797	6220.755
#3	5748.789	86998.98	6983.546	4409.157	6203.704

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSA01DLX20 Acquired: 10/29/2025 14:29:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0009044**	**-.000900**	**.0003351**	**.0012199**	**-.003677**	**12.31525**	**.0048630**
Stddev	.0034133	.002138	.0004213	.0015117	.001423	.06372	.0006907
%RSD	377.4326	237.6385	125.7039	123.9178	38.69061	.5173682	14.20256
#1	.0048457	-.003338	.0003714	.0011874	-.003389	12.31374	.0050383
#2	-.001047	.000657	-.000103	.0027475	-.005222	12.25230	.0054491
#3	-.001086	-.000018	.000737	-.000275	-.002420	12.37971	.0041015

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001980**	**.0000106**	**12.35909**	**.0026705**	**.0001976**	**.0008388**	**4.845437**
Stddev	.0000284	.0000260	.01881	.0001026	.0001938	.0000683	.022234
%RSD	14.34718	245.1430	.1521554	3.840195	98.07029	8.143741	.4588620
#1	.0002244	.0000384	12.36983	.0025548	.0004060	.0008069	4.821005
#2	.0001680	-.000013	12.33738	.0027063	.0001638	.0009173	4.850823
#3	.0002017	.000007	12.37006	.0027503	.0000229	.0007923	4.864484

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007371**	**13.01796**	**.0002100**	**.0002555**	**-.071760**	**.0033852**	**.0009943**
Stddev	.0002747	.06860	.0002079	.0003978	.011145	.0042590	.0002185
%RSD	37.27421	.5270023	98.99385	155.7241	15.53030	125.8113	21.97025
#1	.0008683	13.00761	.0002346	.0000027	-.084330	.0063658	.0008787
#2	.0009215	12.95511	.0004045	.0007141	-.063088	.0052825	.0008579
#3	.0004213	13.09115	-.000009	.0000496	-.067862	-.001493	.0012462

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.156821**	**-.002799**	**.0007575**	**.0225842**	**-.000017**	**-.009802**	**.0000709**
Stddev	.034389	.000170	.0002129	.0000952	.000588	.008258	.0012017
%RSD	21.92865	6.077914	28.10665	.4217310	3467.525	84.24199	1694.704
#1	-.124073	-.002953	.0005758	.0224746	-.000330	-.003102	.0011125
#2	-.192644	-.002829	.0007049	.0226476	-.000382	-.019028	-.001244
#3	-.153748	-.002616	.0009917	.0226302	.000661	-.007278	.000344

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSA01DLX20 Acquired: 10/29/2025 14:29:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.003515	-.001623	.0004696
Stddev	.002816	.003190	.0000586
%RSD	80.11826	196.6044	12.47923
#1	-.000521	.002021	.0004929
#2	-.006111	-.002979	.0004029
#3	-.003912	-.003910	.0005129

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5990.179	91678.18	6913.860	4553.141	7203.995
Stddev	11.618	198.59	40.362	10.196	19.529
%RSD	.1939567	.2166145	.5837836	.2239392	.2710898
#1	6003.300	91451.71	6908.949	4557.909	7220.096
#2	5981.196	91760.30	6956.453	4560.079	7182.271
#3	5986.041	91822.55	6876.179	4541.434	7209.619

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSAB01DLX20 Acquired: 10/29/2025 14:33:36 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0052736**	**.0073892**	**.0021516**	**-.000471**	**.0241661**	**11.98651**	**.0272352**
Stddev	.0000844	.0015872	.0014590	.001747	.0006888	.05714	.0009537
%RSD	1.599962	21.47962	67.80957	370.7459	2.850269	.4767057	3.501790
#1	.0053498	.0080972	.0030589	-.002196	.0235887	12.02155	.0283303
#2	.0051829	.0055713	.0004686	-.000515	.0239810	11.92057	.0265869
#3	.0052882	.0084992	.0029273	.001297	.0249285	12.01740	.0267884

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0258138**	**.0472794**	**11.99267**	**.0283545**	**.0238628**	**.0256302**	**4.709760**
Stddev	.0001762	.0000697	.02698	.0002373	.0000698	.0003466	.030184
%RSD	.6824601	.1473299	.2249887	.8368478	.2923524	1.352345	.6408901
#1	.0258823	.0473468	12.02067	.0284500	.0238153	.0252817	4.742831
#2	.0256137	.0472838	11.99050	.0280844	.0239429	.0259748	4.702754
#3	.0259454	.0472077	11.96684	.0285292	.0238301	.0256340	4.683694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0253892**	**12.63393**	**.0485147**	**.0099117**	**-.076021**	**.0258093**	**.0509310**
Stddev	.0002415	.06328	.0003676	.0008431	.017625	.0016628	.0002904
%RSD	.9512072	.5008489	.7576204	8.506398	23.18474	6.442479	.5702647
#1	.0256345	12.63704	.0485912	.0097914	-.090317	.0268619	.0512127
#2	.0251517	12.56915	.0481149	.0108085	-.081417	.0266736	.0506325
#3	.0253815	12.69559	.0488380	.0091352	-.056328	.0238924	.0509478

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.160009**	**.0440944**	**.0502341**	**.0682637**	**.0480353**	**.0317824**	**-.001046**
Stddev	.006146	.0001809	.0002373	.0003815	.0005686	.0104979	.000305
%RSD	3.841329	.4101785	.4724698	.5588807	1.183754	33.03054	29.20122
#1	-.153715	.0440340	.0500400	.0686395	.0473909	.0228846	-.001193
#2	-.165997	.0439514	.0504987	.0682750	.0482487	.0433607	-.000695
#3	-.160315	.0442977	.0501634	.0678767	.0484663	.0291019	-.001251

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: ICSAB01DLX20 Acquired: 10/29/2025 14:33:36 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.005708	-.000159	.0003990
Stddev	.003055	.001244	.0000706
%RSD	53.51476	783.9823	17.68822
#1	-.002748	.001256	.0004388
#2	-.008849	-.000650	.0003175
#3	-.005526	-.001082	.0004407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6159.626	94240.54	7115.829	4673.100	7404.922
Stddev	3.650	204.94	25.672	18.153	4.409
%RSD	.0592497	.2174686	.3607757	.3884507	.0595395
#1	6160.504	94016.01	7105.309	4654.878	7409.454
#2	6155.617	94288.03	7145.090	4673.238	7404.666
#3	6162.756	94417.56	7097.088	4691.183	7400.647

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV01 Acquired: 10/29/2025 14:37:48 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.957138**	**5.060443**	**4.903376**	**4.934411**	**4.972114**	**9.776444**	**9.728464**
Stddev	.007026	.195596	.005323	.013644	.006278	.023980	.034312
%RSD	.1417338	3.865199	.1085673	.2765109	.1262695	.2452873	.3526956
#1	4.952393	4.834681	4.901674	4.922670	4.979260	9.803490	9.754453
#2	4.953811	5.178926	4.899111	4.931183	4.967480	9.757779	9.741367
#3	4.965209	5.167722	4.909342	4.949380	4.969603	9.768062	9.689571

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2503138**	**2.463746**	**24.78163**	**1.005040**	**2.458061**	**1.240384**	**4.872119**
Stddev	.0017743	.002497	.05823	.002870	.002486	.001175	.034838
%RSD	.7088176	.1013415	.2349804	.2855575	.1011562	.0947035	.7150461
#1	.2497109	2.460871	24.83363	1.003061	2.455674	1.241604	4.881042
#2	.2489195	2.465367	24.71871	1.003729	2.457873	1.239261	4.901628
#3	.2523109	2.465001	24.79255	1.008332	2.460636	1.240287	4.833688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.457644**	**24.79424**	**2.459419**	**1.237425**	**24.41683**	**2.473843**	**2.490215**
Stddev	.007220	.09678	.002454	.002159	.13595	.002847	.006902
%RSD	.2937875	.3903401	.0997795	.1744873	.5567933	.1151031	.2771714
#1	2.464802	24.81503	2.456647	1.237239	24.46229	2.473734	2.486716
#2	2.457769	24.68875	2.460295	1.235365	24.52422	2.476744	2.485763
#3	2.450363	24.87893	2.461314	1.239671	24.26397	2.471052	2.498166

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.14600**	**4.970874**	**5.009337**	**4.978538**	**4.931139**	**4.868154**	**4.954822**
Stddev	.19127	.033620	.005952	.012831	.013800	.026663	.023072
%RSD	.7921380	.6763403	.1188153	.2577319	.2798567	.5477003	.4656387
#1	24.23486	4.950665	5.005513	4.964374	4.945780	4.888098	4.929634
#2	24.27669	4.952274	5.006305	4.981856	4.929266	4.878493	4.959904
#3	23.92647	5.009684	5.016195	4.989385	4.918371	4.837869	4.974929

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV01 Acquired: 10/29/2025 14:37:48 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.873408**	**4.869970**	**5.010995**
Stddev	.039422	.012003	.022453
%RSD	.8089147	.2464663	.4480651
#1	4.831551	4.883097	5.034878
#2	4.878842	4.867257	5.007791
#3	4.909831	4.859556	4.990317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6003.411**	**92866.52**	**6993.625**	**4622.969**	**6805.371**
Stddev	2.611	133.25	34.405	13.516	5.061
%RSD	.0434995	.1434875	.4919447	.2923584	.0743692
#1	6000.587	92972.24	7006.446	4616.497	6811.079
#2	6005.738	92716.84	7019.779	4638.504	6803.598
#3	6003.909	92910.48	6954.651	4613.907	6801.434

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB01 Acquired: 10/29/2025 14:41:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.000089**	**.0020637**	**.0001839**	**.0009606**	**-.003328**	**.0051323**	**.0048770**
Stddev	.001927	.0000888	.0006252	.0019061	.001391	.0020775	.0022777
%RSD	2168.944	4.304286	340.0043	198.4193	41.78192	40.48001	46.70376
#1	.002105	.0020866	-.000534	.0013259	-.004934	.0053047	.0048606
#2	-.000869	.0021389	.000609	.0026577	-.002547	.0029739	.0071629
#3	-.001503	.0019657	.000477	-.001102	-.002504	.0071182	.0026075

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000169**	**.0000070**	**-.005077**	**-.000099**	**-.000027**	**.0010626**	**.0094098**
Stddev	.0000489	.0000529	.003226	.000094	.000120	.0002476	.0029690
%RSD	289.8309	756.1371	63.53779	94.90667	440.2030	23.30414	31.55192
#1	.0000168	.0000618	-.007013	-.000199	-.000155	.0012703	.0062106
#2	-.000032	.0000031	-.006866	-.000011	-.000009	.0011290	.0120765
#3	.000066	-.000044	-.001353	-.000088	.000082	.0007885	.0099422

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005314**	**-.029931**	**-.000014**	**-.000176**	**-.069724**	**.0010150**	**.0001486**
Stddev	.0001874	.015724	.000158	.000196	.019499	.0039694	.0001140
%RSD	35.26485	52.53545	1140.095	111.4220	27.96569	391.0580	76.73664
#1	.0005366	-.046890	-.000057	-.000009	-.082117	.0022654	.0002735
#2	.0007162	-.015834	.000162	-.000127	-.079807	.0042087	.0000501
#3	.0003415	-.027069	-.000146	-.000391	-.047248	-.003429	.0001221

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.167364**	**-.000404**	**.0000060**	**.0012732**	**-.000554**	**.0042277**	**-.000664**
Stddev	.005673	.000520	.0000801	.0003337	.001047	.0015168	.000249
%RSD	3.389601	128.6589	1327.686	26.21086	189.1534	35.87690	37.48074
#1	-.170112	.000146	-.000026	.0012301	-.000022	.0056634	-.000377
#2	-.171140	-.000887	-.000053	.0016263	-.001760	.0043787	-.000826
#3	-.160840	-.000470	.000097	.0009631	.000121	.0026411	-.000788

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB01 Acquired: 10/29/2025 14:41:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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 -.015075	.0007996	.0000687
Stddev	.002050	.0014807	.0001335
%RSD	13.59988	185.1904	194.3856
#1	-.013629	.0024107	-.000020
#2	-.017421	.0004897	.000222
#3	-.014175	-.000502	.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5986.348	92642.15	6684.943	4551.774	7533.523
Stddev	15.600	445.49	53.677	19.825	18.373
%RSD	.2605955	.4808697	.8029597	.4355421	.2438814
#1	5976.801	92456.74	6676.321	4558.603	7531.679
#2	5977.894	93150.40	6636.098	4567.281	7516.142
#3	6004.351	92319.31	6742.409	4529.437	7552.748

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-1 Acquired: 10/29/2025 14:46:13 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0037872**	**.0109073**	**.0233735**	**-.017244**	**.0153631**	**.5206618**	**.0176998**
Stddev	.0027997	.0016254	.0017148	.004456	.0008356	.0127968	.0007456
%RSD	73.92746	14.90162	7.336589	25.84093	5.438791	2.457790	4.212699
#1	.0006511	.0119072	.0214053	-.014579	.0160283	.5332180	.0183991
#2	.0060353	.0090319	.0245458	-.014765	.0156357	.5211302	.0177852
#3	.0046750	.0117829	.0241692	-.022389	.0144253	.5076373	.0169151

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011089**	**.0014728**	**2161.947**	**.1055668**	**.0078365**	**.0122446**	**1.137518**
Stddev	.0000444	.0000980	14.166	.0007521	.0001576	.0005554	.027897
%RSD	4.007912	6.653173	.6552376	.7124764	2.011182	4.535933	2.452423
#1	.0011445	.0014710	2178.008	.1054853	.0077412	.0117751	1.110132
#2	.0011231	.0013757	2151.233	.1063564	.0077498	.0121010	1.165899
#3	.0010591	.0015717	2156.599	.1048588	.0080184	.0128577	1.136524

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0582312**	**2244.548**	**.0722934**	**.0028764**	**2335.241**	**.0142018**	**.0872567**
Stddev	.0040772	6.922	.0001649	.0005645	13.249	.0008283	.0001353
%RSD	7.001669	.3083902	.2280873	19.62535	.5673331	5.832055	.1550205
#1	.0610859	2252.148	.0721047	.0035242	2323.229	.0151565	.0871894
#2	.0535618	2238.603	.0723655	.0026154	2349.451	.0137731	.0871683
#3	.0600460	2242.895	.0724100	.0024896	2333.043	.0136758	.0874124

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.629128**	**.0058814**	**.0178279**	**.0012194**	**-.094672**	**-.023546**	**.0197037**
Stddev	.375064	.0010779	.0003237	.0003059	.003852	.044307	.0018202
%RSD	14.26571	18.32650	1.815738	25.08317	4.069052	188.1693	9.238021
#1	2.220491	.0071237	.0181175	.0012420	-.096825	-.016224	.0215202
#2	2.709209	.0051953	.0178880	.0009029	-.090224	-.071058	.0197113
#3	2.957683	.0053251	.0174784	.0015134	-.096966	.016643	.0178797

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-1 Acquired: 10/29/2025 14:46:13 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.2367036	-.318499	.0604631
Stddev	.0054746	.005018	.0003503
%RSD	2.312845	1.575413	.5793138
#1	.2426672	-.324193	.0606102
#2	.2319057	-.314724	.0600632
#3	.2355380	-.316580	.0607158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4116.067	64891.82	6413.679	3115.266	4325.405
Stddev	2.734	342.04	36.583	5.939	7.192
%RSD	.0664339	.5270857	.5703956	.1906422	.1662699
#1	4116.865	65160.47	6385.905	3122.101	4329.160
#2	4118.313	64506.78	6455.130	3111.361	4329.942
#3	4113.022	65008.21	6400.002	3112.336	4317.113

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-2 Acquired: 10/29/2025 14:50:42 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.1128259**	**-.141600**	**.1084931**	**.0087550**	**-.130729**	**1771.920**	**.0238778**
Stddev	.0061776	.008453	.0057146	.0080619	.002706	16.136	.0008975
%RSD	5.475329	5.969451	5.267257	92.08299	2.069589	.9106769	3.758883
#1	.1109730	-.134395	.1074918	.0121031	-.133846	1758.130	.0240629
#2	.1077869	-.150905	.1033453	-.000441	-.129351	1767.963	.0246683
#3	.1197179	-.139502	.1146422	.014603	-.128989	1789.666	.0229021

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0428260**	**-.015535**	**9.185660**	**-.250080**	**.0564313**	**.2485702**	**2617.321**
Stddev	.0006790	.002521	.100066	.003127	.0007497	.0192752	33.283
%RSD	1.585570	16.22531	1.089373	1.250485	1.328473	7.754432	1.271641
#1	.0423611	-.015094	9.203745	-.249887	.0568787	.2417045	2615.219
#2	.0425116	-.013264	9.077784	-.247053	.0555658	.2703383	2585.139
#3	.0436052	-.018247	9.275450	-.253299	.0568494	.2336679	2651.605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.209804**	**1.779590**	**.0474439**	**^ *****	**4.722407**	**.0517681**	**.0523104**
Stddev	.002211	.016078	.0013391	-----	.067283	.0019461	.0030135
%RSD	1.054022	.9034661	2.822558	-----	1.424758	3.759198	5.760865
#1	-.208718	1.773750	.0459864	^ -----	4.743646	.0497218	.0534248
#2	-.212349	1.767248	.0486200	^ -----	4.776506	.0519872	.0546079
#3	-.208346	1.797772	.0477252	^ -----	4.647067	.0535954	.0488983

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1877.299**	**^ *****	**-.013767**	**.0272855**	**.0025876**	**.4767761**	**.0740899**
Stddev	8.195	-----	.000740	.0001517	.0009429	.0160119	.0049848
%RSD	.4365459	-----	5.373748	.5559506	36.43989	3.358376	6.728091
#1	1884.693	^ -----	-.012919	.0271374	.0035791	.4709538	.0797707
#2	1868.487	^ -----	-.014107	.0272785	.0017023	.4948845	.0704464
#3	1878.715	^ -----	-.014276	.0274405	.0024813	.4644899	.0720526

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-2 Acquired: 10/29/2025 14:50:42 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.497999	.2703556	-2.50896
Stddev	.008594	.0030014	.03194
%RSD	1.725743	1.110172	1.272848
#1	-.500797	.2681952	-2.50685
#2	-.488355	.2690889	-2.47813
#3	-.504846	.2737827	-2.54190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5275.670	76303.30	6839.565	3909.493	5343.213
Stddev	11.130	60.42	59.683	11.464	6.277
%RSD	.2109729	.0791893	.8726183	.2932243	.1174841
#1	5281.413	76262.62	6855.330	3903.059	5344.257
#2	5282.755	76274.55	6889.783	3922.728	5348.903
#3	5262.841	76372.73	6773.582	3902.691	5336.479

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-3 Acquired: 10/29/2025 14:55:11 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0966074**	**.0234001**	**223.7055**	**.0054031**	**.1230352**	**.8461527**	**.0030886**
Stddev	.0044955	.0071466	.7976	.0023554	.0044259	.0059325	.0009812
%RSD	4.653346	30.54102	.3565370	43.59290	3.597276	.7011107	31.76939
#1	.0932243	.0257550	222.8250	.0078549	.1278098	.8469569	.0020272
#2	.1017085	.0153732	223.9118	.0031578	.1190696	.8398591	.0032759
#3	.0948893	.0290721	224.3797	.0051965	.1222261	.8516420	.0039627

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005439**	**-.001326**	**.3079158**	**23.87427**	**.0066285**	**50.85704**	**13.61354**
Stddev	.000083	.000020	.0034554	.03673	.0001932	.02577	.17020
%RSD	1.534678	1.484544	1.122202	.1538303	2.914608	.0506723	1.250259
#1	-.005361	-.001310	.3109713	23.87888	.0064491	50.82762	13.79664
#2	-.005527	-.001321	.3086102	23.90847	.0066034	50.87562	13.46014
#3	-.005428	-.001348	.3041659	23.83546	.0068331	50.86789	13.58385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.85785**	**2.030827**	**23.45541**	**.0046128**	**.9181123**	**-.032388**	**30.34369**
Stddev	.69038	.037489	.00250	.0004812	.0126641	.001323	.20465
%RSD	1.306106	1.845986	.0106648	10.43103	1.379360	4.084866	.6744329
#1	53.07271	2.073338	23.45666	.0048804	.9287946	-.033452	30.15181
#2	53.41525	2.002498	23.45704	.0040573	.9214195	-.030906	30.55907
#3	52.08559	2.016644	23.45253	.0049007	.9041227	-.032805	30.32019

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6312314**	**.0023431**	**-.015926**	**.0117927**	**-.043006**	**-.113250**	**.1678201**
Stddev	.0285033	.0017072	.000467	.0008278	.001212	.012997	.0027769
%RSD	4.515504	72.86132	2.934161	7.019527	2.819269	11.47600	1.654688
#1	.6638105	.0039987	-.016296	.0120400	-.041627	-.107101	.1647925
#2	.6108935	.0024419	-.016082	.0124686	-.043489	-.128180	.1684194
#3	.6189901	.0005886	-.015401	.0108694	-.043903	-.104469	.1702484

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: LR-3 Acquired: 10/29/2025 14:55:11 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0661793	.0043583	-.012199
Stddev	.0092252	.0013768	.000138
%RSD	13.93978	31.59111	1.134964
#1	.0614691	.0059297	-.012358
#2	.0602600	.0033638	-.012133
#3	.0768088	.0037813	-.012105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5688.750	94984.42	7230.140	4495.520	7306.704
Stddev	5.939	155.22	46.136	15.385	9.307
%RSD	.1043997	.1634129	.6381104	.3422209	.1273737
#1	5690.957	94906.27	7280.329	4477.933	7304.802
#2	5693.269	94883.81	7189.574	4506.484	7316.814
#3	5682.023	95163.18	7220.518	4502.144	7298.494

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3465-01 Acquired: 10/29/2025 15:00:05 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0493948**	**-.033701**	**.1655942**	**.0037305**	**-.015435**	**138.5256**	**.5546026**
Stddev	.0008885	.001771	.0031544	.0052269	.000992	.3252	.0028919
%RSD	1.798771	5.254697	1.904887	140.1135	6.429477	.2347516	.5214307
#1	.0502892	-.032537	.1691998	.0091658	-.016229	138.8990	.5571827
#2	.0485124	-.032827	.1642385	-.001260	-.015753	138.3052	.5551484
#3	.0493829	-.035739	.1633442	.003285	-.014322	138.3725	.5514767

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108712**	**.0055136**	**34.03086**	**.2625610**	**.1304296**	**.2482509**	**268.9536**
Stddev	.0001271	.0000667	.10357	.0013066	.0001363	.0010097	1.6328
%RSD	1.169307	1.210401	.3043304	.4976396	.1044938	.4067142	.6070871
#1	.0107317	.0055395	34.11762	.2613921	.1304880	.2491347	269.0591
#2	.0109805	.0055635	34.05877	.2623192	.1305270	.2471505	267.2706
#3	.0109015	.0054378	33.91620	.2639716	.1302739	.2484675	270.5310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.662832**	**42.74497**	**.2109911**	**.0029603**	**4.387566**	**.4912163**	**.4378360**
Stddev	.014196	.05971	.0011584	.0004615	.036669	.0035902	.0009766
%RSD	.5330997	.1396837	.5490408	15.58930	.8357508	.7308714	.2230599
#1	2.673199	42.74248	.2122171	.0026669	4.376206	.4945269	.4388648
#2	2.668645	42.80588	.2108414	.0027217	4.357921	.4874002	.4377219
#3	2.646653	42.68654	.2099148	.0034922	4.428570	.4917220	.4369215

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.72114**	**.2412975**	**.0063326**	**.0089735**	**7.425778**	**4.333754**	**6.902574**
Stddev	.09463	.0112381	.0001240	.0013725	.028041	.040335	.007783
%RSD	.8826281	4.657370	1.958394	15.29532	.3776156	.9307115	.1127617
#1	10.73977	.2426493	.0064664	.0104223	7.456644	4.372522	6.906003
#2	10.61858	.2294447	.0063099	.0088055	7.418817	4.292017	6.893664
#3	10.80507	.2517986	.0062215	.0076927	7.401873	4.336722	6.908054

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3465-01 Acquired: 10/29/2025 15:00:05 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**1.974484**	**.1043353**	**-.130359**
Stddev	.007770	.0006537	.001376
%RSD	.3935306	.6265179	1.055640
#1	1.965565	.1037484	-.130224
#2	1.979788	.1042175	-.129055
#3	1.978099	.1050398	-.131797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7689.028**	**117007.6**	**9247.576**	**5829.477**	**6580.797**
Stddev	14.537	453.6	52.256	12.684	4.854
%RSD	.1890584	.3876830	.5650804	.2175811	.0737571
#1	7674.251	117270.3	9239.598	5819.226	6575.438
#2	7703.312	117268.7	9199.768	5843.662	6582.054
#3	7689.522	116483.8	9303.363	5825.543	6584.898

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170288BL Acquired: 10/29/2025 15:04:07 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.002318**	**-.000050**	**.0004078**	**.0023764**	**-.002672**	**.0086511**
Stddev	.000839	.000921	.0008279	.0011825	.001015	.0064302
%RSD	36.20721	1825.030	203.0208	49.75857	37.98846	74.32785
#1	-.003166	.000756	.0010353	.0037357	-.003395	.0024962
#2	-.001487	-.001054	-.000531	.0015852	-.001512	.0081320
#3	-.002302	.000146	.000719	.0018083	-.003109	.0153252

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045987**	**-.000021**	**-.000022**	**-.003315**	**.0001667**	**-.000135**
Stddev	.0016273	.000014	.000055	.002750	.0004160	.000166
%RSD	35.38624	67.41069	252.0484	82.95655	249.6128	122.6564
#1	.0061031	-.000027	.000025	-.005273	.0003063	-.000316
#2	.0048216	-.000031	-.000082	-.000171	.0004949	.000010
#3	.0028714	-.000005	-.000008	-.004500	-.000301	-.000099

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000510**	**.0147515**	**.0007066**	**-.020291**	**-.000018**	**-.000054**
Stddev	.000533	.0037776	.0004054	.035405	.000130	.000197
%RSD	104.4872	25.60799	57.37624	174.4816	712.2234	363.5605
#1	-.000348	.0184781	.0006965	-.047466	.000055	-.000049
#2	-.000077	.0148514	.0011169	.019747	.000059	-.000253
#3	-.001104	.0109250	.0003063	-.033156	-.000169	.000140

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0923677**	**-.001522**	**.0001948**	**.1307896**	**-.008169**	**.0006468**
Stddev	.0102671	.000477	.0001082	.0415615	.000240	.0001601
%RSD	11.11551	31.37608	55.56677	31.77740	2.934113	24.74720
#1	.0828895	-.001854	.0000711	.1422611	-.008322	.0006106
#2	.0909395	-.000975	.0002720	.0846971	-.007893	.0005079
#3	.1032742	-.001736	.0002413	.1654106	-.008293	.0008218

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170288BL Acquired: 10/29/2025 15:04:07 Type: Unk
Method: 6010-200.7 NEW(v324) 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	F .0223766	-.000951	-.008247	-.001376	F -.012442	-.001859
Stddev	.0002259	.000588	.007540	.000794	.001836	.001726
%RSD	1.009701	61.78572	91.43066	57.73086	14.75993	92.85903
#1	.0221915	-.000931	-.002577	-.001011	-.014487	-.000790
#2	.0223101	-.000374	-.005360	-.000829	-.010935	-.003850
#3	.0226284	-.001548	-.016804	-.002286	-.011903	-.000936

Elem	Sr4077
Units	ppm
Avg	.0000608
Stddev	.0000348
%RSD	57.19485
#1	.0000632
#2	.0000249
#3	.0000944

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6043.569	93742.16	6943.594	4670.690	7635.322
Stddev	9.167	293.63	9.530	17.655	16.361
%RSD	.1516765	.3132268	.1372419	.3779973	.2142771
#1	6046.870	93671.77	6935.328	4653.708	7623.545
#2	6050.628	93490.14	6941.437	4669.415	7654.003
#3	6033.209	94064.59	6954.017	4688.949	7628.417

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170288BS Acquired: 10/29/2025 15:08:28 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.7620905**	**1.694395**	**.9137911**	**1.892373**	**.7905048**	**1.860064**	**.1912345**
Stddev	.0014477	.029061	.0009404	.009317	.0018772	.006285	.0007233
%RSD	.1899627	1.715137	.1029118	.4923334	.2374691	.3379035	.3782285
#1	.7604512	1.660922	.9129682	1.883573	.7906337	1.855715	.1905894
#2	.7631933	1.709083	.9148161	1.891414	.7885664	1.857206	.1920164
#3	.7626272	1.713181	.9135888	1.902132	.7923142	1.867270	.1910975

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1987431**	**.1827363**	**.9770242**	**.3951942**	**.1878646**	**.2995271**	**2.853953**
Stddev	.0003698	.0003951	.0065194	.0006361	.0006768	.0005024	.014568
%RSD	.1860504	.2161997	.6672750	.1609588	.3602354	.1677439	.5104428
#1	.1984909	.1823875	.9698112	.3949696	.1871326	.2993356	2.855081
#2	.1991676	.1826562	.9787647	.3959121	.1884674	.2991486	2.838855
#3	.1985708	.1831653	.9824968	.3947008	.1879938	.3000971	2.867925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1940979**	**1.944071**	**.4729017**	**.0744888**	**2.888597**	**.2906033**	**.1985527**
Stddev	.0007159	.015311	.0010776	.0003871	.014612	.0051351	.0007022
%RSD	.3688457	.7875828	.2278626	.5196620	.5058442	1.767064	.3536496
#1	.1934038	1.943797	.4716977	.0749356	2.872477	.2965294	.1984896
#2	.1940562	1.928899	.4732319	.0742532	2.892342	.2874646	.1978843
#3	.1948338	1.959517	.4737755	.0742777	2.900971	.2878160	.1992844

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.284039**	**.2835702**	**.3977337**	**.6779923**	**.1893814**	**.8279406**	**5.425842**
Stddev	.025860	.0007978	.0013365	.0018924	.0023967	.0107503	.015342
%RSD	.2785406	.2813419	.3360239	.2791112	1.265525	1.298435	.2827597
#1	9.258881	.2831863	.3965792	.6759227	.1868087	.8266448	5.409320
#2	9.282688	.2844874	.3974241	.6796343	.1897844	.8178970	5.439639
#3	9.310548	.2830370	.3991979	.6784198	.1915510	.8392801	5.428567

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170288BS Acquired: 10/29/2025 15:08:28 Type: Unk
Method: 6010-200.7 NEW(v324) 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 -.012574	.1829055	.1883175
Stddev	.002259	.0010211	.0006620
%RSD	17.96707	.5582531	.3515262
#1	-.011999	.1830327	.1875907
#2	-.015066	.1818269	.1888859
#3	-.010659	.1838571	.1884760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6182.525	95636.54	7158.427	4750.042	7493.713
Stddev	3.976	226.62	26.618	22.693	9.601
%RSD	.0643087	.2369564	.3718411	.4777328	.1281181
#1	6186.767	95896.65	7186.391	4756.270	7502.347
#2	6178.883	95531.24	7133.398	4768.970	7483.374
#3	6181.924	95481.73	7155.493	4724.885	7495.418

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3447-05DL2X10 Acquired: 10/29/2025 15:12:31 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0728251**	**-.003256**	**172.3876**	**-.003353**	**1.892524**	**2.973401**
Stddev	.0026063	.001403	1.1196	.001960	.006698	.018362
%RSD	3.578920	43.10720	.6494931	58.46747	.3538993	.6175258
#1	.0703795	-.004471	172.8042	-.003458	1.891486	2.955011
#2	.0755669	-.003577	173.2392	-.001342	1.899680	2.991734
#3	.0725287	-.001720	171.1194	-.005258	1.886406	2.973459

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1486370**	**.0013312**	**.0186095**	**3.849986**	**.0233770**	**.0173752**
Stddev	.0006879	.0000223	.0001123	.017657	.0003645	.0001299
%RSD	.4627862	1.677211	.6034957	.4586278	1.559002	.7476440
#1	.1483783	.0013347	.0186131	3.857462	.0230238	.0175252
#2	.1481161	.0013074	.0187199	3.862675	.0233555	.0172983
#3	.1494168	.0013516	.0184954	3.829821	.0237517	.0173021

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.21511**	**68.05977**	**.3041705**	**.7795179**	**.1807148**	**.0297758**
Stddev	.06448	.59186	.0019827	.0180466	.0005495	.0002241
%RSD	.1337358	.8696142	.6518496	2.315102	.3040807	.7524498
#1	48.22806	67.85032	.3064519	.7959092	.1809639	.0299988
#2	48.27214	67.60111	.3028636	.7601789	.1810956	.0295507
#3	48.14514	68.72787	.3031960	.7824656	.1800848	.0297777

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7090567**	**.1972214**	**2.538196**	**.7013034**	**.0330450**	**.0042226**
Stddev	.0194778	.0038443	.010692	.0251248	.0036753	.0002308
%RSD	2.746999	1.949224	.4212555	3.582590	11.12203	5.464719
#1	.6911270	.1978910	2.539985	.6785465	.0322657	.0044420
#2	.7062623	.1930863	2.526722	.6970982	.0298219	.0042438
#3	.7297808	.2006869	2.547881	.7282655	.0370475	.0039820

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3447-05DL2X10 Acquired: 10/29/2025 15:12:31 Type: Unk
Method: 6010-200.7 NEW(v324) 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	F 55.04298	.0725388	.4409335	.2556666	F 10.08136	.0043978
Stddev	.05580	.0011335	.0144138	.0041697	.03409	.0006741
%RSD	.1013681	1.562668	3.268929	1.630911	.3381101	15.32882
#1	55.10186	.0723277	.4281714	.2528872	10.04833	.0051439
#2	54.99089	.0737630	.4380622	.2536515	10.07935	.0042168
#3	55.03619	.0715256	.4565668	.2604610	10.11641	.0038326

Elem	Sr4077
Units	ppm
Avg	-.043224
Stddev	.000667
%RSD	1.543409
#1	-.043194
#2	-.042572
#3	-.043905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5993.420	94112.27	7325.048	4536.424	7306.697
Stddev	21.753	936.87	33.706	57.481	18.181
%RSD	.3629547	.9954824	.4601432	1.267107	.2488220
#1	5979.246	94425.94	7286.927	4539.775	7293.525
#2	5982.548	94852.07	7350.905	4592.157	7299.127
#3	6018.466	93058.82	7337.310	4477.341	7327.440

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3466-02 Acquired: 10/29/2025 15:16:45 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0752489**	**-.010458**	**9.012527**	**.0031142**	**.0003314**	**92.66910**	**2.544743**
Stddev	.0022087	.003284	.004037	.0015893	.0013667	1.21273	.034490
%RSD	2.935155	31.39978	.0447905	51.03406	412.4062	1.308664	1.355351
#1	.0777014	-.011753	9.014138	.0018973	.0016144	91.46259	2.505668
#2	.0734166	-.012896	9.015510	.0049122	.0004856	93.88795	2.570944
#3	.0746287	-.006724	9.007934	.0025329	-.001106	92.65678	2.557618

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079671**	**.0064320**	**57.87402**	**.2615824**	**.0808045**	**.7377949**	**198.5194**
Stddev	.0003395	.0009702	.63825	.0019828	.0001381	.0042105	9.5176
%RSD	4.261609	15.08370	1.102824	.7580017	.1708662	.5706820	4.794268
#1	.0083533	.0075441	57.18724	.2636797	.0808752	.7426475	187.6523
#2	.0078327	.0059928	58.44896	.2613290	.0806454	.7356265	202.5340
#3	.0077154	.0057591	57.98588	.2597385	.0808929	.7351105	205.3718

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.806034**	**32.41049**	**.2199112**	**.0028436**	**3.534835**	**.3497669**	**3.538784**
Stddev	.057594	.29579	.0001996	.0037384	.189139	.0051813	.003841
%RSD	.8462228	.9126387	.0907822	131.4671	5.350706	1.481365	.1085442
#1	6.742746	32.17644	.2197851	-.001460	3.316464	.3439007	3.543217
#2	6.855372	32.74294	.2198070	.004699	3.641042	.3537185	3.536439
#3	6.819982	32.31208	.2201413	.005292	3.647000	.3516815	3.536696

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.767600**	**.1286760**	**.0089992**	**.0957109**	**2.386504**	**3.135220**	**7.913166**
Stddev	.350015	.0498245	.0001225	.0017319	.026956	.165543	.032001
%RSD	5.171929	38.72089	1.361260	1.809467	1.129528	5.280093	.4044060
#1	6.363569	.0724977	.0091374	.0976975	2.357762	2.944170	7.947712
#2	6.978588	.1460190	.0089038	.0949153	2.411223	3.225343	7.884534
#3	6.960641	.1675113	.0089565	.0945197	2.390528	3.236148	7.907254

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3466-02 Acquired: 10/29/2025 15:16:45 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.907847**	**.1382513**	**.1211008**
Stddev	.038123	.0037936	.0050230
%RSD	.7767749	2.743984	4.147793
#1	4.949603	.1338963	.1256722
#2	4.874899	.1400200	.1219066
#3	4.899040	.1408375	.1157236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6591.010**	**100543.9**	**7673.486**	**5026.836**	**6790.072**
Stddev	10.706	519.2	290.427	19.754	8.654
%RSD	.1624264	.5163704	3.784807	.3929640	.1274568
#1	6597.833	101075.9	7358.474	5040.432	6794.980
#2	6578.671	100038.6	7731.378	5035.899	6780.079
#3	6596.525	100517.3	7930.607	5004.177	6795.156

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3466-05 Acquired: 10/29/2025 15:20:49 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0515651**	**-.025703**	**.8044800**	**.0043777**	**-.012417**	**138.1328**
Stddev	.0009804	.004976	.0017027	.0044882	.001056	.0782
%RSD	1.901264	19.35969	.2116554	102.5257	8.506176	.0566183
#1	.0514231	-.031413	.8063022	.0043878	-.013454	138.2130
#2	.0526088	-.023396	.8029295	.0088608	-.011342	138.1287
#3	.0506635	-.022299	.8042082	-.000116	-.012454	138.0567

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6647035**	**.0110206**	**.0127478**	**22.48433**	**.2334810**	**.1093119**
Stddev	.0025625	.0000292	.0000949	.02194	.0007413	.0002199
%RSD	.3855172	.2652855	.7443425	.0975674	.3174808	.2011890
#1	.6650997	.0110118	.0128408	22.50883	.2337347	.1095463
#2	.6619659	.0109969	.0127516	22.46650	.2340621	.1091101
#3	.6670449	.0110533	.0126511	22.47767	.2326462	.1092793

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4274742**	**236.6259**	**4.066119**	**38.63285**	**.1970919**	**.0031669**
Stddev	.0022607	1.9051	.009054	.04166	.0005452	.0005856
%RSD	.5288405	.8051060	.2226604	.1078233	.2766002	18.49126
#1	.4300513	234.5922	4.061540	38.60603	.1966815	.0026703
#2	.4258259	236.9165	4.060269	38.61168	.1977105	.0030177
#3	.4265454	238.3689	4.076547	38.68084	.1968838	.0038126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.523897**	**.3392549**	**2.321817**	**19.03700**	**.1427700**	**.0619914**
Stddev	.019528	.0032361	.006362	.13034	.0071337	.0001084
%RSD	.5541687	.9538808	.2740256	.6846405	4.996664	.1749005
#1	3.502650	.3357895	2.321258	18.92234	.1353146	.0620285
#2	3.527979	.3421981	2.328441	19.00992	.1434641	.0618693
#3	3.541061	.3397770	2.315753	19.17875	.1495313	.0620764

Sample Name: Q3466-05 Acquired: 10/29/2025 15:20:49 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0324300	5.433753	2.547040	F 11.76285	2.891994	.1691617
Stddev	.0002464	.010663	.029748	.03973	.018655	.0015471
%RSD	.7598506	.1962288	1.167929	.3377588	.6450435	.9145430
#1	.0322169	5.426055	2.513161	11.72597	2.874315	.1698698
#2	.0326999	5.429280	2.568885	11.75766	2.890175	.1673874
#3	.0323732	5.445923	2.559075	11.80492	2.911491	.1702281

Elem	Sr4077
Units	ppm
Avg	-.135708
Stddev	.001700
%RSD	1.252459
#1	-.133883
#2	-.135995
#3	-.137246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7257.662	109815.9	8591.798	5521.034	6846.258
Stddev	6.501	435.4	31.809	40.749	10.590
%RSD	.0895763	.3964883	.3702291	.7380674	.1546815
#1	7259.170	110263.7	8572.828	5534.009	6847.818
#2	7263.278	109394.0	8574.046	5475.377	6855.982
#3	7250.540	109790.1	8628.522	5553.715	6834.975

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3466-07 Acquired: 10/29/2025 15:24:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0440045**	**-.019433**	**.4197015**	**-.002383**	**-.012071**	**65.85381**	**.3309380**
Stddev	.0016359	.000721	.0019238	.002716	.000510	.18121	.0021394
%RSD	3.717476	3.711285	.4583682	113.9614	4.222251	.2751744	.6464522
#1	.0440800	-.019608	.4174813	-.004324	-.012659	65.78013	.3329508
#2	.0456012	-.018641	.4207492	.000721	-.011800	66.06026	.3311719
#3	.0423321	-.020051	.4208741	-.003546	-.011754	65.72105	.3286913

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075825**	**.0034629**	**17.42254**	**.1445281**	**.0788312**	**.2350582**	**164.2035**
Stddev	.0000296	.0000177	.03704	.0007176	.0002621	.0003328	.2824
%RSD	.3902671	.5101502	.2125840	.4964971	.3324495	.1415721	.1719634
#1	.0076132	.0034505	17.42184	.1453111	.0785476	.2347400	164.2597
#2	.0075802	.0034831	17.45992	.1439018	.0790644	.2350308	163.8973
#3	.0075542	.0034550	17.38586	.1443715	.0788815	.2354038	164.4536

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.319732**	**24.56933**	**.1481224**	**.0004227**	**4.399251**	**.2116453**	**.4312487**
Stddev	.013026	.06632	.0005220	.0006669	.032239	.0037468	.0005625
%RSD	.5615373	.2699455	.3523923	157.7668	.7328320	1.770307	.1304282
#1	2.334081	24.63512	.1476172	-.000343	4.377286	.2123184	.4306106
#2	2.316466	24.57038	.1486596	.000874	4.384204	.2150100	.4316726
#3	2.308650	24.50249	.1480903	.000737	4.436262	.2076077	.4314629

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.45641**	**.1073746**	**.0076800**	**.0095998**	**5.291564**	**2.115245**	**4.013358**
Stddev	.07867	.0003683	.0001169	.0006525	.021356	.027915	.004188
%RSD	.4262735	.3430038	1.521907	6.796695	.4035941	1.319694	.1043462
#1	18.51003	.1075781	.0075913	.0090824	5.310330	2.091108	4.013863
#2	18.36609	.1069494	.0076364	.0103328	5.296036	2.108812	4.008940
#3	18.49311	.1075962	.0078125	.0093843	5.268325	2.145814	4.017270

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3466-07 Acquired: 10/29/2025 15:24:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**2.468878**	**.1454791**	**-.106594**
Stddev	.008398	.0013748	.000524
%RSD	.3401638	.9450237	.4918592
#1	2.459256	.1469358	-.106992
#2	2.474736	.1452971	-.106000
#3	2.472641	.1442043	-.106790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7708.335**	**118467.4**	**9266.770**	**5923.323**	**6979.042**
Stddev	8.431	232.3	48.321	17.730	3.967
%RSD	.1093743	.1960781	.5214469	.2993260	.0568373
#1	7702.389	118336.6	9218.905	5902.853	6975.096
#2	7704.632	118735.6	9265.870	5933.248	6979.002
#3	7717.984	118330.0	9315.534	5933.868	6983.029

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV02 Acquired: 10/29/2025 15:43:38 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.836340**	**4.744967**	**4.821642**	**4.785505**	**4.870936**	**9.401027**	**9.613775**
Stddev	.002590	.199782	.005902	.014926	.009062	.005114	.060084
%RSD	.0535450	4.210404	.1224113	.3118990	.1860413	.0543941	.6249755
#1	4.833373	4.883857	4.824210	4.782721	4.864066	9.406883	9.545153
#2	4.838146	4.835037	4.814891	4.801627	4.867535	9.398753	9.639234
#3	4.837501	4.516006	4.825826	4.772167	4.881206	9.397445	9.656938

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2431206**	**2.417618**	**24.06137**	**.9878131**	**2.421261**	**1.222553**	**4.872745**
Stddev	.0018012	.002658	.08231	.0008249	.004142	.002304	.016055
%RSD	.7408870	.1099509	.3420818	.0835063	.1710483	.1884386	.3294760
#1	.2435360	2.418817	24.01992	.9883405	2.421603	1.221866	4.888845
#2	.2446778	2.414572	24.15617	.9882363	2.416959	1.220671	4.856736
#3	.2411479	2.419466	24.00803	.9868625	2.425221	1.225123	4.872654

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.393808**	**24.19286**	**2.426560**	**1.226314**	**23.91114**	**2.402141**	**2.443836**
Stddev	.016795	.09014	.003842	.002422	.08743	.004116	.006247
%RSD	.7015906	.3726051	.1583457	.1974810	.3656288	.1713654	.2556277
#1	2.391798	24.22759	2.427096	1.229079	23.91463	2.401819	2.449153
#2	2.411518	24.26047	2.422478	1.225293	23.82203	2.406409	2.436956
#3	2.378109	24.09051	2.430106	1.224569	23.99678	2.398195	2.445400

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.96085**	**4.846944**	**4.908345**	**4.861885**	**4.810688**	**4.854844**	**4.933835**
Stddev	.02377	.043453	.002899	.007640	.021624	.015962	.004640
%RSD	.0991925	.8965049	.0590673	.1571446	.4494895	.3287791	.0940463
#1	23.93405	4.865140	4.907512	4.870172	4.809104	4.848237	4.938369
#2	23.97939	4.878341	4.905954	4.860360	4.833061	4.843246	4.934041
#3	23.96910	4.797351	4.911570	4.855122	4.789901	4.873048	4.929096

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV02 Acquired: 10/29/2025 15:43:38 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.679236**	**4.530873**	**4.915666**
Stddev	.031406	.024765	.085150
%RSD	.6711813	.5465862	1.732220
#1	4.705606	4.518197	4.850031
#2	4.687610	4.559410	5.011884
#3	4.644491	4.515012	4.885084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6149.065**	**94368.34**	**7240.876**	**4756.792**	**6967.700**
Stddev	14.948	118.71	40.016	24.570	20.427
%RSD	.2430858	.1257906	.5526451	.5165182	.2931678
#1	6146.809	94234.18	7241.373	4766.918	6956.735
#2	6165.012	94459.73	7200.614	4774.680	6991.269
#3	6135.374	94411.12	7280.642	4728.777	6955.098

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB02 Acquired: 10/29/2025 15:48:10 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.000715**	**.0014658**	**-.000296**	**.0045006**	**-.003702**	**.0090276**	**.0048320**
Stddev	.002065	.0008647	.000363	.0021339	.000891	.0055134	.0003441
%RSD	288.9552	58.99358	122.8645	47.41415	24.06726	61.07256	7.121105
#1	-.000198	.0009897	.000000	.0022677	-.002685	.0026692	.0047489
#2	.001043	.0024639	-.000701	.0047145	-.004078	.0119325	.0052100
#3	-.002989	.0009437	-.000186	.0065195	-.004343	.0124812	.0045370

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**-.000015**	**-.004068**	**-.000116**	**-.000035**	**-.000263**	**-.005172**
Stddev	.000013	.000054	.011968	.000248	.000221	.000566	.001722
%RSD	78.70182	370.4984	294.1817	212.9815	626.1105	215.6007	33.29562
#1	-.000019	-.000071	.008312	-.000370	.000140	-.000177	-.005569
#2	-.000029	-.000009	-.015577	.000126	-.000283	-.000867	-.003286
#3	-.000003	.000036	-.004940	-.000105	.000038	.000256	-.006661

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007553**	**-.010144**	**-.000212**	**-.000038**	**-.044270**	**-.001983**	**-.000033**
Stddev	.0000789	.016958	.000218	.000463	.020864	.000728	.000136
%RSD	10.43865	167.1716	102.7107	1211.221	47.12946	36.68485	409.2418
#1	.0008152	-.029362	-.000118	.000486	-.059297	-.001789	.000124
#2	.0007849	.002717	-.000462	-.000390	-.053065	-.002789	-.000104
#3	.0006660	-.003787	-.000057	-.000210	-.020448	-.001373	-.000120

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0332867**	**.0008584**	**.0000666**	**.0020162**	**-.001045**	**.0040230**	**-.001149**
Stddev	.0136254	.0002425	.0001115	.0002929	.000313	.0059908	.001383
%RSD	40.93358	28.24445	167.3966	14.52717	29.96341	148.9154	120.4045
#1	.0221149	.0007833	.0001919	.0020982	-.000690	.0080647	-.002377
#2	.0292785	.0006624	.0000295	.0016911	-.001284	.0068641	-.001418
#3	.0484666	.0011295	-.000022	.0022594	-.001160	-.002860	.000349

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB02 Acquired: 10/29/2025 15:48:10 Type: Unk
Method: 6010-200.7 NEW(v324) 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 -.015940	-.004259	.0001563
Stddev	.001863	.001272	.0000661
%RSD	11.68813	29.85613	42.26385
#1	-.017153	-.003153	.0002296
#2	-.016873	-.003975	.0001378
#3	-.013795	-.005648	.0001014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6103.046	94045.97	7130.710	4686.791	7643.851
Stddev	10.424	465.67	40.756	19.469	15.454
%RSD	.1708070	.4951548	.5715606	.4154029	.2021774
#1	6091.438	94506.74	7084.872	4680.980	7627.573
#2	6106.089	93575.54	7144.395	4670.890	7645.659
#3	6111.610	94055.63	7162.862	4708.505	7658.322

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01 Acquired: 10/29/2025 15:52:04 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0310667**	**-.026951**	**.1084932**	**-.001212**	**-.013828**	**83.98836**	**.2972025**
Stddev	.0009530	.001749	.0010596	.001839	.000478	.22007	.0001545
%RSD	3.067535	6.489336	.9766723	151.7861	3.454209	.2620290	.0519957
#1	.0301358	-.028779	.1095739	-.002170	-.013842	83.76061	.2973801
#2	.0310238	-.026779	.1074560	-.002374	-.014299	84.19985	.2970985
#3	.0320403	-.025294	.1084498	.000909	-.013344	84.00461	.2971289

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072587**	**.0013395**	**11.60874**	**.1165181**	**.0661841**	**.3357299**	**161.4979**
Stddev	.0000093	.0001049	.01802	.0002355	.0002019	.0014339	1.3128
%RSD	.1278973	7.832491	.1552464	.2021057	.3050052	.4271031	.8128618
#1	.0072670	.0012876	11.62947	.1165913	.0660435	.3359068	161.8554
#2	.0072605	.0014602	11.59997	.1167083	.0664154	.3370671	160.0434
#3	.0072487	.0012706	11.59679	.1162547	.0660935	.3342157	162.5948

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.019007**	**23.75261**	**.1331860**	**.0024432**	**6.719669**	**.1842745**	**.2817567**
Stddev	.003111	.03343	.0006825	.0007196	.044274	.0006712	.0001592
%RSD	.0774047	.1407602	.5124473	29.45103	.6588727	.3642395	.0564994
#1	4.020694	23.76594	.1324243	.0026980	6.725021	.1846487	.2818829
#2	4.015417	23.77732	.1337420	.0016309	6.672963	.1834996	.2818093
#3	4.020910	23.71457	.1333917	.0030007	6.761024	.1846751	.2815778

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.649012**	**.1292403**	**.0003448**	**.0048394**	**1.932659**	**2.883241**	**4.379914**
Stddev	.039532	.0068385	.0000648	.0000954	.002534	.015131	.006791
%RSD	.4570678	5.291307	18.79385	1.972047	.1310903	.5247930	.1550398
#1	8.663630	.1296692	.0003159	.0048474	1.930520	2.898047	4.376223
#2	8.604253	.1221975	.0004190	.0047402	1.932000	2.867805	4.375768
#3	8.679153	.1358543	.0002994	.0049306	1.935457	2.883871	4.387751

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01 Acquired: 10/29/2025 15:52:04 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0605778	.1224124	-.012424
Stddev	.0028291	.0022734	.001350
%RSD	4.670107	1.857189	10.86655
#1	.0573828	.1232641	-.013499
#2	.0615858	.1241371	-.010909
#3	.0627647	.1198362	-.012864

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7141.975	108531.1	8412.121	5410.749	7144.832
Stddev	10.932	707.4	53.356	26.229	6.637
%RSD	.1530660	.6517667	.6342782	.4847651	.0928958
#1	7149.354	107757.0	8371.262	5399.845	7151.996
#2	7129.416	109144.0	8392.617	5440.671	7138.892
#3	7147.156	108692.1	8472.486	5391.730	7143.607

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01DUP Acquired: 10/29/2025 15:56:07 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0305610**	**-.027726**	**.1042898**	**-.000776**	**-.013809**	**78.05788**	**.2687169**
Stddev	.0003714	.004535	.0016545	.002148	.001482	.11655	.0010919
%RSD	1.215184	16.35542	1.586425	276.5670	10.72885	.1493133	.4063223
#1	.0301584	-.023952	.1058642	-.002291	-.012296	77.97551	.2694683
#2	.0308902	-.032756	.1025655	-.001720	-.013874	78.00690	.2692181
#3	.0306345	-.026468	.1044397	.001681	-.015256	78.19124	.2674645

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066985**	**.0009264**	**11.03025**	**.1265985**	**.0655448**	**.3282785**	**159.4195**
Stddev	.0000585	.0000498	.02937	.0002824	.0001470	.0014363	1.0916
%RSD	.8731238	5.376163	.2662767	.2230324	.2242955	.4375276	.6847495
#1	.0066328	.0008798	11.01188	.1267005	.0657014	.3268261	160.6800
#2	.0067449	.0009207	11.06413	.1268156	.0654098	.3283111	158.7858
#3	.0067179	.0009789	11.01476	.1262793	.0655232	.3296982	158.7928

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.601633**	**20.98043**	**.1279151**	**.0030304**	**6.399305**	**.1934698**	**.2631251**
Stddev	.007217	.07349	.0002424	.0005705	.038206	.0021803	.0013515
%RSD	.2003705	.3502839	.1895183	18.82438	.5970350	1.126923	.5136285
#1	3.605809	20.91272	.1279613	.0035884	6.437906	.1935047	.2626163
#2	3.605791	21.05859	.1281311	.0024483	6.361507	.1912723	.2621019
#3	3.593300	20.96997	.1276529	.0030544	6.398500	.1956324	.2646572

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.125374**	**.1492471**	**.0006037**	**.0103018**	**1.817762**	**3.334136**	**4.344155**
Stddev	.047436	.0062704	.0000206	.0001198	.002213	.044750	.020126
%RSD	.5198284	4.201377	3.405779	1.162523	.1217256	1.342175	.4632927
#1	9.179569	.1562391	.0005851	.0101640	1.817843	3.385039	4.320952
#2	9.091393	.1441226	.0006004	.0103802	1.819933	3.316380	4.356896
#3	9.105159	.1473794	.0006258	.0103613	1.815510	3.300989	4.354616

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01DUP Acquired: 10/29/2025 15:56:07 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0362037	.1089733	-.012185
Stddev	.0011013	.0019061	.001169
%RSD	3.042006	1.749168	9.595688
#1	.0351096	.1068735	-.013488
#2	.0361894	.1105945	-.011841
#3	.0373121	.1094519	-.011227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6991.532	107030.8	8637.944	5309.210	7013.448
Stddev	3.419	565.4	10.521	26.029	1.817
%RSD	.0489043	.5282195	.1218042	.4902529	.0259127
#1	6992.989	106409.0	8650.093	5315.003	7013.685
#2	6993.981	107513.8	8631.895	5331.854	7015.135
#3	6987.626	107169.6	8631.844	5280.773	7011.523

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01LX5 Acquired: 10/29/2025 16:00:11 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0063650**	**-.015802**	**.0228306**	**-.000180**	**-.005640**	**19.39392**	**.0703860**
Stddev	.0005257	.002620	.0015269	.001807	.001357	.02396	.0001767
%RSD	8.258831	16.58013	6.687836	1006.290	24.06665	.1235525	.2509971
#1	.0059452	-.014928	.0210680	.000548	-.005302	19.37387	.0704403
#2	.0069546	-.013731	.0237488	.001151	-.004484	19.42046	.0701886
#3	.0061953	-.018747	.0236749	-.002237	-.007135	19.38743	.0705292

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017224**	**-.000181**	**2.684956**	**.0261354**	**.0134616**	**.0816593**	**36.82972**
Stddev	.0000634	.000080	.004105	.0003044	.0000360	.0003065	.10560
%RSD	3.682341	44.08381	.1529015	1.164851	.2677452	.3752984	.2867329
#1	.0017943	-.000252	2.688618	.0264807	.0134227	.0817663	36.84504
#2	.0016746	-.000196	2.685731	.0259059	.0134682	.0813136	36.71730
#3	.0016981	-.000094	2.680518	.0260195	.0134938	.0818978	36.92683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9388466**	**5.456988**	**.0273160**	**.0004564**	**1.443745**	**.0455311**	**.0644101**
Stddev	.0052277	.037814	.0003216	.0001976	.006734	.0044273	.0003252
%RSD	.5568268	.6929461	1.177325	43.29641	.4664030	9.723648	.5049411
#1	.9387806	5.448414	.0275051	.0006685	1.443185	.0460674	.0646197
#2	.9441070	5.498352	.0269447	.0004232	1.437308	.0496658	.0640354
#3	.9336521	5.424197	.0274982	.0002775	1.450741	.0408601	.0645752

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.816279**	**.0263040**	**.0005741**	**.0196440**	**.4428385**	**.7109243**	**.8947018**
Stddev	.009420	.0007273	.0001804	.0004684	.0087465	.0031051	.0002748
%RSD	.5186347	2.764825	31.42908	2.384682	1.975098	.4367679	.0307106
#1	1.806693	.0268011	.0005163	.0201559	.4423272	.7073392	.8948685
#2	1.825523	.0266416	.0004296	.0192366	.4518295	.7127627	.8948523
#3	1.816621	.0254693	.0007763	.0195397	.4343589	.7126709	.8943847

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01LX5 Acquired: 10/29/2025 16:00:11 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0005063	.0290125	-.001884
Stddev	.0030265	.0007190	.000060
%RSD	597.7739	2.478327	3.162027
#1	-.002092	.0295782	-.001832
#2	-.000219	.0282034	-.001872
#3	.003830	.0292559	-.001949

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6316.071	97520.28	7418.537	4885.111	7337.762
Stddev	11.799	291.23	20.339	21.783	7.413
%RSD	.1868129	.2986345	.2741579	.4459036	.1010292
#1	6326.720	97347.49	7411.707	4860.721	7341.544
#2	6318.106	97856.52	7402.492	4902.628	7342.521
#3	6303.386	97356.82	7441.411	4891.985	7329.220

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01MS Acquired: 10/29/2025 16:04:21 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.7135194**	**1.966248**	**1.081277**	**1.634370**	**.3649145**	**103.6441**
Stddev	.0032607	.051475	.002974	.008047	.0034799	.3341
%RSD	.4569842	2.617933	.2750425	.4923666	.9536256	.3223391
#1	.7103336	1.955642	1.084065	1.635162	.3663130	103.3685
#2	.7168501	1.920902	1.078146	1.625957	.3674776	104.0156
#3	.7133746	2.022200	1.081620	1.641993	.3609529	103.5481

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4875541**	**.1805190**	**.1974433**	**13.99095**	**.4890866**	**.2790142**
Stddev	.0021963	.0010801	.0001153	.03639	.0007156	.0004504
%RSD	.4504641	.5983419	.0583826	.2601192	.1463183	.1614236
#1	.4896607	.1806616	.1975380	13.96721	.4893009	.2790574
#2	.4877234	.1815207	.1973149	14.03285	.4882883	.2785438
#3	.4852780	.1793746	.1974769	13.97280	.4896706	.2794415

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6379783**	**200.8170**	**4.359948**	**26.83800**	**.6518982**	**.0701248**
Stddev	.0011151	.8072	.019721	.05938	.0017079	.0000788
%RSD	.1747900	.4019569	.4523195	.2212479	.2619902	.1123156
#1	.6367189	201.1455	4.377117	26.77883	.6509137	.0701622
#2	.6383758	199.8973	4.364320	26.83757	.6509105	.0700343
#3	.6388403	201.4081	4.338409	26.89759	.6538703	.0701778

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.922557**	**.4640863**	**.4880631**	**19.50244**	**.4047170**	**.3469124**
Stddev	.030343	.0025871	.0014745	.07813	.0028893	.0007332
%RSD	.3057980	.5574515	.3021157	.4006238	.7139069	.2113408
#1	9.903765	.4648339	.4866852	19.56222	.4035138	.3462434
#2	9.906343	.4662173	.4878858	19.41403	.4026238	.3467975
#3	9.957562	.4612078	.4896182	19.53108	.4080135	.3476962

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01MS Acquired: 10/29/2025 16:04:21 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6766249	2.255553	4.545537	F 11.37902	.0265100	.3029559
Stddev	.0033942	.004648	.024318	.04693	.0017610	.0014557
%RSD	.5016305	.2060832	.5349850	.4124501	6.642597	.4805091
#1	.6731329	2.256285	4.538631	11.40477	.0254615	.3032180
#2	.6768298	2.259792	4.525419	11.32484	.0285430	.3042628
#3	.6799120	2.250582	4.572561	11.40743	.0255254	.3013869

Elem	Sr4077
Units	ppm
Avg	.1456602
Stddev	.0024318
%RSD	1.669528
#1	.1435610
#2	.1483250
#3	.1450945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6957.894	106972.5	8335.869	5367.083	6713.758
Stddev	6.499	103.1	48.961	22.220	.321
%RSD	.0934076	.0963380	.5873546	.4140115	.0047782
#1	6961.439	107090.9	8334.435	5386.897	6713.902
#2	6950.393	106923.4	8287.640	5371.292	6713.981
#3	6961.849	106903.2	8385.531	5343.059	6713.391

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01MSD Acquired: 10/29/2025 16:08:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.6805368**	**1.824388**	**.9970367**	**1.582292**	**.3618266**	**87.38679**	**.4454181**
Stddev	.0011970	.045557	.0045718	.007903	.0020208	.17082	.0007301
%RSD	.1758840	2.497114	.4585366	.4994647	.5584902	.1954726	.1639086
#1	.6791656	1.816590	.9926768	1.574377	.3598673	87.34415	.4458468
#2	.6810725	1.873340	.9966389	1.590183	.3639036	87.24134	.4458325
#3	.6813724	1.783233	1.001794	1.582317	.3617088	87.57489	.4445751

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1678131**	**.1833750**	**11.79773**	**.4448912**	**.2524160**	**.5658101**	**151.7563**
Stddev	.0017612	.0008577	.01831	.0003837	.0009672	.0018089	.8415
%RSD	1.049475	.4677218	.1551804	.0862500	.3831681	.3197102	.5545328
#1	.1681254	.1827332	11.77945	.4445800	.2514264	.5649170	151.5495
#2	.1659167	.1830428	11.79765	.4453199	.2524623	.5646214	152.6819
#3	.1693973	.1843491	11.81607	.4447736	.2533591	.5678919	151.0374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.949773**	**22.96023**	**.5867921**	**.0663400**	**8.828360**	**.4155361**	**.4241587**
Stddev	.015024	.14064	.0023274	.0008472	.074643	.0025293	.0016499
%RSD	.3803805	.6125211	.3966331	1.277096	.8454933	.6086756	.3889841
#1	3.948110	22.97274	.5847589	.0665092	8.823198	.4136250	.4228624
#2	3.935650	22.81376	.5862868	.0670898	8.905449	.4145792	.4260159
#3	3.965559	23.09420	.5893306	.0654209	8.756431	.4184043	.4235979

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.59844**	**.3477325**	**.3345149**	**.6361364**	**1.995133**	**4.134667**	**9.679777**
Stddev	.05663	.0024125	.0007812	.0021982	.003385	.031916	.023519
%RSD	.3217635	.6937793	.2335244	.3455536	.1696475	.7719219	.2429683
#1	17.55608	.3457083	.3336569	.6336688	1.998059	4.110488	9.653155
#2	17.66275	.3504020	.3347028	.6368548	1.991426	4.170844	9.697733
#3	17.57647	.3470872	.3351849	.6378854	1.995914	4.122669	9.688443

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01MSD Acquired: 10/29/2025 16:08:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0699930	.2604958	.1581644
Stddev	.0066762	.0004525	.0010393
%RSD	9.538452	.1737127	.6570743
#1	.0630146	.2604066	.1573371
#2	.0706451	.2609862	.1578252
#3	.0763192	.2600944	.1593309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7008.112	107848.3	8567.294	5373.050	6986.242
Stddev	18.637	235.1	65.323	2.548	33.227
%RSD	.2659320	.2179630	.7624748	.0474187	.4756060
#1	7028.759	107746.1	8549.555	5373.969	7019.881
#2	7003.041	107681.6	8639.655	5375.011	6985.404
#3	6992.535	108117.1	8512.672	5370.170	6953.443

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01A Acquired: 10/29/2025 16:12:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.6780338**	**1.776430**	**.9907441**	**1.588780**	**.6560559**	**84.51206**	**.4476528**
Stddev	.0012714	.025050	.0035863	.003952	.0020192	.12615	.0013516
%RSD	.1875080	1.410112	.3619804	.2487725	.3077782	.1492641	.3019189
#1	.6778475	1.792358	.9919158	1.592980	.6552448	84.39208	.4488625
#2	.6768658	1.789375	.9867185	1.585134	.6583545	84.50052	.4461941
#3	.6793880	1.747556	.9935980	1.588225	.6545684	84.64358	.4479017

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1655419**	**.1814620**	**12.32376**	**.4492782**	**.2525412**	**.5783726**	**165.1321**
Stddev	.0005165	.0001879	.03983	.0006559	.0002827	.0013540	1.0352
%RSD	.3120041	.1035684	.3231911	.1459865	.1119231	.2340970	.6268829
#1	.1652017	.1816691	12.31484	.4492586	.2527722	.5770062	165.3152
#2	.1661363	.1813023	12.28915	.4499437	.2522260	.5797138	164.0176
#3	.1652878	.1814146	12.36730	.4486324	.2526254	.5783979	166.0636

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.102007**	**24.97734**	**.5959312**	**.0655533**	**9.186949**	**.4222035**	**.4485398**
Stddev	.021592	.06978	.0016962	.0003876	.027273	.0023177	.0005590
%RSD	.5263864	.2793620	.2846211	.5913173	.2968639	.5489640	.1246372
#1	4.090258	24.97266	.5971103	.0653575	9.197059	.4209758	.4479178
#2	4.088837	24.91002	.5939873	.0653026	9.156065	.4248768	.4490004
#3	4.126926	25.04933	.5966958	.0659997	9.207723	.4207578	.4487011

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.74277**	**.3662408**	**.3452134**	**.6666863**	**2.057517**	**3.957980**	**9.560356**
Stddev	.05535	.0030578	.0005157	.0017469	.007168	.020887	.066797
%RSD	.3305807	.8349011	.1493911	.2620220	.3483850	.5277220	.6986842
#1	16.75265	.3661558	.3446661	.6673246	2.051329	3.977760	9.635559
#2	16.68314	.3632264	.3456902	.6647101	2.055850	3.936138	9.507915
#3	16.79250	.3693402	.3452839	.6680242	2.065372	3.960040	9.537595

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3469-01A Acquired: 10/29/2025 16:12:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0523935	.2696831	.1500770
Stddev	.0016084	.0031661	.0006381
%RSD	3.069892	1.174006	.4251800
#1	.0539070	.2716463	.1498765
#2	.0525690	.2660306	.1507913
#3	.0507046	.2713723	.1495632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6992.242	107230.5	8500.574	5292.304	6969.377
Stddev	15.780	301.3	20.812	14.277	7.362
%RSD	.2256825	.2809925	.2448286	.2697742	.1056377
#1	7010.288	106906.6	8504.171	5301.084	6974.655
#2	6981.034	107282.7	8478.198	5275.830	6972.510
#3	6985.404	107502.4	8519.353	5299.998	6960.967

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170264BL Acquired: 10/29/2025 16:16:14 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.000643**	**-.011750**	**-.000398**	**.0013259**	**-.003898**	**-.003703**
Stddev	.001524	.003760	.000349	.0038558	.000598	.008004
%RSD	237.0931	31.99694	87.83928	290.8028	15.34700	216.1724
#1	-.001121	-.011826	-.000024	.0057694	-.003397	.005056
#2	-.001871	-.007953	-.000716	-.000652	-.003737	-.010637
#3	.001063	-.015471	-.000453	-.001139	-.004560	-.005526

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016283**	**.0000871**	**-.000007**	**-.002481**	**-.000004**	**.0002240**
Stddev	.0011883	.0000080	.000030	.010460	.000334	.0000654
%RSD	72.97987	9.138621	427.1990	421.6001	9047.183	29.21550
#1	.0021606	.0000954	-.000041	-.013398	-.000303	.0002238
#2	.0024575	.0000863	.000015	.007453	.000357	.0001586
#3	.0002669	.0000795	.000006	-.001499	-.000065	.0002895

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**.0000047**	**.0000725**	**-.015001**	**.0000521**	**-.000428**
Stddev	.000109	.0133829	.0001012	.011204	.0001799	.000278
%RSD	594.9250	284323.1	139.4998	74.69106	345.2601	64.92893
#1	-.000064	.0154514	.0000363	-.023260	-.000148	-.000711
#2	.000106	-.007331	-.000006	-.019495	.000201	-.000418
#3	-.000097	-.008106	.000187	-.002247	.000103	-.000155

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.076153**	**.0035786**	**.0000115**	**-.123973**	**-.007818**	**.0007962**
Stddev	.003360	.0034516	.0002087	.022740	.000135	.0002195
%RSD	4.412704	96.45105	1822.735	18.34280	1.732137	27.57368
#1	-.079276	.0067298	.0000573	-.135973	-.007875	.0005999
#2	-.072597	.0041163	-.000216	-.097746	-.007915	.0007553
#3	-.076586	-.000110	.000193	-.138199	-.007663	.0010332

Sample Name: PB170264BL Acquired: 10/29/2025 16:16:14 Type: Unk
Method: 6010-200.7 NEW(v324) 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	F .0238592	-.001040	-.006796	.0002561	F -.012513	.0009423
Stddev	.0004768	.000966	.006358	.0014037	.001991	.0010674
%RSD	1.998386	92.89903	93.55296	548.1571	15.91538	113.2760
#1	.0241628	-.002015	.000501	-.000952	-.011662	.0009624
#2	.0241052	-.000083	-.009750	-.000075	-.014788	-.000135
#3	.0233097	-.001021	-.011139	.001796	-.011087	.002000

Elem	Sr4077
Units	ppm
Avg	-.000072
Stddev	.000067
%RSD	92.63933
#1	-.000020
#2	-.000147
#3	-.000049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6041.030	93707.72	7190.715	4622.753	7606.533
Stddev	14.423	37.49	111.912	9.541	4.726
%RSD	.2387456	.0400076	1.556334	.2063893	.0621359
#1	6055.844	93741.01	7164.472	4631.242	7611.965
#2	6040.213	93715.06	7094.257	4624.590	7604.273
#3	6027.033	93667.11	7313.416	4612.428	7603.360

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170264BS Acquired: 10/29/2025 16:24:59 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.7661496**	**1.980723**	**.9136034**	**1.929093**	**.7901148**	**1.853911**	**.1869534**
Stddev	.0009825	.077745	.0036848	.004864	.0018739	.011317	.0010518
%RSD	.1282419	3.925058	.4033214	.2521640	.2371618	.6104584	.5625930
#1	.7660351	2.045131	.9097110	1.934222	.7879533	1.845831	.1864083
#2	.7671844	2.002675	.9170377	1.928511	.7911104	1.849055	.1862861
#3	.7652294	1.894362	.9140616	1.924546	.7912806	1.866845	.1881659

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1946297**	**.1826937**	**.9578718**	**.3949964**	**.1880636**	**.3001500**	**2.895481**
Stddev	.0020997	.0001542	.0097624	.0013200	.0005124	.0005086	.013064
%RSD	1.078823	.0843906	1.019177	.3341813	.2724798	.1694509	.4511694
#1	.1924790	.1825158	.9473232	.3934830	.1875198	.2999799	2.898380
#2	.1947358	.1827773	.9597039	.3955963	.1885375	.2997483	2.906851
#3	.1966744	.1827881	.9665884	.3959098	.1881334	.3007219	2.881211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1940175**	**1.940805**	**.4712709**	**.0736812**	**2.781062**	**.2900542**	**.1994921**
Stddev	.0010984	.037991	.0011917	.0001737	.019159	.0018054	.0004008
%RSD	.5661533	1.957473	.2528644	.2357236	.6889161	.6224519	.2008960
#1	.1936966	1.897277	.4699528	.0738230	2.794299	.2916924	.1992893
#2	.1931152	1.957846	.4715878	.0734875	2.789796	.2903517	.1992332
#3	.1952406	1.967291	.4722721	.0737331	2.759093	.2881185	.1999537

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.188352**	**.2775951**	**.4004902**	**.6828530**	**.1877773**	**.8378389**	**5.441819**
Stddev	.041265	.0031075	.0009266	.0017836	.0006375	.0084424	.020192
%RSD	.4490966	1.119424	.2313584	.2611960	.3395092	1.007639	.3710473
#1	9.215429	.2741022	.4006513	.6843421	.1876354	.8475860	5.462341
#2	9.208768	.2786301	.4013256	.6833404	.1872227	.8328258	5.441141
#3	9.140859	.2800529	.3994936	.6808763	.1884738	.8331049	5.421974

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: PB170264BS Acquired: 10/29/2025 16:24:59 Type: Unk
Method: 6010-200.7 NEW(v324) 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 -.011045	.1864110	.1889266
Stddev	.001202	.0019401	.0004549
%RSD	10.87993	1.040751	.2407935
#1	-.010479	.1842502	.1885083
#2	-.012425	.1869796	.1894109
#3	-.010231	.1880033	.1888605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6192.755	95829.11	7286.861	4791.921	7509.553
Stddev	11.801	177.72	63.927	25.413	9.078
%RSD	.1905583	.1854539	.8772935	.5303301	.1208866
#1	6188.075	96001.59	7356.248	4817.455	7511.775
#2	6184.012	95646.58	7273.978	4791.677	7499.571
#3	6206.178	95839.16	7230.356	4766.630	7517.314

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3442-01 Acquired: 10/29/2025 16:29:00 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.002823**	**-.013547**	**-.000405**	**.0045794**	**-.002260**	**.0862242**	**.0081422**
Stddev	.000086	.001385	.000921	.0005452	.002177	.0124700	.0004594
%RSD	3.055874	10.22318	227.2025	11.90499	96.35462	14.46233	5.642793
#1	-.002917	-.014967	-.000401	.0051972	-.004488	.0814495	.0086708
#2	-.002749	-.013473	-.001329	.0043754	-.000137	.0768471	.0079168
#3	-.002802	-.012200	.000513	.0041657	-.002155	.1003760	.0078391

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000116**	**-.000055**	**10.29488**	**.0171299**	**-.000148**	**.0033780**	**.2480086**
Stddev	.000036	.000043	.02167	.0001722	.000216	.0002511	.0117472
%RSD	30.93492	77.53777	.2104526	1.005119	146.3392	7.433370	4.736605
#1	-.000149	-.000007	10.27092	.0169829	-.000273	.0036670	.2377649
#2	-.000078	-.000069	10.31311	.0173193	-.000272	.0032132	.2608309
#3	-.000122	-.000089	10.30060	.0170875	.000102	.0032539	.2454301

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120782**	**.6759621**	**.0032181**	**-.000731**	**.4143295**	**.0059295**	**.0226828**
Stddev	.0005350	.0065942	.0002653	.000187	.0198249	.0024190	.0002559
%RSD	4.429202	.9755336	8.242717	25.58550	4.784810	40.79647	1.128298
#1	.0116498	.6826233	.0030236	-.000553	.4035524	.0080621	.0227459
#2	.0119069	.6694370	.0035202	-.000926	.4372085	.0064256	.0224012
#3	.0126778	.6758260	.0031103	-.000715	.4022276	.0033009	.0229012

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.018761**	**-.007118**	**.0010333**	**-.011057**	**.0001802**	**.2311916**	**.0148297**
Stddev	.023694	.000756	.0001713	.000198	.0031523	.0126863	.0019119
%RSD	126.2923	10.62649	16.57830	1.788249	1748.980	5.487366	12.89225
#1	-.003543	-.006645	.0009350	-.011032	.0036741	.2305288	.0150273
#2	-.046060	-.006717	.0009338	-.011266	-.000683	.2441963	.0128267
#3	-.006680	-.007990	.0012311	-.010872	-.002451	.2188496	.0166352

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3442-01 Acquired: 10/29/2025 16:29:00 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6573940	-.004785	.0342859
Stddev	.0032167	.000394	.0001734
%RSD	.4893079	8.240824	.5056379
#1	.6593291	-.004660	.0341033
#2	.6591721	-.004468	.0344483
#3	.6536808	-.005226	.0343063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6181.740	96348.97	7428.366	4696.029	7789.477
Stddev	1.942	3239.69	34.519	102.896	12.027
%RSD	.0314176	3.362453	.4646860	2.191124	.1544025
#1	6183.841	98827.76	7406.954	4776.595	7794.693
#2	6180.011	92683.20	7409.958	4580.119	7775.722
#3	6181.368	97535.93	7468.187	4731.374	7798.015

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-02 Acquired: 10/29/2025 16:33:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0056203**	**-.016591**	**.0314234**	**.0023745**	**-.003012**	**16.74937**
Stddev	.0008911	.002820	.0010638	.0010394	.001180	.08894
%RSD	15.85537	16.99953	3.385467	43.77250	39.19127	.5309984
#1	.0047841	-.019213	.0311248	.0025091	-.003316	16.85190
#2	.0055192	-.016953	.0305408	.0033400	-.001709	16.69312
#3	.0065577	-.013607	.0326046	.0012744	-.004010	16.70308

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3904156**	**.0011075**	**-.000104**	**48.23726**	**.0432123**	**.0125081**
Stddev	.0019712	.0000495	.000127	.27379	.0005863	.0001759
%RSD	.5048941	4.470202	122.4957	.5675911	1.356730	1.406148
#1	.3923892	.0011603	.000039	48.55171	.0436764	.0123654
#2	.3904109	.0011001	-.000204	48.10832	.0434072	.0124542
#3	.3884468	.0010621	-.000147	48.05175	.0425535	.0127046

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1487960**	**23.08101**	**1.215467**	**12.84080**	**.0237593**	**.0007151**
Stddev	.0007199	.93287	.006866	.15667	.0005921	.0003918
%RSD	.4838053	4.041717	.5649196	1.220116	2.492204	54.79607
#1	.1496272	22.05498	1.222143	13.01802	.0244431	.0002802
#2	.1483888	23.87809	1.215832	12.72073	.0234159	.0008244
#3	.1483720	23.30995	1.208425	12.78364	.0234190	.0010406

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**455.9673**	**.0625615**	**.2554716**	**4.984259**	**.1901667**	**.0112156**
Stddev	2.7813	.0021704	.0026993	.256370	.0050128	.0001757
%RSD	.6099688	3.469175	1.056612	5.143588	2.636025	1.566432
#1	456.5039	.0621003	.2571800	4.704349	.1958104	.0110961
#2	458.4412	.0606588	.2568751	5.207661	.1884586	.0114173
#3	452.9569	.0649254	.2523596	5.040766	.1862312	.0111334

Sample Name: Q3464-02 Acquired: 10/29/2025 16:33:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.011221	.3892420	F 67.07786	3.095079	F 172.6297	-.002422
Stddev	.000419	.0016720	2.50509	.014857	.8507	.001172
%RSD	3.731952	.4295481	3.734607	.4800158	.4927933	48.37407
#1	-.011659	.3889961	64.25189	3.105602	173.2810	-.002114
#2	-.011180	.3910233	69.02555	3.101551	172.9409	-.001435
#3	-.010825	.3877066	67.95615	3.078084	171.6672	-.003717

Elem	Sr4077
Units	ppm
Avg	.1772252
Stddev	.0005900
%RSD	.3329008
#1	.1778267
#2	.1766475
#3	.1772012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5913.553	90536.44	7286.068	4535.327	6432.293
Stddev	14.014	778.09	375.513	34.441	8.471
%RSD	.2369742	.8594247	5.153851	.7593861	.1316925
#1	5899.365	89843.63	6852.900	4503.487	6423.910
#2	5927.385	90387.41	7519.515	4530.612	6440.849
#3	5913.909	91378.26	7485.788	4571.883	6432.120

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV03 Acquired: 10/29/2025 16:37:31 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.080474**	**4.736629**	**5.020818**	**5.065326**	**5.122921**	**9.727790**	**9.728265**
Stddev	.033477	.112914	.043367	.021893	.025592	.017505	.131714
%RSD	.6589344	2.383845	.8637396	.4322132	.4995504	.1799480	1.353933
#1	5.088511	4.677711	5.024387	5.071205	5.139491	9.733028	9.611041
#2	5.043711	4.866816	4.975777	5.041094	5.093447	9.742078	9.702957
#3	5.109202	4.665361	5.062290	5.083679	5.135827	9.708264	9.870797

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2486321**	**2.512984**	**24.96542**	**1.031004**	**2.515820**	**1.268240**	**5.076436**
Stddev	.0009001	.021273	.05858	.002331	.021160	.009071	.042267
%RSD	.3620181	.8465089	.2346415	.2260601	.8410669	.7152626	.8326203
#1	.2483150	2.513818	24.91324	1.030685	2.518289	1.269510	5.056298
#2	.2496478	2.491307	25.02879	1.028849	2.493534	1.258601	5.048004
#3	.2479334	2.533828	24.95424	1.033478	2.535637	1.276610	5.125007

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.468045**	**25.01163**	**2.514140**	**1.280926**	**25.34513**	**2.503216**	**2.555938**
Stddev	.003934	.12711	.021512	.001649	.12707	.005426	.001373
%RSD	.1593827	.5081855	.8556352	.1287185	.5013613	.2167722	.0537313
#1	2.463617	24.92078	2.513685	1.281265	25.43715	2.504299	2.556726
#2	2.471137	25.15688	2.492860	1.279134	25.20014	2.508018	2.554352
#3	2.469380	24.95722	2.535876	1.282379	25.39810	2.497329	2.556736

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.15648**	**4.946803**	**5.117643**	**5.082575**	**4.965470**	**5.152286**	**5.006574**
Stddev	.12962	.025141	.031972	.033958	.012203	.018009	.038266
%RSD	.5152558	.5082275	.6247443	.6681164	.2457573	.3495424	.7643159
#1	25.19415	4.936766	5.122419	5.084748	4.952469	5.168959	4.992026
#2	25.01219	4.975412	5.083552	5.047583	4.967264	5.133186	4.977716
#3	25.26308	4.928231	5.146959	5.115394	4.976676	5.154713	5.049981

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV03 Acquired: 10/29/2025 16:37:31 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.997031**	**4.653048**	**5.225471**
Stddev	.018003	.009971	.023221
%RSD	.3602797	.2142851	.4443852
#1	4.986556	4.641890	5.203846
#2	4.986718	4.656168	5.250013
#3	5.017819	4.661086	5.222554

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5928.574**	**91379.05**	**7156.211**	**4557.535**	**6732.184**
Stddev	36.448	163.28	29.839	11.407	49.025
%RSD	.6147860	.1786855	.4169633	.2502969	.7282120
#1	5933.907	91390.40	7180.414	4567.982	6740.605
#2	5962.062	91536.37	7122.873	4559.259	6776.452
#3	5889.754	91210.40	7165.347	4545.364	6679.494

Sample Name: CCB03 Acquired: 10/29/2025 16:41:39 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0000720**	**-.012235**	**-.000828**	**.0022945**	**-.003143**	**-.003248**	**.0006412**
Stddev	.0013943	.003900	.001263	.0044025	.001295	.001407	.0005319
%RSD	1936.285	31.87452	152.4909	191.8714	41.19038	43.30060	82.94750
#1	.0013196	-.009415	.000277	-.002789	-.002005	-.001872	.0012449
#2	-.001433	-.016686	-.000557	.004794	-.002873	-.004683	.0002417
#3	.000330	-.010605	-.002205	.004878	-.004552	-.003191	.0004370

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000506**	**-.000006**	**-.008925**	**-.000134**	**-.000095**	**-.000201**	**.0289598**
Stddev	.0000862	.000004	.008804	.000280	.000080	.000228	.0026305
%RSD	170.2689	64.15028	98.64973	208.9775	83.88274	113.6622	9.083352
#1	.0001470	-.000008	-.000999	.000158	-.000116	-.000120	.0260982
#2	-.000019	-.000001	-.007374	-.000159	-.000007	-.000458	.0312726
#3	.000024	-.000008	-.018402	-.000401	-.000162	-.000024	.0295086

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006366**	**-.005800**	**.0000606**	**-.000314**	**.0597688**	**.0017383**	**-.000124**
Stddev	.0007320	.020159	.0001374	.000188	.0133017	.0026395	.000168
%RSD	114.9919	347.5632	226.5892	59.94044	22.25535	151.8450	134.9219
#1	.0014818	.003733	.0001767	-.000529	.0446491	.0047862	.000018
#2	.0002255	-.028958	.0000963	-.000187	.0649870	.0002024	-.000082
#3	.0002025	.007825	-.000091	-.000224	.0696702	.0002263	-.000309

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076996**	**-.004887**	**-.000120**	**.0007186**	**-.000978**	**.0098984**	**-.000416**
Stddev	.0249889	.000469	.000076	.0000357	.000909	.0029017	.000560
%RSD	324.5480	9.591337	63.14982	4.972453	92.87535	29.31500	134.6633
#1	.0287302	-.004815	-.000053	.0007455	-.001968	.0066641	-.000715
#2	.0142937	-.004458	-.000203	.0007323	-.000785	.0107577	-.000764
#3	-.019925	-.005387	-.000105	.0006780	-.000182	.0122734	.000230

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB03 Acquired: 10/29/2025 16:41:39 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.004928	.0034029	.0003274
Stddev	.001646	.0000815	.0000798
%RSD	33.39922	2.394253	24.37015
#1	-.006507	.0034355	.0004124
#2	-.003223	.0034629	.0003157
#3	-.005056	.0033101	.0002541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6207.906	96586.26	7325.598	4765.574	7795.847
Stddev	15.405	299.07	51.139	17.577	17.404
%RSD	.2481536	.3096366	.6980826	.3688328	.2232478
#1	6195.462	96365.10	7283.714	4747.709	7792.208
#2	6203.120	96467.17	7310.491	4766.164	7780.549
#3	6225.136	96926.53	7382.588	4782.848	7814.782

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01 Acquired: 10/29/2025 16:45:58 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.003668**	**-.016535**	**.0544075**	**-.000847**	**-.002028**	**6.076964**
Stddev	.001485	.002304	.0011819	.002890	.000807	.044794
%RSD	40.47606	13.93229	2.172352	341.1804	39.79550	.7371163
#1	-.005190	-.014649	.0554973	.002346	-.002596	6.125259
#2	-.002224	-.019103	.0545740	-.001604	-.002385	6.068853
#3	-.003590	-.015853	.0531511	-.003284	-.001104	6.036779

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2171951**	**-.000011**	**.0001098**	**282.3824**	**.0263002**	**.0086313**
Stddev	.0016458	.000036	.0000248	1.4642	.0003493	.0000610
%RSD	.7577307	324.1538	22.58037	.5185021	1.328049	.7068355
#1	.2188872	-.000012	.0001101	283.7776	.0263792	.0086754
#2	.2170980	.000026	.0001344	282.5119	.0266031	.0085617
#3	.2156000	-.000047	.0000848	280.8579	.0259181	.0086569

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1789297**	**6.886055**	**2.173811**	**27.58132**	**.0569305**	**-.000276**
Stddev	.0010209	.066284	.016149	.11043	.0002883	.000450
%RSD	.5705697	.9625776	.7428663	.4003776	.5063725	163.4277
#1	.1796676	6.959885	2.187397	27.60135	.0567954	.000193
#2	.1793569	6.866613	2.178079	27.68036	.0572615	-.000314
#3	.1777646	6.831666	2.155958	27.46225	.0567346	-.000705

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**636.6173**	**.0107023**	**1.075721**	**22.78704**	**.2469840**	**.0102924**
Stddev	2.7269	.0028096	.002808	.14400	.0024762	.0003932
%RSD	.4283446	26.25279	.2610289	.6319536	1.002593	3.820811
#1	633.7042	.0136897	1.076244	22.95314	.2479169	.0098987
#2	639.1090	.0103044	1.078231	22.69735	.2488584	.0102933
#3	637.0386	.0081128	1.072688	22.71062	.2441769	.0106852

Sample Name: Q3464-01 Acquired: 10/29/2025 16:45:58 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.007180	.3801473	F 82.08150	.7988356	F 559.3753	-.037628
Stddev	.000316	.0023555	.25201	.0043782	4.5263	.000959
%RSD	4.405910	.6196351	.3070241	.5480683	.8091620	2.547881
#1	-.007391	.3824988	82.37244	.8036678	564.5916	-.038372
#2	-.007332	.3801556	81.94084	.7951329	557.0492	-.036546
#3	-.006816	.3777877	81.93121	.7977059	556.4852	-.037966

Elem	Sr4077
Units	ppm
Avg	.9068358
Stddev	.0036661
%RSD	.4042704
#1	.9101140
#2	.9075163
#3	.9028772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5618.997	85827.33	7151.535	4351.968	5975.367
Stddev	5.523	641.56	48.244	15.662	7.709
%RSD	.0982912	.7474979	.6745899	.3598924	.1290075
#1	5614.605	86515.60	7206.826	4369.627	5972.253
#2	5625.198	85720.49	7118.004	4346.522	5984.145
#3	5617.189	85245.89	7129.776	4339.756	5969.702

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01DUP Acquired: 10/29/2025 16:50:14 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.003868**	**-.018436**	**.0554226**	**-.000434**	**.0006469**	**6.255287**
Stddev	.000741	.002135	.0013586	.002448	.0010894	.044285
%RSD	19.16226	11.58130	2.451325	564.3506	168.3990	.7079610
#1	-.003091	-.020501	.0565406	-.003184	.0000847	6.296171
#2	-.003944	-.016237	.0558166	.000375	-.000047	6.261444
#3	-.004568	-.018569	.0539105	.001508	.001902	6.208245

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2181085**	**-.000007**	**.0000871**	**282.6529**	**.0260835**	**.0088743**
Stddev	.0011937	.000122	.0000478	.3612	.0007162	.0000603
%RSD	.5473111	1684.681	54.89483	.1278050	2.745919	.6789454
#1	.2192240	-.000036	.0001263	282.2650	.0268698	.0089297
#2	.2168495	.000127	.0000338	282.7142	.0259124	.0088101
#3	.2182518	-.000112	.0001013	282.9796	.0254684	.0088831

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1799263**	**6.804362**	**2.169070**	**27.78039**	**.0568683**	**.0002679**
Stddev	.0004393	.124347	.005755	.10406	.0001247	.0004085
%RSD	.2441475	1.827461	.2653166	.3745696	.2193468	152.4906
#1	.1803609	6.909317	2.173081	27.67363	.0568060	.0005613
#2	.1794825	6.836741	2.162476	27.88151	.0567870	.0004412
#3	.1799354	6.667029	2.171653	27.78604	.0570119	-.000199

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**629.3378**	**.0098147**	**1.073127**	**22.51138**	**.2501454**	**.0101228**
Stddev	9.9944	.0011488	.018220	.54624	.0008525	.0000755
%RSD	1.588088	11.70530	1.697882	2.426489	.3407893	.7454985
#1	633.8007	.0091060	1.085849	22.96257	.2494575	.0100525
#2	636.3232	.0111402	1.081278	22.66748	.2498796	.0102025
#3	617.8894	.0091978	1.052254	21.90408	.2510991	.0101134

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01DUP Acquired: 10/29/2025 16:50:14 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.007051	.3780418	F 82.18454	.7953976	F 560.0253	-.040168
Stddev	.000325	.0017934	1.91586	.0044309	2.1938	.001128
%RSD	4.606604	.4743839	2.331172	.5570723	.3917373	2.807290
#1	-.006902	.3797254	83.75323	.7909061	557.7519	-.038888
#2	-.007424	.3782442	82.75110	.7955213	562.1297	-.041015
#3	-.006828	.3761558	80.04929	.7997654	560.1943	-.040600

Elem	Sr4077
Units	ppm
Avg	.9040365
Stddev	.0042729
%RSD	.4726465
#1	.9014562
#2	.9089687
#3	.9016847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5605.453	84864.00	6976.212	4308.917	5970.011
Stddev	14.174	1541.90	65.844	71.439	15.182
%RSD	.2528608	1.816905	.9438315	1.657932	.2543046
#1	5610.672	83192.15	6964.408	4232.467	5979.954
#2	5616.277	85169.69	7047.159	4320.308	5977.543
#3	5589.409	86230.15	6917.068	4373.976	5952.536

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01LX5 Acquired: 10/29/2025 16:54:30 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.000342**	**-.015378**	**.0121789**	**-.001688**	**-.003676**	**1.369297**
Stddev	.001734	.001102	.0005628	.001186	.001173	.019611
%RSD	506.3891	7.168142	4.621254	70.30234	31.90571	1.432213
#1	-.002345	-.016487	.0128287	-.003057	-.004881	1.356676
#2	.000667	-.015364	.0118434	-.001011	-.002538	1.391891
#3	.000651	-.014282	.0118647	-.000994	-.003609	1.359325

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0494933**	**.0000353**	**-.000036**	**58.68126**	**.0054858**	**.0017651**
Stddev	.0021826	.0000107	.000031	.15938	.0001495	.0000670
%RSD	4.409952	30.28140	86.39864	.2716106	2.724502	3.792947
#1	.0470720	.0000234	-.000016	58.80063	.0055127	.0018365
#2	.0513095	.0000385	-.000072	58.74289	.0053248	.0017551
#3	.0500985	.0000441	-.000020	58.50026	.0056201	.0017037

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0391259**	**1.328316**	**.4464743**	**5.778455**	**.0118120**	**-.000123**
Stddev	.0003870	.023944	.0026709	.057119	.0002192	.000318
%RSD	.9890893	1.802565	.5982186	.9884906	1.856058	259.0364
#1	.0391828	1.317254	.4485442	5.782095	.0119908	-.000254
#2	.0387135	1.311902	.4474193	5.719602	.0115674	-.000355
#3	.0394812	1.355790	.4434594	5.833667	.0118779	.000240

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.5422**	**.0015450**	**.2188355**	**4.487978**	**.0515361**	**.0026995**
Stddev	1.4576	.0040147	.0011494	.009567	.0001613	.0001191
%RSD	1.199231	259.8592	.5252315	.2131772	.3130604	4.412482
#1	120.7963	-.002972	.2186665	4.494457	.0513898	.0026614
#2	120.6086	.004706	.2177799	4.476990	.0517092	.0028331
#3	123.2218	.002902	.2200600	4.492488	.0515093	.0026042

Sample Name: Q3464-01LX5 Acquired: 10/29/2025 16:54:30 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0176624	.0821320	F 16.51590	.1521717	F 118.6567	.0052451
Stddev	.0000831	.0014663	.20687	.0032061	.8415	.0008795
%RSD	.4704365	1.785239	1.252534	2.106874	.7092284	16.76790
#1	.0177073	.0826813	16.34991	.1492061	117.7938	.0051468
#2	.0177134	.0804704	16.45013	.1555736	118.7013	.0061697
#3	.0175666	.0832443	16.74766	.1517356	119.4751	.0044189

Elem	Sr4077
Units	ppm
Avg	.1879478
Stddev	.0002885
%RSD	.1534997
#1	.1881737
#2	.1876228
#3	.1880470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5865.968	89265.26	6900.074	4466.127	6667.401
Stddev	13.981	811.16	44.985	23.906	20.399
%RSD	.2383396	.9087106	.6519430	.5352693	.3059468
#1	5880.699	89868.39	6890.364	4484.228	6690.149
#2	5864.324	89584.31	6860.737	4475.125	6661.319
#3	5852.882	88343.08	6949.121	4439.028	6650.735

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01MS Acquired: 10/29/2025 16:58:42 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.7734765**	**1.693664**	**.9546260**	**1.927239**	**.6826775**	**7.224903**
Stddev	.0006216	.051964	.0025113	.004058	.0014494	.010478
%RSD	.0803693	3.068161	.2630644	.2105819	.2123145	.1450228
#1	.7727645	1.644726	.9567335	1.931046	.6810489	7.228604
#2	.7739115	1.748202	.9552972	1.927702	.6831577	7.213077
#3	.7737534	1.688065	.9518474	1.922968	.6838259	7.233028

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3874672**	**.1940921**	**.1912285**	**284.0851**	**.4136310**	**.2026790**
Stddev	.0010504	.0031920	.0006594	.4060	.0025349	.0004357
%RSD	.2710974	1.644593	.3448246	.1429303	.6128432	.2149575
#1	.3875991	.1950021	.1915769	284.3207	.4122370	.2031020
#2	.3884454	.1967303	.1916406	284.3183	.4120990	.2022317
#3	.3863571	.1905438	.1904680	283.6162	.4165569	.2027034

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4511710**	**9.430868**	**2.341020**	**29.82139**	**.5405347**	**.0596947**
Stddev	.0004264	.160399	.002144	.08262	.0018859	.0004154
%RSD	.0945026	1.700782	.0915708	.2770401	.3488917	.6959011
#1	.4510597	9.381072	2.342077	29.91250	.5420732	.0592767
#2	.4508113	9.301274	2.338553	29.80033	.5411001	.0597000
#3	.4516420	9.610259	2.342430	29.75135	.5384308	.0601075

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**612.4443**	**.2866081**	**1.264576**	**31.75969**	**.4998007**	**.4026034**
Stddev	2.9623	.0042449	.005872	.53510	.0075932	.0008763
%RSD	.4836879	1.481091	.4643704	1.684844	1.519252	.2176601
#1	611.6008	.2914341	1.265016	31.55919	.5027300	.4016075
#2	615.7369	.2834521	1.258496	31.35380	.5054929	.4029462
#3	609.9953	.2849383	1.270216	32.36609	.4911791	.4032564

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01MS Acquired: 10/29/2025 16:58:42 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6012359	.5007295	F 70.70238	6.995650	F 555.5697	.1432400
Stddev	.0003990	.0012698	1.11630	.034975	2.5526	.0023449
%RSD	.0663706	.2535985	1.578870	.4999606	.4594609	1.637022
#1	.6007752	.5008757	70.26833	6.961279	554.8704	.1438001
#2	.6014573	.4993929	69.86830	7.031200	558.3991	.1406657
#3	.6014751	.5019200	71.97051	6.994471	553.4397	.1452540

Elem	Sr4077
Units	ppm
Avg	1.096647
Stddev	.002280
%RSD	.2078950
#1	1.098973
#2	1.096553
#3	1.094416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5537.814	83602.62	6768.661	4280.009	5881.101
Stddev	26.994	945.84	83.211	55.245	20.719
%RSD	.4874570	1.131348	1.229363	1.290762	.3522899
#1	5568.959	84593.71	6795.603	4319.102	5904.189
#2	5523.336	83504.48	6675.316	4304.117	5864.128
#3	5521.148	82709.69	6835.063	4216.807	5874.986

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01MSD Acquired: 10/29/2025 17:02:47 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.8276399**	**1.997553**	**1.017892**	**2.074535**	**.7225176**	**8.016905**
Stddev	.0026649	.037929	.006191	.021601	.0053460	.008661
%RSD	.3219845	1.898753	.6081965	1.041228	.7399138	.1080379
#1	.8299181	2.041345	1.024456	2.099448	.7286475	8.024801
#2	.8247094	1.976189	1.017063	2.061027	.7188221	8.007642
#3	.8282920	1.975124	1.012157	2.063130	.7200830	8.018273

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4166609**	**.2157127**	**.2045999**	**297.6714**	**.4366513**	**.2165666**
Stddev	.0018403	.0017691	.0009090	.7015	.0016590	.0005632
%RSD	.4416702	.8201022	.4442832	.2356719	.3799395	.2600804
#1	.4186042	.2170457	.2056187	297.1781	.4356890	.2172170
#2	.4149448	.2137057	.2038718	297.3617	.4356979	.2162364
#3	.4164336	.2163867	.2043091	298.4745	.4385669	.2162464

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4734506**	**9.886676**	**2.479967**	**31.52189**	**.5768276**	**.0636855**
Stddev	.0015706	.086923	.010848	.09767	.0016407	.0002776
%RSD	.3317316	.8791924	.4374439	.3098461	.2844304	.4359527
#1	.4752640	9.788200	2.474207	31.40921	.5785274	.0635386
#2	.4725246	9.952720	2.473213	31.58226	.5752533	.0640057
#3	.4725632	9.919107	2.492480	31.57421	.5767021	.0635122

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**629.8640**	**.3208095**	**1.312166**	**33.14142**	**.5410330**	**.4317336**
Stddev	.3948	.0027634	.001542	.23237	.0049159	.0008703
%RSD	.0626863	.8613920	.1175160	.7011496	.9086141	.2015882
#1	629.7434	.3176404	1.311950	32.89643	.5455263	.4325972
#2	630.3051	.3227163	1.313804	33.16913	.5357824	.4308567
#3	629.5435	.3220719	1.310743	33.35869	.5417903	.4317468

Sample Name: Q3464-01MSD Acquired: 10/29/2025 17:02:47 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6531515	.5414212	F 70.23282	7.617045	F 576.3744	.1677346
Stddev	.0035364	.0009483	.53017	.035588	4.4174	.0023439
%RSD	.5414336	.1751438	.7548693	.4672144	.7664034	1.397374
#1	.6562354	.5406064	69.63411	7.651991	581.2230	.1662842
#2	.6492916	.5411952	70.64280	7.580849	572.5785	.1704387
#3	.6539275	.5424621	70.42154	7.618296	575.3216	.1664808

Elem	Sr4077
Units	ppm
Avg	1.126965
Stddev	.002398
%RSD	.2127464
#1	1.124197
#2	1.128405
#3	1.128292

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5398.939	80788.86	6358.967	4169.683	5721.337
Stddev	7.947	502.42	36.870	22.539	5.947
%RSD	.1471973	.6218931	.5798062	.5405488	.1039359
#1	5391.051	81309.96	6354.032	4194.298	5716.461
#2	5406.944	80749.13	6398.056	4164.694	5727.962
#3	5398.820	80307.48	6324.814	4150.056	5719.589

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3464-01A Acquired: 10/29/2025 17:06:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.7783623**	**1.829827**	**.9547639**	**1.968827**	**.7482189**	**8.103466**
Stddev	.0011584	.068417	.0045692	.009654	.0030127	.024262
%RSD	.1488259	3.739005	.4785649	.4903627	.4026555	.2994063
#1	.7770656	1.905933	.9559608	1.970520	.7447440	8.130694
#2	.7787266	1.773421	.9586155	1.958438	.7498123	8.095562
#3	.7792948	1.810127	.9497154	1.977523	.7501003	8.084141

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3997093**	**.2018611**	**.1913674**	**283.4367**	**.4092821**	**.2023951**
Stddev	.0016752	.0020796	.0004196	.3946	.0018256	.0004720
%RSD	.4190998	1.030230	.2192802	.1392114	.4460565	.2331952
#1	.3994918	.1999689	.1917094	283.1178	.4071786	.2019920
#2	.4014825	.2015268	.1914937	283.8780	.4102131	.2029143
#3	.3981534	.2040877	.1908991	283.3142	.4104545	.2022791

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4482086**	**9.387029**	**2.356166**	**30.01953**	**.5413192**	**.0641037**
Stddev	.0009199	.111624	.004972	.10625	.0007970	.0004027
%RSD	.2052441	1.189128	.2110119	.3539224	.1472326	.6282048
#1	.4486411	9.454323	2.353920	29.95682	.5422212	.0636721
#2	.4488326	9.448585	2.361864	29.95956	.5410263	.0644694
#3	.4471521	9.258180	2.352714	30.14220	.5407102	.0641697

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**610.7733**	**.2940747**	**1.253503**	**31.71752**	**.5174937**	**.4021212**
Stddev	5.6895	.0059358	.000693	.25971	.0048775	.0004956
%RSD	.9315320	2.018466	.0553055	.8188211	.9425184	.1232467
#1	604.7854	.2882468	1.253551	31.84196	.5121824	.4023715
#2	616.1081	.2938645	1.252787	31.89160	.5185266	.4024417
#3	611.4266	.3001128	1.254171	31.41901	.5217719	.4015504

Sample Name: Q3464-01A Acquired: 10/29/2025 17:06:52 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6799970	.5670821	F 80.15052	7.088590	F 555.1261	.1555228
Stddev	.0026131	.0129251	.64383	.021926	3.6254	.0027018
%RSD	.3842755	2.279226	.8032715	.3093125	.6530701	1.737246
#1	.6821326	.5575665	80.68594	7.113803	559.2957	.1585641
#2	.6807751	.5817972	80.32947	7.073991	552.7188	.1546042
#3	.6770832	.5618825	79.43615	7.077976	553.3638	.1534000

Elem	Sr4077
Units	ppm
Avg	1.065604
Stddev	.002007
%RSD	.1883779
#1	1.064038
#2	1.067867
#3	1.064905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5530.942	82158.93	6486.451	4238.244	5868.591
Stddev	43.314	179.61	57.005	15.563	50.993
%RSD	.7831234	.2186181	.8788285	.3672094	.8689200
#1	5506.680	82365.92	6538.813	4224.542	5832.658
#2	5505.196	82044.19	6494.813	4255.165	5846.161
#3	5580.949	82066.67	6425.727	4235.026	5926.955

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3476-01 Acquired: 10/29/2025 17:19:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0468596**	**-.038172**	**.1352546**	**.0084497**	**-.012757**	**216.2664**	**.5128096**
Stddev	.0012065	.001665	.0021100	.0025823	.003660	.3507	.0022225
%RSD	2.574621	4.363066	1.559985	30.56063	28.69178	.1621708	.4333897
#1	.0475587	-.039560	.1373885	.0057983	-.015807	216.1737	.5130207
#2	.0475537	-.036325	.1331695	.0085940	-.008698	216.6542	.5149190
#3	.0454665	-.038630	.1352056	.0109568	-.013765	215.9713	.5104891

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0154681**	**.0017884**	**36.12171**	**.2409676**	**.1561831**	**.2130759**	**241.3627**
Stddev	.0001019	.0002008	.11120	.0005739	.0002501	.0004670	1.2068
%RSD	.6588793	11.22569	.3078420	.2381698	.1601226	.2191705	.4999807
#1	.0153515	.0020097	36.15806	.2405718	.1560739	.2133306	240.4956
#2	.0155401	.0017374	36.21019	.2407053	.1564692	.2133602	240.8516
#3	.0155128	.0016181	35.99689	.2416258	.1560062	.2125370	242.7409

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.258085**	**38.62570**	**.2350429**	**.0023068**	**12.98965**	**.4230522**	**.4195938**
Stddev	.006411	.14879	.0004246	.0001465	.06159	.0017132	.0002718
%RSD	.2839076	.3852094	.1806626	6.348755	.4741236	.4049575	.0647649
#1	2.260103	38.49858	.2353373	.0021383	12.93731	.4214765	.4192808
#2	2.263243	38.78935	.2345562	.0024039	12.97412	.4228042	.4197314
#3	2.250908	38.58915	.2352354	.0023782	13.05752	.4248758	.4197693

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.91846**	**.1713112**	**.0024643**	**.0083755**	**4.216991**	**4.697213**	**3.473215**
Stddev	.04222	.0093250	.0002834	.0005498	.012688	.045099	.015795
%RSD	.3866575	5.443317	11.50250	6.564647	.3008793	.9601224	.4547519
#1	10.87069	.1635442	.0027221	.0081741	4.219834	4.727006	3.491363
#2	10.93396	.1687363	.0025101	.0089977	4.228017	4.645327	3.462579
#3	10.95074	.1816531	.0021607	.0079548	4.203123	4.719305	3.465702

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3476-01 Acquired: 10/29/2025 17:19:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	1.444941	.1656706	-.132562
Stddev	.009194	.0007873	.000971
%RSD	.6363084	.4752368	.7326142
#1	1.454478	.1665298	-.131813
#2	1.444210	.1654982	-.132214
#3	1.436133	.1649837	-.133660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7008.604	103544.3	8012.770	5362.333	6489.279
Stddev	6.098	427.4	37.063	14.999	2.892
%RSD	.0870132	.4127382	.4625536	.2797048	.0445606
#1	7001.756	104025.4	8019.696	5375.558	6486.267
#2	7013.450	103398.9	7972.732	5346.036	6492.033
#3	7010.604	103208.5	8045.882	5365.406	6489.539

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3477-01 Acquired: 10/29/2025 17:23:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0481169**	**-.031996**	**.1107302**	**.0003746**	**-.015812**	**114.9904**	**.4954826**
Stddev	.0023024	.001243	.0018598	.0015802	.001914	.3041	.0036886
%RSD	4.784967	3.886247	1.679563	421.8199	12.10793	.2644555	.7444510
#1	.0471803	-.032616	.1104588	-.001286	-.017986	115.0630	.4922389
#2	.0464303	-.032807	.1090211	.000551	-.015069	114.6565	.4947138
#3	.0507399	-.030564	.1127108	.001859	-.014379	115.2515	.4994950

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100195**	**.0035594**	**17.56228**	**.1669309**	**.1060915**	**.2160591**	**223.4176**
Stddev	.0000027	.0001659	.05461	.0003477	.0002797	.0012641	1.8122
%RSD	.0265781	4.661756	.3109733	.2083034	.2636541	.5850749	.8111140
#1	.0100222	.0037093	17.57398	.1665866	.1059923	.2174378	221.3251
#2	.0100169	.0033811	17.50277	.1669242	.1058749	.2149547	224.4642
#3	.0100195	.0035877	17.61010	.1672820	.1064073	.2157847	224.4634

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.443848**	**35.22364**	**.1927898**	**.0009053**	**.6183078**	**.2908096**	**.4482439**
Stddev	.026806	.06686	.0003531	.0009056	.0145125	.0013999	.0005133
%RSD	.6032268	.1898187	.1831449	100.0331	2.347132	.4813644	.1145101
#1	4.412895	35.23331	.1930440	.0002624	.6063085	.2897910	.4488366
#2	4.459215	35.15247	.1929387	.0019410	.6141771	.2924058	.4479412
#3	4.459435	35.28513	.1923866	.0005125	.6344379	.2902320	.4479540

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.836641**	**.1176232**	**.0032963**	**.0087955**	**2.873379**	**6.592357**	**5.913454**
Stddev	.073618	.0073562	.0001190	.0002570	.013329	.076602	.026063
%RSD	1.076813	6.254064	3.609752	2.922261	.4638753	1.161979	.4407375
#1	6.761154	.1101247	.0033180	.0085510	2.870914	6.680729	5.936097
#2	6.840534	.1248284	.0034029	.0090635	2.861455	6.544923	5.919302
#3	6.908235	.1179165	.0031679	.0087721	2.887768	6.551417	5.884964

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3477-01 Acquired: 10/29/2025 17:23:18 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.3113670**	**.1504567**	**-.143286**
Stddev	.0062962	.0015416	.001710
%RSD	2.022109	1.024642	1.193282
#1	.3182969	.1486847	-.141317
#2	.3059983	.1514899	-.144397
#3	.3098058	.1511956	-.144144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7162.441**	**109176.1**	**8026.023**	**5607.390**	**6656.581**
Stddev	4.769	820.6	27.280	32.605	5.097
%RSD	.0665888	.7516176	.3398935	.5814699	.0765768
#1	7156.954	110120.4	8049.797	5644.554	6658.809
#2	7165.595	108771.3	8032.033	5594.029	6650.749
#3	7164.774	108636.5	7996.239	5583.588	6660.185

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV04 Acquired: 10/29/2025 17:27:21 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.975337**	**5.308223**	**4.948318**	**4.942311**	**4.929834**	**9.643734**	**9.639233**
Stddev	.007561	.065845	.007552	.010754	.008600	.186543	.199119
%RSD	.1519784	1.240431	.1526165	.2175897	.1744578	1.934341	2.065710
#1	4.970314	5.235061	4.939677	4.949748	4.932258	9.746917	9.751496
#2	4.971663	5.326884	4.953655	4.929981	4.920281	9.755889	9.756871
#3	4.984033	5.362723	4.951622	4.947204	4.936962	9.428395	9.409332

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2618577**	**2.495051**	**24.61764**	**1.018015**	**2.480651**	**1.246557**	**4.701234**
Stddev	.0058195	.002910	.46968	.001489	.003452	.001679	.017073
%RSD	2.222394	.1166277	1.907921	.1462782	.1391395	.1347069	.3631545
#1	.2671853	2.491692	24.95872	1.019525	2.476671	1.246520	4.695870
#2	.2627407	2.496821	24.81227	1.016548	2.482467	1.244897	4.720344
#3	.2556472	2.496638	24.08192	1.017972	2.482816	1.248255	4.687487

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.464668**	**25.14081**	**2.486280**	**1.247016**	**23.71601**	**2.462185**	**2.492579**
Stddev	.046811	.53011	.003727	.001047	.11031	.044589	.007084
%RSD	1.899280	2.108571	.1499192	.0839360	.4651347	1.810954	.2842002
#1	2.491213	25.54439	2.482062	1.247195	23.59196	2.486891	2.494044
#2	2.492173	25.33758	2.487646	1.245892	23.80309	2.488952	2.484877
#3	2.410618	24.54044	2.489132	1.247962	23.75296	2.410712	2.498816

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.49836**	**5.193888**	**5.035000**	**5.071170**	**4.921398**	**4.796997**	**5.101909**
Stddev	.13584	.105492	.002313	.005321	.097109	.054467	.010241
%RSD	.5780708	2.031086	.0459384	.1049177	1.973208	1.135437	.2007354
#1	23.35409	5.289762	5.035661	5.066927	4.983438	4.735213	5.092035
#2	23.62380	5.211026	5.032428	5.077140	4.971271	4.838072	5.112482
#3	23.51718	5.080876	5.036910	5.069445	4.809486	4.817707	5.101210

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV04 Acquired: 10/29/2025 17:27:21 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.035701	4.749418	4.894116
Stddev	.011996	.101517	.140105
%RSD	.2382198	2.137468	2.862718
#1	5.027502	4.813419	4.917534
#2	5.030132	4.802469	5.021037
#3	5.049469	4.632367	4.743778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5910.925	90197.33	6550.770	4595.303	6667.616
Stddev	6.210	184.79	133.502	11.514	10.024
%RSD	.1050674	.2048742	2.037959	.2505546	.1503361
#1	5917.690	90404.63	6444.610	4595.207	6679.179
#2	5909.604	90049.90	6507.049	4606.864	6661.389
#3	5905.481	90137.44	6700.650	4583.837	6662.279

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB04 Acquired: 10/29/2025 17:31:24 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000754**	**-.011305**	**-.000219**	**.0023741**	**-.002227**	**.0078355**
Stddev	.001536	.004067	.000784	.0021344	.000307	.0124493
%RSD	203.5797	35.97279	358.2262	89.90281	13.78004	158.8821
#1	-.001773	-.009295	.000289	.0021826	-.002566	-.004603
#2	-.001502	-.015985	.000176	.0045977	-.001968	.007814
#3	.001012	-.008634	-.001122	.0003419	-.002148	.020295

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052839**	**.0000274**	**-.000002**	**-.002713**	**-.000092**	**-.000118**
Stddev	.0012679	.0000253	.000028	.007909	.000157	.000114
%RSD	23.99615	92.36500	1320.719	291.5152	171.3491	96.56589
#1	.0040617	.0000229	-.000004	.006417	-.000262	-.000248
#2	.0065931	.0000546	.000027	-.007488	-.000061	-.000067
#3	.0051970	.0000047	-.000030	-.007068	.000048	-.000039

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000143**	**-.006159**	**.0012403**	**-.041222**	**.0002971**	**-.000428**
Stddev	.000307	.007008	.0004787	.016809	.0004629	.000205
%RSD	215.0758	113.7727	38.59796	40.77571	155.7836	47.94274
#1	-.000457	.000875	.0014501	-.059388	-.000007	-.000193
#2	.000156	-.006214	.0006925	-.026221	.000068	-.000572
#3	-.000127	-.013140	.0015783	-.038057	.000830	-.000519

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2478005**	**.0023862**	**.0036748**	**.1124572**	**-.002236**	**.0000267**
Stddev	.0099199	.0011748	.0000212	.0298298	.000690	.0001264
%RSD	4.003179	49.23262	.5778666	26.52546	30.84970	472.7856
#1	.2363622	.0037260	.0036507	.0865748	-.001444	.0000783
#2	.2529915	.0015323	.0036830	.1057162	-.002708	.0001191
#3	.2540478	.0019004	.0036908	.1450807	-.002555	-.000117

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB04 Acquired: 10/29/2025 17:31:24 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014175	-.000324	.0035493	-.002414	F .0309839	.0033459
Stddev	.0007465	.001301	.0101242	.001541	.0031093	.0029516
%RSD	52.66638	400.9544	285.2425	63.83753	10.03503	88.21500
#1	.0007647	-.001524	-.001816	-.003910	.0345455	.0034535
#2	.0022314	.001058	.015227	-.000832	.0288107	.0003420
#3	.0012563	-.000508	-.002763	-.002500	.0295957	.0062423

Elem	Sr4077
Units	ppm
Avg	.0001173
Stddev	.0002050
%RSD	174.8635
#1	.0003501
#2	-.000036
#3	.000038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5916.243	92245.49	6575.791	4649.359	7387.426
Stddev	8.608	475.39	62.307	15.970	15.122
%RSD	.1455007	.5153514	.9475139	.3434892	.2047039
#1	5907.542	92766.63	6593.427	4645.460	7372.313
#2	5916.432	91835.57	6506.567	4635.700	7387.409
#3	5924.755	92134.26	6627.378	4666.918	7402.558

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3480-01 Acquired: 10/29/2025 17:35:43 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0635579	-.057578	.4025885	-.008112	-.028686	351.5697
Stddev	.0026687	.006313	.0037240	.001875	.001390	2.4582
%RSD	4.198873	10.96358	.9250204	23.11466	4.845340	.6992177
#1	.0624482	-.064662	.4020930	-.010207	-.029625	348.7873
#2	.0666024	-.052549	.4065355	-.006591	-.027089	352.4747
#3	.0616230	-.055523	.3991370	-.007539	-.029344	353.4472

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.695979	.0193872	.0292691	200.9584	1.096666	.7182612
Stddev	.008510	.0000525	.0007156	1.0830	.003017	.0016288
%RSD	.3156396	.2708246	2.445023	.5389382	.2750801	.2267627
#1	2.687184	.0193905	.0291223	199.7086	1.095111	.7167844
#2	2.704172	.0194380	.0286383	201.5438	1.100143	.7179910
#3	2.696581	.0193332	.0300468	201.6227	1.094744	.7200081

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.424052	705.3167	11.88049	232.1349	1.162071	^ *****
Stddev	.007072	7.4212	.07778	1.1103	.003119	-----
%RSD	.4966309	1.052184	.6546464	.4783000	.2684184	-----
#1	1.419768	709.2916	11.79782	230.8565	1.159480	^ -----
#2	1.420174	709.9037	11.95221	232.8576	1.161199	^ -----
#3	1.432215	696.7547	11.89146	232.6907	1.165533	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.48861	1.595001	.9767594	7.184420	^ *****	-.000237
Stddev	.11419	.012990	.0073204	.063853	-----	.000423
%RSD	.3409914	.8144063	.7494617	.8887671	-----	178.3237
#1	33.61849	1.581260	.9701277	7.257727	^ -----	-.000702
#2	33.40398	1.607080	.9846144	7.154599	^ -----	.000127
#3	33.44335	1.596662	.9755360	7.140933	^ -----	-.000137

Sample Name: Q3480-01 Acquired: 10/29/2025 17:35:43 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0258838	F 28.44246	4.225030	8.001162	2.001161	.2954306
Stddev	.0013579	.13248	.092516	.025372	.007303	.0014187
%RSD	5.246101	.4657980	2.189719	.3171001	.3649415	.4802177
#1	.0254359	28.29500	4.331639	8.029342	1.999643	.2947258
#2	.0274091	28.55146	4.165788	7.980133	1.994736	.2970637
#3	.0248064	28.48092	4.177664	7.994011	2.009103	.2945024

Elem	Sr4077
Units	ppm
Avg	-.282701
Stddev	.008389
%RSD	2.967431
#1	-.288448
#2	-.286580
#3	-.273074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7620.638	115759.6	9476.255	5756.214	5541.978
Stddev	7.302	353.3	51.965	53.802	9.412
%RSD	.0958162	.3052149	.5483689	.9346793	.1698357
#1	7626.243	115677.0	9531.985	5774.296	5552.197
#2	7612.381	115454.9	9429.129	5695.701	5533.664
#3	7623.290	116146.9	9467.651	5798.647	5540.072

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01 Acquired: 10/29/2025 17:39:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0549550**	**-.032173**	**.3104805**	**.0032690**	**-.018007**	**151.0630**	**.5674139**
Stddev	.0001990	.002126	.0027727	.0014045	.001463	.1342	.0026823
%RSD	.3620166	6.607361	.8930273	42.96345	8.126357	.0888173	.4727191
#1	.0551211	-.029804	.3091290	.0046788	-.018167	150.9849	.5643700
#2	.0550094	-.032799	.3086428	.0032583	-.016471	150.9862	.5684405
#3	.0547345	-.033915	.3136698	.0018699	-.019385	151.2180	.5694313

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104716**	**.0038419**	**39.48997**	**.1816284**	**.1250234**	**.3414144**	**233.7489**
Stddev	.0001087	.0001315	.06922	.0005179	.0009347	.0027142	.2289
%RSD	1.038297	3.423834	.1752779	.2851391	.7476131	.7949744	.0979059
#1	.0105142	.0037640	39.41691	.1811602	.1250564	.3414479	233.5328
#2	.0103480	.0037679	39.49846	.1815402	.1240726	.3386836	233.9887
#3	.0105525	.0039938	39.55456	.1821847	.1259412	.3441116	233.7251

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.576952**	**49.91835**	**.2465509**	**.0003986**	**8.891570**	**.4001060**	**.6088403**
Stddev	.006941	.02857	.0014942	.0002609	.029489	.0053496	.0026098
%RSD	.1940413	.0572396	.6060436	65.44054	.3316553	1.337045	.4286558
#1	3.569437	49.91619	.2464689	.0003741	8.865213	.3941037	.6058774
#2	3.578298	49.94795	.2450994	.0006709	8.886076	.4043711	.6107983
#3	3.583121	49.89092	.2480845	.0001509	8.923419	.4018433	.6098452

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.997899**	**.2549310**	**.0025955**	**.0942369**	**4.447739**	**9.850863**	**7.488587**
Stddev	.034876	.0021310	.0002032	.0010651	.023285	.171644	.057266
%RSD	.3488291	.8358956	7.827203	1.130245	.5235253	1.742425	.7647124
#1	9.961109	.2543547	.0025095	.0947399	4.421791	9.652937	7.487390
#2	10.00211	.2531474	.0024495	.0930134	4.454611	9.940850	7.431929
#3	10.03048	.2572908	.0028275	.0949574	4.466814	9.958802	7.546443

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01 Acquired: 10/29/2025 17:39:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**2.644739**	**.1589634**	**-.033873**
Stddev	.016324	.0006310	.000638
%RSD	.6172413	.3969588	1.884723
#1	2.640162	.1585539	-.033486
#2	2.631192	.1596901	-.034610
#3	2.662863	.1586462	-.033523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7190.039**	**108078.1**	**8372.981**	**5509.943**	**6544.609**
Stddev	30.705	214.2	6.306	14.249	38.061
%RSD	.4270479	.1981446	.0753088	.2586070	.5815631
#1	7188.874	107840.7	8366.869	5526.194	6547.998
#2	7221.309	108137.0	8379.464	5499.586	6580.862
#3	7159.932	108256.7	8372.611	5504.051	6504.966

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01DUP Acquired: 10/29/2025 17:43:58 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0556144**	**-.034746**	**.3720224**	**.0008332**	**-.017304**	**158.3631**
Stddev	.0002181	.001857	.0010311	.0043454	.001503	.2415
%RSD	.3922328	5.345038	.2771592	521.5370	8.684934	.1525166
#1	.0555814	-.032694	.3730813	.0023731	-.018736	158.0948
#2	.0554146	-.036310	.3719643	.0041990	-.017438	158.4314
#3	.0558471	-.035236	.3710216	-.004072	-.015739	158.5632

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6078129**	**.0114250**	**.0044330**	**33.05060**	**.1909765**	**.1232226**
Stddev	.0001990	.0000391	.0001276	.01275	.0003585	.0003315
%RSD	.0327344	.3425343	2.878790	.0385896	.1877117	.2690345
#1	.6077264	.0114381	.0043334	33.04205	.1905691	.1230837
#2	.6080404	.0114559	.0045769	33.04450	.1912434	.1229832
#3	.6076718	.0113810	.0043888	33.06526	.1911171	.1236010

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3398269**	**243.4607**	**4.062673**	**47.96660**	**.2474182**	**.0020581**
Stddev	.0003155	1.1119	.011970	.11341	.0001956	.0005970
%RSD	.0928524	.4566919	.2946438	.2364322	.0790730	29.00785
#1	.3401657	244.3733	4.074888	47.83719	.2472038	.0022605
#2	.3397735	242.2223	4.062167	48.04868	.2475870	.0013862
#3	.3395414	243.7864	4.050963	48.01392	.2474639	.0025276

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.958403**	**.4086077**	**.5913343**	**10.00203**	**.2012015**	**.0032877**
Stddev	.060669	.0002172	.0012484	.05106	.0031144	.0000832
%RSD	.6772326	.0531561	.2111199	.5105285	1.547885	2.531949
#1	8.976142	.4083911	.5924950	10.01524	.2034971	.0032571
#2	8.890842	.4088255	.5900136	9.94566	.1976564	.0033819
#3	9.008226	.4086064	.5914944	10.04519	.2024509	.0032240

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01DUP Acquired: 10/29/2025 17:43:58 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0087401	4.178458	F 11.46929	7.356780	2.383682	.1752329
Stddev	.0005468	.009522	.12366	.029031	.014007	.0014158
%RSD	6.256235	.2278811	1.078142	.3946130	.5876358	.8079284
#1	.0090217	4.188177	11.60407	7.387534	2.392044	.1746553
#2	.0081099	4.169146	11.36108	7.329851	2.367511	.1768461
#3	.0090886	4.178051	11.44273	7.352957	2.391491	.1741972

Elem	Sr4077
Units	ppm
Avg	-.093882
Stddev	.001339
%RSD	1.426650
#1	-.095379
#2	-.092797
#3	-.093470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7317.530	109218.2	8320.631	5617.557	6613.448
Stddev	12.144	175.3	55.387	6.562	12.322
%RSD	.1659563	.1604640	.6656557	.1168197	.1863245
#1	7303.579	109260.2	8330.585	5618.225	6600.307
#2	7323.285	109025.8	8260.942	5610.686	6624.744
#3	7325.727	109368.7	8370.365	5623.760	6615.292

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01LX5 Acquired: 10/29/2025 17:48:01 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0123641**	**-.016689**	**.0639991**	**.0029752**	**-.008310**	**36.20353**	**.1427798**
Stddev	.0019298	.000545	.0005929	.0050035	.001564	.01084	.0028764
%RSD	15.60802	3.263541	.9264022	168.1753	18.81789	.0299285	2.014544
#1	.0104591	-.016906	.0645496	.0065715	-.009946	36.21270	.1453874
#2	.0123154	-.017091	.0640763	.0050930	-.006831	36.20632	.1396945
#3	.0143177	-.016069	.0633714	-.002739	-.008154	36.19157	.1432575

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026454**	**-.000001**	**9.718148**	**.0441346**	**.0251634**	**.0864206**	**55.95354**
Stddev	.0000784	.000038	.007964	.0002285	.0000767	.0000128	.26326
%RSD	2.962937	3819.917	.0819467	.5177988	.3050207	.0148186	.4704977
#1	.0027320	.000003	9.714908	.0439658	.0252496	.0864340	55.91431
#2	.0025794	-.000040	9.712314	.0440434	.0251377	.0864193	55.71210
#3	.0026247	.000035	9.727221	.0443946	.0251027	.0864084	56.23421

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8874376**	**12.21892**	**.0508625**	**.0001019**	**2.105363**	**.0983964**	**.1477268**
Stddev	.0027590	.04408	.0001776	.0004235	.021162	.0027168	.0007903
%RSD	.3108950	.3607728	.3491129	415.5445	1.005145	2.761049	.5349808
#1	.8891633	12.17175	.0508384	.0004343	2.085839	.0958240	.1474937
#2	.8842556	12.22595	.0506982	-.000375	2.102399	.0981276	.1486075
#3	.8888940	12.25907	.0510509	.000246	2.127850	.1012375	.1470794

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.280227**	**.0505505**	**.0010855**	**.0359978**	**1.102934**	**2.721137**	**1.512002**
Stddev	.017681	.0008584	.0002227	.0003816	.006037	.011845	.004978
%RSD	.7754087	1.698034	20.51216	1.060046	.5473194	.4353100	.3292042
#1	2.266137	.0502334	.0013410	.0363600	1.109876	2.722315	1.509493
#2	2.274476	.0498958	.0009828	.0360338	1.100011	2.708746	1.508779
#3	2.300067	.0515223	.0009327	.0355994	1.098915	2.732349	1.517735

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01LX5 Acquired: 10/29/2025 17:48:01 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.5447363	.0363740	-.006903
Stddev	.0045034	.0007727	.000263
%RSD	.8267121	2.124333	3.810584
#1	.5423716	.0360417	-.007041
#2	.5419077	.0372572	-.006599
#3	.5499294	.0358229	-.007067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6258.521	94709.62	7054.494	4839.355	7005.148
Stddev	13.564	299.97	17.647	28.593	14.774
%RSD	.2167286	.3167295	.2501541	.5908408	.2109046
#1	6243.292	94859.67	7036.068	4849.639	6988.104
#2	6262.965	94904.96	7056.173	4861.384	7014.310
#3	6269.305	94364.23	7071.242	4807.043	7013.030

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01MS Acquired: 10/29/2025 17:52:06 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.6782299**	**1.781955**	**1.323063**	**1.524353**	**.3092078**	**147.9647**
Stddev	.0013263	.107558	.001673	.003235	.0014697	.5881
%RSD	.1955522	6.035958	.1264337	.2122193	.4753188	.3974735
#1	.6768082	1.906005	1.324182	1.523750	.3091543	147.9583
#2	.6784477	1.725152	1.321140	1.521463	.3107036	148.5560
#3	.6794338	1.714707	1.323867	1.527848	.3077656	147.3799

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7224621**	**.1714575**	**.1893226**	**42.08055**	**.5076388**	**.3067016**
Stddev	.0028532	.0013639	.0003771	.15338	.0012242	.0005317
%RSD	.3949314	.7954539	.1991739	.3645012	.2411469	.1733461
#1	.7257433	.1719260	.1890234	42.13115	.5090330	.3064135
#2	.7205642	.1725254	.1891982	42.20225	.5071436	.3063762
#3	.7210788	.1699212	.1897462	41.90826	.5067398	.3073152

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5647185**	**228.1588**	**3.802440**	**46.74112**	**.6899038**	**.0639055**
Stddev	.0005237	1.2417	.012104	.24630	.0021138	.0002567
%RSD	.0927326	.5442288	.3183263	.5269396	.3063964	.4016684
#1	.5641139	228.3709	3.815513	46.69877	.6882586	.0639006
#2	.5650268	226.8247	3.800187	47.00585	.6891649	.0636513
#3	.5650150	229.2807	3.791621	46.51875	.6922879	.0641646

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.82012**	**.6565856**	**.7187681**	**17.07678**	**.3824990**	**.3238969**
Stddev	.02010	.0040638	.0007984	.07390	.0069045	.0000859
%RSD	.1858080	.6189341	.1110775	.4327473	1.805107	.0265293
#1	10.82875	.6532118	.7185211	17.14626	.3807971	.3238006
#2	10.79715	.6610970	.7196608	16.99914	.3766046	.3239243
#3	10.83447	.6554479	.7181224	17.08495	.3900954	.3239658

Sample Name: Q3481-01MS Acquired: 10/29/2025 17:52:06 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6222361	4.555058	9.774004	F 11.69335	2.364782	.2979961
Stddev	.0027444	.006876	.039403	.06959	.021127	.0021924
%RSD	.4410600	.1509602	.4031374	.5951021	.8934016	.7357259
#1	.6205334	4.560569	9.783548	11.77355	2.389167	.2997759
#2	.6207728	4.557252	9.730707	11.64897	2.353209	.2986652
#3	.6254021	4.547352	9.807759	11.65752	2.351970	.2955470

Elem	Sr4077
Units	ppm
Avg	.0971432
Stddev	.0022448
%RSD	2.310809
#1	.0964549
#2	.0996516
#3	.0953232

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6927.515	104449.3	8132.037	5338.263	6483.349
Stddev	14.012	431.7	64.560	16.275	12.520
%RSD	.2022716	.4132955	.7938938	.3048809	.1931162
#1	6943.676	103960.9	8090.837	5319.726	6497.207
#2	6918.744	104606.8	8098.834	5344.858	6479.989
#3	6920.126	104780.0	8206.441	5350.207	6472.852

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01MSD Acquired: 10/29/2025 17:56:02 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.6820658**	**1.789330**	**1.203294**	**1.523682**	**.3139553**	**152.3986**
Stddev	.0022018	.073919	.000837	.003974	.0006334	.6725
%RSD	.3228093	4.131100	.0695265	.2608316	.2017547	.4412672
#1	.6795748	1.847572	1.202328	1.525308	.3134527	151.9454
#2	.6828709	1.706173	1.203760	1.519152	.3137465	152.0793
#3	.6837518	1.814244	1.203793	1.526585	.3146668	153.1713

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7086439**	**.1725467**	**.1911838**	**37.02486**	**.5087957**	**.3017941**
Stddev	.0019932	.0015004	.0004084	.21622	.0014624	.0006362
%RSD	.2812694	.8695502	.2136221	.5839854	.2874327	.2108075
#1	.7063789	.1709826	.1908200	36.80925	.5082633	.3010875
#2	.7101303	.1726835	.1911059	37.02365	.5104498	.3023214
#3	.7094224	.1739740	.1916256	37.24168	.5076741	.3019735

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5484958**	**230.3686**	**3.889948**	**48.73521**	**.6876880**	**.0634189**
Stddev	.0013561	1.5637	.017354	.26293	.0022176	.0004633
%RSD	.2472450	.6787923	.4461356	.5395165	.3224710	.7304587
#1	.5470962	230.9363	3.870971	48.52032	.6852145	.0632115
#2	.5485874	231.5691	3.893860	48.65691	.6894983	.0639496
#3	.5498038	228.6003	3.905012	49.02840	.6883513	.0630955

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.84732**	**.6351193**	**.6984655**	**17.47008**	**.3975645**	**.3200568**
Stddev	.06622	.0022486	.0017419	.11674	.0053594	.0006133
%RSD	.6105189	.3540373	.2493863	.6682423	1.348053	.1916342
#1	10.90703	.6332451	.6976379	17.51164	.4023554	.3200777
#2	10.85884	.6345002	.6972917	17.56036	.3985613	.3194332
#3	10.77609	.6376125	.7004668	17.33824	.3917766	.3206594

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01MSD Acquired: 10/29/2025 17:56:02 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6296736	4.573517	F 11.69428	F 12.47439	2.084192	.3053492
Stddev	.0020801	.002469	.13946	.06229	.012848	.0016414
%RSD	.3303534	.0539935	1.192578	.4993292	.6164712	.5375354
#1	.6302980	4.574225	11.53326	12.53092	2.083434	.3058687
#2	.6273527	4.575556	11.77707	12.40761	2.071740	.3035110
#3	.6313699	4.570771	11.77250	12.48462	2.097403	.3066680

Elem	Sr4077
Units	ppm
Avg	.0795830
Stddev	.0034166
%RSD	4.293131
#1	.0784313
#2	.0768911
#3	.0834266

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7157.406	107778.4	8366.945	5472.231	6591.953
Stddev	9.720	344.2	57.708	21.067	9.982
%RSD	.1358022	.3193873	.6897168	.3849730	.1514325
#1	7168.326	107420.3	8408.498	5487.933	6601.279
#2	7149.702	107808.1	8391.281	5448.290	6581.423
#3	7154.189	108106.9	8301.054	5480.469	6593.158

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01A Acquired: 10/29/2025 17:59:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.6867954**	**1.819760**	**1.232393**	**1.550595**	**.6126234**	**150.4073**
Stddev	.0029053	.083326	.000451	.004786	.0012693	.1347
%RSD	.4230252	4.578942	.0365993	.3086762	.2071923	.0895290
#1	.6882579	1.802536	1.232390	1.556047	.6140886	150.3027
#2	.6886788	1.910352	1.232846	1.548651	.6119216	150.3600
#3	.6834494	1.746392	1.231943	1.547086	.6118600	150.5592

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7191125**	**.1722008**	**.1946300**	**40.04611**	**.5047837**	**.3177778**
Stddev	.0048937	.0003549	.0004245	.06637	.0010087	.0006427
%RSD	.6805245	.2061114	.2180874	.1657367	.1998293	.2022607
#1	.7241275	.1718649	.1941785	40.11972	.5036209	.3170358
#2	.7188602	.1725721	.1950209	40.02781	.5054234	.3181626
#3	.7143498	.1721652	.1946905	39.99082	.5053068	.3181350

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5622920**	**237.1917**	**3.726208**	**50.96818**	**.7251425**	**.0647768**
Stddev	.0021675	1.4839	.028098	.09138	.0005170	.0006049
%RSD	.3854809	.6256320	.7540754	.1792949	.0712945	.9337830
#1	.5602403	238.7492	3.754529	51.06681	.7245489	.0653741
#2	.5620765	237.0315	3.725759	50.95137	.7253848	.0647918
#3	.5645592	235.7944	3.698337	50.88638	.7254939	.0641646

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.59312**	**.6316265**	**.7666400**	**17.97415**	**.4770829**	**.3258991**
Stddev	.02104	.0031565	.0012767	.11821	.0042152	.0000618
%RSD	.1814880	.4997440	.1665349	.6576675	.8835351	.0189535
#1	11.60659	.6284603	.7661467	18.10969	.4804858	.3258824
#2	11.60390	.6347732	.7656835	17.92033	.4783952	.3258474
#3	11.56888	.6316460	.7680898	17.89242	.4723676	.3259675

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3481-01A Acquired: 10/29/2025 17:59:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.7716198	4.598784	F 10.79418	F 12.90210	2.715616	.3064659
Stddev	.0013408	.017830	.06255	.03594	.009252	.0005868
%RSD	.1737596	.3877058	.5794639	.2785816	.3406828	.1914650
#1	.7701404	4.615526	10.85580	12.86242	2.719170	.3065779
#2	.7719643	4.600790	10.73075	12.93247	2.722564	.3069886
#3	.7727547	4.580036	10.79597	12.91141	2.705115	.3058312

Elem	Sr4077
Units	ppm
Avg	.1233113
Stddev	.0021823
%RSD	1.769783
#1	.1208428
#2	.1241069
#3	.1249843

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7160.187	108215.0	8444.153	5503.364	6510.411
Stddev	15.373	141.7	11.747	18.861	12.119
%RSD	.2147024	.1309748	.1391120	.3427141	.1861453
#1	7177.304	108101.5	8438.501	5515.454	6523.146
#2	7155.704	108373.8	8457.657	5513.007	6509.069
#3	7147.555	108169.6	8436.300	5481.632	6499.020

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV05 Acquired: 10/29/2025 18:03:53 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.851526**	**5.073818**	**4.839994**	**4.825598**	**4.830511**	**9.473940**	**9.565713**
Stddev	.003459	.099187	.009662	.008734	.006208	.038199	.027237
%RSD	.0712940	1.954886	.1996286	.1810013	.1285104	.4031989	.2847321
#1	4.847722	4.989450	4.849857	4.828226	4.832424	9.497487	9.534924
#2	4.852374	5.048923	4.839576	4.815851	4.823572	9.494467	9.586665
#3	4.854481	5.183081	4.830547	4.832716	4.835537	9.429866	9.575548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2519691**	**2.442368**	**24.40547**	**.9983473**	**2.427191**	**1.223197**	**4.784266**
Stddev	.0009732	.002751	.13206	.0042017	.004716	.001202	.017086
%RSD	.3862356	.1126511	.5410977	.4208685	.1943110	.0982327	.3571287
#1	.2508565	2.445042	24.28920	.9978306	2.432460	1.224583	4.780044
#2	.2526623	2.442518	24.54904	1.002784	2.425750	1.222438	4.803067
#3	.2523884	2.439545	24.37817	.994428	2.423363	1.222571	4.769686

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.436654**	**24.68167**	**2.431384**	**1.223203**	**23.16303**	**2.428472**	**2.447109**
Stddev	.013209	.13810	.003043	.003041	.08445	.004528	.006894
%RSD	.5420940	.5595334	.1251753	.2485900	.3645842	.1864421	.2817035
#1	2.421582	24.60663	2.434819	1.223278	23.16345	2.428810	2.442026
#2	2.446217	24.84105	2.430310	1.226207	23.24727	2.423785	2.454956
#3	2.442162	24.59734	2.429024	1.220126	23.07838	2.432821	2.444346

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.13677**	**4.994219**	**4.943847**	**4.938655**	**4.839542**	**4.777928**	**4.939635**
Stddev	.20342	.007093	.002992	.001483	.019848	.000316	.015342
%RSD	.8791877	.1420251	.0605138	.0300192	.4101262	.0066227	.3105954
#1	23.02112	4.993981	4.946685	4.937250	4.821698	4.777690	4.921971
#2	23.37164	4.987248	4.940722	4.940205	4.860919	4.778287	4.949641
#3	23.01754	5.001428	4.944135	4.938510	4.836008	4.777806	4.947293

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV05 Acquired: 10/29/2025 18:03:53 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**4.814537**	**4.535951**	**4.917449**
Stddev	.020353	.010078	.018533
%RSD	.4227421	.2221849	.3768895
#1	4.795679	4.525319	4.902051
#2	4.811819	4.545364	4.912277
#3	4.836112	4.537170	4.938019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6064.247**	**91980.32**	**6806.420**	**4659.722**	**6866.780**
Stddev	13.499	395.43	25.578	26.255	18.158
%RSD	.2226045	.4299113	.3757883	.5634464	.2644255
#1	6050.848	92239.24	6834.707	4674.615	6849.271
#2	6064.051	91525.14	6784.922	4629.407	6865.545
#3	6077.844	92176.56	6799.631	4675.144	6885.523

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB05 Acquired: 10/29/2025 18:07:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**-.000748**	**-.010703**	**.0003940**	**.0031877**	**-.002991**	**.0121657**	**.0049977**
Stddev	.001434	.003147	.0008346	.0027234	.000354	.0056808	.0010636
%RSD	191.6696	29.39821	211.8466	85.43547	11.85158	46.69523	21.28189
#1	-.002145	-.007308	.0013545	.0022682	-.002874	.0129237	.0043477
#2	-.000821	-.011280	-.000154	.0062518	-.002709	.0061439	.0044203
#3	.000721	-.013522	-.000018	.0010430	-.003389	.0174294	.0062252

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000034**	**.0000201**	**.0169800**	**.0000965**	**-.000026**	**.0004204**	**.0148411**
Stddev	.0000300	.0000142	.0058440	.0002787	.000131	.0004402	.0110875
%RSD	882.7171	70.89404	34.41712	288.7702	499.5165	104.7008	74.70792
#1	.0000377	.0000351	.0226864	.0003657	-.000153	.0001548	.0173227
#2	-.000018	.0000183	.0110075	-.000191	-.000035	.0001780	.0244774
#3	-.000009	.0000068	.0172459	.000115	.000109	.0009285	.0027231

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006973**	**-.006461**	**.0001924**	**-.000217**	**.0231821**	**.0031683**	**.0038014**
Stddev	.0004504	.021382	.0001621	.000421	.0084682	.0021563	.0001181
%RSD	64.59152	330.9422	84.25335	193.8242	36.52896	68.05833	3.106801
#1	.0002750	.007576	.0000065	-.000579	.0143861	.0013855	.0038276
#2	.0006455	.004111	.0002665	.000244	.0238811	.0025544	.0039042
#3	.0011714	-.031069	.0003042	-.000317	.0312791	.0055649	.0036724

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.064205**	**-.003004**	**.0001224**	**.0009518**	**-.003273**	**.0054272**	**-.000634**
Stddev	.035295	.000372	.0000658	.0002453	.001407	.0106766	.002329
%RSD	54.97232	12.38467	53.77185	25.77239	42.99328	196.7263	367.2052
#1	-.024656	-.002868	.0001294	.0010227	-.004895	-.005984	-.002932
#2	-.092501	-.002719	.0000534	.0011539	-.002538	.007091	-.000696
#3	-.075458	-.003425	.0001845	.0006789	-.002385	.015174	.001725

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB05 Acquired: 10/29/2025 18:07:57 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0039213	-.001276	.0001073
Stddev	.0033585	.002169	.0000780
%RSD	85.64803	170.0022	72.69793
#1	.0068676	-.002909	.0000175
#2	.0002643	-.002103	.0001577
#3	.0046320	.001185	.0001467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5969.684	91989.46	6669.466	4632.717	7464.257
Stddev	30.464	419.62	50.970	16.178	35.734
%RSD	.5103068	.4561587	.7642268	.3492056	.4787390
#1	5941.002	92277.99	6697.641	4638.379	7430.209
#2	5966.389	91508.09	6700.128	4614.469	7461.095
#3	6001.662	92182.31	6610.628	4645.303	7501.467

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05 Acquired: 10/29/2025 18:12:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.1030419**	**-.004963**	**.0036765**	**.9843063**	**.0020514**	**2.725548**
Stddev	.0015726	.005077	.0005333	.0066712	.0014098	.034212
%RSD	1.526127	102.2935	14.50522	.6777559	68.72628	1.255230
#1	.1035527	-.006551	.0040157	.9806933	.0007070	2.698450
#2	.1012774	.000718	.0039521	.9802210	.0019285	2.763992
#3	.1042955	-.009057	.0030619	.9920047	.0035186	2.714204

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120447**	**.0000186**	**.0004704**	**1.618542**	**.0317249**	**.0020215**
Stddev	.0003469	.0000660	.0000973	.016787	.0001392	.0000952
%RSD	2.880405	354.9113	20.68858	1.037167	.4387909	4.710353
#1	.0124230	.0000885	.0005688	1.622657	.0316978	.0019447
#2	.0119694	-.000043	.0003742	1.632888	.0318757	.0021280
#3	.0117415	.000010	.0004683	1.600080	.0316013	.0019917

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147348**	**.9468444**	**.0201699**	**1.283387**	**.0300599**	**.0006823**
Stddev	.0005975	.0058513	.0009926	.033152	.0000541	.0005624
%RSD	4.054997	.6179828	4.921379	2.583172	.1799653	82.42598
#1	.0141109	.9433374	.0192242	1.284068	.0301217	.0012809
#2	.0147917	.9435965	.0200820	1.316193	.0300366	.0006013
#3	.0153018	.9535993	.0212036	1.249900	.0300213	.0001649

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0050354**	**.5325956**	**22.71760**	F **11.76872**	**.0495874**
Stddev	-----	.0007606	.0024624	1.34326	.19043	.0004417
%RSD	-----	15.10442	.4623316	5.912873	1.618071	.8907258
#1	^ -----	.0042419	.5297799	21.39694	11.68757	.0493050
#2	6528.745	.0057581	.5343457	22.67348	11.98628	.0493608
#3	6512.217	.0051063	.5336611	24.08238	11.63231	.0500964

Sample Name: Q3420-05 Acquired: 10/29/2025 18:12:16 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.003906	.0592793	F 30.05592	.2720355	F 1690.065	.0204521
Stddev	.000516	.0006604	.74595	.0017242	9.152	.0013403
%RSD	13.20380	1.114063	2.481882	.6338307	.5414895	6.553343
#1	-.004126	.0599626	29.40403	.2733854	1696.472	.0193259
#2	-.003317	.0592310	29.89430	.2700931	1679.584	.0200958
#3	-.004275	.0586445	30.86944	.2726279	1694.140	.0219345

Elem	Sr4077
Units	ppm
Avg	.0157401
Stddev	.0002617
%RSD	1.662371
#1	.0155306
#2	.0160334
#3	.0156564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3869.098	59578.15	6464.723	2987.429	3955.386
Stddev	28.646	16.01	92.241	10.800	27.755
%RSD	.7403735	.0268800	1.426838	.3615099	.7016926
#1	3876.914	59583.61	6498.817	2998.532	3953.842
#2	3893.024	59560.12	6360.288	2986.796	3983.881
#3	3837.355	59590.72	6535.064	2976.960	3928.436

Sample Name: Q3420-05DUP Acquired: 10/29/2025 18:16:36 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.1042657**	**-.008965**	**.0043424**	**.9817477**	**.0001285**	**2.794220**
Stddev	.0032847	.001616	.0003283	.0084076	.0000882	.019798
%RSD	3.150354	18.02212	7.561163	.8563954	68.62531	.7085246
#1	.1078634	-.008612	.0045433	.9914472	.0001935	2.799603
#2	.1014265	-.007555	.0045203	.9772561	.0000281	2.810770
#3	.1035073	-.010728	.0039635	.9765398	.0001639	2.772288

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085897**	**.0000356**	**.0004148**	**1.631003**	**.0321159**	**.0018092**
Stddev	.0018978	.0000134	.0000620	.012746	.0002201	.0002113
%RSD	22.09352	37.52589	14.93561	.7814695	.6853139	11.68130
#1	.0092279	.0000472	.0004004	1.641013	.0323700	.0016065
#2	.0100861	.0000210	.0003612	1.635342	.0319859	.0017928
#3	.0064551	.0000386	.0004826	1.616655	.0319917	.0020282

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0148181**	**.9409198**	**.0202802**	**1.303965**	**.0296961**	**.0008853**
Stddev	.0003539	.0134896	.0011265	.012008	.0002567	.0002799
%RSD	2.388228	1.433658	5.554778	.9208776	.8644042	31.61744
#1	.0151740	.9373951	.0215050	1.317137	.0297074	.0006688
#2	.0144662	.9295424	.0192883	1.301129	.0294340	.0012014
#3	.0148141	.9558218	.0200473	1.293629	.0299470	.0007857

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6320.849**	**.0083974**	**.5412624**	**36.01344**	F **11.94216**	**.0488510**
Stddev	26.452	.0019584	.0024939	1.43715	.16327	.0006534
%RSD	.4184909	23.32168	.4607581	3.990588	1.367139	1.337457
#1	6308.188	.0086760	.5389797	34.59846	12.05943	.0495205
#2	6351.252	.0102017	.5439241	35.97008	12.01135	.0488175
#3	6303.107	.0063146	.5408834	37.47178	11.75569	.0482151

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05DUP Acquired: 10/29/2025 18:16:36 Type: Unk
Method: 6010-200.7 NEW(v324) 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	-.004108	.0565054	F 32.98057	.2665013	F 1671.927	.0265216
Stddev	.001252	.0007889	.96553	.0024323	13.096	.0009916
%RSD	30.46769	1.396194	2.927566	.9126973	.7832737	3.738925
#1	-.003448	.0566977	31.98643	.2691451	1685.742	.0270468
#2	-.003324	.0556381	33.04060	.2660005	1659.694	.0271403
#3	-.005551	.0571803	33.91468	.2643584	1670.346	.0253779

Elem	Sr4077
Units	ppm
Avg	.0157905
Stddev	.0000452
%RSD	.2862847
#1	.0158386
#2	.0157489
#3	.0157839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3881.226	59475.04	6432.308	2926.054	3984.784
Stddev	25.264	63.85	66.331	13.904	31.076
%RSD	.6509368	.1073598	1.031220	.4751883	.7798676
#1	3852.556	59548.56	6373.915	2940.420	3949.631
#2	3900.233	59433.47	6418.581	2912.663	4008.599
#3	3890.888	59443.09	6504.429	2925.080	3996.122

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05LX5 Acquired: 10/29/2025 18:20:59 Type: Unk
Method: 6010-200.7 NEW(v324) 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	**.0222541**	**-.010141**	**.0002565**	**.1871349**	**-.001784**	**.6085484**
Stddev	.0020774	.003110	.0002141	.0018953	.002351	.0153852
%RSD	9.334942	30.67054	83.44938	1.012796	131.8066	2.528179
#1	.0226195	-.011259	.0004663	.1886975	-.000288	.6240762
#2	.0241246	-.012538	.0000384	.1850266	-.004493	.6082592
#3	.0200183	-.006626	.0002649	.1876806	-.000570	.5933099

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035336**	**.0000878**	**-.000002**	**.3902040**	**.0076241**	**.0002597**
Stddev	.0010657	.0000241	.000061	.0166406	.0003127	.0000882
%RSD	30.16025	27.46019	2581.738	4.264590	4.102125	33.96742
#1	.0035360	.0001156	.000063	.3787965	.0079744	.0003064
#2	.0045981	.0000760	-.000058	.3825171	.0075248	.0003146
#3	.0024666	.0000718	-.000012	.4092985	.0073730	.0001579

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037386**	**.1903625**	**.0050889**	**.3045483**	**.0068888**	**-.000234**
Stddev	.0003319	.0042686	.0000873	.0358975	.0002717	.000131
%RSD	8.877983	2.242325	1.716388	11.78713	3.944280	56.05705
#1	.0039989	.1952477	.0050686	.3288336	.0065776	-.000143
#2	.0033648	.1873526	.0051846	.2633144	.0070790	-.000174
#3	.0038520	.1884873	.0050135	.3214968	.0070098	-.000385

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2117.256**	**.0031326**	**.1086833**	**13.93169**	**3.308107**	**.0116011**
Stddev	53.343	.0040075	.0002203	.26688	.028994	.0002224
%RSD	2.519441	127.9289	.2027241	1.915633	.8764651	1.916796
#1	2171.204	.0016527	.1087498	13.74795	3.318557	.0114020
#2	2116.026	.0076696	.1084374	13.80930	3.330427	.0118411
#3	2064.539	.0000755	.1088627	14.23781	3.275336	.0115601

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05LX5 Acquired: 10/29/2025 18:20:59 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.0197612	.0121239	9.663585	.0539647	F 536.2196	.0405681
Stddev	.0005509	.0026605	.320038	.0002335	4.4430	.0033481
%RSD	2.787998	21.94444	3.311790	.4326919	.8285711	8.253139
#1	.0196211	.0132684	10.00361	.0542014	538.0924	.0375774
#2	.0203687	.0090826	9.61893	.0539582	539.4194	.0399415
#3	.0192939	.0140206	9.36822	.0537346	531.1468	.0441852

Elem	Sr4077
Units	ppm
Avg	.0036651
Stddev	.0000901
%RSD	2.458340
#1	.0036076
#2	.0037689
#3	.0036188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4937.028	73790.02	6760.097	3791.870	5270.720
Stddev	4.485	105.16	48.231	16.658	5.678
%RSD	.0908352	.1425075	.7134668	.4393152	.1077315
#1	4941.142	73714.80	6743.095	3772.691	5270.675
#2	4932.247	73910.18	6722.670	3800.188	5265.064
#3	4937.693	73745.07	6814.527	3802.731	5276.421

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05MS Acquired: 10/29/2025 18:25:23 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.125544**	**2.038673**	**.9842026**	**3.757754**	**1.013717**	**5.127352**
Stddev	.003670	.082470	.0075275	.027709	.010383	.010490
%RSD	.3260399	4.045268	.7648347	.7373890	1.024295	.2045883
#1	1.127283	1.969443	.9755264	3.789097	1.025662	5.131299
#2	1.128021	2.129915	.9889954	3.747649	1.008638	5.115461
#3	1.121328	2.016661	.9880860	3.736515	1.006851	5.135295

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2227899**	**.1919388**	**.2159711**	**2.721920**	**.4417452**	**.2161861**
Stddev	.0013170	.0011584	.0011297	.016575	.0025049	.0010446
%RSD	.5911527	.6034976	.5230552	.6089406	.5670435	.4832060
#1	.2236532	.1908723	.2146741	2.739301	.4446197	.2150363
#2	.2234424	.1917731	.2167398	2.720167	.4400302	.2170767
#3	.2212740	.1931711	.2164994	2.706291	.4405855	.2164453

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2975293**	**5.098753**	**.2248469**	**3.284520**	**.5635994**	**.1102769**
Stddev	.0008241	.012827	.0017264	.023407	.0028676	.0001261
%RSD	.2769983	.2515675	.7678268	.7126465	.5087924	.1143859
#1	.2968966	5.110371	.2242556	3.267649	.5602883	.1102166
#2	.2984613	5.084988	.2234938	3.311242	.5652295	.1101923
#3	.2972299	5.100899	.2267913	3.274668	.5652802	.1104219

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6274.640**	**.3214799**	**.8253307**	**60.49570**	F **12.90650**	**.4859944**
Stddev	93.312	.0062029	.0030370	1.36121	.06431	.0015024
%RSD	1.487122	1.929496	.3679723	2.250090	.4982379	.3091424
#1	6365.119	.3169844	.8262780	59.05579	12.83450	.4873329
#2	6280.069	.3188986	.8277812	60.66986	12.92680	.4862810
#3	6178.733	.3285567	.8219330	61.76144	12.95821	.4843694

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05MS Acquired: 10/29/2025 18:25:23 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.7403815	.2663893	F 30.81708	8.523770	F 1728.518	.3302497
Stddev	.0072364	.0005479	.51205	.010406	21.075	.0012084
%RSD	.9773882	.2056821	1.661592	.1220775	1.219226	.3658956
#1	.7321160	.2658144	30.30304	8.531714	1704.644	.3289619
#2	.7455758	.2664480	30.82107	8.511992	1744.536	.3304286
#3	.7434526	.2669056	31.32712	8.527606	1736.375	.3313587

Elem	Sr4077
Units	ppm
Avg	.2223554
Stddev	.0003507
%RSD	.1577092
#1	.2226411
#2	.2224611
#3	.2219641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3834.320	59403.47	6223.294	2948.963	3911.317
Stddev	.938	413.93	9.986	8.986	10.227
%RSD	.0244626	.6968101	.1604697	.3047170	.2614793
#1	3833.916	58961.64	6225.653	2939.125	3922.662
#2	3833.652	59466.50	6231.889	2951.024	3908.484
#3	3835.392	59782.27	6212.339	2956.739	3902.805

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05MSD Acquired: 10/29/2025 18:29:31 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.026823**	**1.862089**	**.8826041**	**3.517503**	**.9199033**	**4.816904**
Stddev	.003917	.044787	.0037033	.014538	.0021855	.009697
%RSD	.3814419	2.405182	.4195930	.4133001	.2375766	.2013202
#1	1.030604	1.833033	.8857446	3.533274	.9224175	4.812883
#2	1.022784	1.913666	.8785204	3.514598	.9184579	4.827965
#3	1.027080	1.839568	.8835474	3.504638	.9188345	4.809864

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1992567**	**.1638291**	**.1943720**	**2.593063**	**.3999623**	**.1952410**
Stddev	.0013304	.0003032	.0006826	.013355	.0006597	.0009375
%RSD	.6676883	.1850378	.3511986	.5150291	.1649445	.4801828
#1	.1980538	.1634791	.1950194	2.581962	.3992872	.1960485
#2	.2006856	.1639989	.1936589	2.589343	.3999944	.1942128
#3	.1990305	.1640092	.1944378	2.607883	.4006054	.1954616

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2706392**	**4.843503**	**.2014648**	**2.994582**	**.5103513**	**.0997345**
Stddev	.0011644	.015970	.0015013	.052192	.0019348	.0012459
%RSD	.4302272	.3297235	.7451684	1.742896	.3791128	1.249182
#1	.2716220	4.844051	.1999958	2.974007	.5123949	.1011278
#2	.2693532	4.859193	.2014023	3.053926	.5085477	.0993481
#3	.2709423	4.827267	.2029963	2.955812	.5101115	.0987276

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6274.122**	**.2875115**	**.8012526**	**64.95508**	F **12.23006**	**.4460739**
Stddev	15.642	.0022303	.0056684	1.55239	.02657	.0009837
%RSD	.2493040	.7757287	.7074379	2.389950	.2172438	.2205198
#1	6283.543	.2849363	.8021518	63.24295	12.20311	.4470239
#2	6282.756	.2888144	.8064176	65.35136	12.23084	.4450597
#3	6256.066	.2887840	.7951884	66.27092	12.25623	.4461381

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05MSD Acquired: 10/29/2025 18:29:31 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6717074	.2456893	F 32.88453	7.731922	F 1724.512	.2929782
Stddev	.0016989	.0031710	.46403	.017312	3.011	.0022462
%RSD	.2529264	1.290672	1.411087	.2239040	.1746155	.7666596
#1	.6708341	.2493300	32.39572	7.751088	1727.315	.2905471
#2	.6706227	.2442077	32.93887	7.727259	1724.892	.2934110
#3	.6736654	.2435302	33.31900	7.717418	1721.328	.2949764

Elem	Sr4077
Units	ppm
Avg	.2010722
Stddev	.0002958
%RSD	.1470919
#1	.2008041
#2	.2013894
#3	.2010231

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3831.296	59826.17	6603.690	2956.054	3906.269
Stddev	10.978	147.57	23.768	31.065	14.670
%RSD	.2865333	.2466637	.3599261	1.050878	.3755462
#1	3819.577	59897.80	6630.902	2961.900	3889.677
#2	3841.340	59656.45	6593.176	2922.482	3917.522
#3	3832.970	59924.24	6586.992	2983.780	3911.608

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: Q3420-05A Acquired: 10/29/2025 18:33:39 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009908	1.764726	.8813425	3.380298	.9046021	4.447872
Stddev	.007415	.034792	.0053662	.014745	.0013254	.007956
%RSD	.7342397	1.971523	.6088605	.4361913	.1465166	.1788830
#1	1.002531	1.726609	.8752252	3.363348	.9035235	4.449710
#2	1.009833	1.772792	.8835470	3.387390	.9060817	4.439158
#3	1.017361	1.794776	.8852554	3.390157	.9042010	4.454750

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1916053	.1600411	.1923294	2.415859	.3925961	.1925833
Stddev	.0007418	.0007681	.0006767	.006241	.0013943	.0008861
%RSD	.3871251	.4799167	.3518534	.2583447	.3551508	.4601220
#1	.1924540	.1594900	.1916363	2.408845	.3911681	.1915795
#2	.1912812	.1609184	.1923633	2.420800	.3926661	.1929135
#3	.1910809	.1597148	.1929885	2.417933	.3939541	.1932569

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2668579	4.716836	.1966971	2.874914	.5018115	.0976555
Stddev	.0009303	.019903	.0009717	.067296	.0018649	.0003039
%RSD	.3486138	.4219481	.4940156	2.340790	.3716403	.3111615
#1	.2665638	4.706708	.1977932	2.797276	.4996592	.0980049
#2	.2661102	4.704034	.1959412	2.916556	.5029471	.0975086
#3	.2678997	4.739765	.1963570	2.910909	.5028283	.0974529

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 5857.374	.2839660	.7529242	62.03342	F 11.21736	.4368466
Stddev	18.199	.0020242	.0037046	1.65480	.04224	.0014549
%RSD	.3107056	.7128372	.4920347	2.667592	.3765865	.3330539
#1	5878.032	.2816889	.7497016	60.43024	11.19877	.4352434
#2	5843.708	.2855612	.7569718	61.93462	11.26571	.4372135
#3	5850.382	.2846478	.7520991	63.73541	11.18760	.4380830

Sample Name: Q3420-05A Acquired: 10/29/2025 18:33:39 Type: Unk
Method: 6010-200.7 NEW(v324) 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	.6606018	.2330627	F 32.02962	7.475327	F 1617.773	.2733215
Stddev	.0031511	.0024905	.40312	.025856	10.265	.0026840
%RSD	.4770051	1.068589	1.258574	.3458805	.6345012	.9819769
#1	.6573803	.2315803	31.67308	7.448658	1607.041	.2727155
#2	.6607477	.2316698	31.94873	7.500285	1618.783	.2709924
#3	.6636774	.2359380	32.46704	7.477037	1627.496	.2762567

Elem	Sr4077
Units	ppm
Avg	.1986678
Stddev	.0005575
%RSD	.2806034
#1	.1983439
#2	.1993115
#3	.1983480

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3952.105	61811.12	6845.877	3048.276	4049.841
Stddev	6.392	259.15	22.341	6.080	9.471
%RSD	.1617427	.4192664	.3263395	.1994456	.2338639
#1	3958.005	62026.68	6866.398	3053.609	4060.428
#2	3952.995	61883.09	6822.078	3041.656	4046.923
#3	3945.314	61523.59	6849.156	3049.564	4042.173

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV06 Acquired: 10/29/2025 18:55:44 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.794660**	**5.489646**	**4.915123**	**4.772308**	**4.737322**	**9.450605**
Stddev	.013531	.051352	.012026	.010476	.018453	.032801
%RSD	.2822094	.9354277	.2446642	.2195064	.3895266	.3470825
#1	4.779064	5.434597	4.905328	4.762496	4.716152	9.420118
#2	4.801653	5.536254	4.911498	4.771087	4.750004	9.446385
#3	4.803263	5.498088	4.928545	4.783340	4.745811	9.485312

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.692988**	**.2527308**	**2.472349**	**24.45815**	**1.006992**	**2.457145**
Stddev	.051815	.0014115	.005850	.07173	.003146	.003827
%RSD	.5345605	.5585206	.2366369	.2932835	.3123979	.1557405
#1	9.633265	.2511217	2.467930	24.40226	1.010508	2.454789
#2	9.725958	.2533100	2.470134	24.43316	1.006023	2.455086
#3	9.719740	.2537606	2.478984	24.53904	1.004445	2.461561

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.192465**	**4.858584**	**2.454996**	**24.83725**	**2.468417**	**1.242017**
Stddev	.004365	.008238	.016274	.13094	.004130	.001600
%RSD	.3660234	.1695564	.6629054	.5272044	.1673184	.1288162
#1	1.187454	4.867258	2.436327	24.75265	2.465683	1.240216
#2	1.194499	4.850865	2.462470	24.77102	2.466401	1.242557
#3	1.195441	4.857628	2.466191	24.98807	2.473168	1.243276

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.26310**	**2.445107**	**2.252550**	**25.95918**	**5.141341**	**4.818101**
Stddev	.35537	.013532	.002265	.09562	.043863	.012448
%RSD	1.353117	.5534233	.1005735	.3683334	.8531519	.2583573
#1	26.66247	2.430975	2.251722	26.06915	5.090699	4.804764
#2	26.14510	2.446399	2.255113	25.91264	5.165901	4.820126
#3	25.98175	2.457946	2.250815	25.89574	5.167423	4.829412

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCV06 Acquired: 10/29/2025 18:55:44 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.024342**	**4.887921**	F **5.506660**	**4.625794**	**5.155324**	**4.564279**
Stddev	.008100	.019506	.051602	.013373	.016562	.011777
%RSD	.1612061	.3990607	.9370842	.2891032	.3212641	.2580193
#1	5.016181	4.865789	5.563763	4.616852	5.147966	4.550687
#2	5.024466	4.895368	5.492845	4.619361	5.174290	4.570714
#3	5.032379	4.902606	5.463372	4.641168	5.143716	4.571436

Elem	Sr4077
Units	ppm
Avg	**4.882217**
Stddev	.093396
%RSD	1.912985
#1	4.774505
#2	4.931446
#3	4.940700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6184.626**	**91291.21**	**6843.879**	**5434.026**	**6735.636**
Stddev	10.414	149.92	50.561	14.154	5.885
%RSD	.1683797	.1642231	.7387742	.2604672	.0873671
#1	6194.359	91126.96	6897.990	5444.435	6735.174
#2	6185.874	91420.69	6835.807	5439.732	6741.737
#3	6173.644	91325.99	6797.840	5417.909	6729.995

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB06 Acquired: 10/29/2025 19:04:41 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001578**	**-.002617**	**-.000277**	**.0020717**	**-.004798**	**-.013439**
Stddev	.000698	.001252	.000726	.0037128	.001247	.010339
%RSD	44.24694	47.85022	262.1140	179.2129	25.99268	76.92929
#1	-.000818	-.003736	-.000156	-.002156	-.005278	-.005915
#2	-.002191	-.001264	.000381	.003569	-.003382	-.009175
#3	-.001726	-.002852	-.001055	.004802	-.005734	-.025228

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063644**	**-.000025**	**-.000066**	**-.019734**	**.0003161**	**-.000117**
Stddev	.0001697	.000054	.000046	.012733	.0002426	.000067
%RSD	2.666443	217.8691	69.48677	64.52611	76.76275	56.77629
#1	.0063086	-.000046	-.000040	-.030263	.0002676	-.000045
#2	.0062296	-.000064	-.000039	-.005581	.0005793	-.000131
#3	.0065550	.000036	-.000119	-.023358	.0001014	-.000176

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000221**	**-.012253**	**.0009056**	**-.021556**	**.0000159**	**-.000288**
Stddev	.000387	.004145	.0006117	.036543	.0001764	.000443
%RSD	175.3260	33.83130	67.55009	169.5230	1108.648	153.6669
#1	-.000215	-.014511	.0009295	-.059805	-.000065	-.000001
#2	.000163	-.014780	.0015050	-.017865	-.000106	-.000066
#3	-.000610	-.007469	.0002823	.013001	.000218	-.000798

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3636523**	**-.000900**	**-.000367**	**.0392984**	F **.0742915**	**.0000139**
Stddev	.0075102	.001408	.000156	.0195389	.0015745	.0002255
%RSD	2.065220	156.4199	42.39071	49.71926	2.119373	1618.248
#1	.3637306	.000707	-.000279	.0596963	.0752493	-.000234
#2	.3561032	-.001492	-.000547	.0374485	.0751508	.000207
#3	.3711230	-.001916	-.000276	.0207502	.0724743	.000069

Reviewed By:mohan
On:11/3/2025 10:12:07 AM
Inst Id :P4
LB :LB137697

Sample Name: CCB06 Acquired: 10/29/2025 19:04:41 Type: Unk
Method: 6010-200.7 NEW(v324) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056647	-.001224	F .2837423	.0015474	F .0344516	-.003212
Stddev	.0002881	.002830	.0052769	.0011670	.0012990	.000960
%RSD	5.085445	231.2551	1.859754	75.41465	3.770611	29.90157
#1	.0056596	-.004304	.2898324	.0024494	.0359511	-.002459
#2	.0059553	.001261	.2805275	.0002294	.0337378	-.004294
#3	.0053792	-.000628	.2808670	.0019634	.0336661	-.002883

Elem	Sr4077
Units	ppm
Avg	-.000082
Stddev	.000050
%RSD	60.37675
#1	-.000140
#2	-.000052
#3	-.000055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6502.806	95999.07	6881.786	5707.122	7862.436
Stddev	21.313	132.96	23.461	27.932	29.818
%RSD	.3277478	.1385025	.3409117	.4894166	.3792447
#1	6496.827	96106.12	6881.073	5680.079	7845.170
#2	6485.121	96040.85	6858.690	5735.864	7845.270
#3	6526.470	95850.23	6905.595	5705.422	7896.866

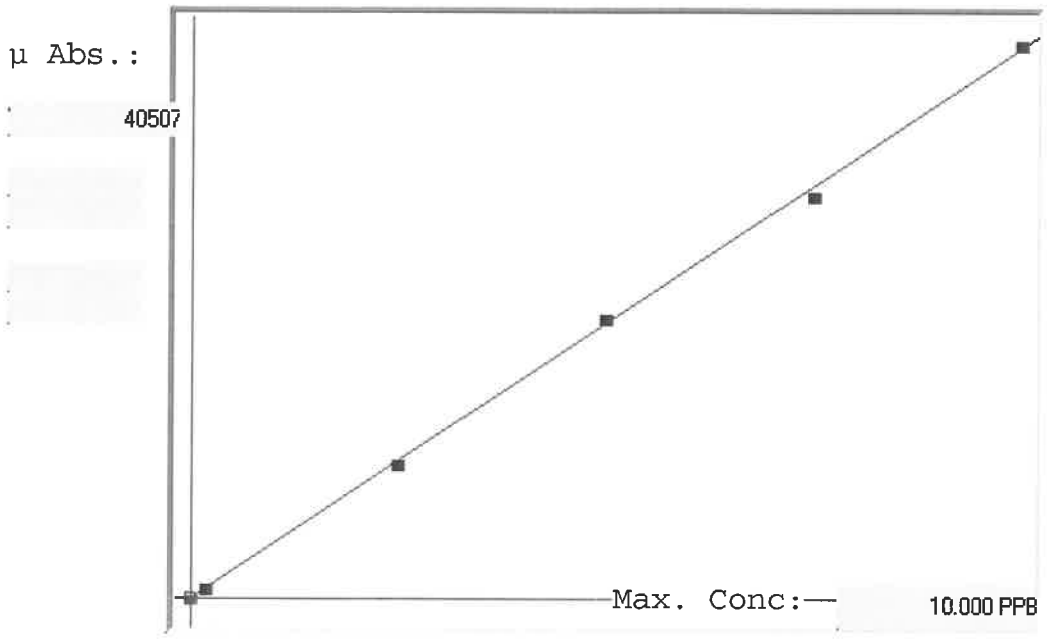
Reviewed By:mohan
On:10/27/2025 8:28:12 AM
Inst Id :CV1
LB :LB137632

LB137632

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.4849e-004

C= 1.6137e-003

Rho= 0.9997185

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0.0	0.000	0.023	0.023	88	0.000	88	0			
0.2	0.200	0.188	-0.012	752	0.0 %	752	0			
2.5	2.500	2.466	-0.034	9918	0.0 %	9918	0			
5.0	5.000	5.116	0.116	20584	0.0 %	20584				
7.5	7.500	7.338	-0.162	29526	0.0 %	29526				
10.0	10.000	10.067	0.067	40507	0.0 %	40507				

Reviewed By:mohan
On:10/27/2025 8:28:12 AM
Inst Id :CV1
LB :LB137632

LB137632 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 24 Oct 2025 08:35:03

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Type	Stnd Conc	Method	Date
S	0.0 - 1	50	-	88	PPB	Std	0.0000	7470A	24 Oct 2025 08:58:43
S	0.2 - 1	502	-	752	PPB	Std	0.2000	7470A	24 Oct 2025 09:01:08
S	2.5 - 1	5215	-	9918	PPB	Std	2.5000	7470A	24 Oct 2025 09:03:25
S	5.0 - 1	55	-	20584	PPB	Std	5.0000	7470A	24 Oct 2025 09:05:42
S	7.5 - 1	5215	-	29526	PPB	Std	7.5000	7470A	24 Oct 2025 09:08:01
S	10.0 - 1	511	-	40507	PPB	Std	10.0000	7470A	24 Oct 2025 09:10:20
U	ICV86 - 1	ICV86	4.1563	16720	PPB	SMPL		7470A	24 Oct 2025 09:20:59
U	ICB86 - 1	ICB86	-0.0449	-187	PPB	SMPL		7470A	24 Oct 2025 09:23:13
U	CCV83 - 1	CCV83	4.6580	18739	PPB	SMPL		7470A	24 Oct 2025 09:25:31
U	CCB83 - 1	CCB83	0.0076	24	PPB	SMPL		7470A	24 Oct 2025 09:30:40
U	CRA - 1	CRA	0.1654	659	PPB	SMPL		7470A	24 Oct 2025 09:32:55
U	HighStd - 1	HighStd	10.0211	40322	PPB	SMPL		7470A	24 Oct 2025 09:37:50
U	ChkStd - 1	ChkStd	7.5549	30397	PPB	SMPL		7470A	24 Oct 2025 09:45:39
U	PB170231BL - 1	PBW	0.0039	9	PPB	SMPL		7470A	24 Oct 2025 09:50:52
U	PB170231BS - 1	LCSW	3.9811	16015	PPB	SMPL		7470A	24 Oct 2025 09:55:45
U	Q3414-01 - 1	SB-1	-0.0660	-272	PPB	SMPL		7470A	24 Oct 2025 09:58:02
U	Q3414-02 - 1	SB-2	-0.0039	-22	PPB	SMPL		7470A	24 Oct 2025 10:00:21
U	Q3414-03 - 1	SB-3	0.0106	36	PPB	SMPL		7470A	24 Oct 2025 10:02:38
U	Q3414-04 - 1	SB-4	0.0163	59	PPB	SMPL		7470A	24 Oct 2025 10:04:55
U	Q3414-05 - 1	SB-5	0.0101	34	PPB	SMPL		7470A	24 Oct 2025 10:07:11
U	CCV84 - 1	CCV84	5.0633	20370	PPB	SMPL		7470A	24 Oct 2025 10:09:27
U	CCB84 - 1	CCB84	-0.0645	-266	PPB	SMPL		7470A	24 Oct 2025 10:11:42
U	Q3414-06 - 1	SB-6	0.0034	7	PPB	SMPL		7470A	24 Oct 2025 10:14:01
U	Q3414-07 - 1	SB-7	0.0004	-5	PPB	SMPL		7470A	24 Oct 2025 10:16:15
U	Q3414-08 - 1	SB-8	0.0006	-4	PPB	SMPL		7470A	24 Oct 2025 10:18:31
U	Q3414-09 - 1	SB-9	0.0039	9	PPB	SMPL		7470A	24 Oct 2025 10:20:46
U	Q3414-10 - 1	SB-10	-0.0116	-53	PPB	SMPL		7470A	24 Oct 2025 10:23:02
U	Q3414-11 - 1	SB-11	-0.0083	-40	PPB	SMPL		7470A	24 Oct 2025 10:25:27
U	Q3414-12 - 1	SB-12	0.0036	8	PPB	SMPL		7470A	24 Oct 2025 10:28:13
U	Q3414-13 - 1	SB-13	0.0222	83	PPB	SMPL		7470A	24 Oct 2025 10:31:09
U	Q3427-04 - 1	TP-8	0.0116	40	PPB	SMPL		7470A	24 Oct 2025 10:34:01
U	Q3427-04DUP - 1	TP-8DUP	0.0128	45	PPB	SMPL		7470A	24 Oct 2025 10:36:24
U	CCV85 - 1	CCV85	5.0486	20311	PPB	SMPL		7470A	24 Oct 2025 10:40:53
U	CCB85 - 1	CCB85	-0.0642	-265	PPB	SMPL		7470A	24 Oct 2025 10:43:08
U	Q3427-04MS - 1	TP-8MS	4.0027	16102	PPB	SMPL		7470A	24 Oct 2025 10:45:27
U	Q3427-04MSD - 1	TP-8MSD	3.8914	15654	PPB	SMPL		7470A	24 Oct 2025 10:47:42
U	PB170232BL - 1	PBW	-0.0461	-192	PPB	SMPL		7470A	24 Oct 2025 10:50:10
U	PB170232BS - 1	LCSW	3.7523	15094	PPB	SMPL		7470A	24 Oct 2025 10:52:35
U	Q3417-01 - 1	101425	0.0103	35	PPB	SMPL		7470A	24 Oct 2025 10:54:51
U	Q3420-05 - 1	COMPOSITE	1.8605	7481	PPB	SMPL		7470A	24 Oct 2025 10:57:10
U	Q3422-02 - 1	PR132-FB2-20251021	-0.0680	-280	PPB	SMPL		7470A	24 Oct 2025 10:59:26
U	Q3434-02 - 1	PR132-WC2-20251022	1.0256	4121	PPB	SMPL		7470A	24 Oct 2025 11:01:45
U	Q3434-02DUP - 1	PR132-WC2-20251022DUP	1.0400	4179	PPB	SMPL		7470A	24 Oct 2025 11:04:02
U	Q3434-02MS - 1	PR132-WC2-20251022MS	4.6545	18725	PPB	SMPL		7470A	24 Oct 2025 11:06:19
U	CCV86 - 1	CCV86	5.0126	20166	PPB	SMPL		7470A	24 Oct 2025 11:12:30
U	CCB86 - 1	CCB86	-0.0779	-320	PPB	SMPL		7470A	24 Oct 2025 11:14:45
U	Q3434-02MSD - 1	PR132-WC2-20251022MSD	4.6173	18575	PPB	SMPL		7470A	24 Oct 2025 11:17:04
U	PB170202TB - 1	PB170202TB	-0.0632	-261	PPB	SMPL		7470A	24 Oct 2025 11:19:19
U	Q3427-04LX5 - 1		0.0009	-3	PPB	SMPL		7470A	24 Oct 2025 11:21:39
U	Q3427-04A - 1		3.9578	15921	PPB	SMPL		7470A	24 Oct 2025 11:23:54
U	Q3434-02LX5 - 1		0.1557	620	PPB	SMPL		7470A	24 Oct 2025 11:29:00
U	Q3434-02A - 1		5.1214	20604	PPB	SMPL		7470A	24 Oct 2025 11:31:16
U	CCV87 - 1	CCV87	4.7002	18909	PPB	SMPL		7470A	24 Oct 2025 11:33:33
U	CCB87 - 1	CCB87	-0.0061	-31	PPB	SMPL		7470A	24 Oct 2025 11:38:25

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170225

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: 10/23/2025 **Time :** 10:35 **Temp :** 96 °C

End Digest Date: 10/23/2025 **Time :** 13:40 **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	M6158
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 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/23/25 13:40	SLS met dig	(metals cab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170225

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB170225BL	PBW225	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB170225BS	LCS225	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	2
Q3417-01	101425	<2	50	25	Brown	Colorless	Clear	Clear	N/A	3
Q3420-05	COMPOSITE	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3420-05MS	COMPOSITEMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	6
Q3420-05MSD	COMPOSITEMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	7
Q3420-05DUP	COMPOSITEDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3422-02	PR132-FB2-20251021	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
Q3434-02	PR132-WC2-20251022	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB170225 **WorkList ID :** 192641 **Department :** Digestion **Date :** 10-23-2025 10:03:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3417-01	101425	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	D31	10/21/2025	6010D
Q3420-05	COMPOSITE	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	DALT01	J22	10/21/2025	6010D
Q3422-02	PR132-FB2-20251021	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	AECO02	D41	10/21/2025	6010D
Q3434-02	PR132-WC2-20251022	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	AECO02	D41	10/22/2025	6010D

Date/Time 10/23/25 10:15
Raw Sample Received by: SLG met dig
Raw Sample Relinquished by: CPCSm

Date/Time 10/23/25 11:45
Raw Sample Received by: CPCSm
Raw Sample Relinquished by: SLG met dig

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB170232

SOP ID : M7470A-Mercury-20

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/23/2025 **Time :** 09:32 **Temp :** 94 °C

End Digest Date: 10/23/2025 **Time :** 11:32 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MM

Supervisor Signature: MM

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87709
CCV	30mL	MP87711
CRA	30mL	MP87713
Blank Spike	0.48mL	MP87702
Matrix Spike	0.48mL	MP87702

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP87633
KMnO4 (5%)	4.5mL	MP87634
K2S2O8 (5%)	2.4mL	MP87635
Hydroxylamine HCL (12%)	1.8mL	MP87636
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30Ml	MP87702
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30Ml	MP87703
2.5 ppb	S2.5	30Ml	MP87704
5.0 ppb	S5.0	30Ml	MP87705
7.5 ppb	S7.5	30mL	MP87706
10.0 ppb	S10.0	30mL	MP87707
ICV	ICV	30Ml	MP87708
ICB	ICB	30Ml	MP87709
CCV	CCV	30Ml	MP87710
CCB	CCB	30Ml	MP87711
CRI	CRI	30Ml	MP87712
CHK STD	CHK STD	30Ml	MP87713

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/23/25 12:32	MM Met Lab	MM Met Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB170232

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB170232BL	PBW232	30	30	<2	N/A	3-1
PB170232BS	LCS232	30	30	<2	MP87702	2
Q3417-01	101425	30	30	<2	N/A	3
Q3420-05	COMPOSITE	30	30	<2	N/A	4
Q3422-02	PR132-FB2-20251021	30	30	<2	N/A	5
Q3434-02	PR132-WC2-20251022	30	30	<2	N/A	6
Q3434-02MS	PR132-WC2-20251022MS	30	30	<2	MP87702	8
Q3434-02MSD	PR132-WC2-20251022MSD	30	30	<2	MP87702	9
Q3434-02DUP	PR132-WC2-20251022DUP	30	30	<2	N/A	7

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 102325_7470 **WorkList ID :** 192635 **Department :** Digestion **Date :** 10-23-2025 09:06:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3417-01	101425	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	D31	10/21/2025	7470A
Q3420-05	COMPOSITE	Water	Mercury	1:1 HNO3 to pH < 2	DALT01	J22	10/21/2025	7470A
Q3422-02	PR132-FB2-20251021	Water	Mercury	1:1 HNO3 to pH < 2	AECO02	D41	10/21/2025	7470A
Q3434-02	PR132-WC2-20251022	Water	Mercury	1:1 HNO3 to pH < 2	AECO02	D41	10/22/2025	7470A

Date/Time 10/23/25 @ 9:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 10/23/25 @ 9:50

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/23/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/23/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137614

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3419-01	PR-132-S16-015094-20251021	1	1.15	11.01	12.16	7.14	54.4	
Q3419-02	Q3419-01MS	2	1.15	11.01	12.16	7.14	54.4	
Q3419-03	Q3419-01MSD	3	1.15	11.01	12.16	7.14	54.4	
Q3419-04	PR-132-S16-119133-20251021	4	1.16	10.07	11.23	6.37	51.7	
Q3419-05	PR-132-S16-094119-20251021	5	1.19	11.07	12.26	6.38	46.9	
Q3422-01	PR132-S15-000008-20251017	6	1.18	11.02	12.2	7.58	58.1	
Q3424-01	PR132-DP3-20251021	7	1.15	10.36	11.51	5.91	45.9	
Q3424-02	PR132-S11-010080-20251021	8	1.12	10.72	11.84	6.49	50.1	
Q3424-03	PR132-S14-00094-20251021	9	1.14	11.34	12.48	6.82	50.1	
Q3427-01	TP-8	10	1.11	10.77	11.88	10.84	90.3	
Q3427-02	TP-8-EPH	11	1.18	10.97	12.15	10.98	89.3	
Q3427-03	TP-8-VOC	12	1.19	10.26	11.45	10.52	90.9	
Q3429-01	40309	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3429-02	40310	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3430-01	BUR-25-0095	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3431-01	EO-02-10222025	16	1.11	10.55	11.66	10.64	90.3	
Q3431-02	EO-02-10222025-E2	17	1.17	10.59	11.76	10.59	89.0	
Q3434-01	PR132-WC1-20251022	18	1.13	10.43	11.56	7.17	57.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

Q3422-METALS

VB 137614

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-102225 **WorkList ID :** 192597 **Department :** Wet-Chemistry **Date :** 10-22-2025 09:03:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3419-01	PR-132-S16-015094-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-02	Q3419-01MS	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-03	Q3419-01MSD	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-04	PR-132-S16-119133-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-05	PR-132-S16-094119-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3422-01	PR132-S15-000008-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3424-01	PR132-DP3-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3424-02	PR132-S11-010080-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3424-03	PR132-S14-00094-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3427-01	TP-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3427-02	TP-8-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3427-03	TP-8-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3429-01	40309	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3429-02	40310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3430-01	BUR-25-0095	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3431-01	EO-02-10222025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/22/2025	Chemtech -SO
Q3431-02	EO-02-10222025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/22/2025	Chemtech -SO
Q3434-01	PR132-WC1-20251022	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/22/2025	Chemtech -SO

695 of 890

Date/Time 10/22/25 15:00

Raw Sample Received by: JB WC

Raw Sample Relinquished by:

Date/Time 10/22/25 17:25

Raw Sample Received by:

Raw Sample Relinquished by: JB WC

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137632

Review By	jaswal	Review On	10/24/2025 6:53:25 PM
Supervise By	mohan	Supervise On	10/27/2025 8:28:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP87703,MP87704,MP87705,MP87706,MP87707,MP87708
ICV Standard	MP87709
CCV Standard	MP87711
ICSA Standard	
CRI Standard	MP87713
LCS Standard	
Chk Standard	MP87710,MP87712,MP87714,MP87732

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/24/25 08:58		mohan	OK
2	S0.2	S0.2	CAL2	10/24/25 09:01		mohan	OK
3	S2.5	S2.5	CAL3	10/24/25 09:03		mohan	OK
4	S5	S5	CAL4	10/24/25 09:05		mohan	OK
5	S7.5	S7.5	CAL5	10/24/25 09:08		mohan	OK
6	S10	S10	CAL6	10/24/25 09:10		mohan	OK
7	ICV86	ICV86	ICV	10/24/25 09:20		mohan	OK
8	ICB86	ICB86	ICB	10/24/25 09:23		mohan	OK
9	CCV83	CCV83	CCV	10/24/25 09:25		mohan	OK
10	CCB83	CCB83	CCB	10/24/25 09:30		mohan	OK
11	CRA	CRA	CRDL	10/24/25 09:32		mohan	OK
12	HighStd	HighStd	HIGH STD	10/24/25 09:37		mohan	OK
13	ChkStd	ChkStd	SAM	10/24/25 09:45		mohan	OK
14	PB170231BL	PB170231BL	MB	10/24/25 09:50		mohan	OK
15	PB170231BS	PB170231BS	LCS	10/24/25 09:55		mohan	OK
16	Q3414-01	SB-1	SAM	10/24/25 09:58		mohan	OK
17	Q3414-02	SB-2	SAM	10/24/25 10:00		mohan	OK
18	Q3414-03	SB-3	SAM	10/24/25 10:02		mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137632

Review By	jaswal	Review On	10/24/2025 6:53:25 PM
Supervise By	mohan	Supervise On	10/27/2025 8:28:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP87703,MP87704,MP87705,MP87706,MP87707,MP87708
ICV Standard	MP87709
CCV Standard	MP87711
ICSA Standard	
CRI Standard	MP87713
LCS Standard	
Chk Standard	MP87710,MP87712,MP87714,MP87732

19	Q3414-04	SB-4	SAM	10/24/25 10:04		mohan	OK
20	Q3414-05	SB-5	SAM	10/24/25 10:07		mohan	OK
21	CCV84	CCV84	CCV	10/24/25 10:09		mohan	OK
22	CCB84	CCB84	CCB	10/24/25 10:11		mohan	OK
23	Q3414-06	SB-6	SAM	10/24/25 10:14		mohan	OK
24	Q3414-07	SB-7	SAM	10/24/25 10:16		mohan	OK
25	Q3414-08	SB-8	SAM	10/24/25 10:18		mohan	OK
26	Q3414-09	SB-9	SAM	10/24/25 10:20		mohan	OK
27	Q3414-10	SB-10	SAM	10/24/25 10:23		mohan	OK
28	Q3414-11	SB-11	SAM	10/24/25 10:25		mohan	OK
29	Q3414-12	SB-12	SAM	10/24/25 10:28		mohan	OK
30	Q3414-13	SB-13	SAM	10/24/25 10:31		mohan	OK
31	Q3427-04	TP-8	SAM	10/24/25 10:34		mohan	OK
32	Q3427-04DUP	TP-8DUP	DUP	10/24/25 10:36		mohan	OK
33	CCV85	CCV85	CCV	10/24/25 10:40		mohan	OK
34	CCB85	CCB85	CCB	10/24/25 10:43		mohan	OK
35	Q3427-04MS	TP-8MS	MS	10/24/25 10:45		mohan	OK
36	Q3427-04MSD	TP-8MSD	MSD	10/24/25 10:47		mohan	OK
37	PB170232BL	PB170232BL	MB	10/24/25 10:50		mohan	OK
38	PB170232BS	PB170232BS	LCS	10/24/25 10:52		mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137632

Review By	jaswal	Review On	10/24/2025 6:53:25 PM
Supervise By	mohan	Supervise On	10/27/2025 8:28:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP87703,MP87704,MP87705,MP87706,MP87707,MP87708
ICV Standard	MP87709
CCV Standard	MP87711
ICSA Standard	
CRI Standard	MP87713
LCS Standard	
Chk Standard	MP87710,MP87712,MP87714,MP87732

39	Q3417-01	101425	SAM	10/24/25 10:54		mohan	OK
40	Q3420-05	COMPOSITE	SAM	10/24/25 10:57		mohan	OK
41	Q3422-02	PR132-FB2-2025102	SAM	10/24/25 10:59		mohan	OK
42	Q3434-02	PR132-WC2-2025102	SAM	10/24/25 11:01		mohan	OK
43	Q3434-02DUP	PR132-WC2-2025102	DUP	10/24/25 11:04		mohan	OK
44	Q3434-02MS	PR132-WC2-2025102	MS	10/24/25 11:06		mohan	OK
45	CCV86	CCV86	CCV	10/24/25 11:12		mohan	OK
46	CCB86	CCB86	CCB	10/24/25 11:14		mohan	OK
47	Q3434-02MSD	PR132-WC2-2025102	MSD	10/24/25 11:17		mohan	OK
48	PB170202TB	PB170202TB	MB	10/24/25 11:19		mohan	OK
49	Q3427-04L	TP-8L	SD	10/24/25 11:21		mohan	OK
50	Q3427-04A	TP-8A	PS	10/24/25 11:23		mohan	OK
51	Q3434-02L	PR132-WC2-2025102	SD	10/24/25 11:29		mohan	OK
52	Q3434-02A	PR132-WC2-2025102	PS	10/24/25 11:31		mohan	OK
53	CCV87	CCV87	CCV	10/24/25 11:33		mohan	OK
54	CCB87	CCB87	CCB	10/24/25 11:38		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137662

Review By	Janvi	Review On	10/28/2025 11:25:13 AM
Supervise By	jaswal	Supervise On	10/28/2025 3:16:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/24/25 14:07		Jaswal	OK
2	S1	S1	CAL2	10/24/25 14:12		Jaswal	OK
3	S2	S2	CAL3	10/24/25 14:16		Jaswal	OK
4	S3	S3	CAL4	10/24/25 14:20		Jaswal	OK
5	S4	S4	CAL5	10/24/25 14:24		Jaswal	OK
6	S5	S5	CAL6	10/24/25 14:29		Jaswal	OK
7	ICV01	ICV01	ICV	10/24/25 14:33		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/24/25 14:38		Jaswal	OK
9	ICB01	ICB01	ICB	10/24/25 14:43		Jaswal	OK
10	CRI01	CRI01	CRDL	10/24/25 14:48		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/24/25 14:52		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/24/25 14:56		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/24/25 15:01		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/24/25 15:07		Jaswal	OK
15	CCV01	CCV01	CCV	10/24/25 15:12		Jaswal	OK
16	CCB01	CCB01	CCB	10/24/25 15:16		Jaswal	OK
17	PB170225BL	PB170225BL	MB	10/24/25 15:20		Jaswal	OK
18	PB170225BS	PB170225BS	LCS	10/24/25 15:24		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137662

Review By	Janvi	Review On	10/28/2025 11:25:13 AM
Supervise By	jaswal	Supervise On	10/28/2025 3:16:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

19	LR-2	LR-2	HIGH STD	10/24/25 15:33		Jaswal	OK
20	LR-3	LR-3	HIGH STD	10/24/25 15:37		Jaswal	OK
21	LR-1	LR-1	HIGH STD	10/24/25 15:42		Jaswal	OK
22	Q3422-02	PR132-FB2-2025102	SAM	10/24/25 15:51	Not Use	Jaswal	Not Ok
23	Q3434-02	PR132-WC2-2025102	SAM	10/24/25 15:55	Na high	Jaswal	Dilution
24	Q3417-01	101425	SAM	10/24/25 16:00	NOT USE	Jaswal	Not Ok
25	CCV02	CCV02	CCV	10/24/25 16:32		Jaswal	OK
26	CCB02	CCB02	CCB	10/24/25 16:47		Jaswal	OK
27	Q3440-01	JB-2	SAM	10/24/25 17:55		Jaswal	OK
28	Q3447-01	P001-TW1-251023-01	SAM	10/24/25 17:59	Fe high & Ag oversaturated.	Jaswal	Dilution
29	Q3447-03	P001-TW2-251023-01	SAM	10/24/25 18:03	Ag oversaturated.	Jaswal	Dilution
30	Q3447-05	P001-TW3-251023-01	SAM	10/24/25 18:08	Cu,Pb high	Jaswal	Dilution
31	Q3447-07	P001-TW4-251023-01	SAM	10/24/25 18:12		Jaswal	OK
32	Q3449-01	CF-620-COMP-41	SAM	10/24/25 18:16		Jaswal	OK
33	PB170252BL	PB170252BL	MB	10/24/25 18:20		Jaswal	OK
34	PB170252BS	PB170252BS	LCS	10/24/25 18:25		Jaswal	OK
35	CCV03	CCV03	CCV	10/24/25 18:29		Jaswal	OK
36	CCB03	CCB03	CCB	10/24/25 18:33		Jaswal	OK
37	Q3444-01	16 Banker	SAM	10/24/25 18:37		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137662

Review By	Janvi	Review On	10/28/2025 11:25:13 AM
Supervise By	jaswal	Supervise On	10/28/2025 3:16:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

38	Q3444-02	29 Hanover	SAM	10/24/25 18:41		Jaswal	OK
39	Q3444-03	29 Post	SAM	10/24/25 18:46		Jaswal	OK
40	Q3444-04	683 WARWICK	SAM	10/24/25 18:50		Jaswal	OK
41	Q3444-05	735 WARWICK	SAM	10/24/25 18:54		Jaswal	OK
42	Q3444-06	739 WARWICK	SAM	10/24/25 18:59		Jaswal	OK
43	Q3444-06DUP	739 WARWICKDUP	DUP	10/24/25 19:03		Jaswal	OK
44	Q3444-06L	739 WARWICKL	SD	10/24/25 19:07		Jaswal	OK
45	Q3444-06MS	739 WARWICKMS	MS	10/24/25 19:11		Jaswal	OK
46	Q3444-06MSD	739 WARWICKMSD	MSD	10/24/25 19:15		Jaswal	OK
47	CCV04	CCV04	CCV	10/24/25 19:19		Jaswal	OK
48	CCB04	CCB04	CCB	10/24/25 19:23		Jaswal	OK
49	Q3444-06A	739 WARWICKA	PS	10/24/25 19:28	0.1 ML OF M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
50	Q3434-02DL	PR132-WC2-2025102	SAM	10/24/25 19:32	Not use	Jaswal	Not Ok
51	Q3417-01DL	101425DL	SAM	10/24/25 19:36	NOT USE	Jaswal	Not Ok
52	CCV05	CCV05	CCV	10/24/25 20:06		Jaswal	OK
53	CCB05	CCB05	CCB	10/24/25 20:10		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/25 11:52		Jaswal	OK
2	S1	S1	CAL2	10/28/25 11:56		Jaswal	OK
3	S2	S2	CAL3	10/28/25 12:01		Jaswal	OK
4	S3	S3	CAL4	10/28/25 12:05		Jaswal	OK
5	S4	S4	CAL5	10/28/25 12:09		Jaswal	OK
6	S5	S5	CAL6	10/28/25 12:13		Jaswal	OK
7	ICV01	ICV01	ICV	10/28/25 12:30		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/28/25 12:34		Jaswal	OK
9	ICB01	ICB01	ICB	10/28/25 12:38		Jaswal	OK
10	CRI01	CRI01	CRDL	10/28/25 12:42		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/28/25 12:47		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/28/25 12:51		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/28/25 12:55		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/28/25 12:59		Jaswal	OK
15	CCV01	CCV01	CCV	10/28/25 13:03		Jaswal	OK
16	CCB01	CCB01	CCB	10/28/25 13:08		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/28/25 13:12		Jaswal	OK
18	LR-3	LR-3	HIGH STD	10/28/25 13:21		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

19	Q3446-01	SB-14	SAM	10/28/25 13:26		Jaswal	OK
20	LR-2	LR-2	HIGH STD	10/28/25 13:30		Jaswal	OK
21	Q3446-02	SB-15	SAM	10/28/25 13:35		Jaswal	OK
22	Q3446-03	SB-16	SAM	10/28/25 13:39		Jaswal	OK
23	Q3446-04	SB-17	SAM	10/28/25 13:44		Jaswal	OK
24	Q3446-05	SB-18	SAM	10/28/25 13:48		Jaswal	OK
25	Q3446-06	SB-19	SAM	10/28/25 13:52		Jaswal	OK
26	Q3446-07	SB-20	SAM	10/28/25 13:57		Jaswal	OK
27	CCV02	CCV02	CCV	10/28/25 14:01		Jaswal	OK
28	CCB02	CCB02	CCB	10/28/25 14:05		Jaswal	OK
29	Q3446-08	SB-21	SAM	10/28/25 14:09		Jaswal	OK
30	Q3449-06	CF-620-COMP-41	SAM	10/28/25 14:14		Jaswal	OK
31	PB170263BL	PB170263BL	MB	10/28/25 14:18		Jaswal	OK
32	PB170263BS	PB170263BS	LCS	10/28/25 14:22		Jaswal	OK
33	PB170239TB	PB170239TB	MB	10/28/25 14:27		Jaswal	OK
34	PB170202TB	PB170202TB	MB	10/28/25 14:31		Jaswal	OK
35	Q3439-04	TP-9	SAM	10/28/25 14:35		Jaswal	OK
36	Q3439-08	TP-10	SAM	10/28/25 14:40		Jaswal	OK
37	Q3440-04	JB-2	SAM	10/28/25 14:44		Jaswal	OK
38	Q3447-02	P001-TW1-251023-01	SAM	10/28/25 14:49		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

39	CCV03	CCV03	CCV	10/28/25 14:53		Jaswal	OK
40	CCB03	CCB03	CCB	10/28/25 14:57		Jaswal	OK
41	Q3447-04	P001-TW2-251023-01	SAM	10/28/25 15:01		Jaswal	OK
42	Q3447-06	P001-TW3-251023-01	SAM	10/28/25 15:06		Jaswal	OK
43	Q3447-08	P001-TW4-251023-01	SAM	10/28/25 15:10		Jaswal	OK
44	Q3451-04	TP-11	SAM	10/28/25 15:14		Jaswal	OK
45	Q3451-08	TP-12	SAM	10/28/25 15:19		Jaswal	OK
46	Q3452-04	JB-1	SAM	10/28/25 15:23		Jaswal	OK
47	Q3452-04DUP	JB-1DUP	DUP	10/28/25 15:28		Jaswal	OK
48	Q3452-04L	JB-1L	SD	10/28/25 15:32		Jaswal	OK
49	Q3452-04MS	JB-1MS	MS	10/28/25 15:36		Jaswal	OK
50	Q3452-04MSD	JB-1MSD	MSD	10/28/25 15:40		Jaswal	OK
51	CCV04	CCV04	CCV	10/28/25 15:45		Jaswal	OK
52	CCB04	CCB04	CCB	10/28/25 15:49		Jaswal	OK
53	Q3452-04A	JB-1A	PS	10/28/25 15:53		Jaswal	OK
54	Q3422-02	PR132-FB2-2025102	SAM	10/28/25 15:57		Jaswal	OK
55	PB170251BL	PB170251BL	MB	10/28/25 16:01		Jaswal	OK
56	PB170251BS	PB170251BS	LCS	10/28/25 16:06		Jaswal	OK
57	Q3434-02DL	PR132-WC2-2025102	SAM	10/28/25 16:10	5X For Na	Jaswal	Confirms
58	Q3447-01DL	P001-TW1-251023-01	SAM	10/28/25 16:14	5X For Fe, AG	Jaswal	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

59	Q3447-03DL	P001-TW2-251023-01	SAM	10/28/25 16:18	5X For Ag	Jaswal	Confirms
60	Q3447-05DL	P001-TW3-251023-01	SAM	10/28/25 16:22	5X for Cu,Pb, Still Cu,Pb high	Jaswal	Dilution
61	Q3420-05DL	COMPOSITEDL	SAM	10/28/25 16:26	NOT USE	Jaswal	Not Ok
62	Q3420-05DUPDL	COMPOSITEDUPDL	DUP	10/28/25 16:31	NOT USE	Jaswal	Not Ok
63	CCV05	CCV05	CCV	10/28/25 16:35		Jaswal	OK
64	CCB05	CCB05	CCB	10/28/25 16:39		Jaswal	OK
65	Q3417-01DL	101425DL	SAM	10/28/25 16:44	NOT USE	Jaswal	Not Ok
66	Q3420-05MSDL	COMPOSITEMSDL	MS	10/28/25 16:48	NOT USE	Jaswal	Not Ok
67	Q3420-05MSDDL	COMPOSITEMSDDL	MSD	10/28/25 16:53	NOT USE	Jaswal	Not Ok
68	Q3420-05ADL	COMPOSITEADL	PS	10/28/25 16:57	NOT USE	Jaswal	Not Ok
69	Q3420-05LDL	COMPOSITELDL	SD	10/28/25 17:01	NOT USE	Jaswal	Not Ok
70	Q3420-05DL2	COMPOSITEDL2	SAM	10/28/25 17:06	10x for Na	Jaswal	Confirms
71	Q3420-05DUPDL2	COMPOSITEDUPDL2	DUP	10/28/25 17:10	10x for Na	Jaswal	Confirms
72	Q3420-05LDL2	COMPOSITELDL2	SD	10/28/25 17:15	10x for Na	Jaswal	Confirms
73	Q3420-05MSDL2	COMPOSITEMSDL2	MS	10/28/25 17:19	10x for Na	Jaswal	Confirms
74	Q3420-05MSDDL2	COMPOSITEMSDDL2	MSD	10/28/25 17:23	10 x for Na	Jaswal	Confirms
75	CCV06	CCV06	CCV	10/28/25 17:27		Jaswal	OK
76	CCB06	CCB06	CCB	10/28/25 17:32		Jaswal	OK
77	Q3420-05ADL2	COMPOSITEADL2	PS	10/28/25 17:36	NOT REQUIRED	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

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Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

78	PB170265BL	PB170265BL	MB	10/28/25 17:40		Jaswal	OK
79	PB170265BS	PB170265BS	LCS	10/28/25 17:45		Jaswal	OK
80	Q3451-01	TP-11	SAM	10/28/25 17:49		Jaswal	OK
81	Q3451-05	TP-12	SAM	10/28/25 17:53		Jaswal	OK
82	Q3451-05DUP	TP-12DUP	DUP	10/28/25 17:57		Jaswal	OK
83	Q3451-05L	TP-12L	SD	10/28/25 18:01		Jaswal	OK
84	Q3451-05MS	TP-12MS	MS	10/28/25 18:05		Jaswal	OK
85	Q3451-05MSD	TP-12MSD	MSD	10/28/25 18:09		Jaswal	OK
86	Q3451-05A	TP-12A	PS	10/28/25 18:13		Jaswal	OK
87	CCV07	CCV07	CCV	10/28/25 18:17		Jaswal	OK
88	CCB07	CCB07	CCB	10/28/25 18:21		Jaswal	OK
89	Q3452-01	JB-1	SAM	10/28/25 18:25		Jaswal	OK
90	Q3457-01	TR-05-102425	SAM	10/28/25 18:29		Jaswal	OK
91	Q3460-01	WC-1	SAM	10/28/25 18:33		Jaswal	OK
92	Q3460-05	WC-2	SAM	10/28/25 18:37		Jaswal	OK
93	Q3460-09	WC-3	SAM	10/28/25 18:41		Jaswal	OK
94	Q3460-13	WC-4	SAM	10/28/25 18:45		Jaswal	OK
95	Q3460-17	WC-5	SAM	10/28/25 18:49		Jaswal	OK
96	PB170291BL	PB170291BL	MB	10/28/25 18:53		Jaswal	OK
97	PB170291BS	PB170291BS	LCS	10/28/25 18:58		Jaswal	OK

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Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

98	PB170261TB	PB170261TB	MB	10/28/25 19:02		Jaswal	OK
99	CCV08	CCV08	CCV	10/28/25 19:06		Jaswal	OK
100	CCB08	CCB08	CCB	10/28/25 19:10		Jaswal	OK
101	Q3460-04	WC-1	SAM	10/28/25 19:14		Jaswal	OK
102	Q3460-04DUP	WC-1DUP	DUP	10/28/25 19:19		Jaswal	OK
103	Q3460-04L	WC-1L	SD	10/28/25 19:23		Jaswal	OK
104	Q3460-04MS	WC-1MS	MS	10/28/25 19:28		Jaswal	OK
105	Q3460-04MSD	WC-1MSD	MSD	10/28/25 19:32		Jaswal	OK
106	Q3460-04A	WC-1A	PS	10/28/25 19:36		Jaswal	OK
107	Q3460-08	WC-2	SAM	10/28/25 19:40		Jaswal	OK
108	Q3460-12	WC-3	SAM	10/28/25 19:44		Jaswal	OK
109	Q3460-16	WC-4	SAM	10/28/25 19:49		Jaswal	OK
110	Q3460-20	WC-5	SAM	10/28/25 19:53		Jaswal	OK
111	CCV09	CCV09	CCV	10/28/25 19:58	CCV fail for Na	Jaswal	OK
112	CCB09	CCB09	CCB	10/28/25 20:02		Jaswal	OK
113	Q3466-03	B8-0.0-1.0-20251023	SAM	10/28/25 20:06		Jaswal	OK
114	Q3469-04	TP-13	SAM	10/28/25 20:10		Jaswal	OK
115	Q3472-05	COMP-1	SAM	10/28/25 20:15		Jaswal	OK
116	Q3472-07	COMP-2	SAM	10/28/25 20:19		Jaswal	OK
117	Q3472-09	COMP-3	SAM	10/28/25 20:24		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137677

Review By	jaswal	Review On	10/29/2025 3:56:34 PM
Supervise By	mohan	Supervise On	11/3/2025 10:11:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

118	Q3472-11	COMP-4	SAM	10/28/25 20:28		Jaswal	OK
119	Q3472-13	COMP-5	SAM	10/28/25 20:32		Jaswal	OK
120	Q3472-15	155	SAM	10/28/25 20:37		Jaswal	OK
121	Q3472-17	142	SAM	10/28/25 20:41		Jaswal	OK
122	Q3465-01	SU-03-10242025	SAM	10/28/25 20:45	NOT USE	Jaswal	Not Ok
123	CCV10	CCV10	CCV	10/28/25 20:49	CCV fail for Tl	Jaswal	OK
124	CCB10	CCB10	CCB	10/28/25 20:54	CCB fail for Fe	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/25 13:36		Jaswal	OK
2	S1	S1	CAL2	10/29/25 13:40		Jaswal	OK
3	S2	S2	CAL3	10/29/25 13:44		Jaswal	OK
4	S3	S3	CAL4	10/29/25 13:49		Jaswal	OK
5	S4	S4	CAL5	10/29/25 13:53		Jaswal	OK
6	S5	S5	CAL6	10/29/25 13:57		Jaswal	OK
7	ICV01	ICV01	ICV	10/29/25 14:01		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/29/25 14:07		Jaswal	OK
9	ICB01	ICB01	ICB	10/29/25 14:12		Jaswal	OK
10	CRI01	CRI01	CRDL	10/29/25 14:16		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/29/25 14:21		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/25 14:25		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/29/25 14:29		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/25 14:33		Jaswal	OK
15	CCV01	CCV01	CCV	10/29/25 14:37		Jaswal	OK
16	CCB01	CCB01	CCB	10/29/25 14:41		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/29/25 14:46		Jaswal	OK
18	LR-2	LR-2	HIGH STD	10/29/25 14:50		Jaswal	OK

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Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

19	LR-3	LR-3	HIGH STD	10/29/25 14:55		Jaswal	OK
20	Q3465-01	SU-03-10242025	SAM	10/29/25 15:00		Jaswal	OK
21	PB170288BL	PB170288BL	MB	10/29/25 15:04		Jaswal	OK
22	PB170288BS	PB170288BS	LCS	10/29/25 15:08		Jaswal	OK
23	Q3447-05DL2	P001-TW3-251023-01	SAM	10/29/25 15:12	10X for Cu,Pb	Jaswal	Confirms
24	Q3466-02	B8-0.0-1.0-20251023	SAM	10/29/25 15:16		Jaswal	OK
25	Q3466-05	B9-0.0-1.0-20251023	SAM	10/29/25 15:20		Jaswal	OK
26	Q3466-07	B7-1.0-2.0-20251023	SAM	10/29/25 15:24		Jaswal	OK
27	CCV02	CCV02	CCV	10/29/25 15:43		Jaswal	OK
28	CCB02	CCB02	CCB	10/29/25 15:48		Jaswal	OK
29	Q3469-01	TP-13	SAM	10/29/25 15:52		Jaswal	OK
30	Q3469-01DUP	TP-13DUP	DUP	10/29/25 15:56		Jaswal	OK
31	Q3469-01L	TP-13L	SD	10/29/25 16:00		Jaswal	OK
32	Q3469-01MS	TP-13MS	MS	10/29/25 16:04		Jaswal	OK
33	Q3469-01MSD	TP-13MSD	MSD	10/29/25 16:08		Jaswal	OK
34	Q3469-01A	TP-13A	PS	10/29/25 16:12	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
35	PB170264BL	PB170264BL	MB	10/29/25 16:16		Jaswal	OK
36	PB170264BS	PB170264BS	LCS	10/29/25 16:24		Jaswal	OK
37	Q3442-01	SW-1	SAM	10/29/25 16:29		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

38	Q3464-02	MW3	SAM	10/29/25 16:33		Jaswal	OK
39	CCV03	CCV03	CCV	10/29/25 16:37		Jaswal	OK
40	CCB03	CCB03	CCB	10/29/25 16:41		Jaswal	OK
41	Q3464-01	MW2	SAM	10/29/25 16:45		Jaswal	OK
42	Q3464-01DUP	MW2DUP	DUP	10/29/25 16:50		Jaswal	OK
43	Q3464-01L	MW2L	SD	10/29/25 16:54		Jaswal	OK
44	Q3464-01MS	MW2MS	MS	10/29/25 16:58		Jaswal	OK
45	Q3464-01MSD	MW2MSD	MSD	10/29/25 17:02		Jaswal	OK
46	Q3464-01A	MW2A	PS	10/29/25 17:06	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
47	Q3476-01	NB-07-102825	SAM	10/29/25 17:19		Jaswal	OK
48	Q3477-01	SOUTH-MAHWAH-SC	SAM	10/29/25 17:23		Jaswal	OK
49	CCV04	CCV04	CCV	10/29/25 17:27		Jaswal	OK
50	CCB04	CCB04	CCB	10/29/25 17:31		Jaswal	OK
51	Q3480-01	RT3449	SAM	10/29/25 17:35	Ag is oversaturated, Need dilution	Jaswal	Dilution
52	Q3481-01	OR-02-102825	SAM	10/29/25 17:39		Jaswal	OK
53	Q3481-01DUP	OR-02-102825DUP	DUP	10/29/25 17:43		Jaswal	OK
54	Q3481-01L	OR-02-102825L	SD	10/29/25 17:48		Jaswal	OK
55	Q3481-01MS	OR-02-102825MS	MS	10/29/25 17:52		Jaswal	OK
56	Q3481-01MSD	OR-02-102825MSD	MSD	10/29/25 17:56		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	mohan	Supervise On	11/3/2025 10:12:07 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

57	Q3481-01A	OR-02-102825A	PS	10/29/25 17:59	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
58	CCV05	CCV05	CCV	10/29/25 18:03		Jaswal	OK
59	CCB05	CCB05	CCB	10/29/25 18:07		Jaswal	OK
60	Q3420-05	COMPOSITE	SAM	10/29/25 18:12	Na oversaturated	Jaswal	Dilution
61	Q3420-05DUP	COMPOSITEDUP	DUP	10/29/25 18:16	Na High	Jaswal	Dilution
62	Q3420-05L	COMPOSITEL	SD	10/29/25 18:20	Na High in original/dup/ms/msd	Jaswal	Dilution
63	Q3420-05MS	COMPOSITEMS	MS	10/29/25 18:25	Na High	Jaswal	Dilution
64	Q3420-05MSD	COMPOSITEMSD	MSD	10/29/25 18:29	Na High	Jaswal	Dilution
65	Q3420-05A	COMPOSITEA	PS	10/29/25 18:33	Na High, 0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	Dilution
66	CCV06	CCV06	CCV	10/29/25 18:55		Jaswal	OK
67	CCB06	CCB06	CCB	10/29/25 19:04		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3422

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB170225,PB170232,

Sequence ID/Qc Batch ID: LB137632,LB137662,LB137677,LB137677,LB137697,

Standard ID :
MP87148,MP87633,MP87634,MP87635,MP87636,MP87637,MP87638,MP87639,MP87640,MP87641,MP87642,MP87643,MP87644,MP87645,MP87646,MP87647,MP87648,MP87649,MP87650,MP87651,MP87668,MP87702,MP87703,MP87704,MP87705,MP87706,MP87707,MP87708,MP87709,MP87710,MP87711,MP87712,MP87713,MP87714,MP87732,

Chemical ID :
M4916,M5062,M5467,M5501,M5658,M5697,M5748,M5798,M5799,M5800,M5801,M5814,M5820,M5882,M5962,M5969,M5971,M5979,M5985,M5998,M6021,M6023,M6026,M6027,M6028,M6030,M6032,M6058,M6077,M6086,M6128,M6137,M6140,M6142,M6144,M6145,M6151,M6157,M6158,M6159,M6160,M6161,M6163,M6164,M6165,M6171,M6174,M6176,M6177,M6178,M6179,M6182,M6184,M6187,M6196,M6200,M6201,M6209,M6213,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
3965	2:1 H2SO4 : HNO3	MP87633	10/17/2025	11/07/2025	Sagar Kanani	None	None	Sarabjit Jaswal 10/28/2025

FROM 1600.00000ml of M6157 + 800.00000ml of M6187 = Final Quantity: 3200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP87634	10/17/2025	03/31/2026	Sagar Kanani	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/28/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP87635	10/17/2025	02/02/2026	Sagar Kanani	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/28/2025

FROM 100.00000ml of M6213 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP87636	10/17/2025	02/03/2026	Sagar Kanani	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/28/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M5501 + 240.00000ml of M6196 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP87637	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

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)	MP87638	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5971 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6160 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP87637 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP87639	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 50.00000ml of MP87637 + 50.00000ml of MP87638 = 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	MP87640	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 25.00000ml of MP87638 + 75.00000ml of MP87637 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP87641	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 16.00000ml of MP87638 + 184.00000ml of MP87637 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP87642	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 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 M5969 + 0.10000ml of M5971 + 0.10000ml of M6128 + 0.10000ml of M6176 + 0.15000ml of M5800 + 0.20000ml of M5799 + 0.20000ml of M5979 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6027 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6160 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M6086 + 1.00000ml of M6142 + 1.00000ml of M6144 + 1.00000ml of M6171 + 1.00000ml of M6178 + 2.00000ml of M6137 + 89.03000ml of MP87637 = 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	MP87643	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 2.00000ml of MP87642 + 98.00000ml of MP87637 = 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	MP87644	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.60000ml of MP87637 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP87645	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 25.00000ml of M6182 + 225.00000ml of MP87637 = 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
3494	ICP AES ICSAB SOLN-1	MP87646	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 0.10000ml of M6077 + 10.00000ml of M6182 + 10.00000ml of M6184 + 79.90000ml of MP87637 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP87647	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 50.00000ml of MP87637 + 50.00000ml of MP87638 = 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
903	ICP AES RINSE SOLN	MP87648	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 200.00000ml of M6187 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4226	LR-2	MP87649	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 13.50000ml of M6140 + 9.00000ml of M6142 + 9.50000ml of M6159 + 18.00000ml of MP87637 = 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	MP87650	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 1.15000ml of M6026 + 1.25000ml of M5658 + 1.25000ml of M5748 + 1.50000ml of M6145 + 2.50000ml of M5697 + 2.50000ml of M6128 + 39.85000ml of MP87637 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4225	LR-1	MP87651	10/17/2025	11/17/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

FROM 11.50000ml of M6086 + 11.50000ml of M6144 + 11.50000ml of M6171 + 15.50000ml of MP87637 = 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
919	ICP AES INTERNAL STD	MP87668	10/17/2025	11/11/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/28/2025

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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP87702	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 10/28/2025

FROM 1.00000ml of M6187 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP87703	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP87704	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87702 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP87705	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 245.00000ml of W3112 + 2.50000ml of MP87702 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP87706	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 242.50000ml of W3112 + 5.00000ml of MP87702 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP87707	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 240.00000ml of W3112 + 7.50000ml of MP87702 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP87708	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 237.50000ml of W3112 + 10.00000ml of MP87702 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP87709	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6187 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP87710	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP87711	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6187 + 10.00000ml of MP87702 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP87712	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6187 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP87713	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 247.30000ml of W3112 + 0.20000ml of MP87702 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP87714	10/23/2025	10/24/2025	Sagar Kanani	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/28/2025

FROM 2.50000ml of M6187 + 240.50000ml of W3112 + 7.00000ml of MP87702 = 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
68	STANNOUS CHLORIDE SOLUTION	MP87732	10/24/2025	10/25/2025	Sagar Kanani	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/28/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6200 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501

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

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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.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

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

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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.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	03/31/2026	03/31/2025 / kareem	06/11/2024 / Jaswal	M5969

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	06/06/2025 / Janvi	07/01/2024 / Jaswal	M5971

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	08/05/2026	08/06/2025 / Janvi	02/22/2024 / Jaswal	M5979

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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	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

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

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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.	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

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

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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.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / Jaswal	01/13/2025 / Jaswal	M6145

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	10/30/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	03/24/2025 / kareem	10/18/2024 / kareem	M6160

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	12/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

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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-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	06/08/2026	06/09/2025 / jaswal	06/06/2025 / jaswal	M6163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2	U2-MEB733713	06/08/2026	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	06/08/2026	06/09/2025 / jaswal	06/09/2025 / jaswal	M6165

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	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

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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.	/ Lead (Pb) 1000PPM	031525	03/15/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	080528	08/05/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	08/05/2026	08/06/2025 / Janvi	06/02/2024 / Janvi	M6179

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	H330-500 / HYDROXYLAMINE HYDROCHLORIDE ACS 500G	243373	02/03/2026	09/04/2025 / mohan	08/04/2025 / mohan	M6196

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

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	BA-3238-05 / Potassium Persulfate (2.5kg)	216224-	02/02/2026	10/08/2025 / Sagar	10/07/2025 / Sagar	M6213

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

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
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Certified Reference Material CRM

M6032

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R 8/5/24

CERTIFIED WEIGHT REPORT:

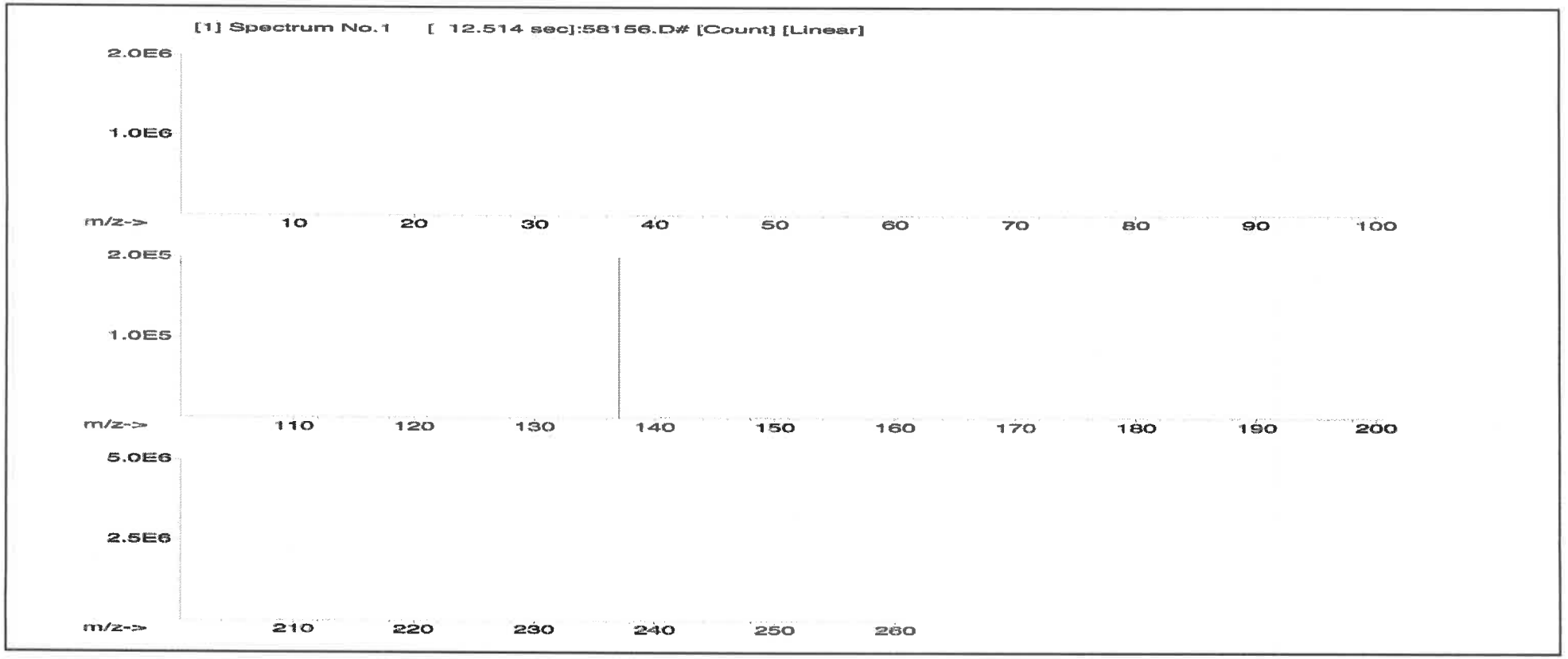
Part Number: 57056
Lot Number: 010924
Description: Barium (Ba)
Expiration Date: 010927
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Revd 10/14/2024 M6085/M6086/M6087

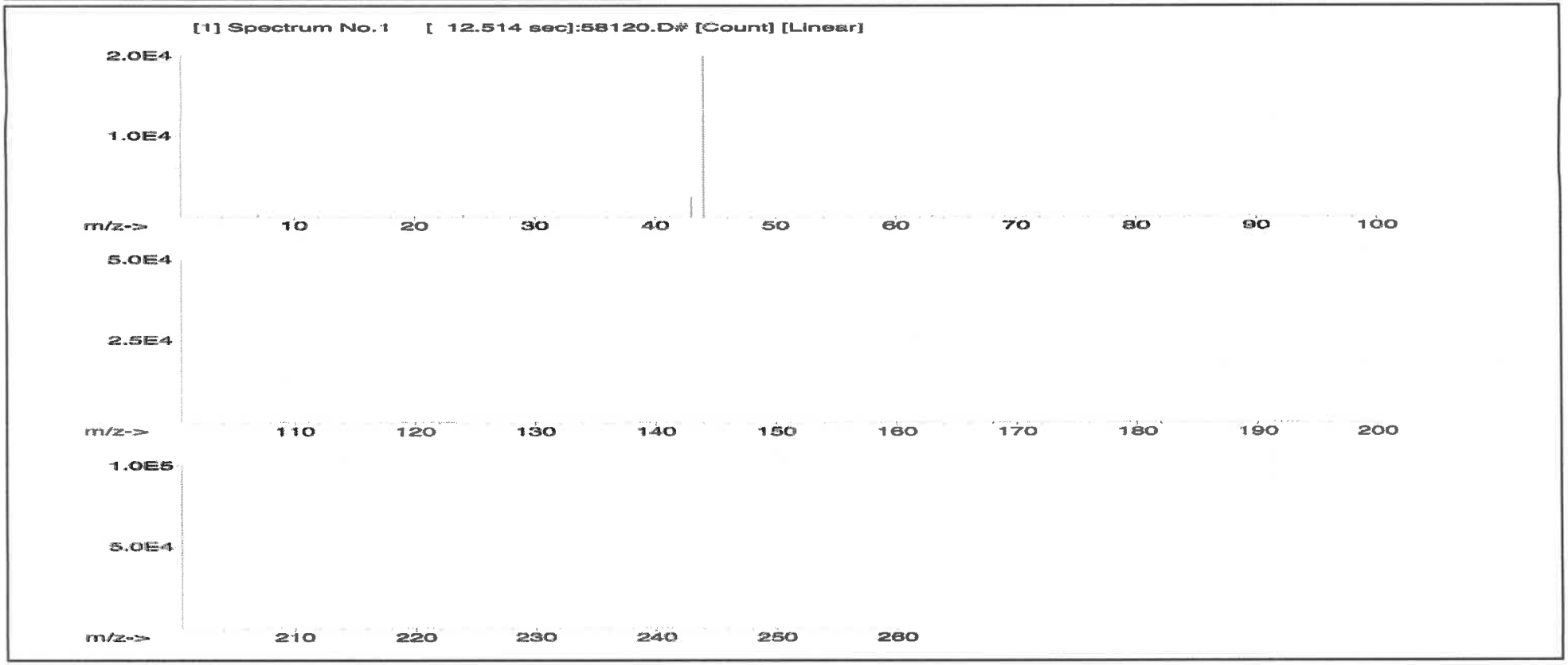
CERTIFIED WEIGHT REPORT:

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
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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Certified Reference Material CRM

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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	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6028

R 8/5/24

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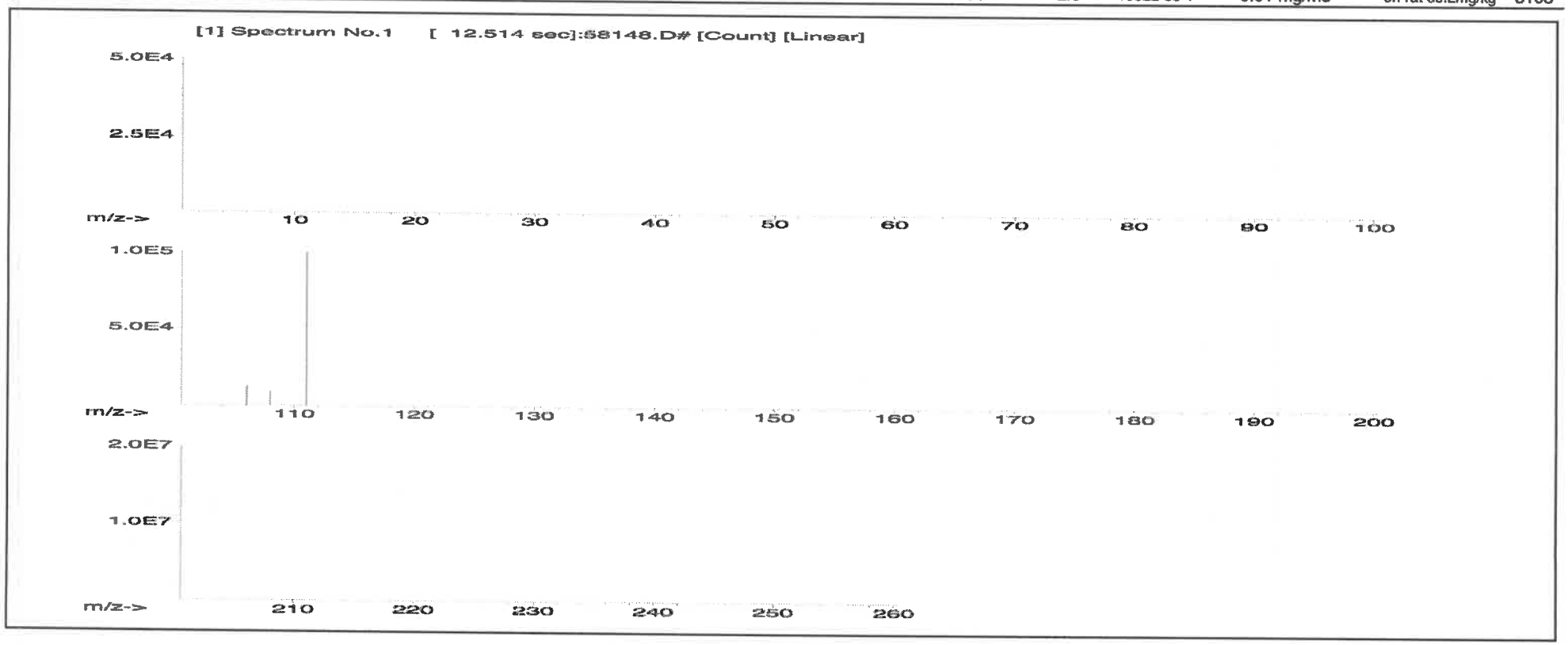
CERTIFIED WEIGHT REPORT:

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
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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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

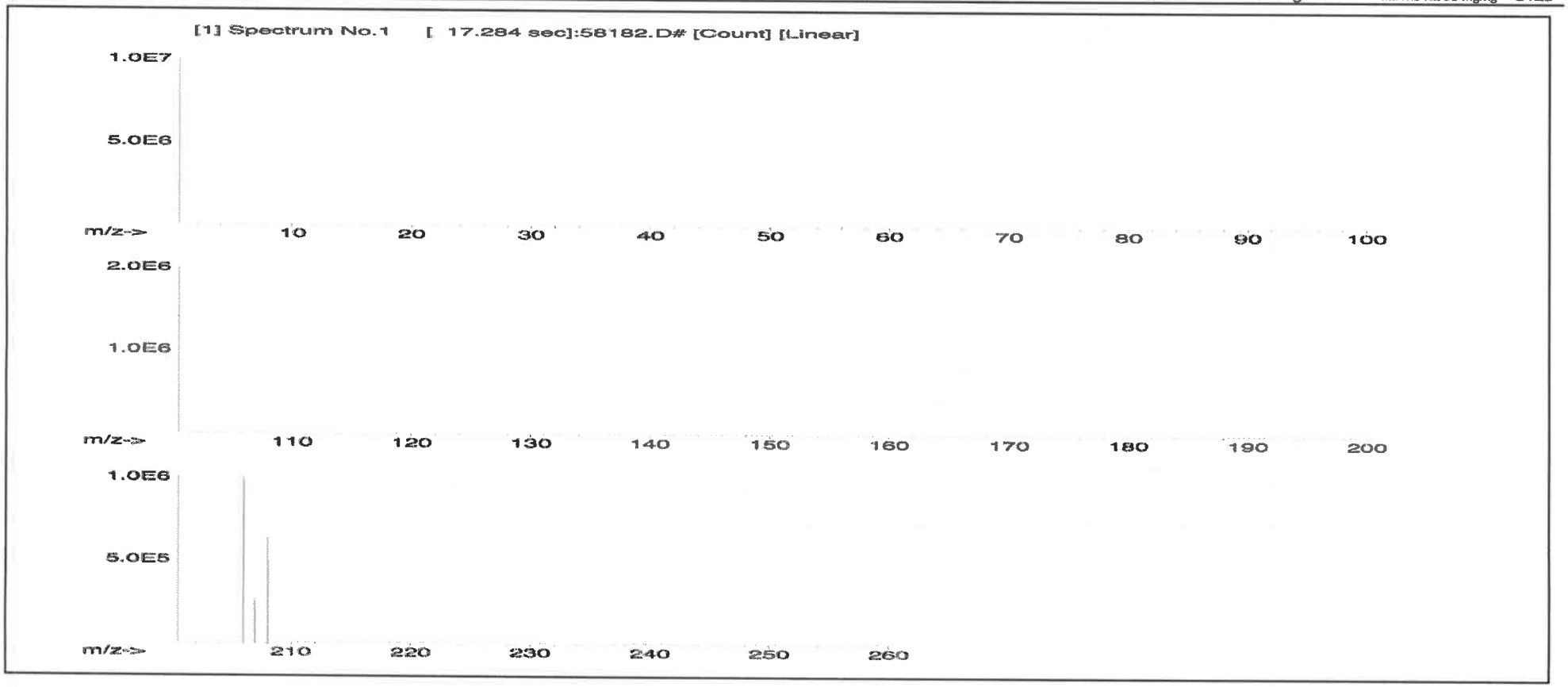
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

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

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ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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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

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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 Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

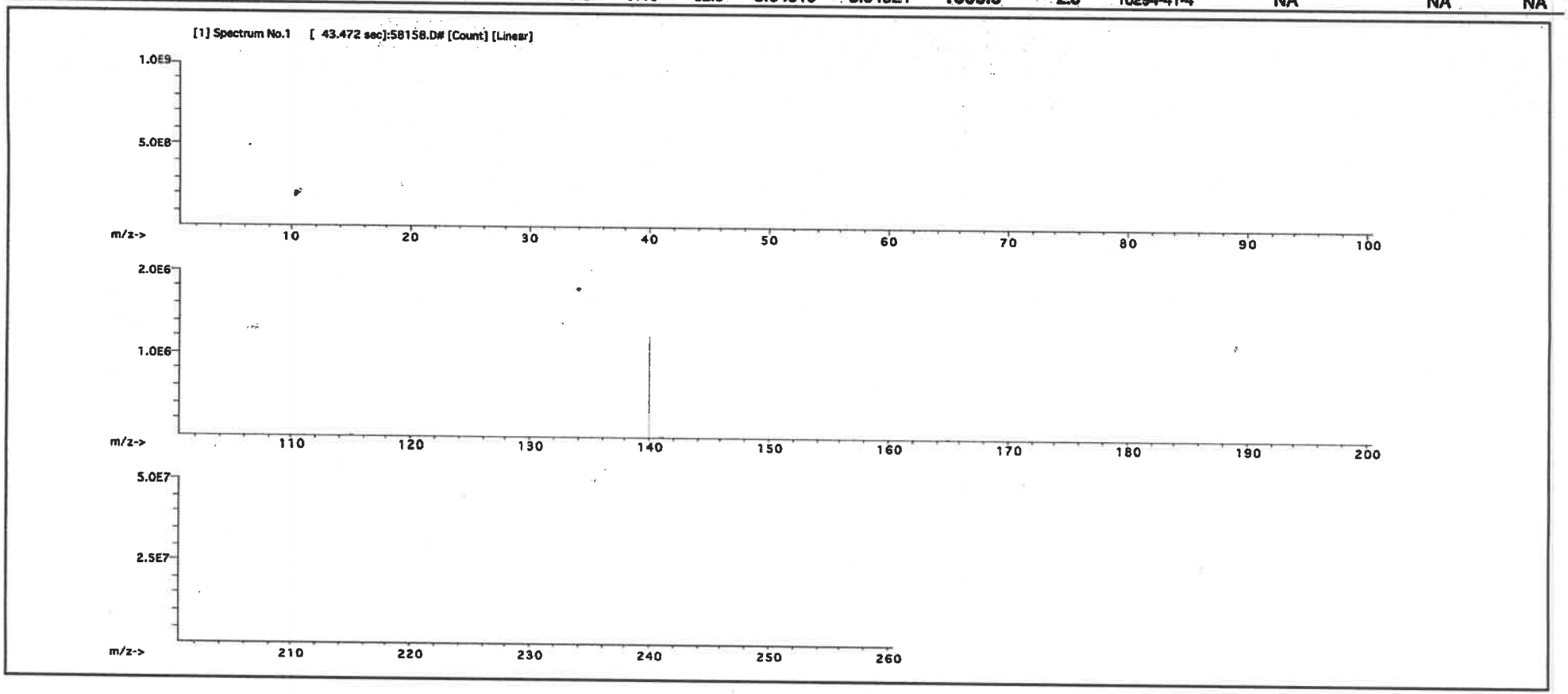
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

	Lot #			
Solvent:	21110221	Nitric Acid		
	2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



23822-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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 – M5708
Radm 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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M5658 R ! 8/25/23

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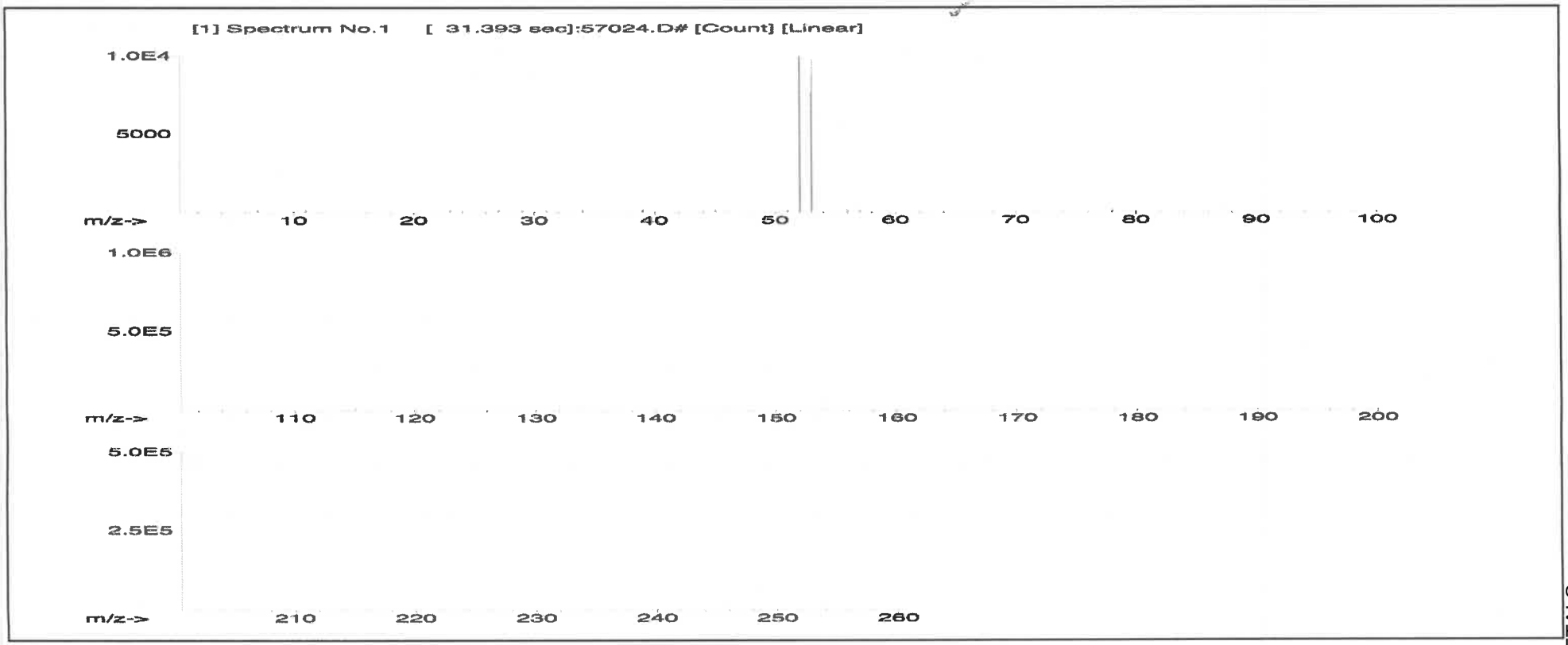
CERTIFIED WEIGHT REPORT:

		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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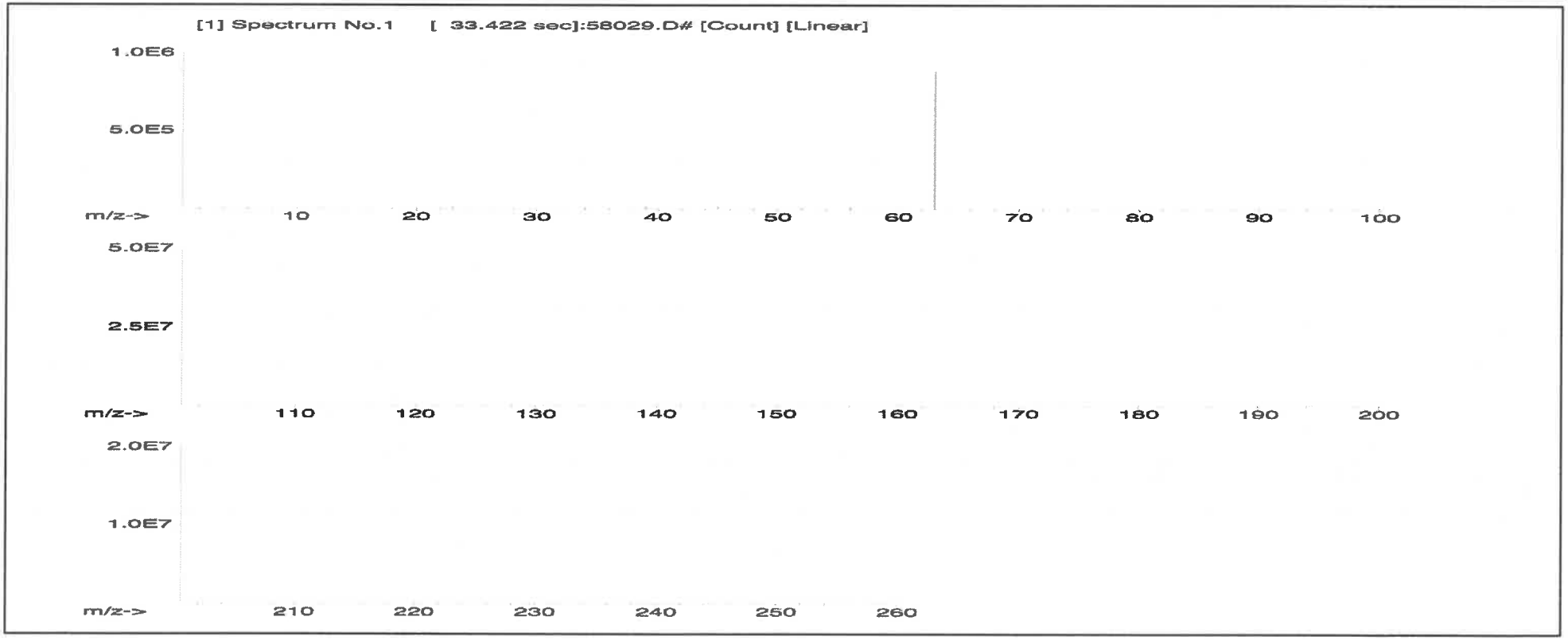
CERTIFIED WEIGHT REPORT:

		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



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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:

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Certified by:

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R: 12/20/23 M5748

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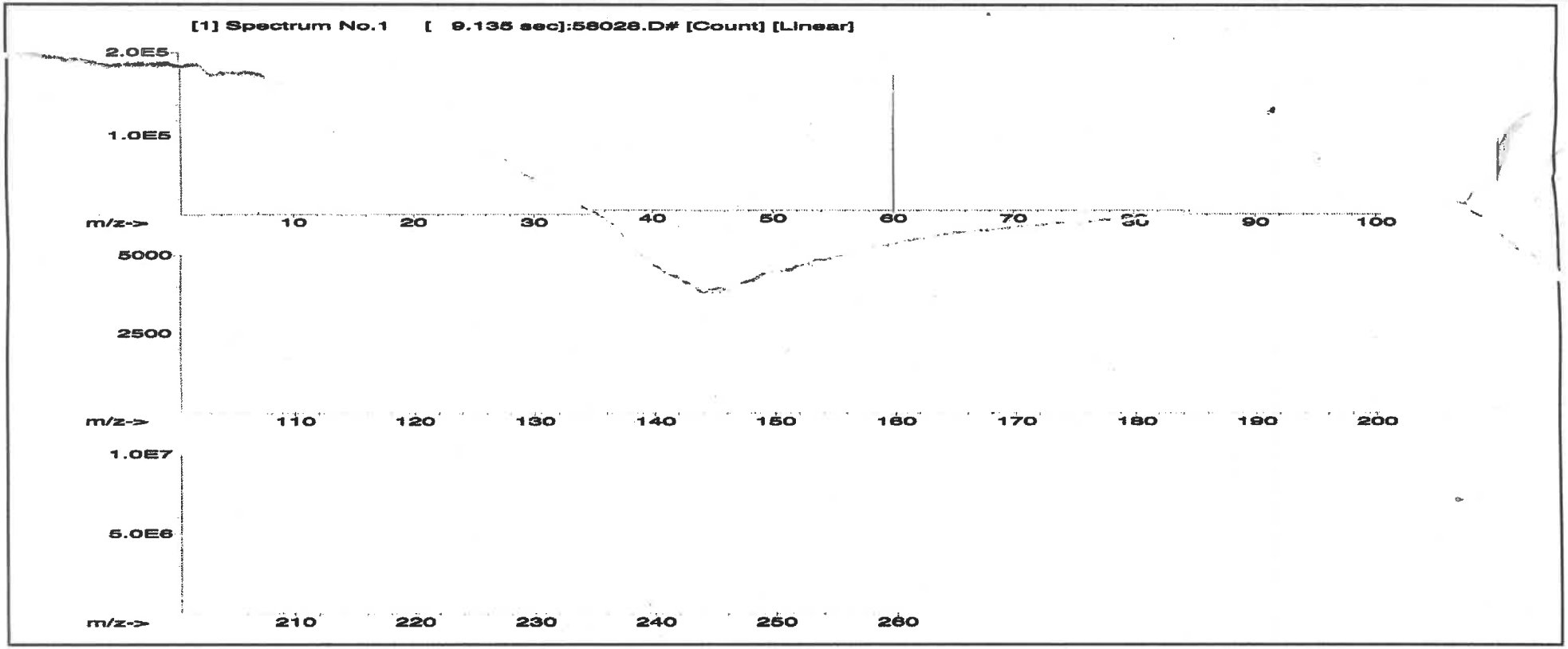
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	2.2	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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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	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
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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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R: 02/09/24 M5798

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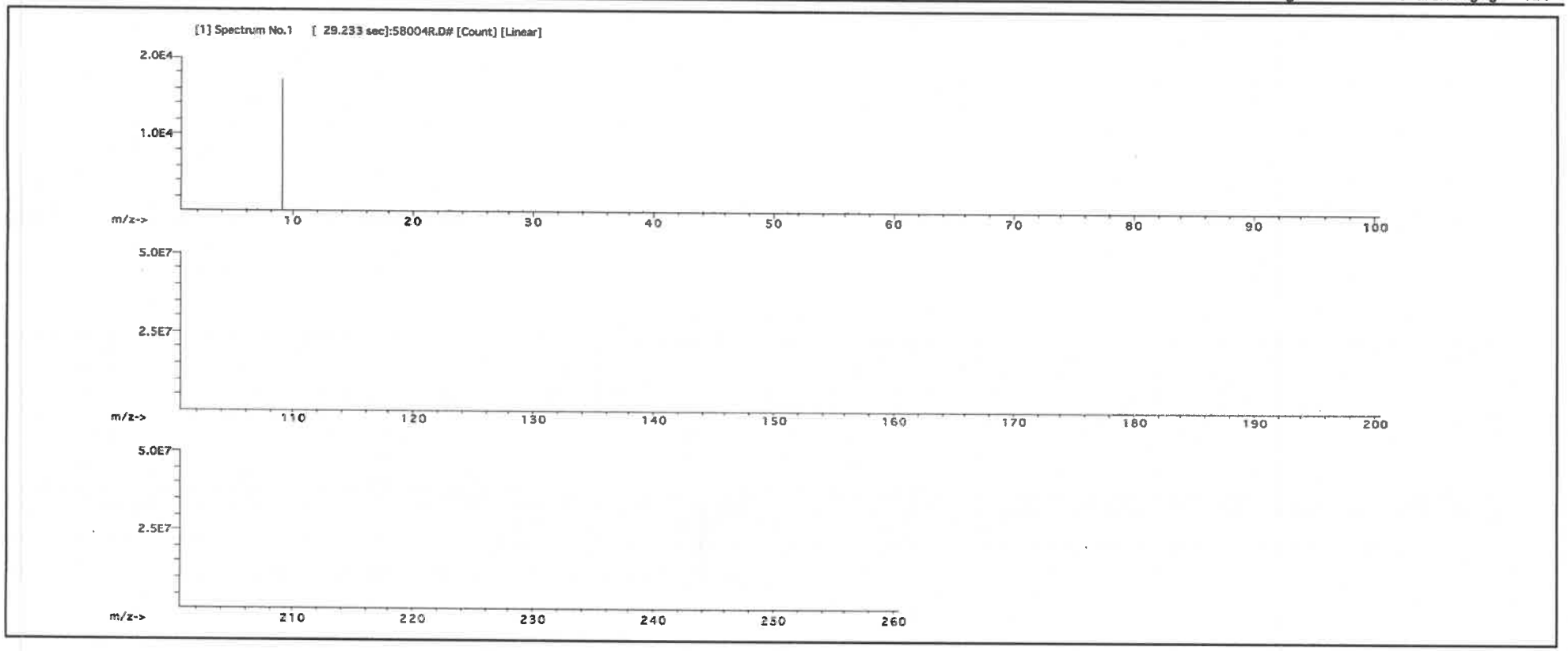
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
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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:

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R? 02/09/24 IV15799 BA

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

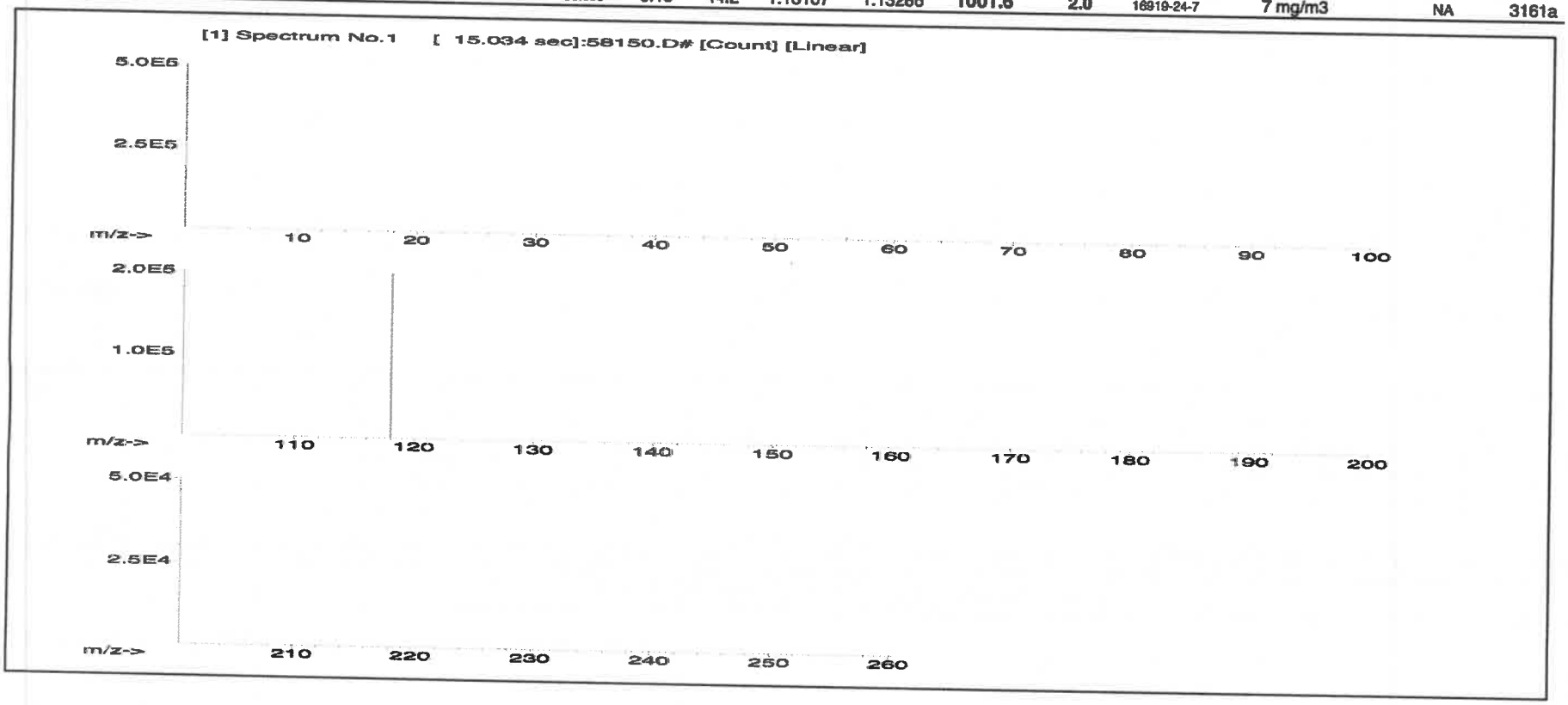
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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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:

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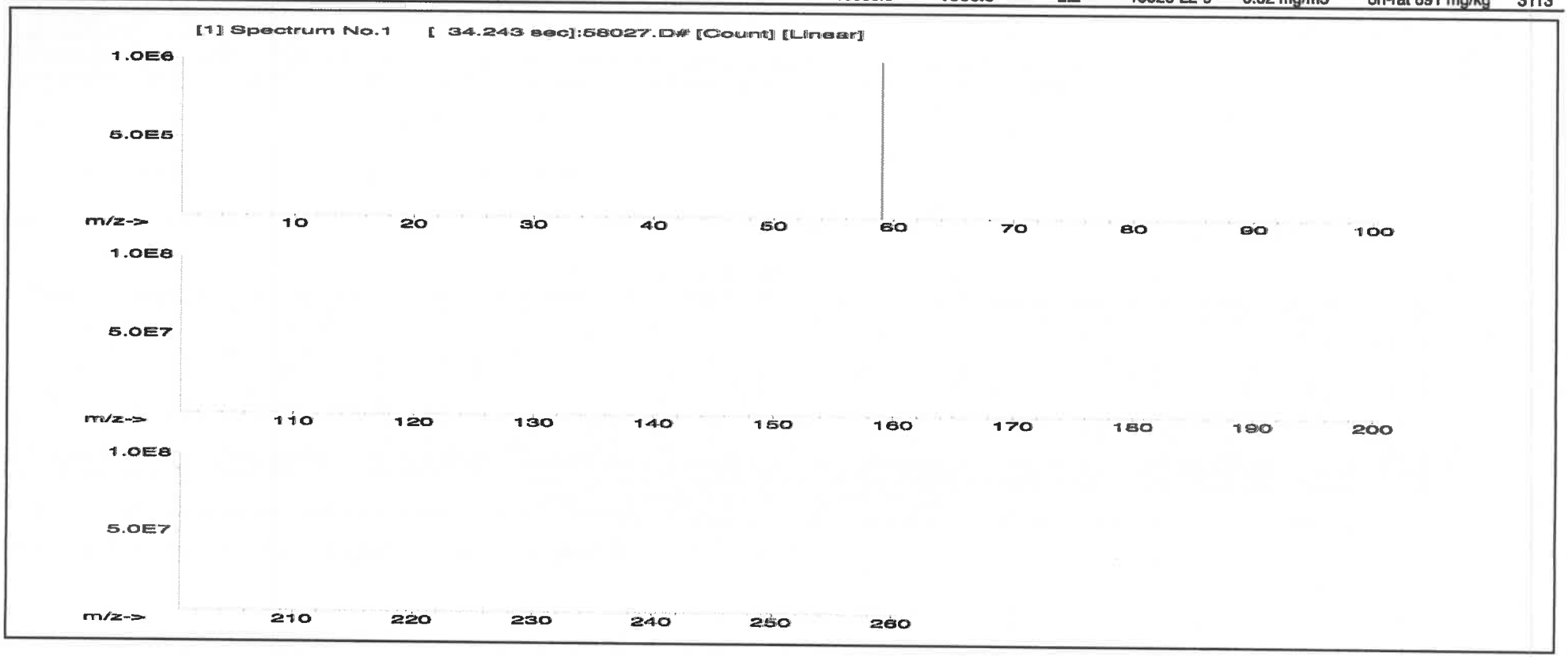
CERTIFIED WEIGHT REPORT:

		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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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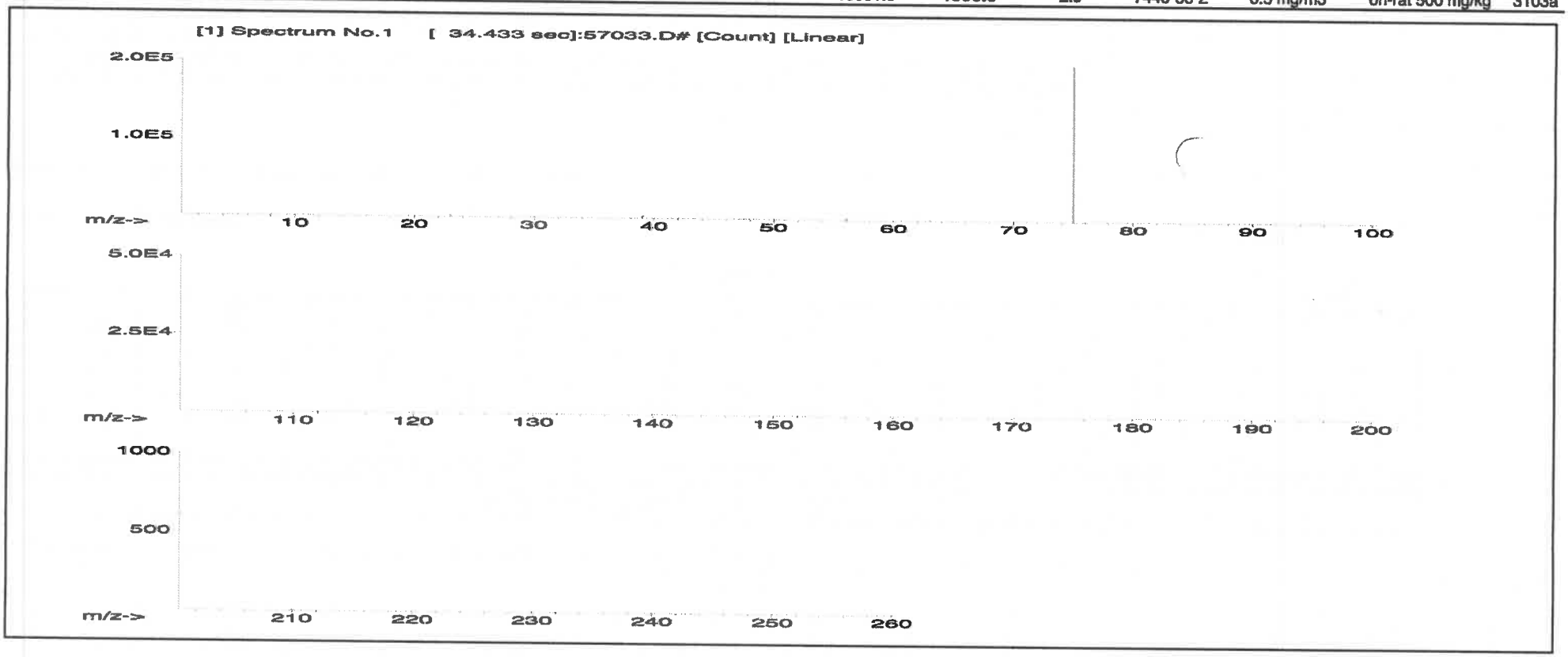
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
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

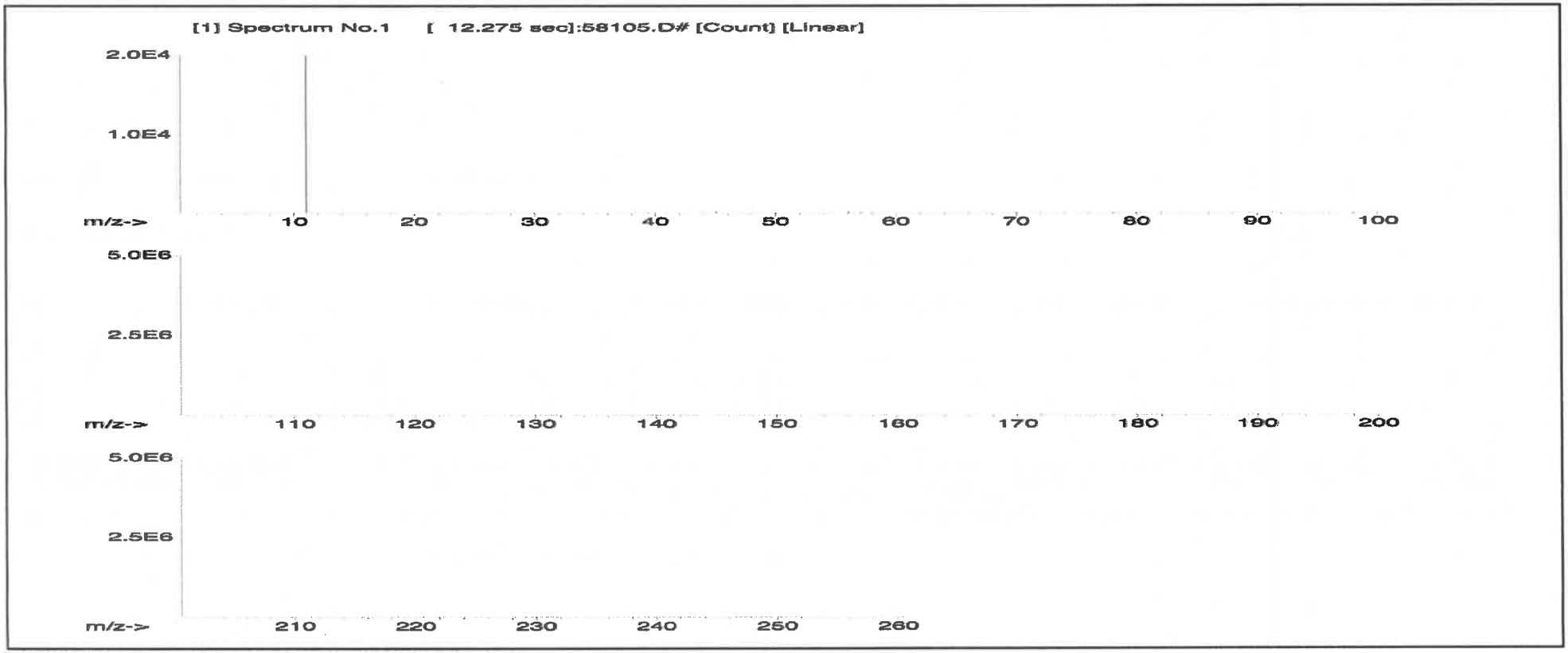
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

	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:

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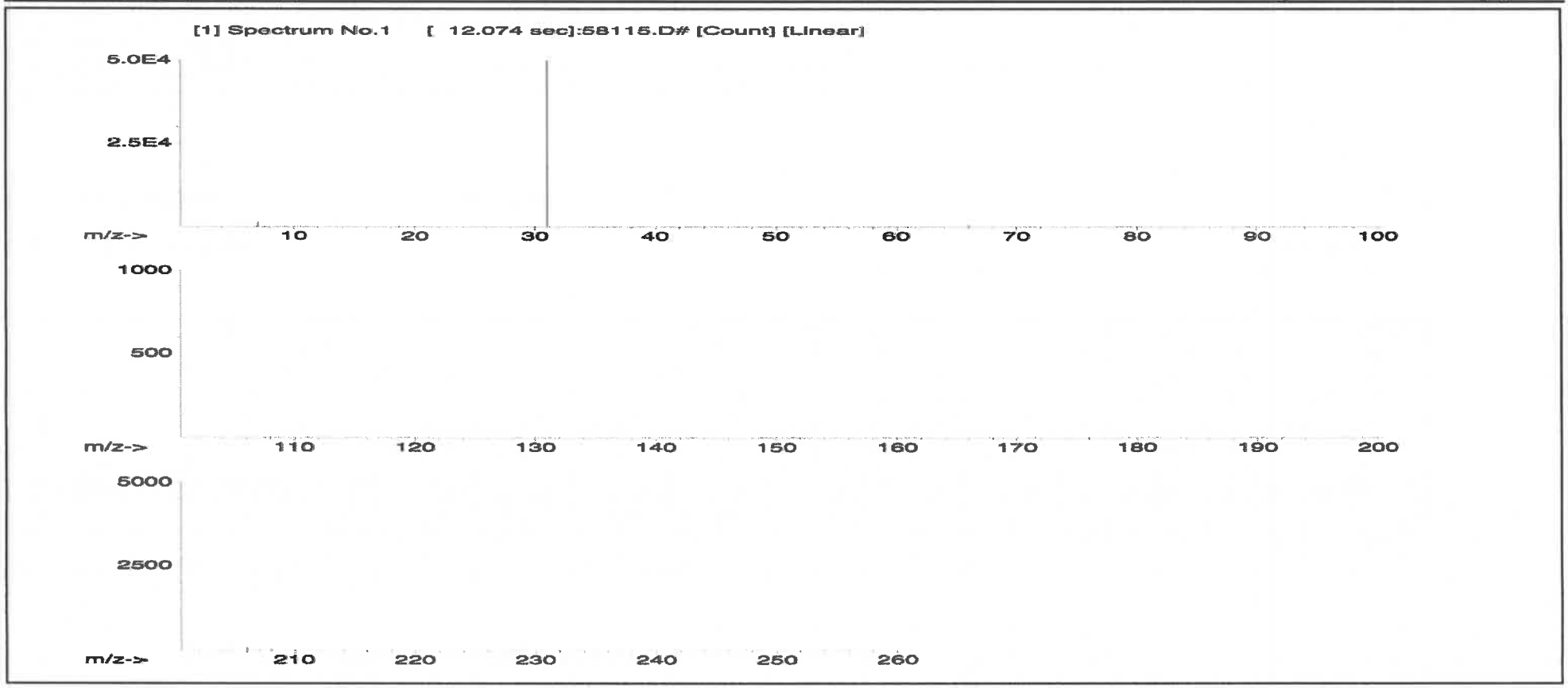
CERTIFIED WEIGHT REPORT:

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:

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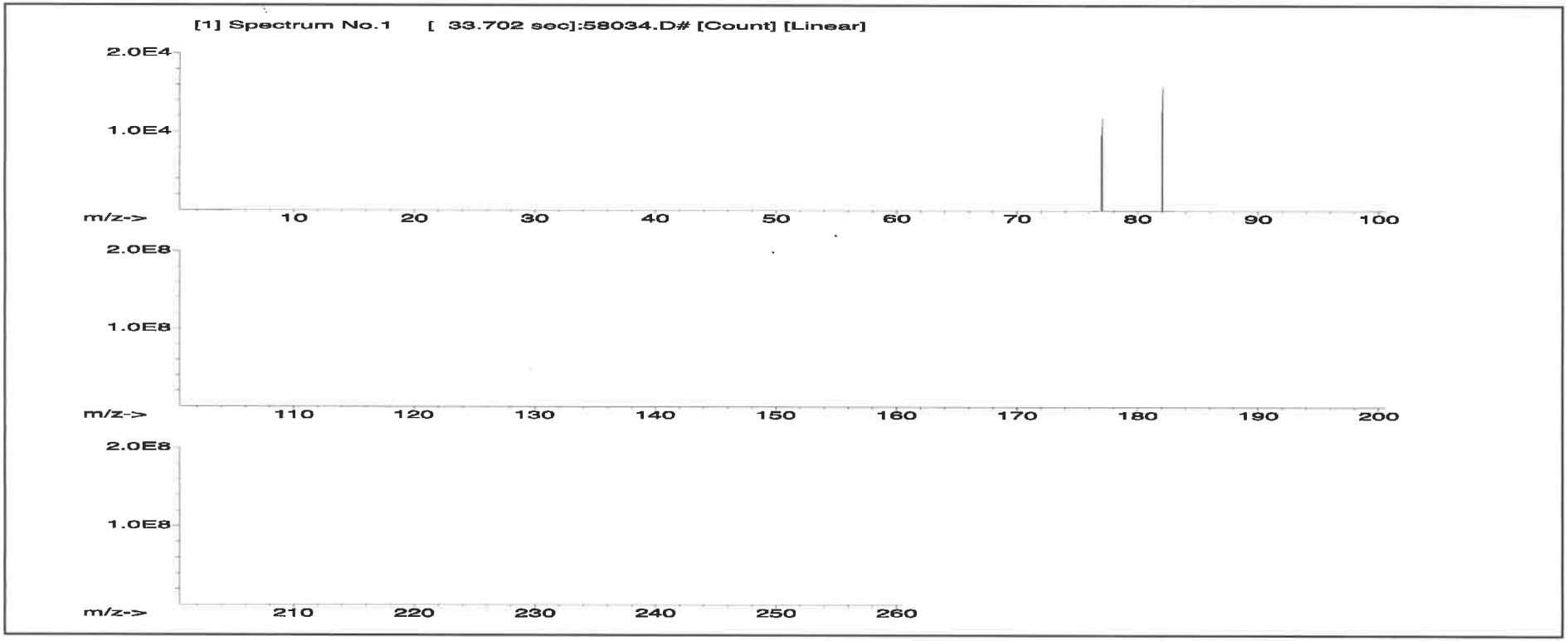
CERTIFIED WEIGHT REPORT:

		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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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
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Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5969 R: 06/11/24

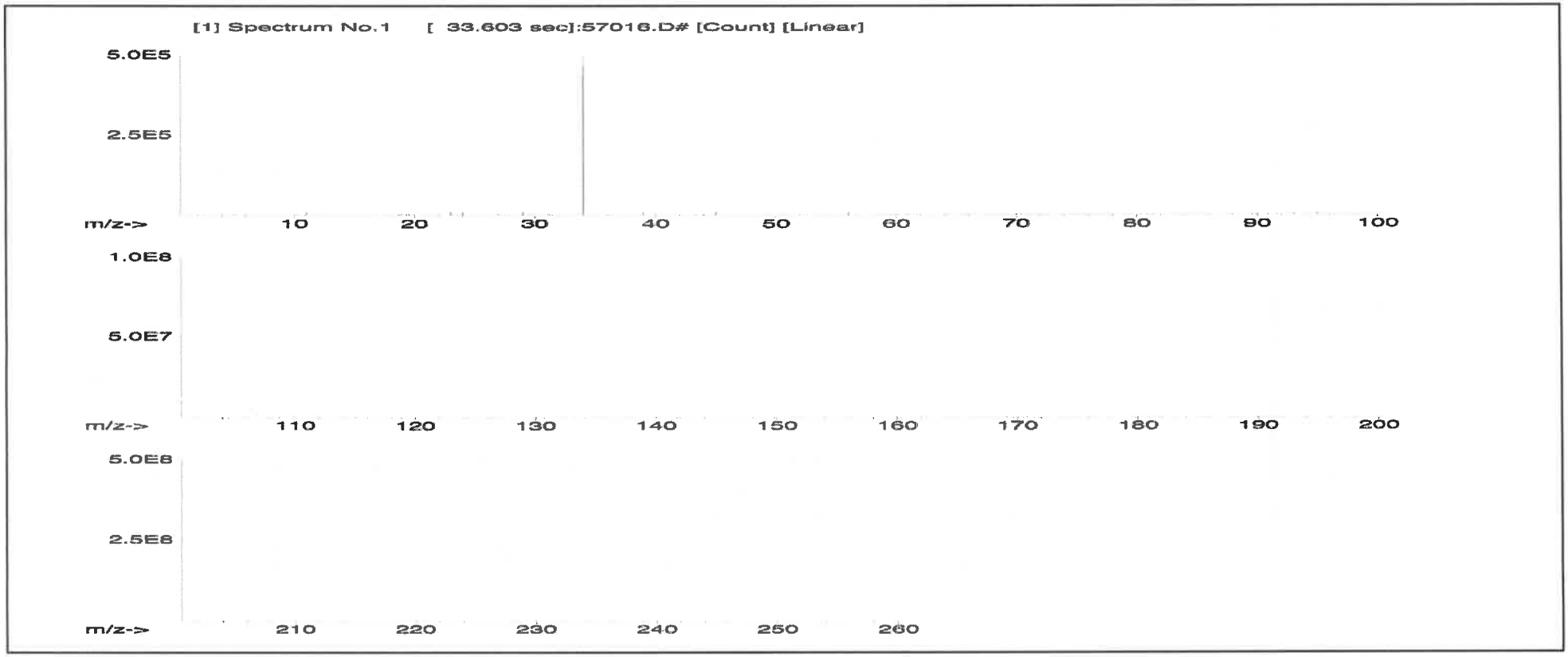
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**		**Solvent:**	Lot # 122923 ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57003**	24002546	Nitric Acid		
Lot Number:	**062124**				
Description:	**Lithium (Li)**	2.0%	5.0 (mL)	Nitric Acid	
Expiration Date:	062127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	250.11	0.016	Flask Uncertainty		

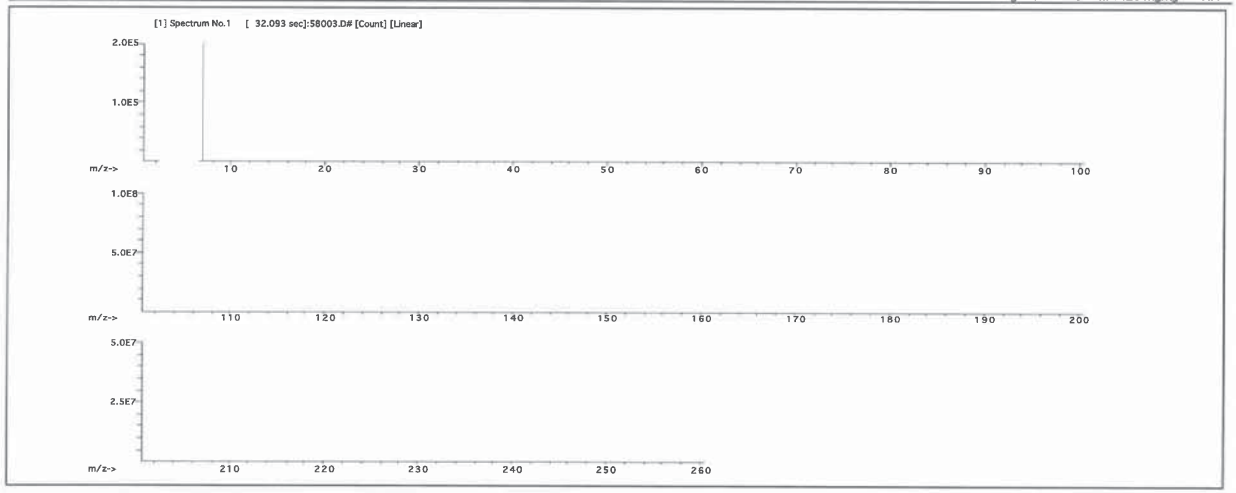
Giovanni Esposito

Formulated By: Giovanni Esposito 062124

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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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

MS978, MS979

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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 ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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 ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{Char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.5798; 540.585.3030; Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on property 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 Kozlkowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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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Certificate of Analysis

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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

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 06, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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
Weight shown below was diluted to (mL): 4000.2 0.10 Flask Uncertainty

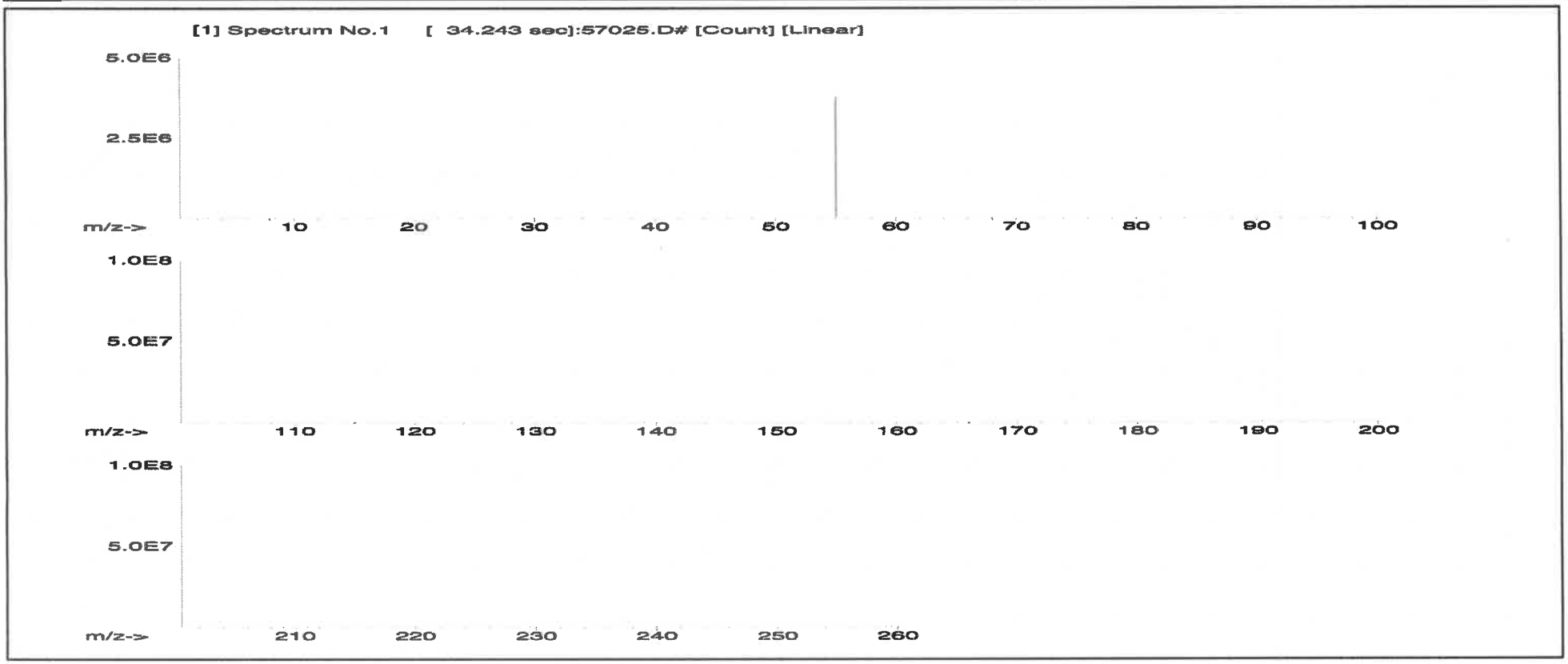
		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid

5E-05 Balance 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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https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

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:	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:

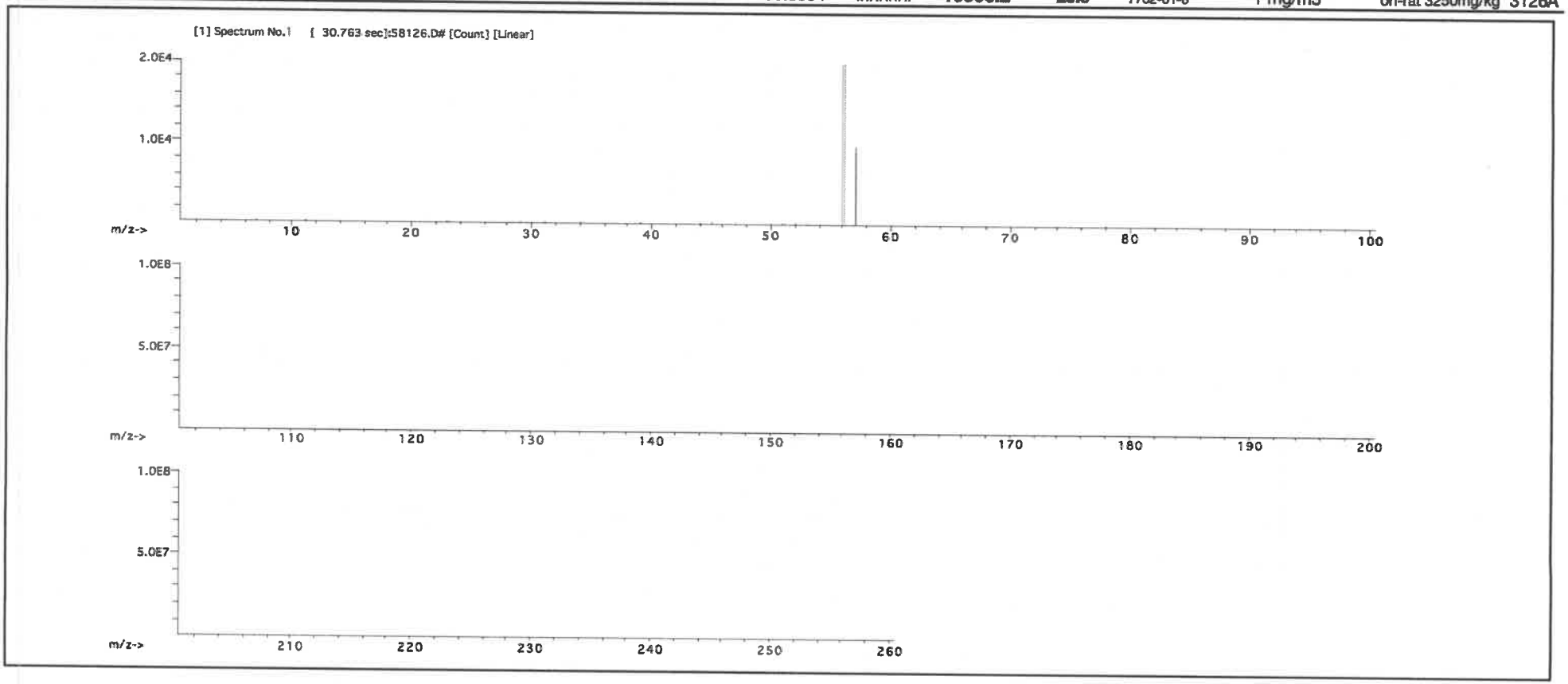
Part Number: 58126 R->1|B|2S
Lot Number: 011025
Description: Iron (Fe) M6140
Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	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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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	<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 Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R-> 1/13/25

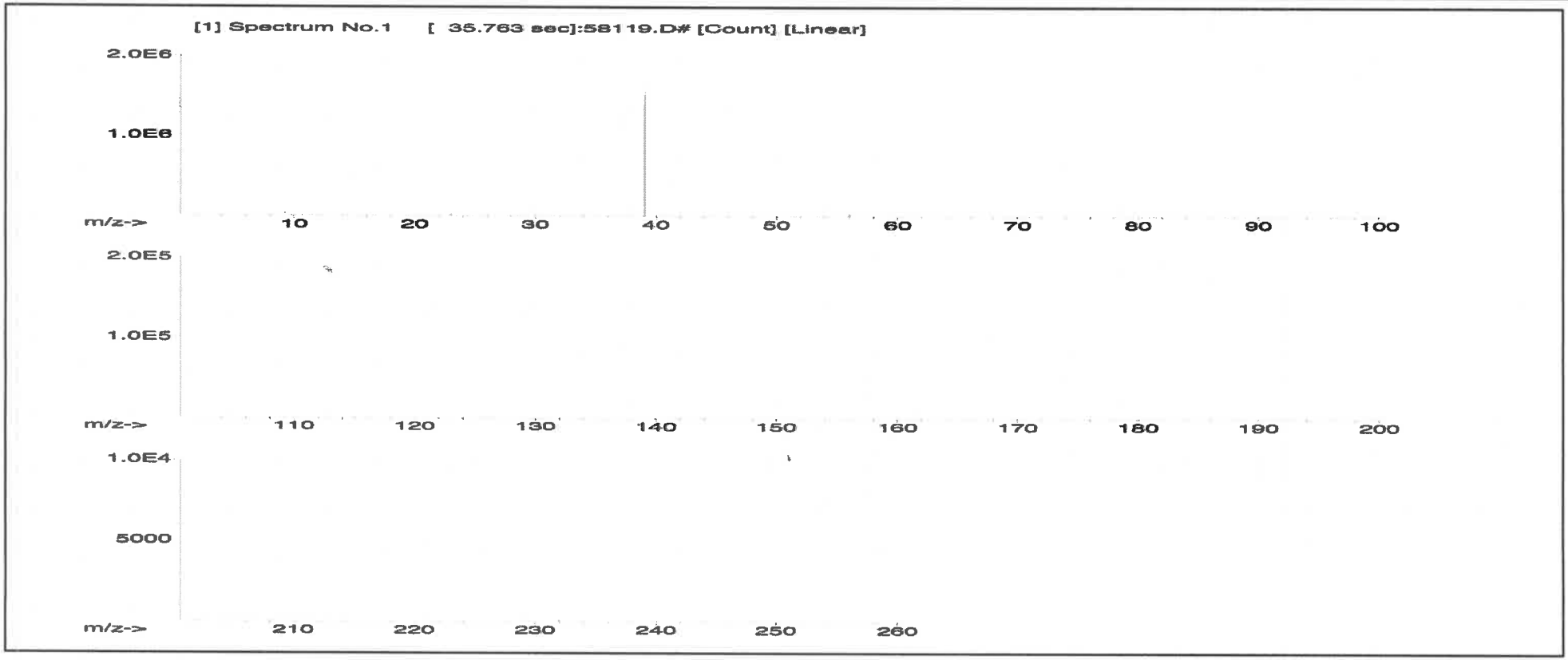
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 WEIGHT REPORT:

R->1/13/25

Part Number: 58111
Lot Number: 072424
Description: Sodium (Na)

MG144

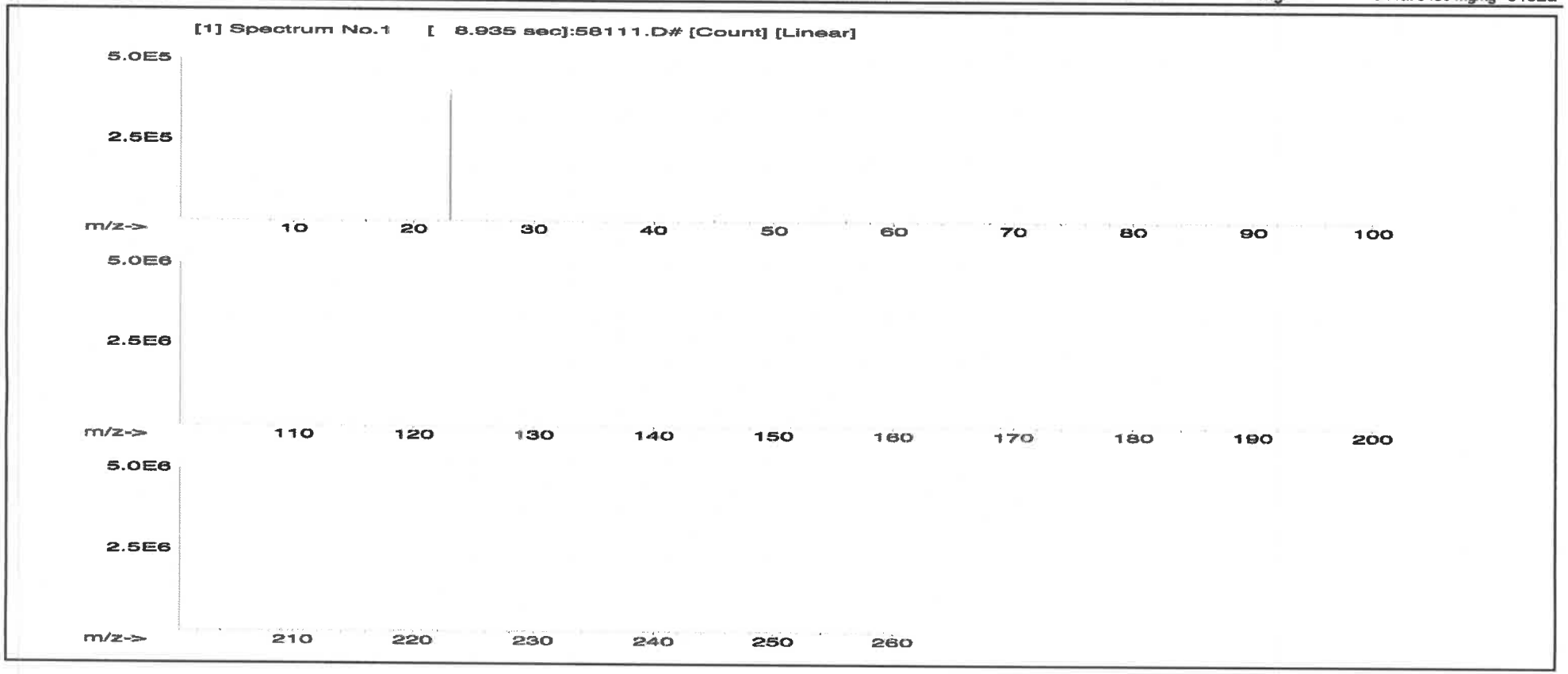
Expiration Date: 072427
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.2

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
5E-05	Balance Uncertainty		
0.10	Flask Uncertainty		

Formulated By: Benson Chan 072424

Reviewed By: Pedro L. Rentas 072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* 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

ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

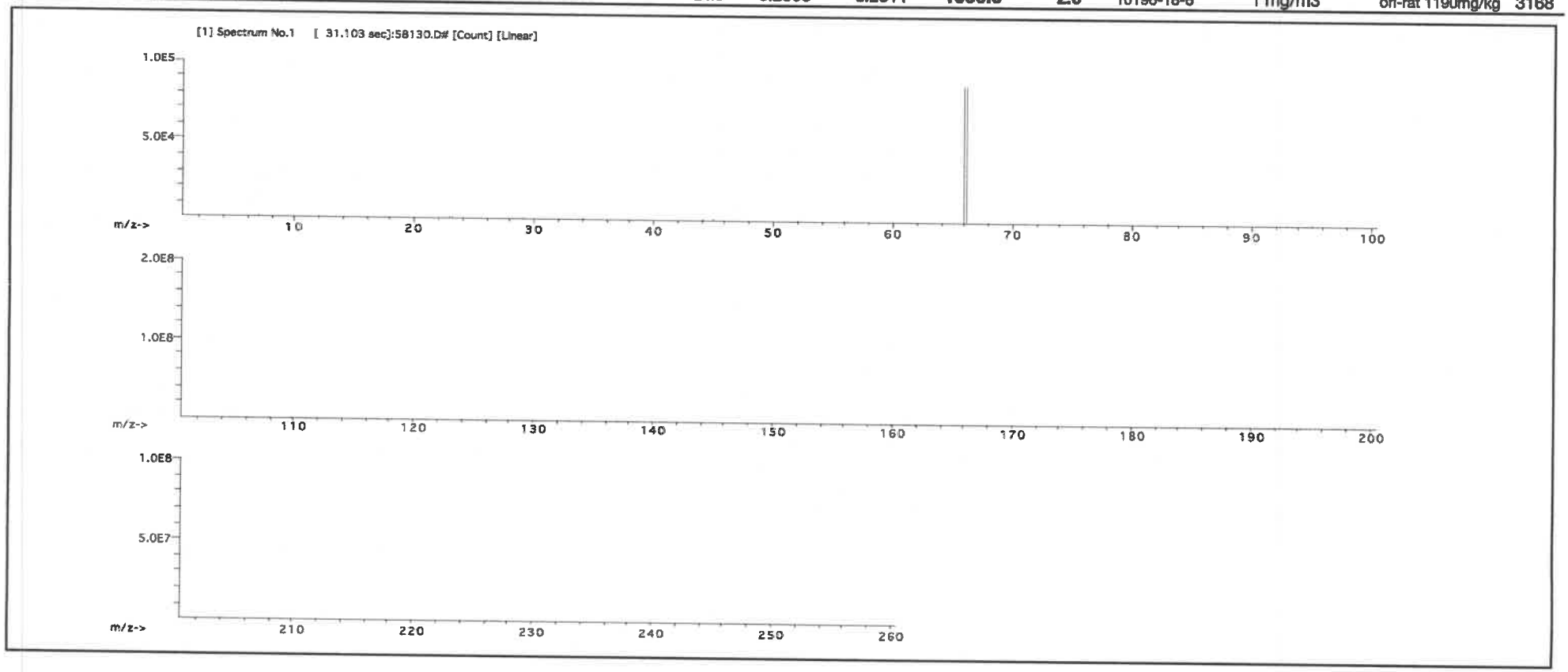
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
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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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

M615 MB

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO2)	<= 2 ppm	<2 ppm
Ammonium (NH_4)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO_3)	<= 0.2 ppm	0.1 ppm
Phosphate (PO_4)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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:	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.

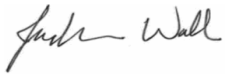
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-2
Lot Number:	U2-MEB733713
Matrix:	3% (w/v) Tartaric acid 1% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**500.0 ± 2.8 µg/mL**		

Density: 1.017 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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

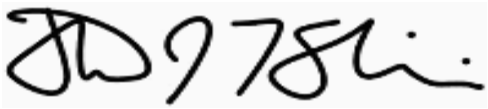
- Sealed TCT Bag Open Date: _____

- 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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

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

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.

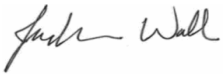
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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)

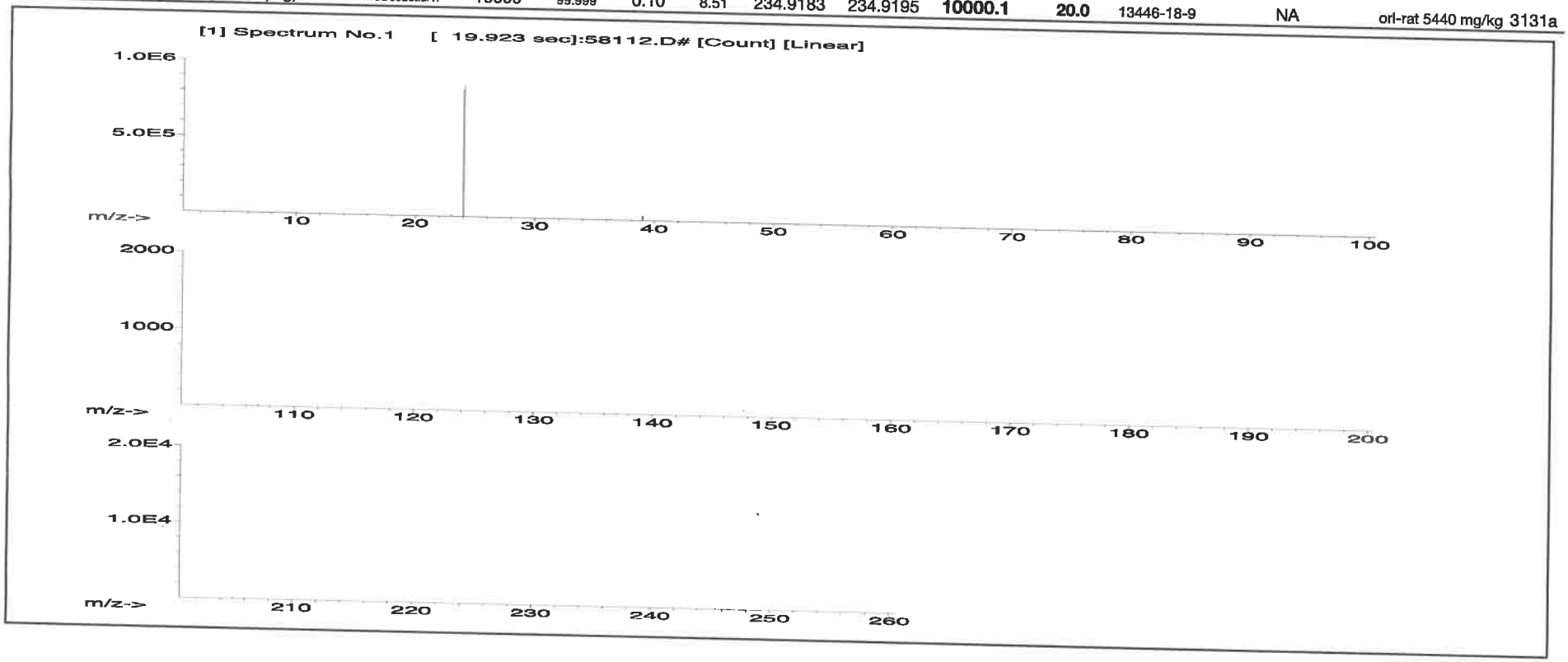
Expiration Date: 011528
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	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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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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info@inorganicventures.com

M6174
R->5/5/24

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:	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, Magnesium, Potassium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Zinc, Manganese, Vanadium, Cobalt, 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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 22, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFIED WEIGHT REPORT:

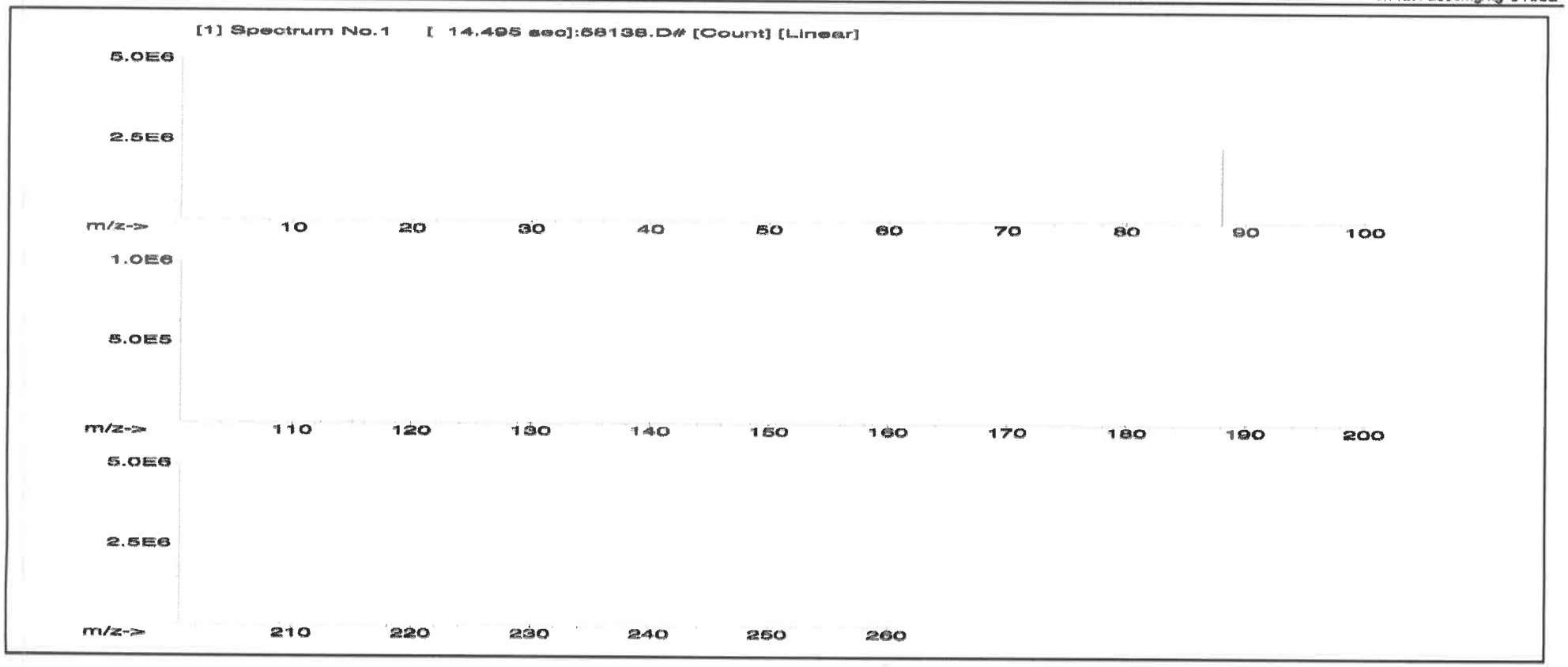
R->8/6/29

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.
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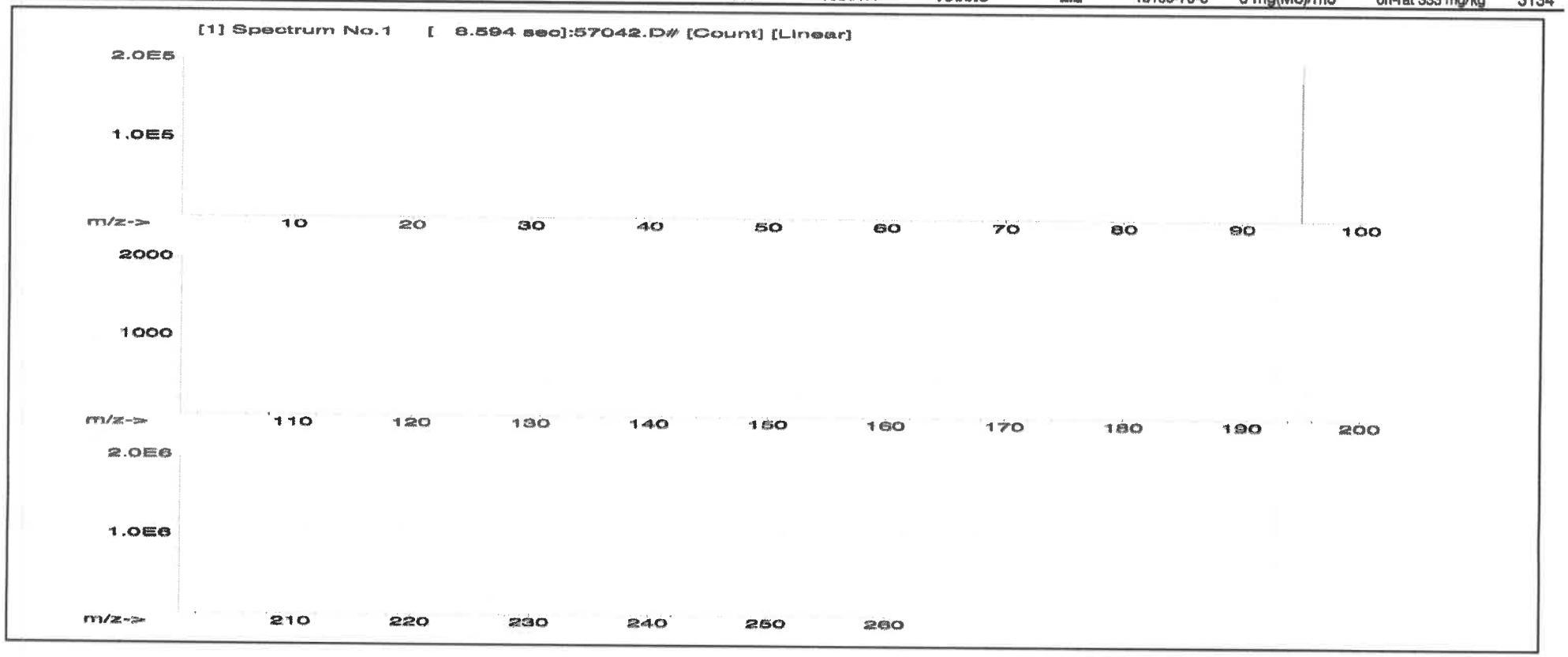
CERTIFIED WEIGHT REPORT:

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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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
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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:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).
Rev 1.0, 2/25/2025

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CERTIFIED WEIGHT REPORT:

R>8/6/28
M6178

Part Number:	**57082**		**Lot #**		
Lot Number:	**031525**	**Solvent:**	24014457	Nitric Acid	
Description:	**Lead (Pb)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	031528				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.10	Flask Uncertainty		

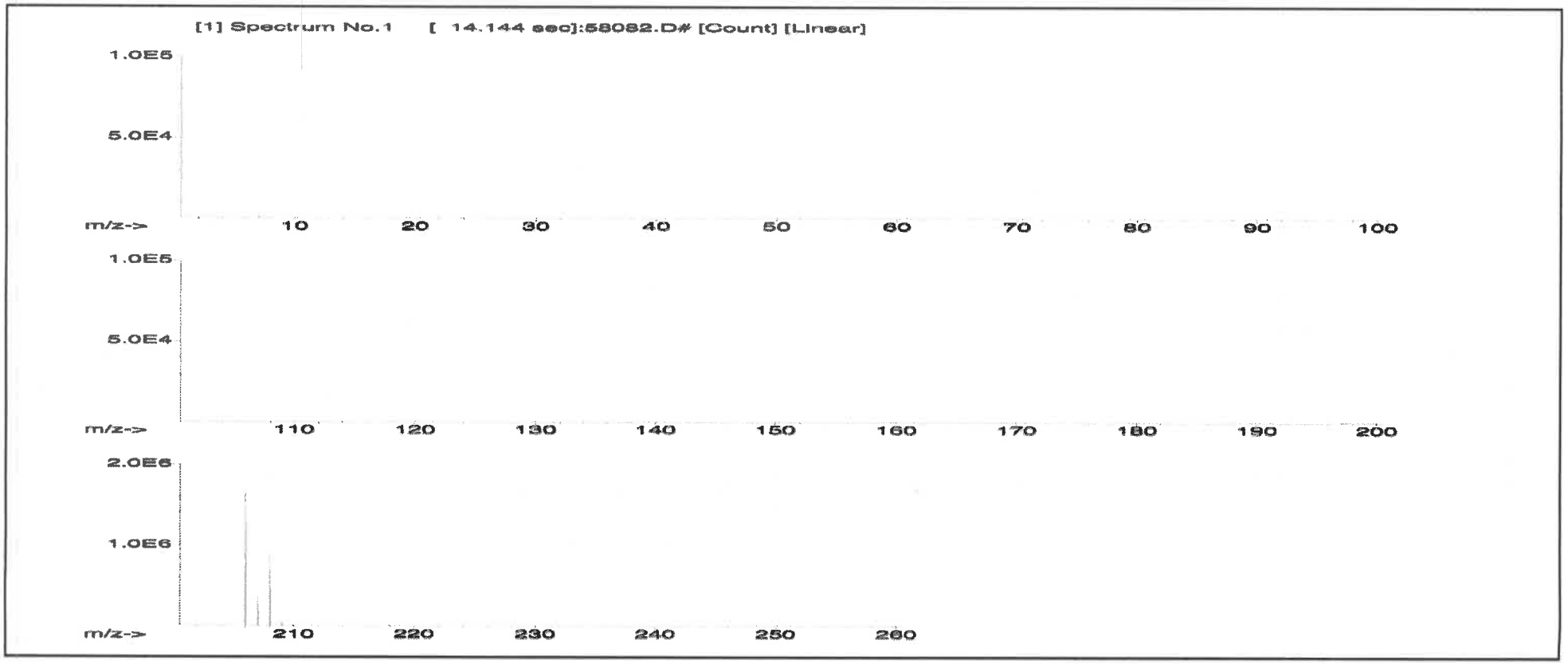
Giovanni Esposito

Formulated By:	Giovanni Esposito	031525

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031525

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	3.20015	3.20067	**1000.2**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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	<	0.004600	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.

R->03/06/24

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M6184

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

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APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
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(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Nitric Acid 69%
CMOS

M6187
R.D :- 08/08/25

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6200
R.0 → 08/25/25

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 07, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- May 07, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Thomas Kozikowski
Stock VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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 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

Absolute Standards, Inc.
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Certified Reference Material CRM

M6027

R1 8/05/24

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CERTIFIED WEIGHT REPORT:

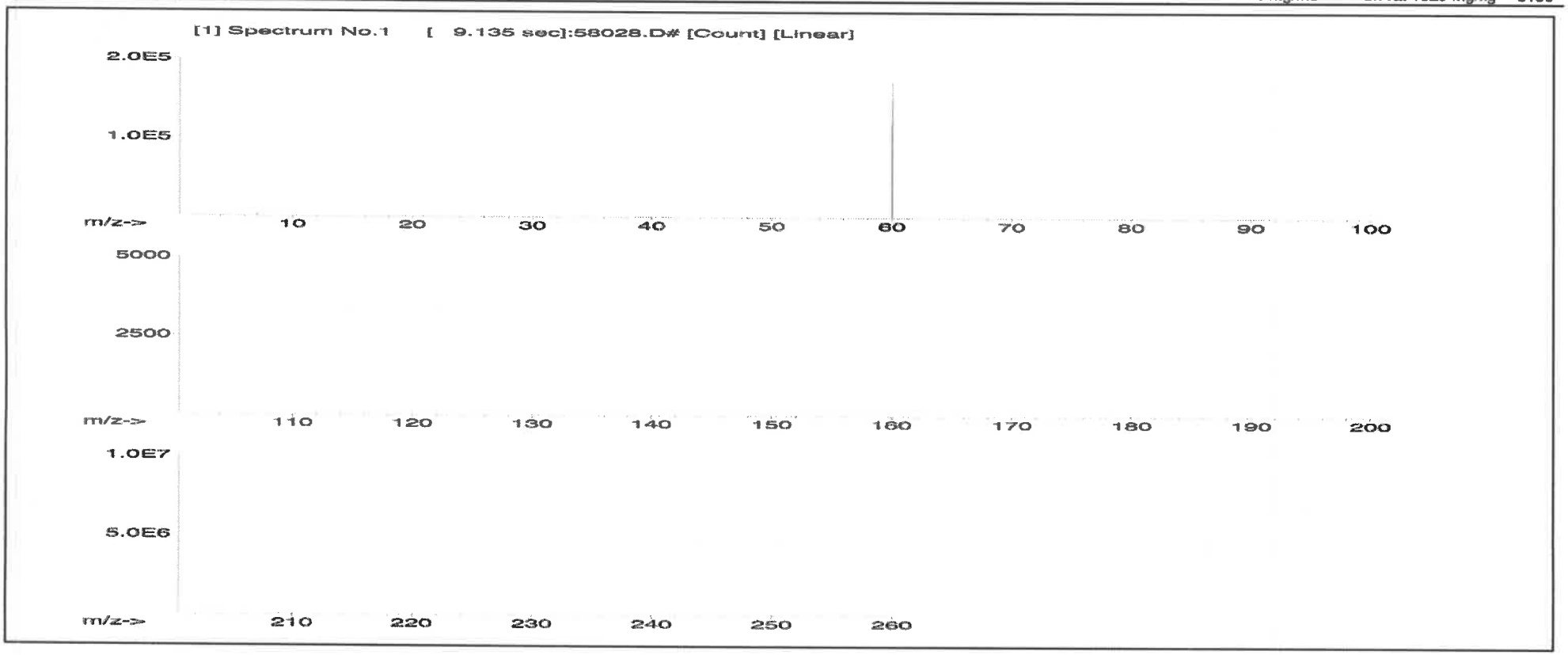
Part Number:	**57028**
Lot Number:	**062024**
Description:	**Nickel (Ni)**
Expiration Date:	062027
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB

Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty

Lot #	**Solvent:**		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

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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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	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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

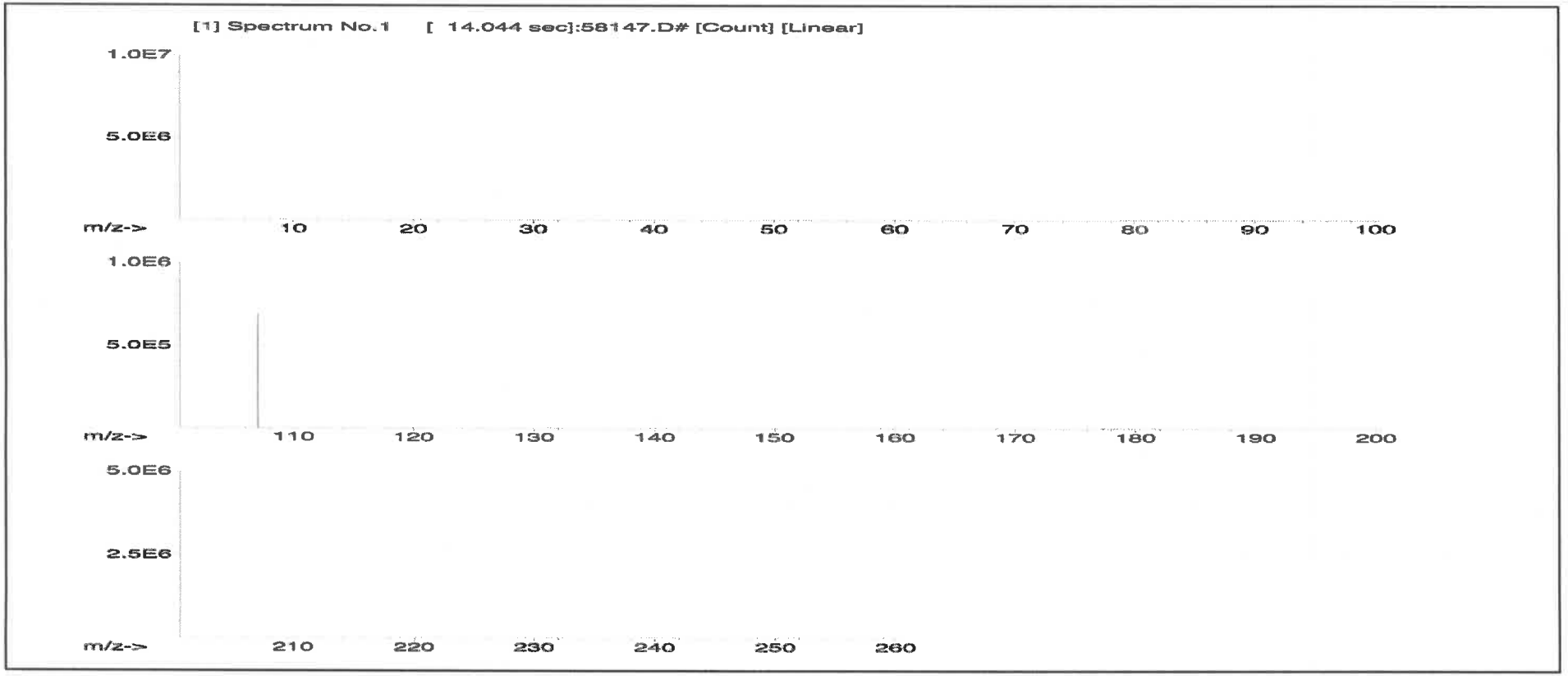
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	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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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.

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opened : 3/24/25

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CERTIFIED WEIGHT REPORT: M6160

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)

Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26

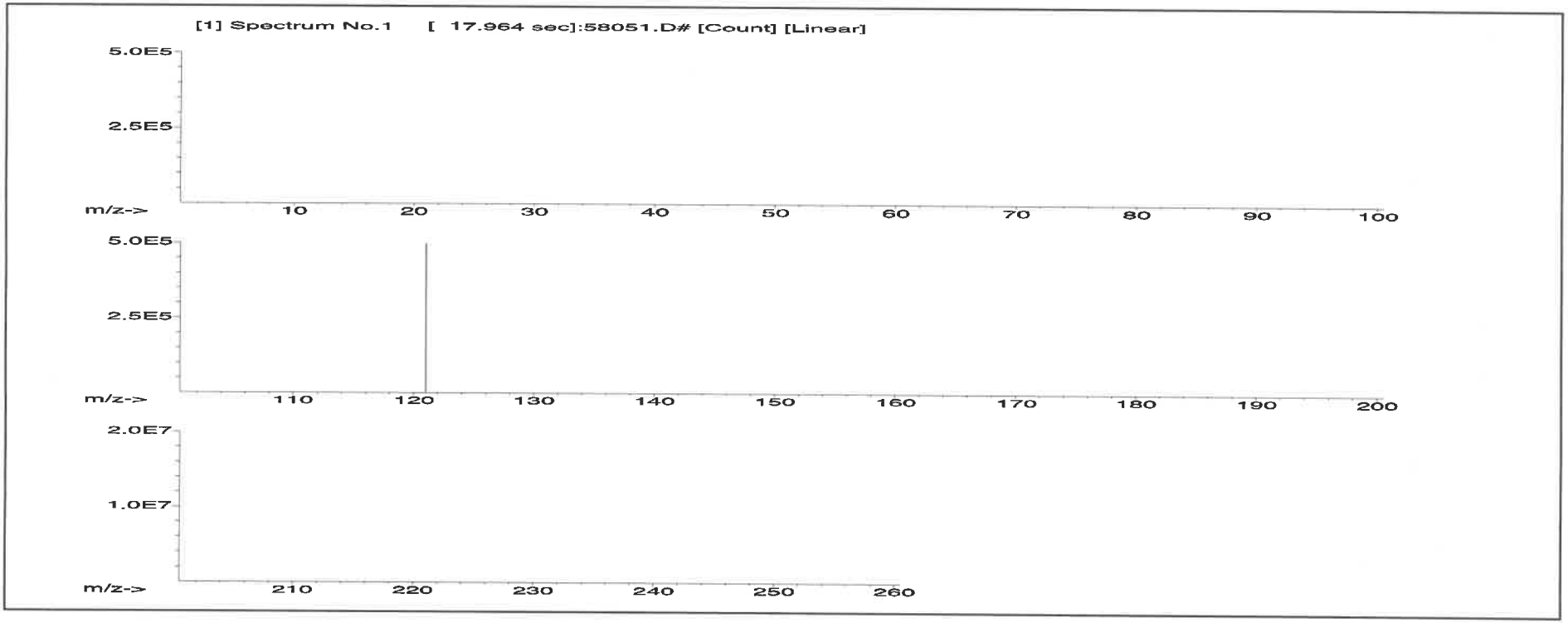
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 071724

Pedro Rentas
Reviewed By: Pedro L. Rentas 071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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AR-1539 Certificate Number
https://Absolutestandards.com

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Certified Reference Material CRM

M6023

R ! 8/5/24

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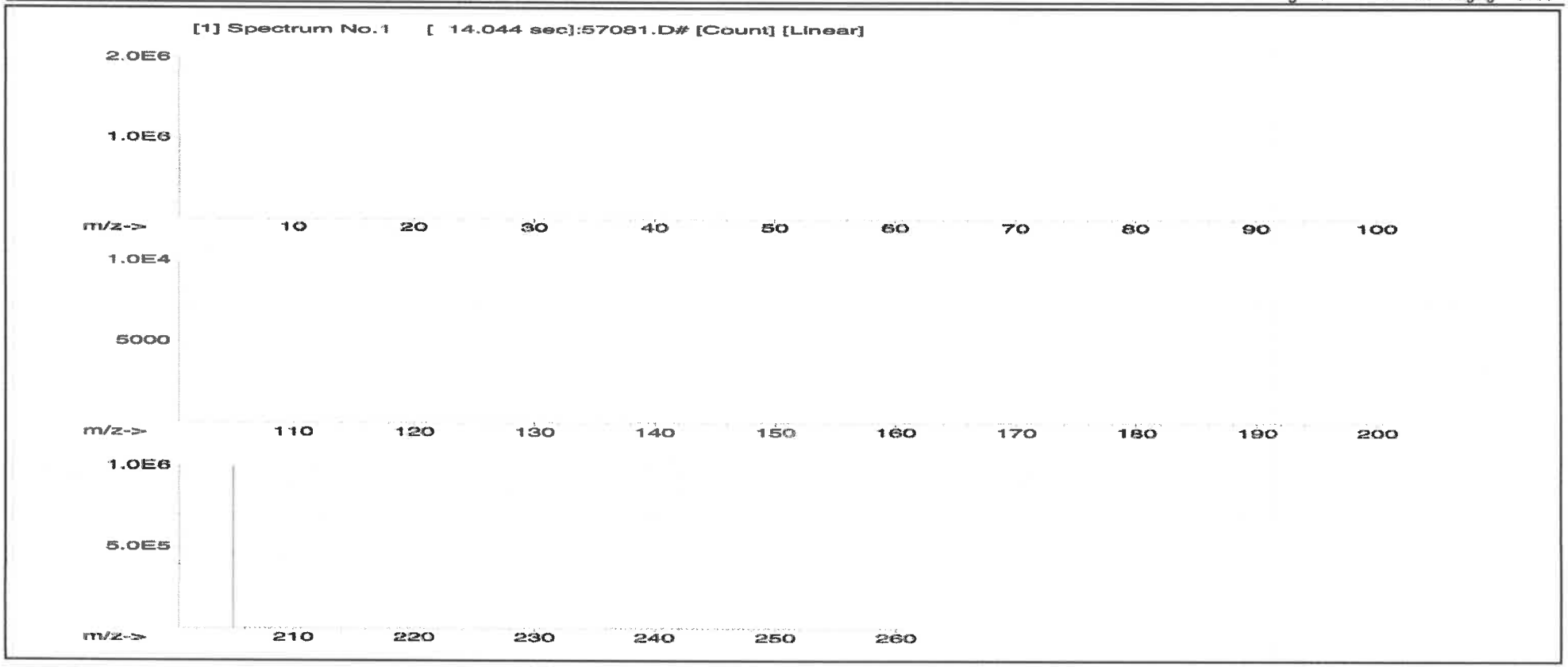
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
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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AR-1539 Certificate Number
https://Absolutestandards.com

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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	

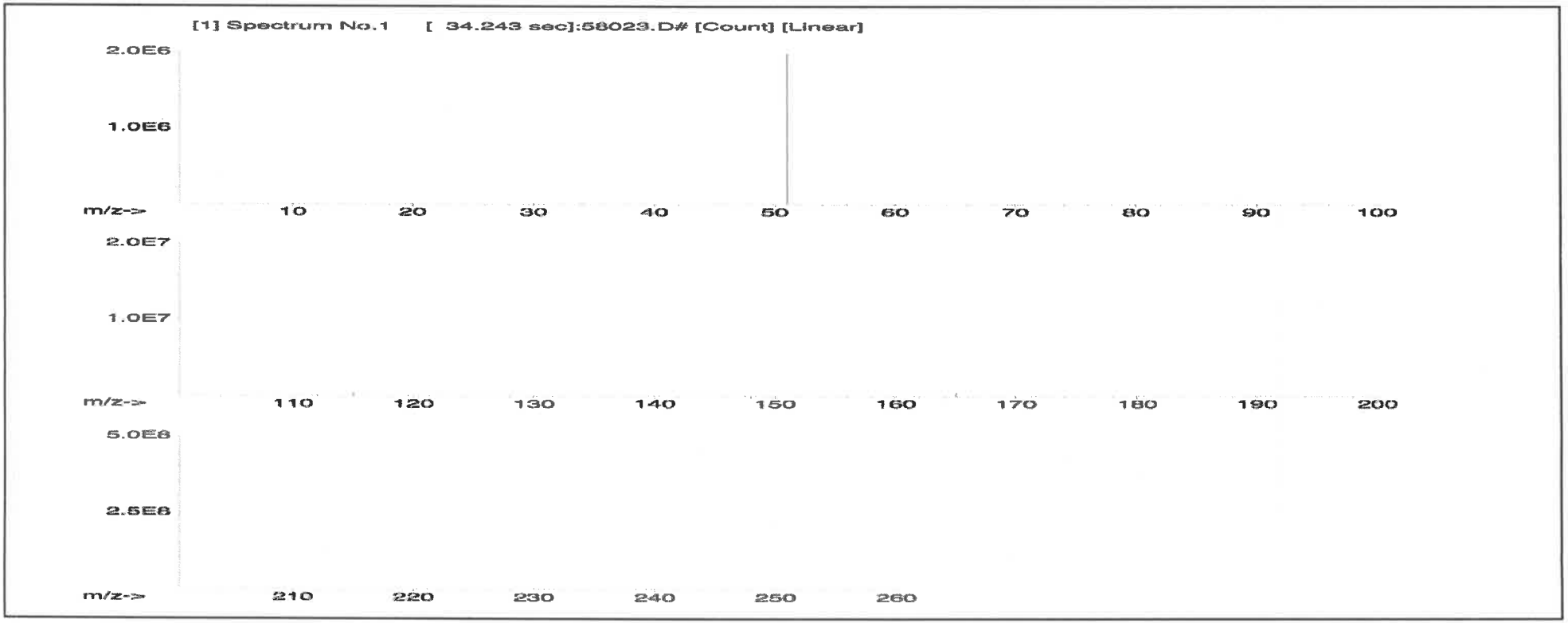
Aleah O'Brady

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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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

(T) = Target analyte

Physical Characterization:

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SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3422
QUOTE NO.
COC Number 2045128 Q3423

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY New York STATE: NY ZIP: 10158
ATTENTION: Rob Forstner
PHONE: 212-377-8721 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Port Richmond
PROJECT NO.: 60693795 LOCATION: Staten Isl
PROJECT MANAGER: Rob Forstner
e-mail: Robert.Forstner@aecom.com
PHONE: 11 FAX:

CLIENT BILLING INFORMATION

BILL TO: AECOM PO#:
ADDRESS: 11
CITY STATE: ZIP:
ATTENTION: Rob Forstner PHONE: 11

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☑ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1 SVOCs, 2 Pesticides TCL, 3 Hg, Metals, 4 PCBs, HexChrome, 5 Dioxin, 6 Grain Size, 7 TOCs, 8 VOCs, 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	PR132-FB2-20251021	A		X	10/21	13:30	1	X	X	X	X	X			X		
2.	PR132-S15-000008-20251021	S		X	10/21	9:00	11	X	X	X	X	X	X	X	X		
3.	Temp Blank	A			10/21		1	X	X	X	X	X			X		
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Jim Alderson	10/21/25 1730	1. 1635 10-21-25
2.		2.
3.	10-21-25 1740	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3422 AECO02
Client Name : AECOM
Client Contact : Rob Forstner
Invoice Name : AECOM
Invoice Contact : Rob Forstner

Order Date : 10/22/2025 11:11:00 AM
Project Name : AE1-CTY 3.2.Z-PR-DOCK
Receive DateTime : 10/21/2025 5:40:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3422-01	PR132-S15-000008-20251021	Solid	10/21/2025	09:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3422-02	PR132-FB2-20251021	Water	10/21/2025	13:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 10/22/25 1245

Received By :
Date / Time : 10/22/25 1245
Storage Area : VOA Refridgerator Room