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

DATA PACKAGE

METALS

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1109

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1109

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1109-01	TAPIAL1-MW04I-011525-00-T3
Q1109-02	TAPIAL1-MW04S-011525-00-T2
Q1109-04	TAP-TB-01-011525

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: 1/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions
Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Project # N/A
Chemtech Project # Q1109
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
3 Water samples were received on 01/16/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group5, Diesel Range Organics, Gasoline Range Organics, Hardness, Total, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, Oil and Grease, PESTICIDE Group1, PESTICIDE Group3, SVOC-TCL BNA -20, TOC and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6020B, 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 samples.
The Duplicate (TAPIAL1-MW04S-011525-00-T2MSD) analysis met criteria for all samples except for Silver due to Chemical Interference during Digestion Process.
The Matrix Spike (427MS) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike (TAPIAL1-MW04S-011525-00-T2MS) analysis met criteria for all samples except for Aluminum, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Iron, Potassium, Silver, Sodium and Vanadium due to Chemical Interference during Digestion process.
The Matrix Spike Duplicate (427MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate (TAPIAL1-MW04S-011525-00-T2MSD) analysis met criteria for all samples except for Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Iron, Potassium, Silver and Sodium 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 samples.

E. Additional Comments:

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Calculation for ICP-MS Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Calculation for Hg Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times DF$$

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

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_____

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1109 MATRIX: Water

METHOD: 6020B,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 samples.			
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 (427MS) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike (TAPIAL1-MW04S-011525-00-T2MS) analysis met criteria for all samples except for Aluminum, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Iron, Potassium, Silver, Sodium and Vanadium due to Chemical Interference during Digestion process. The Matrix Spike Duplicate (427MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate (TAPIAL1-MW04S-011525-00-T2MSD) analysis met criteria for all samples except for Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Iron, Potassium, Silver and Sodium 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 (TAPIAL1-MW04S-011525-00-T2MSD) analysis met criteria for all samples except for Silver due to Chemical Interference during Digestion Process.			
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:

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1109

	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:** 01/29/2025

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LAB CHRONICLE

OrderID:	Q1109	**OrderDate:**	1/16/2025 11:32:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1109-01	**TAPIAL1-MW04I-011 525-00-T3**	**Water**			**01/15/25**			**01/16/25**
			Mercury	7470A		01/16/25	01/17/25	
			Metals ICP-TAL	6020B		01/22/25	01/27/25	
Q1109-02	**TAPIAL1-MW04S-011 525-00-T2**	**Water**			**01/15/25**			**01/16/25**
			Mercury	7470A		01/16/25	01/17/25	
			Metals ICP-TAL	6020B		01/22/25	01/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1109 **Order ID:** Q1109

Client: Weston Solutions **Project ID:** Ft Meade Tipton Airfield Parcel RI - PO 01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TAPIAL1-MW04I-011525-00-T3									
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Aluminum	177		1.98	10.0	20.0	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Antimony	0.15	J	0.11	0.25	2.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Arsenic	0.59	J	0.090	0.25	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Barium	23.9		0.30	1.25	10.0	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Beryllium	0.19	J	0.16	0.25	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Calcium	9990		62.5	190	500	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Chromium	1.03	J	0.40	0.75	2.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Cobalt	19.2		0.062	0.25	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Copper	4.35		0.40	1.50	2.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Iron	318		9.60	25.0	50.0	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Lead	0.55	J	0.11	0.75	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Magnesium	3180		26.6	190	500	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Manganese	293		0.24	0.75	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Nickel	11.0		0.18	0.25	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Mercury	0.086	J	0.081	0.16	0.20	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Potassium	923		46.1	190	500	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Sodium	14500		85.8	190	500	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Thallium	0.11	J	0.085	0.50	1.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Vanadium	1.16	J	0.072	0.25	5.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Zinc	12.8		0.56	1.50	5.00	ug/L
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Hardness, Total	38000		266	1260	3310	ug/L
Client ID : TAPIAL1-MW04S-011525-00-T2									
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Aluminum	453		1.98	10.0	20.0	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Arsenic	0.75	J	0.090	0.25	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Barium	27.7		0.30	1.25	10.0	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Beryllium	0.19	J	0.16	0.25	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Calcium	11200		62.5	190	500	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Chromium	1.58	J	0.40	0.75	2.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Cobalt	21.4		0.062	0.25	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Copper	5.61		0.40	1.50	2.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Iron	665		9.60	25.0	50.0	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Lead	0.89	J	0.11	0.75	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Magnesium	3650		26.6	190	500	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Manganese	313		0.24	0.75	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Nickel	13.1		0.18	0.25	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Potassium	977		46.1	190	500	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Sodium	15200		85.8	190	500	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1109 **Order ID:** Q1109

Client: Weston Solutions **Project ID:** Ft Meade Tipton Airfield Parcel RI - PO 01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q1109-02	TAPIAL1-MW04S-011525-00-T:	Water	Thallium	0.090	J	0.085	0.50	1.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T:	Water	Vanadium	2.50	J	0.072	0.25	5.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T:	Water	Zinc	5.94		0.56	1.50	5.00	ug/L
Q1109-02	TAPIAL1-MW04S-011525-00-T:	Water	Hardness, Total	43000		266	1260	3310	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions	Date Collected:	01/15/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	01/16/25
Client Sample ID:	TAPIAL1-MW04I-011525-00-T3	SDG No.:	Q1109
Lab Sample ID:	Q1109-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	177	N	1	1.98	10.0	20.0	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-36-0	Antimony	0.15	J	1	0.11	0.25	2.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-38-2	Arsenic	0.59	JN	1	0.090	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-39-3	Barium	23.9	N	1	0.30	1.25	10.0	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-41-7	Beryllium	0.19	JN	1	0.16	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-43-9	Cadmium	0.50	UN	1	0.30	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-70-2	Calcium	9990	N	1	62.5	190	500	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-47-3	Chromium	1.03	JN	1	0.40	0.75	2.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-48-4	Cobalt	19.2		1	0.062	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-50-8	Copper	4.35		1	0.40	1.50	2.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
Hardness	Hardness, Total	38000		1	266	1260	3310	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7439-89-6	Iron	318	N	1	9.60	25.0	50.0	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7439-92-1	Lead	0.55	J	1	0.11	0.75	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7439-95-4	Magnesium	3180		1	26.6	190	500	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7439-96-5	Manganese	293		1	0.24	0.75	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7439-97-6	Mercury	0.086	JN	1	0.081	0.16	0.20	ug/L	01/16/25 14:40	01/17/25 12:40	SW7470A	
7440-02-0	Nickel	11.0		1	0.18	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-09-7	Potassium	923	N	1	46.1	190	500	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7782-49-2	Selenium	4.50	U	1	1.38	4.50	5.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-22-4	Silver	0.50	UN*	1	0.077	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-23-5	Sodium	14500	N	1	85.8	190	500	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-28-0	Thallium	0.11	J	1	0.085	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-62-2	Vanadium	1.16	JN	1	0.072	0.25	5.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A
7440-66-6	Zinc	12.8		1	0.56	1.50	5.00	ug/L	01/22/25 10:05	01/27/25 19:07	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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

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

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	01/15/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	01/16/25
Client Sample ID:	TAPIAL1-MW04S-011525-00-T2	SDG No.:	Q1109
Lab Sample ID:	Q1109-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	453	N	1	1.98	10.0	20.0	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-36-0	Antimony	0.25	U	1	0.11	0.25	2.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-38-2	Arsenic	0.75	JN	1	0.090	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-39-3	Barium	27.7	N	1	0.30	1.25	10.0	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-41-7	Beryllium	0.19	JN	1	0.16	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-43-9	Cadmium	0.50	UN	1	0.30	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-70-2	Calcium	11200	N	1	62.5	190	500	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-47-3	Chromium	1.58	JN	1	0.40	0.75	2.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-48-4	Cobalt	21.4		1	0.062	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-50-8	Copper	5.61		1	0.40	1.50	2.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
Hardness	Hardness, Total	43000		1	266	1260	3310	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7439-89-6	Iron	665	N	1	9.60	25.0	50.0	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7439-92-1	Lead	0.89	J	1	0.11	0.75	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7439-95-4	Magnesium	3650		1	26.6	190	500	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7439-96-5	Manganese	313		1	0.24	0.75	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7439-97-6	Mercury	0.16	UN	1	0.081	0.16	0.20	ug/L	01/16/25 14:40	01/17/25 12:42	SW7470A	
7440-02-0	Nickel	13.1		1	0.18	0.25	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-09-7	Potassium	977	N	1	46.1	190	500	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7782-49-2	Selenium	4.50	U	1	1.38	4.50	5.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-22-4	Silver	0.50	UN*	1	0.077	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-23-5	Sodium	15200	N	1	85.8	190	500	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-28-0	Thallium	0.090	J	1	0.085	0.50	1.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-62-2	Vanadium	2.50	JN	1	0.072	0.25	5.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A
7440-66-6	Zinc	5.94		1	0.56	1.50	5.00	ug/L	01/22/25 10:05	01/27/25 19:10	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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

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

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
ICV60	Mercury	4.27	4.0	107	90 - 110	CV	01/17/2025	11:58	LB134324

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
CCV44	Mercury	5.19	5.0	104	90 - 110	CV	01/17/2025	12:03	LB134324
CCV45	Mercury	4.88	5.0	98	90 - 110	CV	01/17/2025	12:35	LB134324
CCV46	Mercury	5.33	5.0	106	90 - 110	CV	01/17/2025	12:49	LB134324

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
ICV01	Aluminum	453	500	91	90 - 110	P	01/27/2025	15:30	LB134439
	Antimony	196	200	98	90 - 110	P	01/27/2025	15:30	LB134439
	Arsenic	192	200	96	90 - 110	P	01/27/2025	15:30	LB134439
	Barium	97.2	100	97	90 - 110	P	01/27/2025	15:30	LB134439
	Beryllium	90.4	100	90	90 - 110	P	01/27/2025	15:30	LB134439
	Cadmium	98.2	100	98	90 - 110	P	01/27/2025	15:30	LB134439
	Calcium	2030	2000	102	90 - 110	P	01/27/2025	15:30	LB134439
	Chromium	95.3	100	95	90 - 110	P	01/27/2025	15:30	LB134439
	Cobalt	97.1	100	97	90 - 110	P	01/27/2025	15:30	LB134439
	Copper	104	100	104	90 - 110	P	01/27/2025	15:30	LB134439
	Iron	1960	2000	98	90 - 110	P	01/27/2025	15:30	LB134439
	Lead	195	200	98	90 - 110	P	01/27/2025	15:30	LB134439
	Magnesium	1110	1200	93	90 - 110	P	01/27/2025	15:30	LB134439
	Manganese	95.9	100	96	90 - 110	P	01/27/2025	15:30	LB134439
	Nickel	105	110	95	90 - 110	P	01/27/2025	15:30	LB134439
	Potassium	1820	2000	91	90 - 110	P	01/27/2025	15:30	LB134439
	Selenium	200	200	100	90 - 110	P	01/27/2025	15:30	LB134439
	Silver	46.6	50.0	93	90 - 110	P	01/27/2025	15:30	LB134439
	Sodium	1890	2000	94	90 - 110	P	01/27/2025	15:30	LB134439
	Thallium	191	210	91	90 - 110	P	01/27/2025	15:30	LB134439
	Vanadium	92.5	100	92	90 - 110	P	01/27/2025	15:30	LB134439
	Zinc	200	200	100	90 - 110	P	01/27/2025	15:30	LB134439

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
LLICV	Aluminum	16.7	20.0	84	80 - 120	P	01/27/2025	15:35	LB134439
	Antimony	1.81	2.0	90	80 - 120	P	01/27/2025	15:35	LB134439
	Arsenic	0.87	1.0	87	80 - 120	P	01/27/2025	15:35	LB134439
	Barium	9.14	10.0	91	80 - 120	P	01/27/2025	15:35	LB134439
	Beryllium	0.86	1.0	86	80 - 120	P	01/27/2025	15:35	LB134439
	Cadmium	0.93	1.0	93	80 - 120	P	01/27/2025	15:35	LB134439
	Calcium	453	500	91	80 - 120	P	01/27/2025	15:35	LB134439
	Chromium	1.86	2.0	93	80 - 120	P	01/27/2025	15:35	LB134439
	Cobalt	0.97	1.0	97	80 - 120	P	01/27/2025	15:35	LB134439
	Copper	2.01	2.0	100	80 - 120	P	01/27/2025	15:35	LB134439
	Iron	47.6	50.0	95	80 - 120	P	01/27/2025	15:35	LB134439
	Lead	0.85	1.0	85	80 - 120	P	01/27/2025	15:35	LB134439
	Magnesium	483	500	97	80 - 120	P	01/27/2025	15:35	LB134439
	Manganese	1.01	1.0	101	80 - 120	P	01/27/2025	15:35	LB134439
	Nickel	1.00	1.0	100	80 - 120	P	01/27/2025	15:35	LB134439
	Potassium	451	500	90	80 - 120	P	01/27/2025	15:35	LB134439
	Selenium	4.14	5.0	83	80 - 120	P	01/27/2025	15:35	LB134439
	Silver	0.91	1.0	91	80 - 120	P	01/27/2025	15:35	LB134439
	Sodium	469	500	94	80 - 120	P	01/27/2025	15:35	LB134439
	Thallium	0.85	1.0	85	80 - 120	P	01/27/2025	15:35	LB134439
	Vanadium	4.61	5.0	92	80 - 120	P	01/27/2025	15:35	LB134439
	Zinc	4.62	5.0	92	80 - 120	P	01/27/2025	15:35	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
CCV01	Aluminum	51000	50000	102	90 - 110	P	01/27/2025	15:48	LB134439
	Antimony	506	500	101	90 - 110	P	01/27/2025	15:48	LB134439
	Arsenic	503	500	101	90 - 110	P	01/27/2025	15:48	LB134439
	Barium	2550	2500	102	90 - 110	P	01/27/2025	15:48	LB134439
	Beryllium	529	500	106	90 - 110	P	01/27/2025	15:48	LB134439
	Cadmium	469	500	94	90 - 110	P	01/27/2025	15:48	LB134439
	Calcium	250000	250000	100	90 - 110	P	01/27/2025	15:48	LB134439
	Chromium	489	500	98	90 - 110	P	01/27/2025	15:48	LB134439
	Cobalt	508	500	102	90 - 110	P	01/27/2025	15:48	LB134439
	Copper	4950	5000	99	90 - 110	P	01/27/2025	15:48	LB134439
	Iron	128000	125000	103	90 - 110	P	01/27/2025	15:48	LB134439
	Lead	2610	2500	104	90 - 110	P	01/27/2025	15:48	LB134439
	Magnesium	255000	250000	102	90 - 110	P	01/27/2025	15:48	LB134439
	Manganese	5100	5000	102	90 - 110	P	01/27/2025	15:48	LB134439
	Nickel	495	500	99	90 - 110	P	01/27/2025	15:48	LB134439
	Potassium	125000	125000	100	90 - 110	P	01/27/2025	15:48	LB134439
	Selenium	494	500	99	90 - 110	P	01/27/2025	15:48	LB134439
	Silver	491	500	98	90 - 110	P	01/27/2025	15:48	LB134439
	Sodium	256000	250000	102	90 - 110	P	01/27/2025	15:48	LB134439
	Thallium	518	500	104	90 - 110	P	01/27/2025	15:48	LB134439
	Vanadium	498	500	100	90 - 110	P	01/27/2025	15:48	LB134439
	Zinc	4700	5000	94	90 - 110	P	01/27/2025	15:48	LB134439
CCV02	Aluminum	50300	50000	101	90 - 110	P	01/27/2025	16:28	LB134439
	Antimony	500	500	100	90 - 110	P	01/27/2025	16:28	LB134439
	Arsenic	501	500	100	90 - 110	P	01/27/2025	16:28	LB134439
	Barium	2520	2500	101	90 - 110	P	01/27/2025	16:28	LB134439
	Beryllium	508	500	102	90 - 110	P	01/27/2025	16:28	LB134439
	Cadmium	458	500	92	90 - 110	P	01/27/2025	16:28	LB134439
	Calcium	247000	250000	99	90 - 110	P	01/27/2025	16:28	LB134439
	Chromium	491	500	98	90 - 110	P	01/27/2025	16:28	LB134439
	Cobalt	512	500	102	90 - 110	P	01/27/2025	16:28	LB134439
	Copper	4960	5000	99	90 - 110	P	01/27/2025	16:28	LB134439
	Iron	128000	125000	102	90 - 110	P	01/27/2025	16:28	LB134439
	Lead	2590	2500	104	90 - 110	P	01/27/2025	16:28	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
CCV02	Magnesium	254000	250000	102	90 - 110	P	01/27/2025	16:28	LB134439
	Manganese	5140	5000	103	90 - 110	P	01/27/2025	16:28	LB134439
	Nickel	497	500	99	90 - 110	P	01/27/2025	16:28	LB134439
	Potassium	125000	125000	100	90 - 110	P	01/27/2025	16:28	LB134439
	Selenium	491	500	98	90 - 110	P	01/27/2025	16:28	LB134439
	Silver	479	500	96	90 - 110	P	01/27/2025	16:28	LB134439
	Sodium	255000	250000	102	90 - 110	P	01/27/2025	16:28	LB134439
	Thallium	519	500	104	90 - 110	P	01/27/2025	16:28	LB134439
	Vanadium	502	500	100	90 - 110	P	01/27/2025	16:28	LB134439
	Zinc	4760	5000	95	90 - 110	P	01/27/2025	16:28	LB134439
CCV03	Aluminum	50900	50000	102	90 - 110	P	01/27/2025	18:29	LB134439
	Antimony	509	500	102	90 - 110	P	01/27/2025	18:29	LB134439
	Arsenic	498	500	100	90 - 110	P	01/27/2025	18:29	LB134439
	Barium	2550	2500	102	90 - 110	P	01/27/2025	18:29	LB134439
	Beryllium	496	500	99	90 - 110	P	01/27/2025	18:29	LB134439
	Cadmium	462	500	92	90 - 110	P	01/27/2025	18:29	LB134439
	Calcium	252000	250000	101	90 - 110	P	01/27/2025	18:29	LB134439
	Chromium	491	500	98	90 - 110	P	01/27/2025	18:29	LB134439
	Cobalt	509	500	102	90 - 110	P	01/27/2025	18:29	LB134439
	Copper	4960	5000	99	90 - 110	P	01/27/2025	18:29	LB134439
	Iron	130000	125000	104	90 - 110	P	01/27/2025	18:29	LB134439
	Lead	2640	2500	106	90 - 110	P	01/27/2025	18:29	LB134439
	Magnesium	254000	250000	102	90 - 110	P	01/27/2025	18:29	LB134439
	Manganese	5190	5000	104	90 - 110	P	01/27/2025	18:29	LB134439
	Nickel	499	500	100	90 - 110	P	01/27/2025	18:29	LB134439
	Potassium	125000	125000	100	90 - 110	P	01/27/2025	18:29	LB134439
	Selenium	495	500	99	90 - 110	P	01/27/2025	18:29	LB134439
	Silver	488	500	98	90 - 110	P	01/27/2025	18:29	LB134439
	Sodium	254000	250000	102	90 - 110	P	01/27/2025	18:29	LB134439
	Thallium	528	500	106	90 - 110	P	01/27/2025	18:29	LB134439
	Vanadium	502	500	100	90 - 110	P	01/27/2025	18:29	LB134439
	Zinc	4750	5000	95	90 - 110	P	01/27/2025	18:29	LB134439
CCV04	Aluminum	50500	50000	101	90 - 110	P	01/27/2025	18:51	LB134439
	Antimony	504	500	101	90 - 110	P	01/27/2025	18:51	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
CCV04	Arsenic	495	500	99	90 - 110	P	01/27/2025	18:51	LB134439
	Barium	2520	2500	101	90 - 110	P	01/27/2025	18:51	LB134439
	Beryllium	496	500	99	90 - 110	P	01/27/2025	18:51	LB134439
	Cadmium	459	500	92	90 - 110	P	01/27/2025	18:51	LB134439
	Calcium	248000	250000	99	90 - 110	P	01/27/2025	18:51	LB134439
	Chromium	486	500	97	90 - 110	P	01/27/2025	18:51	LB134439
	Cobalt	513	500	103	90 - 110	P	01/27/2025	18:51	LB134439
	Copper	4930	5000	99	90 - 110	P	01/27/2025	18:51	LB134439
	Iron	128000	125000	102	90 - 110	P	01/27/2025	18:51	LB134439
	Lead	2610	2500	104	90 - 110	P	01/27/2025	18:51	LB134439
	Magnesium	251000	250000	100	90 - 110	P	01/27/2025	18:51	LB134439
	Manganese	5120	5000	102	90 - 110	P	01/27/2025	18:51	LB134439
	Nickel	494	500	99	90 - 110	P	01/27/2025	18:51	LB134439
	Potassium	124000	125000	100	90 - 110	P	01/27/2025	18:51	LB134439
	Selenium	485	500	97	90 - 110	P	01/27/2025	18:51	LB134439
	Silver	481	500	96	90 - 110	P	01/27/2025	18:51	LB134439
	Sodium	252000	250000	101	90 - 110	P	01/27/2025	18:51	LB134439
	Thallium	525	500	105	90 - 110	P	01/27/2025	18:51	LB134439
	Vanadium	497	500	99	90 - 110	P	01/27/2025	18:51	LB134439
	Zinc	4710	5000	94	90 - 110	P	01/27/2025	18:51	LB134439
CCV05	Aluminum	50800	50000	102	90 - 110	P	01/27/2025	19:30	LB134439
	Antimony	506	500	101	90 - 110	P	01/27/2025	19:30	LB134439
	Arsenic	496	500	99	90 - 110	P	01/27/2025	19:30	LB134439
	Barium	2520	2500	101	90 - 110	P	01/27/2025	19:30	LB134439
	Beryllium	497	500	99	90 - 110	P	01/27/2025	19:30	LB134439
	Cadmium	461	500	92	90 - 110	P	01/27/2025	19:30	LB134439
	Calcium	249000	250000	100	90 - 110	P	01/27/2025	19:30	LB134439
	Chromium	489	500	98	90 - 110	P	01/27/2025	19:30	LB134439
	Cobalt	513	500	103	90 - 110	P	01/27/2025	19:30	LB134439
	Copper	4990	5000	100	90 - 110	P	01/27/2025	19:30	LB134439
	Iron	129000	125000	104	90 - 110	P	01/27/2025	19:30	LB134439
	Lead	2590	2500	103	90 - 110	P	01/27/2025	19:30	LB134439
	Magnesium	254000	250000	102	90 - 110	P	01/27/2025	19:30	LB134439
	Manganese	5230	5000	104	90 - 110	P	01/27/2025	19:30	LB134439

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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
CCV05	Nickel	497	500	99	90 - 110	P	01/27/2025	19:30	LB134439
	Potassium	125000	125000	100	90 - 110	P	01/27/2025	19:30	LB134439
	Selenium	487	500	98	90 - 110	P	01/27/2025	19:30	LB134439
	Silver	483	500	96	90 - 110	P	01/27/2025	19:30	LB134439
	Sodium	254000	250000	102	90 - 110	P	01/27/2025	19:30	LB134439
	Thallium	519	500	104	90 - 110	P	01/27/2025	19:30	LB134439
	Vanadium	500	500	100	90 - 110	P	01/27/2025	19:30	LB134439
	Zinc	4750	5000	95	90 - 110	P	01/27/2025	19:30	LB134439
CCV06	Aluminum	51400	50000	103	90 - 110	P	01/27/2025	20:06	LB134439
	Antimony	517	500	103	90 - 110	P	01/27/2025	20:06	LB134439
	Arsenic	497	500	100	90 - 110	P	01/27/2025	20:06	LB134439
	Barium	2600	2500	104	90 - 110	P	01/27/2025	20:06	LB134439
	Beryllium	498	500	100	90 - 110	P	01/27/2025	20:06	LB134439
	Cadmium	472	500	94	90 - 110	P	01/27/2025	20:06	LB134439
	Calcium	256000	250000	102	90 - 110	P	01/27/2025	20:06	LB134439
	Chromium	496	500	99	90 - 110	P	01/27/2025	20:06	LB134439
	Cobalt	520	500	104	90 - 110	P	01/27/2025	20:06	LB134439
	Copper	5000	5000	100	90 - 110	P	01/27/2025	20:06	LB134439
	Iron	132000	125000	105	90 - 110	P	01/27/2025	20:06	LB134439
	Lead	2670	2500	107	90 - 110	P	01/27/2025	20:06	LB134439
	Magnesium	254000	250000	102	90 - 110	P	01/27/2025	20:06	LB134439
	Manganese	5260	5000	105	90 - 110	P	01/27/2025	20:06	LB134439
	Nickel	504	500	101	90 - 110	P	01/27/2025	20:06	LB134439
	Potassium	127000	125000	102	90 - 110	P	01/27/2025	20:06	LB134439
	Selenium	496	500	99	90 - 110	P	01/27/2025	20:06	LB134439
	Silver	494	500	99	90 - 110	P	01/27/2025	20:06	LB134439
	Sodium	257000	250000	103	90 - 110	P	01/27/2025	20:06	LB134439
	Thallium	535	500	107	90 - 110	P	01/27/2025	20:06	LB134439
	Vanadium	506	500	101	90 - 110	P	01/27/2025	20:06	LB134439
	Zinc	4830	5000	97	90 - 110	P	01/27/2025	20:06	LB134439

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

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	0.21	0.2	104	40 - 160	CV	01/17/2025	12:07	LB134324
CRI	Aluminum	18.0	20.0	90	70 - 130	P	01/27/2025	15:54	LB134439
	Antimony	1.85	2.0	92	70 - 130	P	01/27/2025	15:54	LB134439
	Arsenic	1.08	1.0	108	70 - 130	P	01/27/2025	15:54	LB134439
	Barium	9.39	10.0	94	70 - 130	P	01/27/2025	15:54	LB134439
	Beryllium	0.94	1.0	94	70 - 130	P	01/27/2025	15:54	LB134439
	Cadmium	0.91	1.0	91	70 - 130	P	01/27/2025	15:54	LB134439
	Calcium	457	500	91	70 - 130	P	01/27/2025	15:54	LB134439
	Chromium	1.89	2.0	94	70 - 130	P	01/27/2025	15:54	LB134439
	Cobalt	1.01	1.0	101	50 - 150	P	01/27/2025	15:54	LB134439
	Copper	2.03	2.0	102	70 - 130	P	01/27/2025	15:54	LB134439
	Iron	45.8	50.0	92	70 - 130	P	01/27/2025	15:54	LB134439
	Lead	0.97	1.0	97	70 - 130	P	01/27/2025	15:54	LB134439
	Magnesium	480	500	96	70 - 130	P	01/27/2025	15:54	LB134439
	Manganese	0.87	1.0	87	50 - 150	P	01/27/2025	15:54	LB134439
	Nickel	0.97	1.0	97	70 - 130	P	01/27/2025	15:54	LB134439
	Potassium	457	500	92	70 - 130	P	01/27/2025	15:54	LB134439
	Selenium	4.36	5.0	87	70 - 130	P	01/27/2025	15:54	LB134439
	Silver	0.93	1.0	93	70 - 130	P	01/27/2025	15:54	LB134439
	Sodium	477	500	95	70 - 130	P	01/27/2025	15:54	LB134439
	Thallium	0.86	1.0	86	70 - 130	P	01/27/2025	15:54	LB134439
	Vanadium	4.63	5.0	93	70 - 130	P	01/27/2025	15:54	LB134439
	Zinc	4.77	5.0	95	50 - 150	P	01/27/2025	15:54	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB60	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/17/2025	12:00	LB134324

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB44	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/17/2025	12:05	LB134324
CCB45	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/17/2025	12:38	LB134324
CCB46	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	01/17/2025	12:51	LB134324

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	15:38	LB134439
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	01/27/2025	15:38	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:38	LB134439
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/27/2025	15:38	LB134439
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:38	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:38	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	15:38	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	15:38	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:38	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	15:38	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	15:38	LB134439
	Lead	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	15:38	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	15:38	LB134439
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	15:38	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:38	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	15:38	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	15:38	LB134439
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:38	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	15:38	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:38	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	15:38	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	15:38	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	15:51	LB134439
	Antimony	0.11	+/-2.00	J	0.25	2.00	P	01/27/2025	15:51	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:51	LB134439
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/27/2025	15:51	LB134439
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:51	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:51	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	15:51	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	15:51	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:51	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	15:51	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	15:51	LB134439
	Lead	0.23	+/-1.00	J	0.75	1.00	P	01/27/2025	15:51	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	15:51	LB134439
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	15:51	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	15:51	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	15:51	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	15:51	LB134439
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:51	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	15:51	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	15:51	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	15:51	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	15:51	LB134439
CCB02	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	16:31	LB134439
	Antimony	0.13	+/-2.00	J	0.25	2.00	P	01/27/2025	16:31	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	16:31	LB134439
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/27/2025	16:31	LB134439
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	16:31	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	16:31	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	16:31	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	16:31	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	16:31	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	16:31	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	16:31	LB134439
	Lead	0.17	+/-1.00	J	0.75	1.00	P	01/27/2025	16:31	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	16:31	LB134439
	Manganese	0.25	+/-1.00	J	0.75	1.00	P	01/27/2025	16:31	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	16:31	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	16:31	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	16:31	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	16:31	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	16:31	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	16:31	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	16:31	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	16:31	LB134439
CCB03	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	18:35	LB134439
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	01/27/2025	18:35	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:35	LB134439
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/27/2025	18:35	LB134439
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:35	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:35	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	18:35	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	18:35	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:35	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	18:35	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	18:35	LB134439
	Lead	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	18:35	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	18:35	LB134439
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	18:35	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:35	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	18:35	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	18:35	LB134439
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:35	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	18:35	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:35	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	18:35	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	18:35	LB134439
CCB04	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	18:58	LB134439
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	01/27/2025	18:58	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:58	LB134439
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/27/2025	18:58	LB134439
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:58	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:58	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	18:58	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	18:58	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:58	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	18:58	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	18:58	LB134439
	Lead	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	18:58	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	500	+/-500	U	190	500	P	01/27/2025	18:58	LB134439
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/27/2025	18:58	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	18:58	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	18:58	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	18:58	LB134439
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:58	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	18:58	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	18:58	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	18:58	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	18:58	LB134439
CCB05	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	19:34	LB134439
	Antimony	0.13	+/-2.00	J	0.25	2.00	P	01/27/2025	19:34	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	19:34	LB134439
	Barium	0.33	+/-10.0	J	1.25	10.0	P	01/27/2025	19:34	LB134439
	Beryllium	0.18	+/-1.00	J	0.25	1.00	P	01/27/2025	19:34	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	19:34	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	19:34	LB134439
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	19:34	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	19:34	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	19:34	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	19:34	LB134439
	Lead	0.20	+/-1.00	J	0.75	1.00	P	01/27/2025	19:34	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	19:34	LB134439
	Manganese	0.41	+/-1.00	J	0.75	1.00	P	01/27/2025	19:34	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	19:34	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	19:34	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	19:34	LB134439
	Silver	0.12	+/-1.00	J	0.50	1.00	P	01/27/2025	19:34	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	19:34	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	19:34	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	19:34	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	19:34	LB134439
CCB06	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/27/2025	20:09	LB134439
	Antimony	0.13	+/-2.00	J	0.25	2.00	P	01/27/2025	20:09	LB134439
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	20:09	LB134439
	Barium	0.31	+/-10.0	J	1.25	10.0	P	01/27/2025	20:09	LB134439
	Beryllium	0.17	+/-1.00	J	0.25	1.00	P	01/27/2025	20:09	LB134439
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	20:09	LB134439
	Calcium	500	+/-500	U	190	500	P	01/27/2025	20:09	LB134439

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/27/2025	20:09	LB134439
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	20:09	LB134439
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/27/2025	20:09	LB134439
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/27/2025	20:09	LB134439
	Lead	0.19	+/-1.00	J	0.75	1.00	P	01/27/2025	20:09	LB134439
	Magnesium	500	+/-500	U	190	500	P	01/27/2025	20:09	LB134439
	Manganese	0.40	+/-1.00	J	0.75	1.00	P	01/27/2025	20:09	LB134439
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/27/2025	20:09	LB134439
	Potassium	500	+/-500	U	190	500	P	01/27/2025	20:09	LB134439
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/27/2025	20:09	LB134439
	Silver	0.080	+/-1.00	J	0.50	1.00	P	01/27/2025	20:09	LB134439
	Sodium	500	+/-500	U	190	500	P	01/27/2025	20:09	LB134439
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/27/2025	20:09	LB134439
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/27/2025	20:09	LB134439
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/27/2025	20:09	LB134439

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Metals
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PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166110BL		**WATER**		**Batch Number:**		**PB166110**		**Prep Date:**	**01/16/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	01/17/2025	12:17	LB134324

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166173BL		**WATER**		**Batch Number:**		**PB166173**		**Prep Date:**	**01/22/2025**	
	Aluminum	20.0	<20.0	U	10.0	20.0	P	01/27/2025	19:01	LB134439
	Antimony	2.00	<2.00	U	0.25	2.00	P	01/27/2025	19:01	LB134439
	Arsenic	1.00	<1.00	U	0.25	1.00	P	01/27/2025	19:01	LB134439
	Barium	10.0	<10.0	U	1.25	10.0	P	01/27/2025	19:01	LB134439
	Beryllium	1.00	<1.00	U	0.25	1.00	P	01/27/2025	19:01	LB134439
	Cadmium	1.00	<1.00	U	0.50	1.00	P	01/27/2025	19:01	LB134439
	Calcium	500	<500	U	190	500	P	01/27/2025	19:01	LB134439
	Chromium	2.00	<2.00	U	0.75	2.00	P	01/27/2025	19:01	LB134439
	Cobalt	1.00	<1.00	U	0.25	1.00	P	01/27/2025	19:01	LB134439
	Copper	2.00	<2.00	U	1.50	2.00	P	01/27/2025	19:01	LB134439
	Iron	50.0	<50.0	U	25.0	50.0	P	01/27/2025	19:01	LB134439
	Lead	1.00	<1.00	U	0.75	1.00	P	01/27/2025	19:01	LB134439
	Magnesium	500	<500	U	190	500	P	01/27/2025	19:01	LB134439
	Manganese	1.00	<1.00	U	0.75	1.00	P	01/27/2025	19:01	LB134439
	Nickel	1.00	<1.00	U	0.25	1.00	P	01/27/2025	19:01	LB134439
	Potassium	500	<500	U	190	500	P	01/27/2025	19:01	LB134439
	Selenium	5.00	<5.00	U	4.50	5.00	P	01/27/2025	19:01	LB134439
	Silver	1.00	<1.00	U	0.50	1.00	P	01/27/2025	19:01	LB134439
	Sodium	500	<500	U	190	500	P	01/27/2025	19:01	LB134439
	Thallium	1.00	<1.00	U	0.50	1.00	P	01/27/2025	19:01	LB134439
	Vanadium	5.00	<5.00	U	0.25	5.00	P	01/27/2025	19:01	LB134439
	Zinc	5.00	<5.00	U	1.50	5.00	P	01/27/2025	19:01	LB134439

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

ICS Source: EPA **Instrument ID:** P8

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	90600	100000	91	0	0	01/27/2025	15:41	LB134439
	Antimony	1.02	1.5	68	-2.5	5.5	01/27/2025	15:41	LB134439
	Arsenic	0.23	0.1	230	-1.9	2.1	01/27/2025	15:41	LB134439
	Barium	1.39	1.2	116	-18.8	21.2	01/27/2025	15:41	LB134439
	Beryllium	0.25			-2	2	01/27/2025	15:41	LB134439
	Cadmium	0.59	0.7	84	-1.3	2.7	01/27/2025	15:41	LB134439
	Calcium	96900	100000	97	0	0	01/27/2025	15:41	LB134439
	Chromium	18.7	21.0	89	17	25	01/27/2025	15:41	LB134439
	Cobalt	1.08	1.0	108	-1	3	01/27/2025	15:41	LB134439
	Copper	7.46	8.0	93	4	12	01/27/2025	15:41	LB134439
	Iron	102000	100000	102	0	0	01/27/2025	15:41	LB134439
	Lead	4.25	4.0	106	2	6	01/27/2025	15:41	LB134439
	Magnesium	95700	100000	96	0	0	01/27/2025	15:41	LB134439
	Manganese	7.25	7.0	104	5	9	01/27/2025	15:41	LB134439
	Nickel	5.23	6.0	87	4	8	01/27/2025	15:41	LB134439
	Potassium	97400	100000	97	0	0	01/27/2025	15:41	LB134439
	Selenium	0	0.3		-9.7	10	01/27/2025	15:41	LB134439
	Silver	0.050			-2	2	01/27/2025	15:41	LB134439
	Sodium	101000	100000	101	0	0	01/27/2025	15:41	LB134439
	Thallium	0.12			-2	2	01/27/2025	15:41	LB134439
	Vanadium	0.12	0.5	24	-9.5	10.5	01/27/2025	15:41	LB134439
	Zinc	10.8	11.0	98	7	15	01/27/2025	15:41	LB134439
ICSAB01	Aluminum	90300	100000	90	0	0	01/27/2025	15:45	LB134439
	Antimony	19.0	22.0	86	18	26	01/27/2025	15:45	LB134439
	Arsenic	19.7	19.0	104	16.2	21.9	01/27/2025	15:45	LB134439
	Barium	20.1	22.0	91	2	42	01/27/2025	15:45	LB134439
	Beryllium	19.0	19.0	100	16.2	21.9	01/27/2025	15:45	LB134439
	Cadmium	18.2	20.0	91	17	23	01/27/2025	15:45	LB134439
	Calcium	96500	100000	96	0	0	01/27/2025	15:45	LB134439
	Chromium	36.7	40.0	92	34	46	01/27/2025	15:45	LB134439
	Cobalt	19.4	20.0	97	17	23	01/27/2025	15:45	LB134439
	Copper	26.4	25.0	106	21	29	01/27/2025	15:45	LB134439
	Iron	102000	100000	102	0	0	01/27/2025	15:45	LB134439
	Lead	22.7	25.0	91	21.3	28.8	01/27/2025	15:45	LB134439
	Magnesium	95900	100000	96	0	0	01/27/2025	15:45	LB134439
	Manganese	25.4	27.0	94	23	31.1	01/27/2025	15:45	LB134439
	Nickel	24.7	24.0	103	20.4	27.6	01/27/2025	15:45	LB134439
	Potassium	96100	100000	96	0	0	01/27/2025	15:45	LB134439
	Selenium	19.4	19.0	102	9	29	01/27/2025	15:45	LB134439
	Silver	16.9	18.0	94	15.3	20.7	01/27/2025	15:45	LB134439
	Sodium	101000	100000	101	0	0	01/27/2025	15:45	LB134439
	Thallium	18.6	21.0	89	17.9	24.2	01/27/2025	15:45	LB134439

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

ICS Source: EPA **Instrument ID:** P8

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	18.4	19.0	97	9	29	01/27/2025	15:45	LB134439
	Zinc	29.7	29.0	102	25	33	01/27/2025	15:45	LB134439

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1109

contract: WEST04 **lab code:** CHEM **case no.:** Q1109 **sas no.:** Q1109

matrix: Water **sample id:** Q1092-01 **client id:** 427MS

Percent Solids for Sample: NA **Spiked ID:** Q1092-01MS **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	82 - 119	3.30		0.30		4.0	75	N	CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1109

contract: WEST04 **lab code:** CHEM **case no.:** Q1109 **sas no.:** Q1109

matrix: Water **sample id:** Q1092-01 **client id:** 427MSD

Percent Solids for Sample: NA **Spiked ID:** Q1092-01MSD **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	82 - 119	3.04		0.30		4.0	69	N	CV

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metals
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MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1109

contract: WEST04 **lab code:** CHEM **case no.:** Q1109 **sas no.:** Q1109

matrix: Water **sample id:** Q1109-02 **client id:** TAPIAL1-MW04S-011525-00-T2MS

Percent Solids for Sample: NA **Spiked ID:** Q1109-02MS **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	84 - 117	8230		453		10000	78	N	P
Antimony	ug/L	85 - 117	437		2.00	U	500	87		P
Arsenic	ug/L	84 - 116	1.05		0.75	J	500	0	N	P
Barium	ug/L	86 - 114	2020		27.7		2500	80	N	P
Beryllium	ug/L	83 - 121	412		0.19	J	500	82	N	P
Cadmium	ug/L	87 - 115	413		1.00	U	500	83	N	P
Calcium	ug/L	87 - 118	53100		11200		50000	84	N	P
Chromium	ug/L	85 - 116	410		1.58	J	500	82	N	P
Cobalt	ug/L	86 - 115	465		21.4		500	89		P
Copper	ug/L	85 - 118	4640		5.61		5000	93		P
Iron	ug/L	87 - 118	20500		665		25000	79	N	P
Lead	ug/L	88 - 115	2250		0.89	J	2500	90		P
Magnesium	ug/L	83 - 118	46700		3650		50000	86		P
Manganese	ug/L	87 - 115	4930		313		5000	92		P
Nickel	ug/L	85 - 117	457		13.1		500	89		P
Potassium	ug/L	87 - 115	20800		977		25000	79	N	P
Selenium	ug/L	80 - 120	434		5.00	U	500	87		P
Silver	ug/L	85 - 116	290		1.00	U	500	58	N	P
Sodium	ug/L	85 - 117	56400		15200		50000	82	N	P
Thallium	ug/L	82 - 116	426		0.090	J	500	85		P
Vanadium	ug/L	86 - 115	429		2.50	J	500	85	N	P
Zinc	ug/L	83 - 119	4500		5.94		5000	90		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1109

contract: WEST04 **lab code:** CHEM **case no.:** Q1109 **sas no.:** Q1109

matrix: Water **sample id:** Q1109-02 **client id:** TAPIAL1-MW04S-011525-00-T2MSD

Percent Solids for Sample: NA **Spiked ID:** Q1109-02MSD **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	84 - 117	8380		453		10000	79	N	P
Antimony	ug/L	85 - 117	443		2.00	U	500	89		P
Arsenic	ug/L	84 - 116	1.12		0.75	J	500	0	N	P
Barium	ug/L	86 - 114	2070		27.7		2500	82	N	P
Beryllium	ug/L	83 - 121	426		0.19	J	500	85		P
Cadmium	ug/L	87 - 115	418		1.00	U	500	84	N	P
Calcium	ug/L	87 - 118	52600		11200		50000	83	N	P
Chromium	ug/L	85 - 116	415		1.58	J	500	83	N	P
Cobalt	ug/L	86 - 115	472		21.4		500	90		P
Copper	ug/L	85 - 118	4670		5.61		5000	93		P
Iron	ug/L	87 - 118	20600		665		25000	80	N	P
Lead	ug/L	88 - 115	2250		0.89	J	2500	90		P
Magnesium	ug/L	83 - 118	47100		3650		50000	87		P
Manganese	ug/L	87 - 115	4910		313		5000	92		P
Nickel	ug/L	85 - 117	461		13.1		500	90		P
Potassium	ug/L	87 - 115	21200		977		25000	81	N	P
Selenium	ug/L	80 - 120	435		5.00	U	500	87		P
Silver	ug/L	85 - 116	210		1.00	U	500	42	N	P
Sodium	ug/L	85 - 117	57400		15200		50000	84	N	P
Thallium	ug/L	82 - 116	430		0.090	J	500	86		P
Vanadium	ug/L	86 - 115	436		2.50	J	500	87		P
Zinc	ug/L	83 - 119	4530		5.94		5000	90		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Level:** LOW **Client ID:** 427A

Sample ID: Q1092-01 **Spiked ID:** Q1092-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.75		0.30		4.00	86		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Level:** LOW **Client ID:** TAPIAL1-MW04S-011525-00-T2A

Sample ID: Q1109-02 **Spiked ID:** Q1109-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	8280		453		10000	78		P
Arsenic	ug/L	84 - 116	1.22		0.75	J	500	0		P
Barium	ug/L	86 - 114	2040		27.7		2500	80		P
Beryllium	ug/L	83 - 121	419		0.19	J	500	84		P
Cadmium	ug/L	87 - 115	419		1.00	U	500	84		P
Calcium	ug/L	87 - 118	51700		11200		50000	81		P
Chromium	ug/L	85 - 116	416		1.58	J	500	83		P
Iron	ug/L	87 - 118	20600		665		25000	80		P
Potassium	ug/L	87 - 115	21100		977		25000	81		P
Silver	ug/L	85 - 116	474		1.00	U	500	95		P
Sodium	ug/L	85 - 117	56800		15200		50000	83		P
Vanadium	ug/L	86 - 115	435		2.50	J	500	87		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Sample ID:** Q1092-01 **Client ID:** 427DUP

Percent Solids for Sample: NA **Duplicate ID** Q1092-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.30		0.36		20		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Sample ID:** Q1092-01MS **Client ID:** 427MSD

Percent Solids for Sample: NA **Duplicate ID** Q1092-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.30		3.04		8		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Sample ID:** Q1109-02 **Client ID:** TAPIAL1-MW04S-011525-00-T2DUP

Percent Solids for Sample: NA **Duplicate ID** Q1109-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	453		468		3		P
Antimony	ug/L	20	2.00	U	0.12	J	200.0		P
Arsenic	ug/L	20	0.75	J	0.84	J	11		P
Barium	ug/L	20	27.7		28.0		1		P
Beryllium	ug/L	20	0.19	J	0.17	J	11		P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	11200		11400		2		P
Chromium	ug/L	20	1.58	J	1.65	J	4		P
Cobalt	ug/L	20	21.4		21.6		1		P
Copper	ug/L	20	5.61		5.53		1		P
Iron	ug/L	20	665		681		2		P
Lead	ug/L	20	0.89	J	0.85	J	5		P
Magnesium	ug/L	20	3650		3680		1		P
Manganese	ug/L	20	313		313		0		P
Nickel	ug/L	20	13.1		13.1		0		P
Potassium	ug/L	20	977		983		1		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	15200		15100		1		P
Thallium	ug/L	20	0.090	J	1.00	U	200.0		P
Vanadium	ug/L	20	2.50	J	2.60	J	4		P
Zinc	ug/L	20	5.94		6.21		4		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Matrix: Water **Sample ID:** Q1109-02MS **Client ID:** TAPIAL1-MW04S-011525-00-T2MSD

Percent Solids for Sample: NA **Duplicate ID** Q1109-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	8230		8380		2		P
Antimony	ug/L	20	437		443		1		P
Arsenic	ug/L	20	1.05		1.12		6		P
Barium	ug/L	20	2020		2070		2		P
Beryllium	ug/L	20	412		426		3		P
Cadmium	ug/L	20	413		418		1		P
Calcium	ug/L	20	53100		52600		1		P
Chromium	ug/L	20	410		415		1		P
Cobalt	ug/L	20	465		472		1		P
Copper	ug/L	20	4640		4670		1		P
Iron	ug/L	20	20500		20600		0		P
Lead	ug/L	20	2250		2250		0		P
Magnesium	ug/L	20	46700		47100		1		P
Manganese	ug/L	20	4930		4910		0		P
Nickel	ug/L	20	457		461		1		P
Potassium	ug/L	20	20800		21200		2		P
Selenium	ug/L	20	434		435		0		P
Silver	ug/L	20	290		210		32	*	P
Sodium	ug/L	20	56400		57400		2		P
Thallium	ug/L	20	426		430		1		P
Vanadium	ug/L	20	429		436		2		P
Zinc	ug/L	20	4500		4530		1		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166110BS							
Mercury	ug/L	4.0	4.01		100	82 - 119	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1109 **SAS No.:** Q1109

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166173BS							
Aluminum	ug/L	10000	9210		92	84 - 117	P
Antimony	ug/L	500	508		102	85 - 117	P
Arsenic	ug/L	500	494		99	84 - 116	P
Barium	ug/L	2500	2490		100	86 - 114	P
Beryllium	ug/L	500	473		95	83 - 121	P
Cadmium	ug/L	500	479		96	87 - 115	P
Calcium	ug/L	50000	49000		98	87 - 118	P
Chromium	ug/L	500	481		96	85 - 116	P
Cobalt	ug/L	500	515		103	86 - 115	P
Copper	ug/L	5000	5210		104	85 - 118	P
Iron	ug/L	25000	24300		97	87 - 118	P
Lead	ug/L	2500	2470		99	88 - 115	P
Magnesium	ug/L	50000	50000		100	83 - 118	P
Manganese	ug/L	5000	5090		102	87 - 115	P
Nickel	ug/L	500	513		103	85 - 117	P
Potassium	ug/L	25000	24500		98	87 - 115	P
Selenium	ug/L	500	500		100	80 - 120	P
Silver	ug/L	500	512		102	85 - 116	P
Sodium	ug/L	50000	49600		99	85 - 117	P
Thallium	ug/L	500	489		98	82 - 116	P
Vanadium	ug/L	500	483		97	86 - 115	P
Zinc	ug/L	5000	4980		100	83 - 119	P

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1109 | Sas No.: Q1109 | SDG No.: Q1109

Instrument ID: P8 | Start Date : 01/27/2025

Run Number: LB134439 | End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1320	100		100		100		100		100	
S2	S2	1326	98		97		96		96		97	
S3	S3	1330	102		104		104		102		104	
S4	S4	1333	104		104		104		101		105	
S5	S5	1336	97		99		97		95		99	
S6	S6	1339	94		98		98		93		98	
S7	S7	1342	96		104		103		96		104	
S8	S8	1345	79		85		85		75		87	
ICV01	ICV01	1530	99		97		96		95		98	
LLICV	LLICV	1535	102		98		98		97		98	
ICB01	ICB01	1538	100		96		96		96		96	
ICSA01	ICSA01	1541	96		99		99		92		100	
ICSAB01	ICSAB01	1545	96		103		104		95		104	
CCV01	CCV01	1548	89		98		97		88		98	
CCB01	CCB01	1551	102		103		103		102		102	
CRI	CRI	1554	101		102		103		102		102	
ZZZZZZ	ZZZZZZ	1557										
ZZZZZZ	ZZZZZZ	1601										
ZZZZZZ	ZZZZZZ	1604										
ZZZZZZ	ZZZZZZ	1611										
ZZZZZZ	ZZZZZZ	1614										
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1625										
CCV02	CCV02	1628	84		88		87		79		89	
CCB02	CCB02	1631	89		89		90		90		89	
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1638										
ZZZZZZ	ZZZZZZ	1646										
ZZZZZZ	ZZZZZZ	1749										
ZZZZZZ	ZZZZZZ	1752										
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
ZZZZZZ	ZZZZZZ	1808										
ZZZZZZ	ZZZZZZ	1816										
CCV03	CCV03	1829	87		86		87		78		88	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions
Contract: WEST04
Lab Code: CHEM Case no.: Q1109
Sas No.: Q1109 SDG No.: Q1109
Instrument ID: P8
Start Date : 01/27/2025
Run Number: LB134439
End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
CCB03	CCB03	1835	95		92		94		94		93	
ZZZZZZ	ZZZZZZ	1839										
ZZZZZZ	ZZZZZZ	1845										
ZZZZZZ	ZZZZZZ	1848										
CCV04	CCV04	1851	87		89		90		81		91	
CCB04	CCB04	1858	95		91		93		93		92	
PB166173BL	PB166173BL	1901	95		91		92		91		92	
PB166173BS	PB166173BS	1904	92		89		90		85		91	
Q1109-01	TAPIAL1-MW0	1907	96		92		94		92		94	
Q1109-02	TAPIAL1-MW0	1910	96		93		94		93		96	
Q1109-02DUP	TAPIAL1-MW0	1914	97		94		97		95		97	
Q1109-02L	TAPIAL1-MW0	1917	95		94		96		95		95	
Q1109-02MS	TAPIAL1-MW0	1920	95		93		95		90		97	
Q1109-02MSD	TAPIAL1-MW0	1924	96		95		96		91		96	
Q1109-02A	TAPIAL1-MW0	1927	97		95		96		91		96	
CCV05	CCV05	1930	86		87		87		79		89	
CCB05	CCB05	1934	93		90		91		91		91	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions
Contract: WEST04
Lab Code: CHEM Case no.: Q1109
Sas No.: Q1109 SDG No.: Q1109
Instrument ID: P8
Start Date : 01/27/2025
Run Number: LB134439
End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1320	100		100		100		100		100	
S2	S2	1326	93		92		94		94		94	
S3	S3	1330	97		95		96		97		98	
S4	S4	1333	88		87		88		88		89	
S5	S5	1336	92		90		88		92		92	
S6	S6	1339	93		90		88		91		93	
S7	S7	1342	101		96		92		98		99	
S8	S8	1345	78		79		69		81		83	
ICV01	ICV01	1530	92		90		92		93		93	
LLICV	LLICV	1535	91		90		93		93		93	
ICB01	ICB01	1538	90		89		92		92		93	
ICSA01	ICSA01	1541	95		93		89		95		95	
ICSAB01	ICSAB01	1545	97		94		89		95		96	
CCV01	CCV01	1548	90		87		80		88		90	
CCB01	CCB01	1551	95		93		96		96		96	
CRI	CRI	1554	95		93		97		94		96	
ZZZZZZ	ZZZZZZ	1557										
ZZZZZZ	ZZZZZZ	1601										
ZZZZZZ	ZZZZZZ	1604										
ZZZZZZ	ZZZZZZ	1611										
ZZZZZZ	ZZZZZZ	1614										
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1625										
CCV02	CCV02	1628	81		79		73		82		82	
CCB02	CCB02	1631	82		80		84		83		84	
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1638										
ZZZZZZ	ZZZZZZ	1646										
ZZZZZZ	ZZZZZZ	1749										
ZZZZZZ	ZZZZZZ	1752										
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
ZZZZZZ	ZZZZZZ	1808										
ZZZZZZ	ZZZZZZ	1816										
CCV03	CCV03	1829	81		80		73		84		85	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1109 | Sas No.: Q1109 | SDG No.: Q1109

Instrument ID: P8 | Start Date : 01/27/2025

Run Number: LB134439 | End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
CCB03	CCB03	1835	86		86		90		90		91	
ZZZZZZ	ZZZZZZ	1839										
ZZZZZZ	ZZZZZZ	1845										
ZZZZZZ	ZZZZZZ	1848										
CCV04	CCV04	1851	82		81		75		84		86	
CCB04	CCB04	1858	83		84		88		89		90	
PB166173BL	PB166173BL	1901	83		83		87		88		88	
PB166173BS	PB166173BS	1904	83		82		82		86		88	
Q1109-01	TAPIAL1-MW0	1907	84		85		88		89		89	
Q1109-02	TAPIAL1-MW0	1910	86		86		89		90		91	
Q1109-02DUP	TAPIAL1-MW0	1914	87		88		90		91		91	
Q1109-02L	TAPIAL1-MW0	1917	85		86		89		90		90	
Q1109-02MS	TAPIAL1-MW0	1920	88		87		86		90		91	
Q1109-02MSD	TAPIAL1-MW0	1924	88		86		85		89		90	
Q1109-02A	TAPIAL1-MW0	1927	87		86		85		90		90	
CCV05	CCV05	1930	79		79		73		82		83	
CCB05	CCB05	1934	85		88		90		90		90	

Internal Standard %RI Limit: 30 - 120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1109 Sas No.: Q1109 SDG No.: Q1109

Instrument ID: P8 Start Date : 01/27/2025

Run Number: LB134439 End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1320	100		100							
S2	S2	1326	97		98							
S3	S3	1330	104		104							
S4	S4	1333	106		104							
S5	S5	1336	98		96							
S6	S6	1339	98		95							
S7	S7	1342	105		97							
S8	S8	1345	88		76							
ICV01	ICV01	1530	96		99							
LLICV	LLICV	1535	98		100							
ICB01	ICB01	1538	96		98							
ICSA01	ICSA01	1541	101		93							
ICSAB01	ICSAB01	1545	103		95							
CCV01	CCV01	1548	99		89							
CCB01	CCB01	1551	102		102							
CRI	CRI	1554	101		102							
ZZZZZZ	ZZZZZZ	1557										
ZZZZZZ	ZZZZZZ	1601										
ZZZZZZ	ZZZZZZ	1604										
ZZZZZZ	ZZZZZZ	1611										
ZZZZZZ	ZZZZZZ	1614										
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1625										
CCV02	CCV02	1628	89		80							
CCB02	CCB02	1631	88		90							
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1638										
ZZZZZZ	ZZZZZZ	1646										
ZZZZZZ	ZZZZZZ	1749										
ZZZZZZ	ZZZZZZ	1752										
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
ZZZZZZ	ZZZZZZ	1808										

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1109 Sas No.: Q1109 SDG No.: Q1109

Instrument ID: P8 Start Date : 01/27/2025

Run Number: LB134439 End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1816										
CCV03	CCV03	1829	88		80							
CCB03	CCB03	1835	93		95							
ZZZZZZ	ZZZZZZ	1839										
ZZZZZZ	ZZZZZZ	1845										
ZZZZZZ	ZZZZZZ	1848										
CCV04	CCV04	1851	90		82							
CCB04	CCB04	1858	92		93							
PB166173BL	PB166173BL	1901	92		94							
PB166173BS	PB166173BS	1904	91		88							
Q1109-01	TAPIAL1-MW04	1907	94		94							
Q1109-02	TAPIAL1-MW04	1910	94		95							
Q1109-02DUP	TAPIAL1-MW04	1914	96		96							
Q1109-02L	TAPIAL1-MW04	1917	95		97							
Q1109-02MS	TAPIAL1-MW04	1920	95		91							
Q1109-02MSD	TAPIAL1-MW04	1924	96		92							
Q1109-02A	TAPIAL1-MW04	1927	96		92							
CCV05	CCV05	1930	88		81							
CCB05	CCB05	1934	91		92							

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1109 Sas No.: Q1109 SDG No.: Q1109

Instrument ID: P8 Start Date : 01/27/2025

Run Number: LB134439 End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1320	100									
S2	S2	1326	95									
S3	S3	1330	97									
S4	S4	1333	88									
S5	S5	1336	89									
S6	S6	1339	88									
S7	S7	1342	90									
S8	S8	1345	70									
ICV01	ICV01	1530	93									
LLICV	LLICV	1535	94									
ICB01	ICB01	1538	93									
ICSA01	ICSA01	1541	86									
ICSAB01	ICSAB01	1545	86									
CCV01	CCV01	1548	79									
CCB01	CCB01	1551	96									
CRI	CRI	1554	96									
ZZZZZZ	ZZZZZZ	1557										
ZZZZZZ	ZZZZZZ	1601										
ZZZZZZ	ZZZZZZ	1604										
ZZZZZZ	ZZZZZZ	1611										
ZZZZZZ	ZZZZZZ	1614										
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1625										
CCV02	CCV02	1628	73									
CCB02	CCB02	1631	85									
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1638										
ZZZZZZ	ZZZZZZ	1646										
ZZZZZZ	ZZZZZZ	1749										
ZZZZZZ	ZZZZZZ	1752										
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
ZZZZZZ	ZZZZZZ	1808										

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1109 Sas No.: Q1109 SDG No.: Q1109

Instrument ID: P8 Start Date : 01/27/2025

Run Number: LB134439 End Date : 01/27/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1816										
CCV03	CCV03	1829	76									
CCB03	CCB03	1835	92									
ZZZZZZ	ZZZZZZ	1839										
ZZZZZZ	ZZZZZZ	1845										
ZZZZZZ	ZZZZZZ	1848										
CCV04	CCV04	1851	76									
CCB04	CCB04	1858	91									
PB166173BL	PB166173BL	1901	89									
PB166173BS	PB166173BS	1904	83									
Q1109-01	TAPIAL1-MW04	1907	90									
Q1109-02	TAPIAL1-MW04	1910	91									
Q1109-02DUP	TAPIAL1-MW04	1914	91									
Q1109-02L	TAPIAL1-MW04	1917	92									
Q1109-02MS	TAPIAL1-MW04	1920	86									
Q1109-02MSD	TAPIAL1-MW04	1924	86									
Q1109-02A	TAPIAL1-MW04	1927	86									
CCV05	CCV05	1930	74									
CCB05	CCB05	1934	91									

Internal Standard %RI Limit: 30 -120

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

427L

Lab Name: Chemtech Consulting Group **Contract:** WEST04

Lab Code: CHEM **Lb No.:** lb134324 **Lab Sample ID :** Q1092-01L **SDG No.:** Q1109

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	0.30		1.00	U	100.0		CV

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Fax : 908 789 8922

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TAPIAL1-MW04S-011525-00-T2L

Lab Name: Chemtech Consulting Group **Contract:** WEST04

Lab Code: CHEM **Lb No.:** lb134439 **Lab Sample ID :** Q1109-02L **SDG No.:** Q1109

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	453		473		4		P
Antimony	2.00	U	10.0	U			P
Arsenic	0.75	J	0.80	J	7		P
Barium	27.7		28.5	J	3		P
Beryllium	0.19	J	5.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	11200		11600		3		P
Chromium	1.58	J	10.0	U	100.0		P
Cobalt	21.4		21.7		1		P
Copper	5.61		6.25	J	11		P
Iron	665		696		5		P
Lead	0.89	J	1.00	J	12		P
Magnesium	3650		3740		2		P
Manganese	313		325		4		P
Nickel	13.1		14.1		7		P
Potassium	977		1010	J	4		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	15200		14700		4		P
Thallium	0.090	J	5.00	U	100.0		P
Vanadium	2.50	J	2.55	J	2		P
Zinc	5.94		7.80	J	31		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Method:**

Case No.: Q1109 **SAS No.:** Q1109

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166110**						
PB166110BL	PB166110BL	MB	WATER	01/16/2025	30.0	30.0	
PB166110BS	PB166110BS	LCS	WATER	01/16/2025	30.0	30.0	
Q1092-01DUP	427DUP	DUP	WATER	01/16/2025	30.0	30.0	
Q1092-01MS	427MS	MS	WATER	01/16/2025	30.0	30.0	
Q1092-01MSD	427MSD	MSD	WATER	01/16/2025	30.0	30.0	
Q1109-01	TAPIAL1-MW04I-011525-00-T3	SAM	WATER	01/16/2025	30.0	30.0	
Q1109-02	TAPIAL1-MW04S-011525-00-T2	SAM	WATER	01/16/2025	30.0	30.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1109

Contract: WEST04 **Lab Code:** CHEM **Method:**

Case No.: Q1109 **SAS No.:** Q1109

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166173**						
PB166173BL	PB166173BL	MB	WATER	01/22/2025	50.0	50.0	
PB166173BS	PB166173BS	LCS	WATER	01/22/2025	50.0	50.0	
Q1109-01	TAPIAL1-MW04I-011525-00-T3	SAM	WATER	01/22/2025	50.0	50.0	
Q1109-02	TAPIAL1-MW04S-011525-00-T2	SAM	WATER	01/22/2025	50.0	50.0	
Q1109-02DUP	TAPIAL1-MW04S-011525-00-T2DUP	DUP	WATER	01/22/2025	50.0	50.0	
Q1109-02MS	TAPIAL1-MW04S-011525-00-T2MS	MS	WATER	01/22/2025	50.0	50.0	
Q1109-02MSD	TAPIAL1-MW04S-011525-00-T2MSD	MSD	WATER	01/22/2025	50.0	50.0	

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metals
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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1109 **Sas no.:** Q1109 **Sdg no.:** Q1109

Instrument id number: **Method:** **Run number:** LB134324

Start date: 01/17/2025 **End date:** 01/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1131	HG
S0.2	S0.2	1	1134	HG
S2.5	S2.5	1	1136	HG
S5	S5	1	1138	HG
S7.5	S7.5	1	1148	HG
S10	S10	1	1151	HG
ICV60	ICV60	1	1158	HG
ICB60	ICB60	1	1200	HG
CCV44	CCV44	1	1203	HG
CCB44	CCB44	1	1205	HG
CRA	CRA	1	1207	HG
PB166110BL	PB166110BL	1	1217	HG
PB166110BS	PB166110BS	1	1219	HG
Q1092-01DUP	427DUP	1	1223	HG
Q1092-01MS	427MS	1	1226	HG
Q1092-01MSD	427MSD	1	1231	HG
CCV45	CCV45	1	1235	HG
CCB45	CCB45	1	1238	HG
Q1109-01	TAPIAL1-MW04I-011525-00-T	1	1240	HG
Q1109-02	TAPIAL1-MW04S-011525-00-T	1	1242	HG
Q1092-01L	427L	5	1244	HG
Q1092-01A	427A	1	1247	HG
CCV46	CCV46	1	1249	HG
CCB46	CCB46	1	1251	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1109 **Sas no.:** Q1109 **Sdg no.:** Q1109

Instrument id number: **Method:** **Run number:** LB134439

Start date: 01/27/2025 **End date:** 01/27/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1320	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	1326	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	1330	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	1333	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	1336	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1345	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV	LLICV	1	1535	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	1538	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	1541	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	1545	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	1548	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	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1554	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	1628	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	1631	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	1835	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	1851	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	1858	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166173BL	PB166173BL	1	1901	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166173BS	PB166173BS	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-01	TAPIAL1-MW04I-011525-00-T	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02	TAPIAL1-MW04S-011525-00-T	1	1910	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02DUP	TAPIAL1-MW04S-011525-00-T	1	1914	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02L	TAPIAL1-MW04S-011525-00-T	5	1917	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02MS	TAPIAL1-MW04S-011525-00-T	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02MSD	TAPIAL1-MW04S-011525-00-T	1	1924	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1109-02A	TAPIAL1-MW04S-011525-00-T	1	1927	Ag,Al,As,Ba,Be,Ca,Cd,Cr,Fe,K,Na,V
CCV05	CCV05	1	1930	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	1934	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2006	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	2009	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

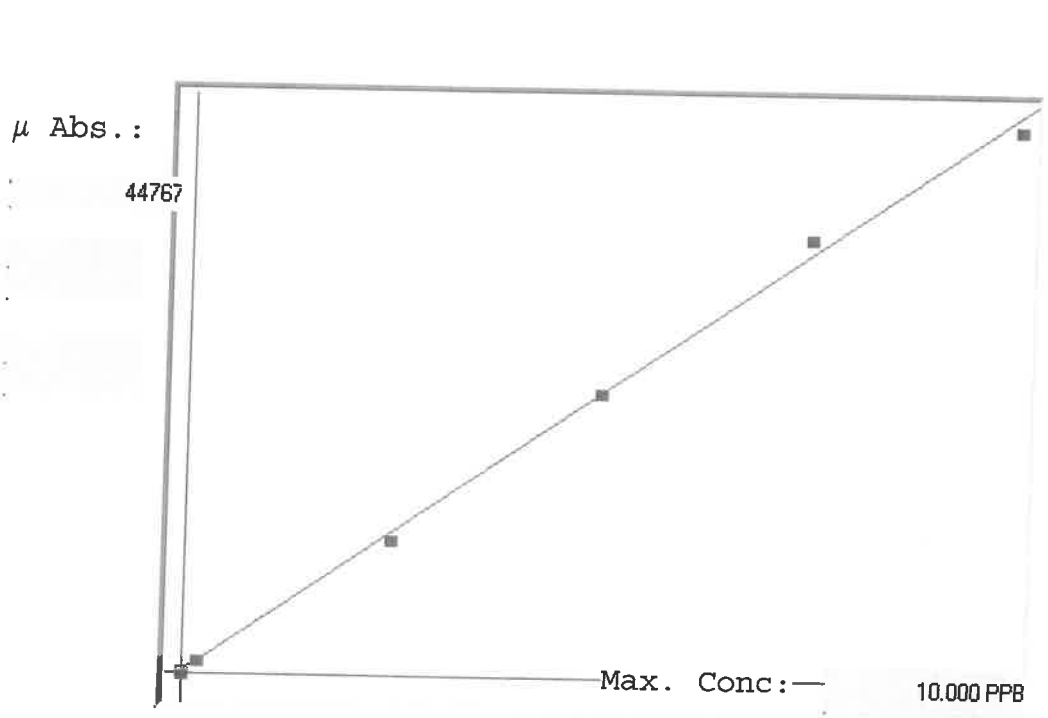
METAL
RAW DATA

Reviewed By:mohan
On:1/17/2025 7:46:34 PM
Inst Id :CV1
LB :LB134324

LB134324

7470A

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.004	-0.004	148	0.000	148	0				
0.2	0.200	0.209	0.009	1119	0.0 %	1119					
2.5	2.500	2.384	-0.116	11062	0.0 %	11062					
5.0	5.000	5.044	0.044	23225	0.0 %	23225					
7.5	7.500	7.810	0.310	35870	0.0 %	35870					
10.0	10.000	9.757	-0.243	44767	0.0 %	44767					

4
-5
1
4
-2

Reviewed By:mohan
On:1/17/2025 7:46:34 PM
Inst Id :CV1
LB :LB134324

LB134324 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 17 Jan 2025 11:29:34

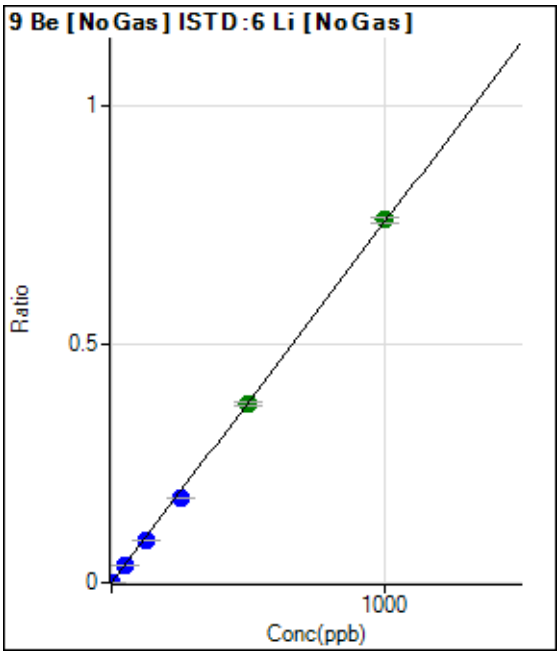
Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	148	-	0.00000	7470A	PPB	17 Jan 2025 11:31:54	S	Std
0.2 - 1	50-2	1119	-	0.20000	7470A	PPB	17 Jan 2025 11:34:10	S	Std
2.5 - 1	52.5	11062	-	2.50000	7470A	PPB	17 Jan 2025 11:36:27	S	Std
5.0 - 1	55	23225	-	5.00000	7470A	PPB	17 Jan 2025 11:38:44	S	Std
7.5 - 1	57.5	35870	-	7.50000	7470A	PPB	17 Jan 2025 11:48:52	S	Std
10.0 - 1	510	44767	-	10.00000	7470A	PPB	17 Jan 2025 11:51:07	S	Std
ICV60 - 1	ICV60	19691	4.2713		7470A	PPB	17 Jan 2025 11:58:32	U	SMPL
ICB60 - 1	ICB60	-63	-0.0500		7470A	PPB	17 Jan 2025 12:00:47	U	SMPL
CCV44 - 1	CCV44	23912	5.1946		7470A	PPB	17 Jan 2025 12:03:04	U	SMPL
CCB44 - 1	CCB44	-66	-0.0506		7470A	PPB	17 Jan 2025 12:05:19	U	SMPL
CRA - 1	CRA	1117	0.2081		7470A	PPB	17 Jan 2025 12:07:35	U	SMPL
HighStd - 1	HighStd	45603	9.9396		7470A	PPB	17 Jan 2025 12:09:50	U	SMPL
ChkStd - 1	ChkStd	31921	6.9466		7470A	PPB	17 Jan 2025 12:12:06	U	SMPL
PB166110BL - 1	PBW	92	-0.0161		7470A	PPB	17 Jan 2025 12:17:04	U	SMPL
PB166110BS - 1	LCSW	18477	4.0057		7470A	PPB	17 Jan 2025 12:19:19	U	SMPL
Q1092-01 - 1	427	1517	0.2956		7470A	PPB	17 Jan 2025 12:21:35	U	SMPL
Q1092-01DUP - 1	427DUP	1814	0.3606		7470A	PPB	17 Jan 2025 12:23:53	U	SMPL
Q1092-01MS - 1	427MS	15238	3.2972		7470A	PPB	17 Jan 2025 12:26:12	U	SMPL
Q1092-01MSD - 1	427MSD	14049	3.0371		7470A	PPB	17 Jan 2025 12:31:13	U	SMPL
Q1094-03 - 1	3181	293	0.0279		7470A	PPB	17 Jan 2025 12:33:28	U	SMPL
CCV45 - 1	CCV45	22474	4.8801		7470A	PPB	17 Jan 2025 12:35:45	U	SMPL
CCB45 - 1	CCB45	-53	-0.0478		7470A	PPB	17 Jan 2025 12:38:00	U	SMPL
Q1109-01 - 1	TAPIAL1-MW04I-011525-00-T3	558	0.0859		7470A	PPB	17 Jan 2025 12:40:17	U	SMPL
Q1109-02 - 1	TAPIAL1-MW04S-011525-00-T2	432	0.0583		7470A	PPB	17 Jan 2025 12:42:32	U	SMPL
Q1092-01LX5 - 1		306	0.0307		7470A	PPB	17 Jan 2025 12:44:48	U	SMPL
Q1092-01A - 1		17289	3.7458		7470A	PPB	17 Jan 2025 12:47:03	U	SMPL
CCV46 - 1	CCV46	24509	5.3252		7470A	PPB	17 Jan 2025 12:49:19	U	SMPL
CCB46 - 1	CCB46	-107	-0.0596		7470A	PPB	17 Jan 2025 12:51:36	U	SMPL

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012725MS-1.b\
Analysis File: P8012725MS-1.batch.bin
DA Date-Time: 2025-01-28 00:51:16
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-27 13:20:13
2	006CALS.d	S02	2025-01-27 13:26:57
3	007CALB.d	S03	2025-01-27 13:30:19
4	008CALS.d	S04	2025-01-27 13:33:31
5	009CALS.d	S05	2025-01-27 13:36:33
6	010CALS.d	S06	2025-01-27 13:39:33
7	011CALS.d	S07	2025-01-27 13:42:24
8	012CALS.d	S08	2025-01-27 13:45:11

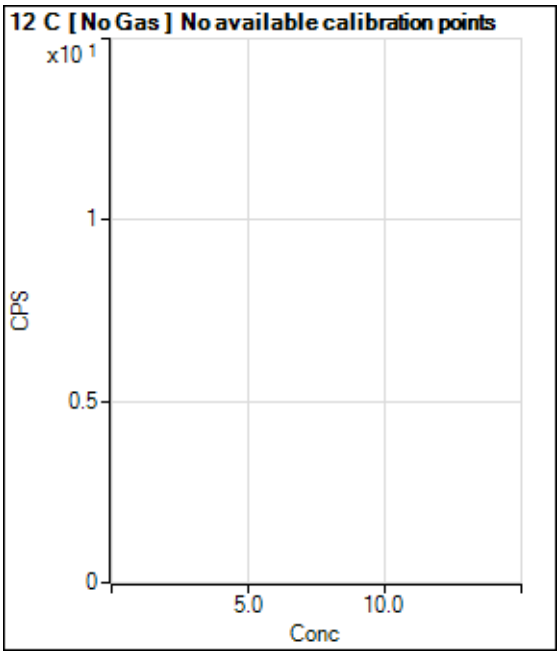
Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	228.31	0.0000	P	25.4
2	☐	1.000	0.966	3915.88	0.0008	P	5.6
3	☐	50.000	47.785	189612.95	0.0361	P	1.4
4	☐	125.000	117.788	478870.63	0.0890	P	2.0
5	☐	250.000	234.824	889047.50	0.1774	P	0.9
6	☐	500.000	496.031	1825639.87	0.3747	A	2.9
7	☐	1000.000	1006.791	3749451.59	0.7605	A	1.3
8	☐			944.50	0.0002	P	11.5

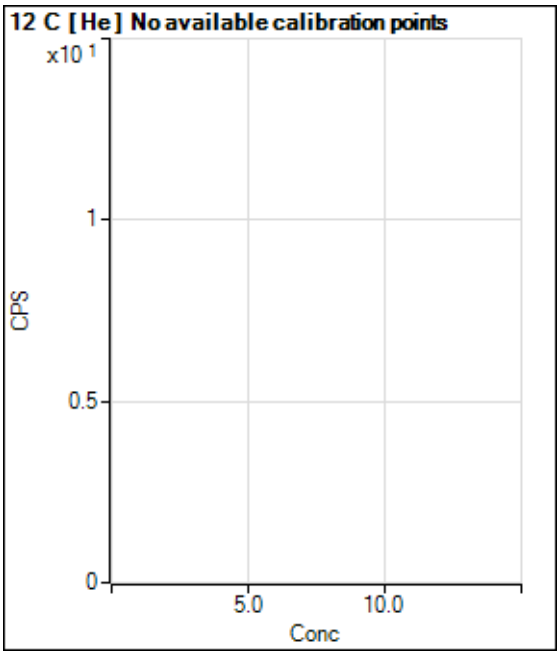
y = 7.5531E-004 * x + 4.4947E-005
R = 0.9999
DL = 0.0453
BEC = 0.05951

Weight: <None>
Min Conc: 0

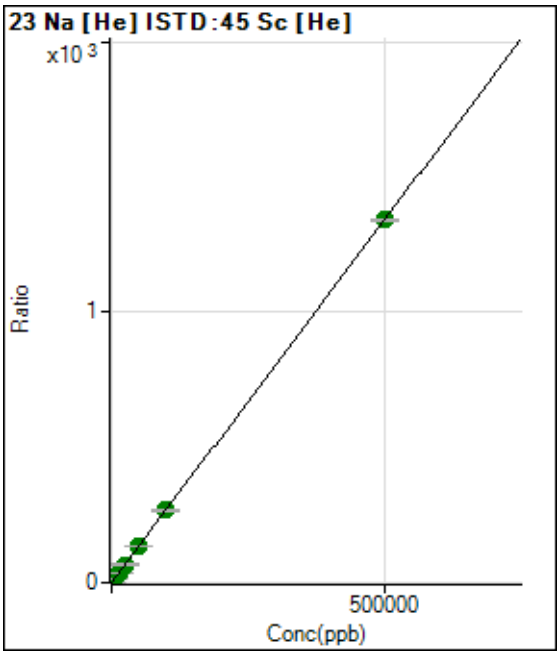


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1769269.90		A	3.4
2	☐			1897403.79		A	1.7
3	☐			1908058.43		A	1.6
4	☐			2086032.43		A	0.9
5	☐			2212723.70		A	0.7
6	☐			2371577.14		A	0.9
7	☐			2822436.83		A	1.7
8	☐			2559858.87		A	3.1

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11988.30		P	1.8
2	☐			12910.18		P	1.5
3	☐			13053.68		P	0.9
4	☐			14244.76		P	0.4
5	☐			15827.52		P	2.1
6	☐			17481.62		P	2.3
7	☐			21887.46		P	1.4
8	☐			22833.37		P	0.3

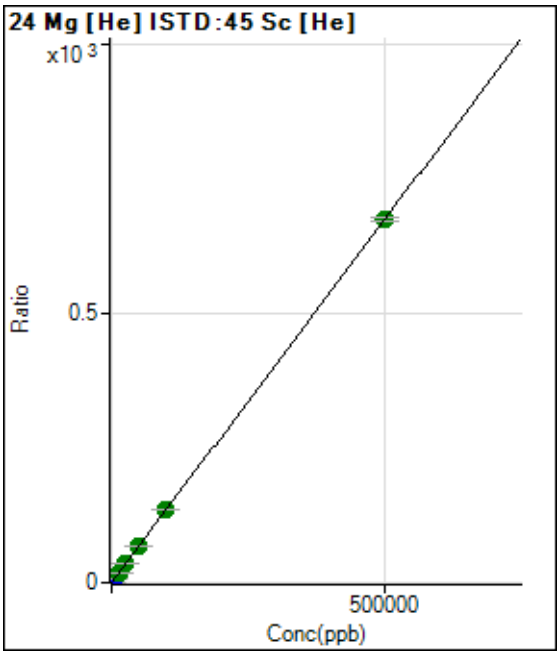


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15833.10	0.1341	P	11.5
2	☐	500.000	521.664	170391.74	1.5335	P	4.5
3	☐	5000.000	5009.523	1572409.52	13.5725	A	1.4
4	☐	12500.000	12948.078	3669869.77	34.8683	A	1.3
5	☐	25000.000	24993.993	7389561.63	67.1823	A	1.8
6	☐	50000.000	49987.934	14797815.89	134.2304	A	0.4
7	☐	100000.00	99572.017	32104172.02	267.2433	A	1.1
8	☐	500000.00	500075.78	124781665.9	1,341.624	A	0.4

y = 0.0027 * x + 0.1341
R = 1.0000
DL = 17.28
BEC = 49.99

Weight: <None>
Min Conc: 0

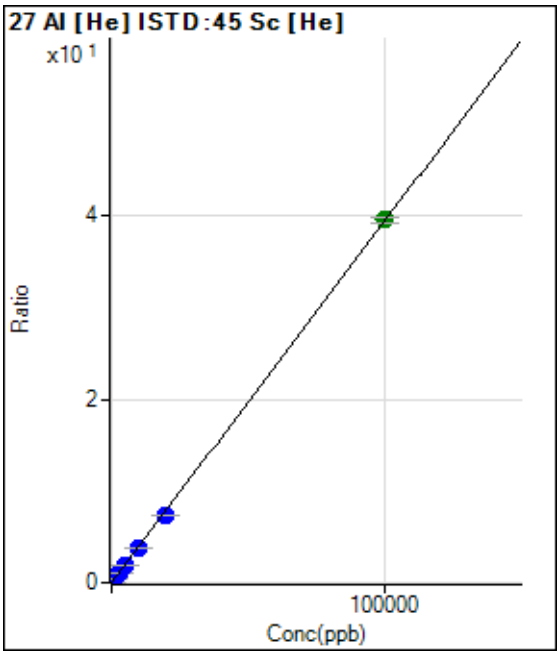
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	716.69	0.0060	P	4.1
2	☐	500.000	536.311	80979.80	0.7290	P	5.3
3	☐	5000.000	4890.812	764555.30	6.5991	P	0.1
4	☐	12500.000	13340.729	1893430.70	17.9900	A	0.8
5	☐	25000.000	25757.236	3819996.92	34.7280	A	1.1
6	☐	50000.000	49955.733	7424825.44	67.3487	A	1.2
7	☐	100000.00	99976.703	16191095.04	134.7793	A	1.2
8	☐	500000.00	499951.26	62678699.62	673.9636	A	1.1

y = 0.0013 * x + 0.0060
R = 1.0000
DL = 0.5445
BEC = 4.474

Weight: <None>
Min Conc: 0

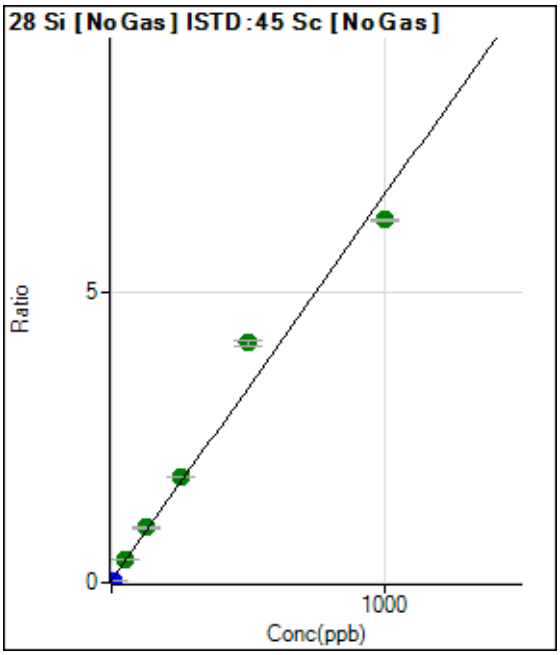


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0004	P	15.6
2	☐	20.000	19.507	903.37	0.0081	P	0.9
3	☐	1000.000	925.506	42358.13	0.3656	P	0.4
4	☐	2500.000	2422.126	100633.70	0.9561	P	1.4
5	☐	5000.000	4705.053	204251.98	1.8569	P	1.2
6	☐	10000.000	9342.478	406427.73	3.6867	P	0.5
7	☐	20000.000	18538.631	878773.85	7.3152	P	1.2
8	☐	100000.00	100375.46	3683198.76	39.6054	A	1.3

y = 3.9457E-004 * x + 4.2434E-004
R = 0.9999
DL = 0.5038
BEC = 1.075

Weight: <None>
Min Conc: 0

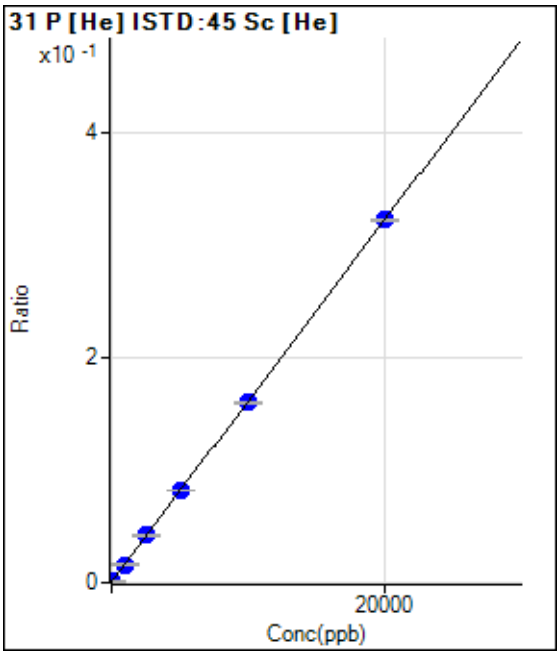
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	275638.80	0.0396	P	11.1
2	☐	10.000	1.227	324795.22	0.0478	P	2.7
3	☐	50.000	53.404	2872011.73	0.3940	A	0.5
4	☐	125.000	136.416	6907817.12	0.9449	A	2.1
5	☐	250.000	268.225	12607185.92	1.8196	A	0.5
6	☐	500.000	616.946	28472877.07	4.1338	A	2.3
7	☐	1000.000	935.461	45504965.99	6.2475	A	0.5
8	☐			392167.98	0.0660	P	7.1

y = 0.0066 * x + 0.0396
R = 0.9889
DL = 1.99
BEC = 5.973

Weight: <None>
Min Conc: 0

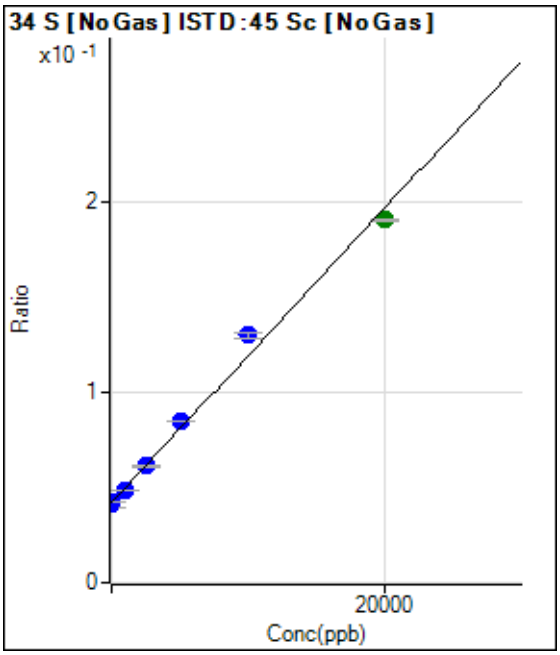


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-12.848	51.11	0.0004	P	38.0
2	☐	0.000	12.848	95.55	0.0009	P	16.5
3	☐	1000.000	947.169	1839.03	0.0159	P	5.3
4	☐	2500.000	2579.132	4431.84	0.0421	P	5.2
5	☐	5000.000	5041.814	8985.08	0.0817	P	0.2
6	☐	10000.000	9918.532	17645.26	0.1601	P	0.9
7	☐	20000.000	20023.030	38737.06	0.3225	P	0.8
8	☐			58.89	0.0006	P	46.5

y = 1.6072E-005 * x + 6.4818E-004
R = 1.0000
DL = 28.86
BEC = 40.33

Weight: <None>
Min Conc: 0

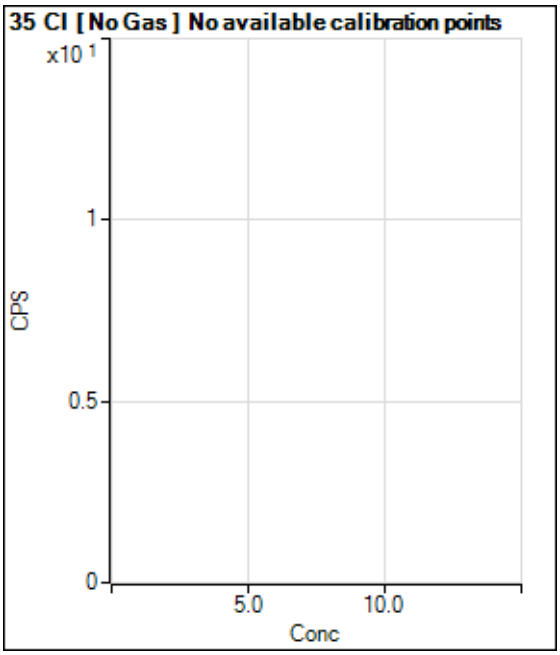
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-48.815	288930.47	0.0416	P	11.4
2	☐	0.000	48.815	287698.32	0.0423	P	1.5
3	☐	1000.000	841.073	353078.93	0.0484	P	0.4
4	☐	2500.000	2481.752	446910.27	0.0611	P	1.3
5	☐	5000.000	5503.058	585371.13	0.0845	P	0.3
6	☐	10000.000	11372.739	894552.82	0.1299	P	2.1
7	☐	20000.000	19198.093	1386760.92	0.1904	A	0.4
8	☐			254870.69	0.0429	P	2.4

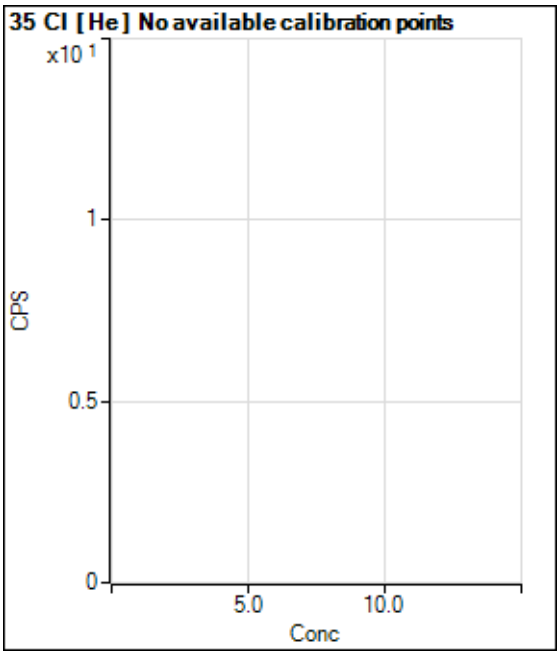
y = 7.7322E-006 * x + 0.0419
R = 0.9958
DL = 1042
BEC = 5424

Weight: <None>
Min Conc: 0

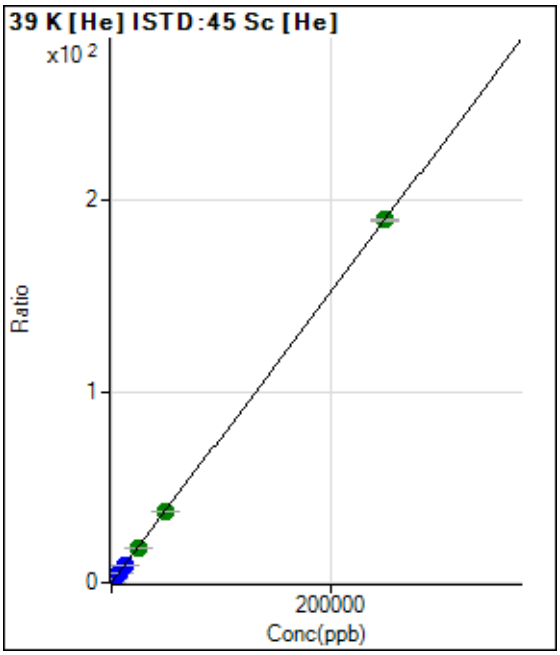


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			178229.12		P	0.8
2	☐			145402.28		P	2.2
3	☐			152776.17		P	0.6
4	☐			154148.89		P	0.6
5	☐			147096.11		P	1.7
6	☐			148696.95		P	0.5
7	☐			179357.05		P	1.1
8	☐			136342.72		P	2.3

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			623.35		P	4.7
2	☐			566.68		P	12.3
3	☐			563.35		P	9.8
4	☐			530.02		P	5.1
5	☐			578.91		P	13.6
6	☐			524.46		P	12.8
7	☐			702.25		P	11.4
8	☐			477.79		P	9.5

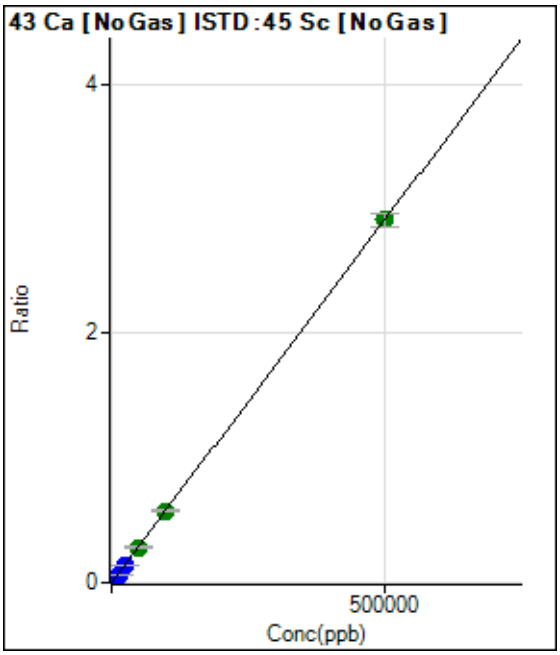


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4569.66	0.0387	P	10.3
2	☐	500.000	506.719	46949.39	0.4224	P	3.0
3	☐	2500.000	2275.182	204072.68	1.7615	P	1.2
4	☐	6250.000	5985.085	481085.93	4.5707	P	1.1
5	☐	12500.000	11675.649	976773.70	8.8798	P	0.9
6	☐	25000.000	24223.773	2026385.45	18.3816	A	1.2
7	☐	50000.000	48831.555	4446690.00	37.0153	A	1.0
8	☐	250000.00	250361.38	17635221.96	189.6193	A	0.9

y = 7.5723E-004 * x + 0.0387
R = 1.0000
DL = 15.7
BEC = 51.04

Weight: <None>
Min Conc: 0

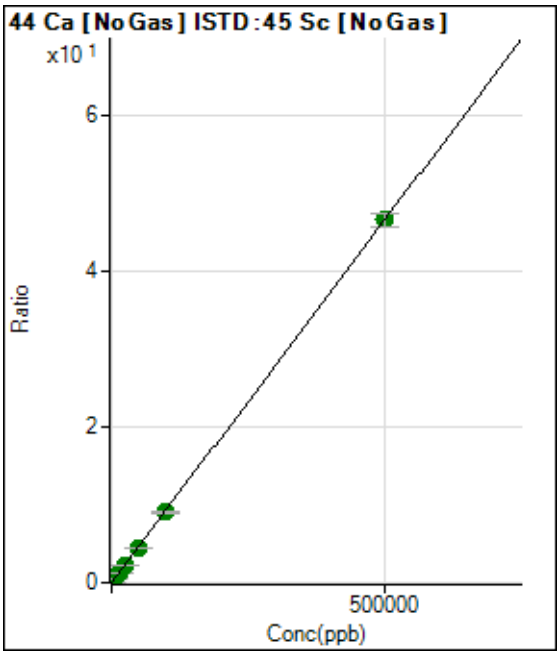
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	433.34	0.0001	P	9.7
2	☐	500.000	488.467	19747.03	0.0029	P	1.8
3	☐	5000.000	4652.432	197755.75	0.0271	P	0.6
4	☐	12500.000	11802.056	502489.06	0.0687	P	1.7
5	☐	25000.000	23601.053	951891.21	0.1374	P	1.3
6	☐	50000.000	48992.324	1963832.52	0.2851	A	2.3
7	☐	100000.00	98293.380	4165569.21	0.5720	A	2.6
8	☐	500000.00	500532.97	17302655.58	2.9124	A	3.9

y = 5.8185E-006 * x + 6.2232E-005
R = 1.0000
DL = 3.105
BEC = 10.7

Weight: <None>
Min Conc: 0

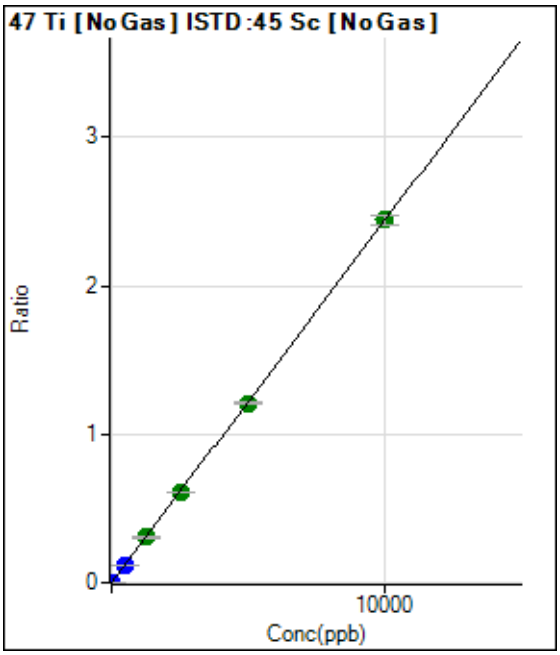


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6364.81	0.0009	P	9.4
2	☐	500.000	488.300	314733.25	0.0463	P	1.6
3	☐	5000.000	4820.062	3271431.06	0.4488	A	0.3
4	☐	12500.000	12193.544	8291308.98	1.1340	A	1.1
5	☐	25000.000	24302.114	15653536.85	2.2593	A	0.6
6	☐	50000.000	48454.092	31022961.76	4.5037	A	1.8
7	☐	100000.00	97718.187	66142765.68	9.0818	A	2.2
8	☐	500000.00	500655.32	276425926.9	46.5264	A	3.7

y = 9.2929E-005 * x + 9.1405E-004
R = 1.0000
DL = 2.779
BEC = 9.836

Weight: <None>
Min Conc: 0

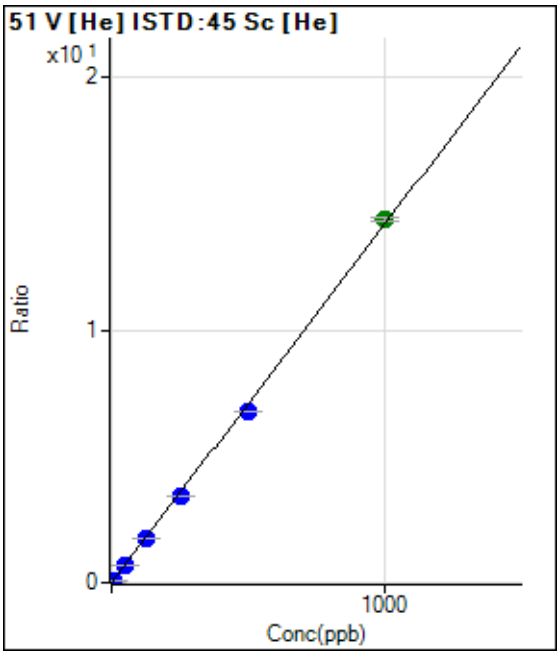
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0000	P	16.5
2	☐	5.000	4.970	8354.76	0.0012	P	2.9
3	☐	500.000	469.877	834954.96	0.1146	P	1.1
4	☐	1250.000	1251.267	2230329.25	0.3050	A	1.2
5	☐	2500.000	2489.382	4204516.33	0.6068	A	0.7
6	☐	5000.000	4962.995	8333634.81	1.2098	A	1.8
7	☐	10000.000	10022.505	17793564.88	2.4432	A	2.3
8	☐			4369.60	0.0007	P	7.6

y = 2.4377E-004 * x + 1.7325E-005
R = 1.0000
DL = 0.03516
BEC = 0.07107

Weight: <None>
Min Conc: 0

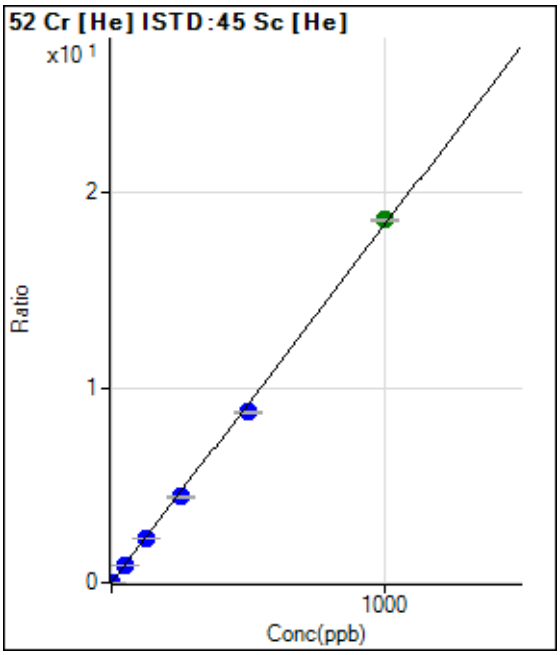


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0001	P	107.
2	☐	5.000	5.040	7944.48	0.0715	P	4.3
3	☐	50.000	46.922	77063.41	0.6652	P	0.6
4	☐	125.000	123.265	183910.03	1.7473	P	1.0
5	☐	250.000	241.765	376947.72	3.4271	P	1.7
6	☐	500.000	478.784	748198.77	6.7868	P	0.0
7	☐	1000.000	1013.037	1725068.90	14.3598	A	1.0
8	☐			354.45	0.0038	P	8.0

y = 0.0142 * x + 5.7191E-005
R = 0.9996
DL = 0.01298
BEC = 0.004035

Weight: <None>
Min Conc: 0

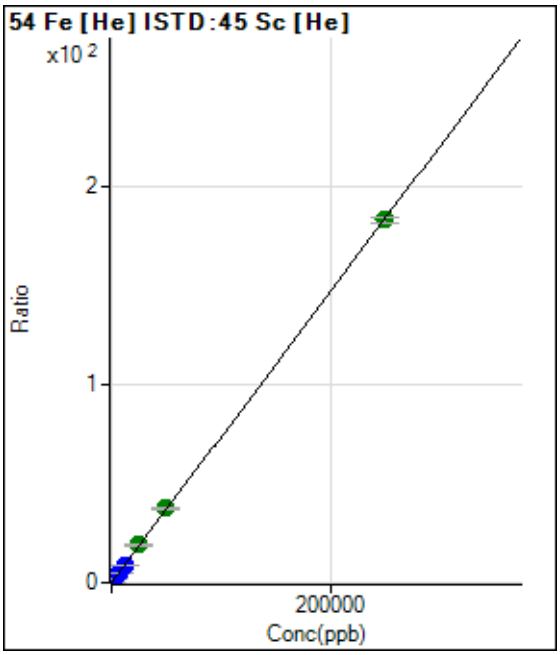
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	537.79	0.0045	P	6.6
2	☐	2.000	2.097	4778.63	0.0430	P	4.7
3	☐	50.000	47.892	102302.09	0.8830	P	0.4
4	☐	125.000	124.138	240136.53	2.2815	P	1.1
5	☐	250.000	240.063	484814.56	4.4079	P	2.1
6	☐	500.000	476.469	963968.66	8.7441	P	0.7
7	☐	1000.000	1014.463	2236008.02	18.6122	A	0.6
8	☐			2731.43	0.0294	P	1.4

y = 0.0183 * x + 0.0045
R = 0.9995
DL = 0.0488
BEC = 0.2474

Weight: <None>
Min Conc: 0

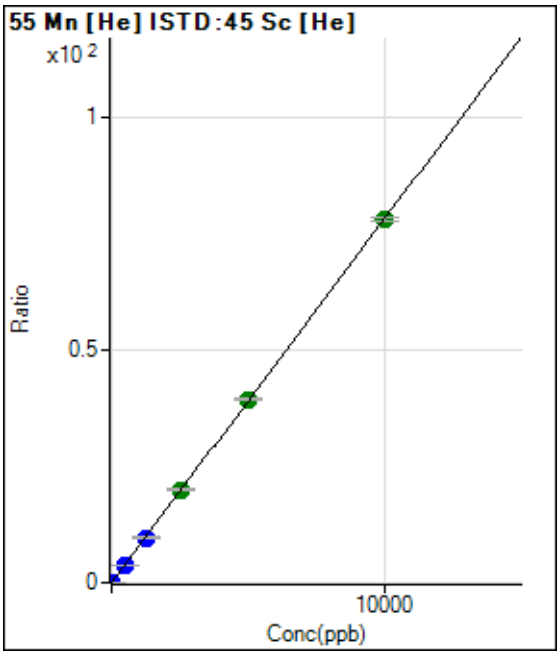


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	502.24	0.0042	P	7.0
2	☐	50.000	59.082	5281.10	0.0475	P	3.0
3	☐	2500.000	2472.237	210320.33	1.8154	P	1.1
4	☐	6250.000	6409.370	494652.60	4.6998	P	1.0
5	☐	12500.000	12402.664	999914.13	9.0906	P	1.3
6	☐	25000.000	25864.318	2089464.64	18.9527	A	1.1
7	☐	50000.000	51065.842	4494843.30	37.4157	A	0.9
8	☐	250000.00	249701.55	17012699.61	182.9387	A	1.3

y = 7.3261E-004 * x + 0.0042
R = 1.0000
DL = 1.202
BEC = 5.754

Weight: <None>
Min Conc: 0

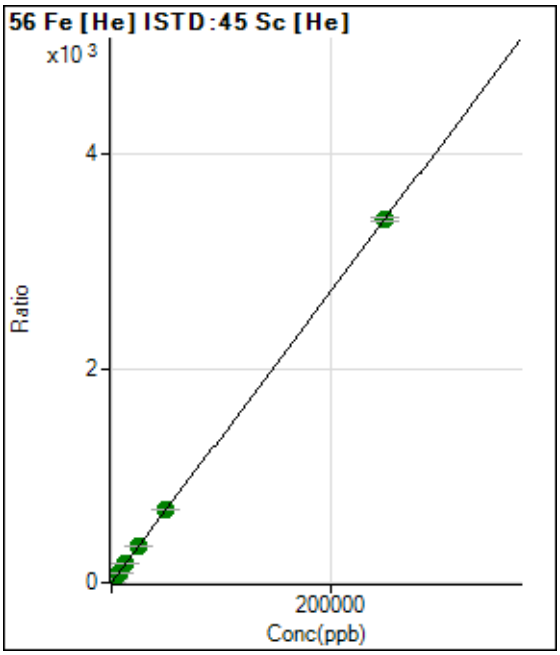
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	277.78	0.0023	P	5.5
2	☐	1.000	1.135	1248.96	0.0112	P	1.9
3	☐	500.000	478.748	434658.07	3.7518	P	0.9
4	☐	1250.000	1237.577	1020388.19	9.6947	P	1.1
5	☐	2500.000	2559.691	2205206.56	20.0492	A	2.0
6	☐	5000.000	5028.332	4341799.17	39.3830	A	1.0
7	☐	10000.000	9973.527	9383804.51	78.1126	A	0.9
8	☐			3275.97	0.0352	P	1.8

y = 0.0078 * x + 0.0023
R = 1.0000
DL = 0.04919
BEC = 0.2988

Weight: <None>
Min Conc: 0

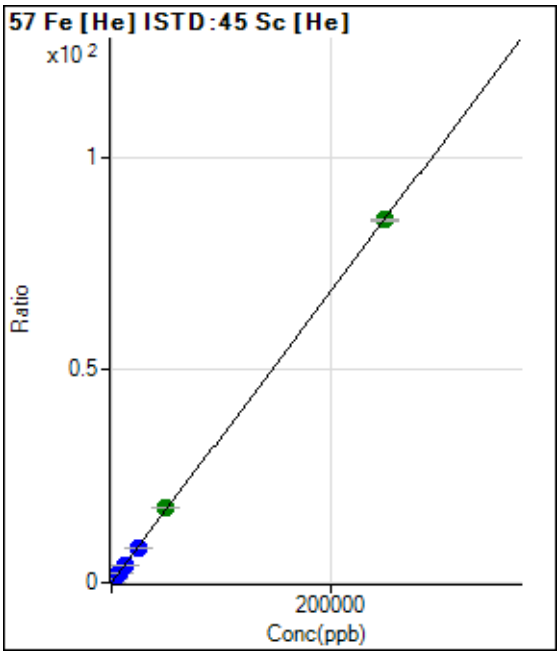


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8246.19	0.0695	P	5.5
2	☐	50.000	55.849	91731.82	0.8257	P	5.0
3	☐	2500.000	2549.597	4007763.66	34.5922	A	0.5
4	☐	6250.000	6525.263	9306595.83	88.4245	A	0.6
5	☐	12500.000	12658.931	18862966.66	171.4772	A	0.5
6	☐	25000.000	25013.272	37345885.83	338.7607	A	0.2
7	☐	50000.000	50110.815	81523832.12	678.5929	A	0.3
8	☐	250000.00	249961.18	314784968.6	3,384.658	A	0.9

y = 0.0135 * x + 0.0695
R = 1.0000
DL = 0.8531
BEC = 5.131

Weight: <None>
Min Conc: 0

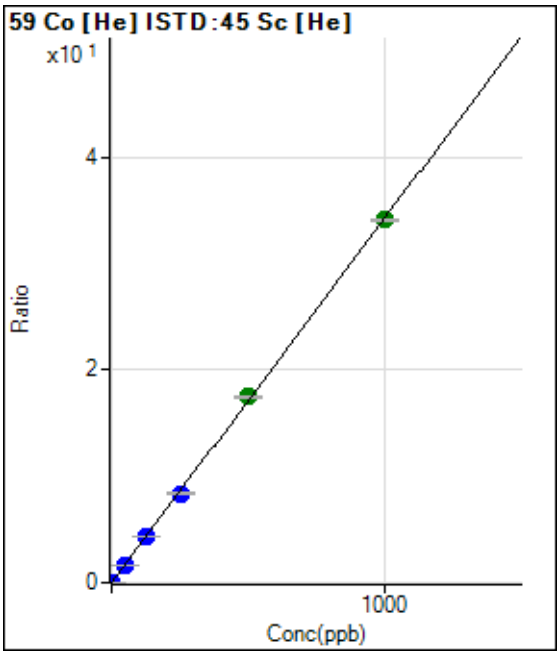
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1	☐	0.000	0.000	272.28	0.0023	P	46.2
2	☐	50.000	52.447	2242.42	0.0202	P	8.1
3	☐	2500.000	2441.185	96778.78	0.8354	P	1.4
4	☐	6250.000	6275.875	225650.00	2.1439	P	0.3
5	☐	12500.000	12194.669	457993.29	4.1637	P	1.3
6	☐	25000.000	24083.986	906306.05	8.2210	P	0.2
7	☐	50000.000	51330.028	2104611.91	17.5187	A	0.5
8	☐	250000.00	249840.80	7929709.67	85.2604	A	0.9

y = 3.4125E-004 * x + 0.0023
R = 1.0000
DL = 9.357
BEC = 6.754

Weight: <None>
Min Conc: 0

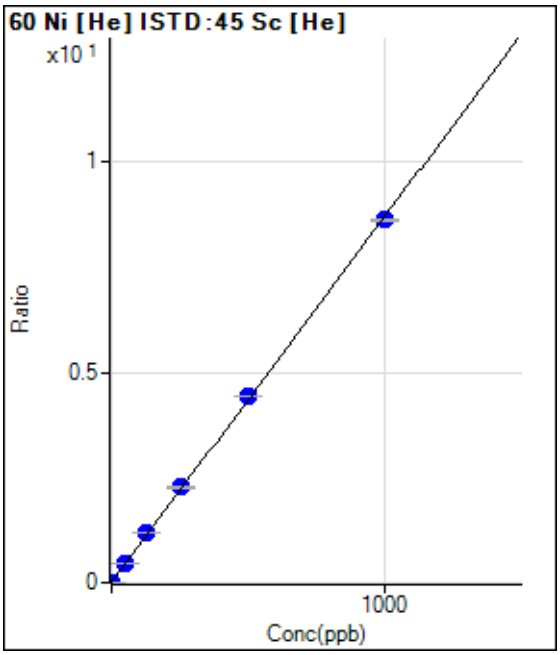


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0016	P	12.9
2	☐	1.000	1.100	4366.27	0.0393	P	2.5
3	☐	50.000	48.753	193424.55	1.6695	P	0.4
4	☐	125.000	125.857	453352.85	4.3073	P	1.1
5	☐	250.000	244.043	918478.98	8.3505	P	1.8
6	☐	500.000	510.320	1924822.84	17.4600	A	0.5
7	☐	1000.000	996.284	4095078.55	34.0852	A	0.8
8	☐			6617.14	0.0712	P	3.7

y = 0.0342 * x + 0.0016
R = 0.9999
DL = 0.01853
BEC = 0.04787

Weight: <None>
Min Conc: 0

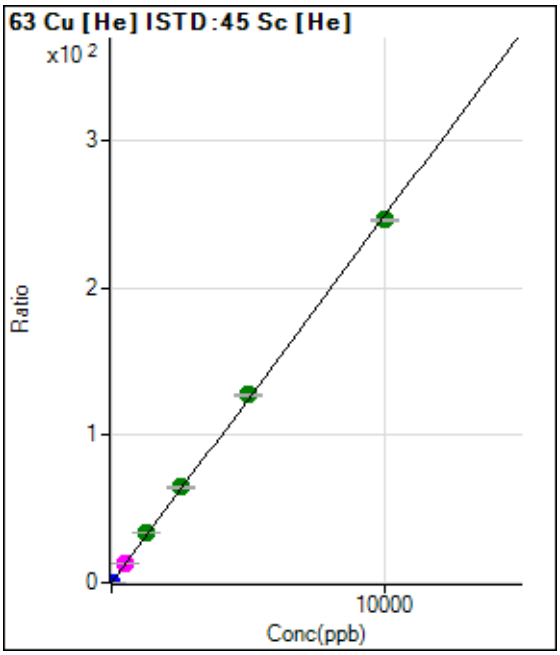
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	850.03	0.0071	P	10.2
2	☐	1.000	1.221	1970.16	0.0177	P	6.4
3	☐	50.000	52.504	53730.94	0.4638	P	0.9
4	☐	125.000	135.760	125031.01	1.1879	P	0.6
5	☐	250.000	261.268	250737.38	2.2796	P	1.7
6	☐	500.000	507.944	487836.75	4.4251	P	0.3
7	☐	1000.000	991.740	1037111.15	8.6331	P	0.9
8	☐			2463.57	0.0265	P	5.6

y = 0.0087 * x + 0.0071
R = 0.9998
DL = 0.2504
BEC = 0.8184

Weight: <None>
Min Conc: 0

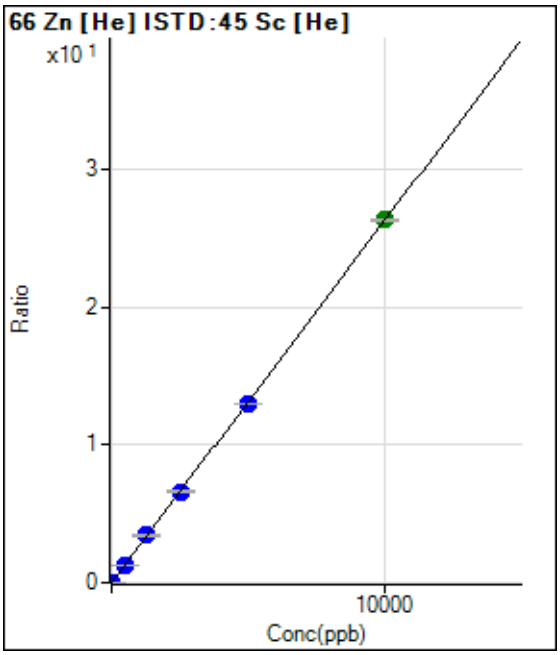


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1912.37	0.0161	P	7.2
2	☐	2.000	2.306	8167.98	0.0735	P	4.7
3	☐	500.000	512.317	1478517.89	12.7627	M	3.0
4	☐	1250.000	1375.220	3602975.37	34.2320	A	0.7
5	☐	2500.000	2619.915	7171350.03	65.2003	A	2.1
6	☐	5000.000	5116.606	14035986.60	127.3186	A	0.2
7	☐	10000.000	9895.450	29578898.45	246.2174	A	0.7
8	☐			5012.05	0.0539	P	4.4

y = 0.0249 * x + 0.0161
R = 0.9998
DL = 0.1406
BEC = 0.6482

Weight: <None>
Min Conc: 0

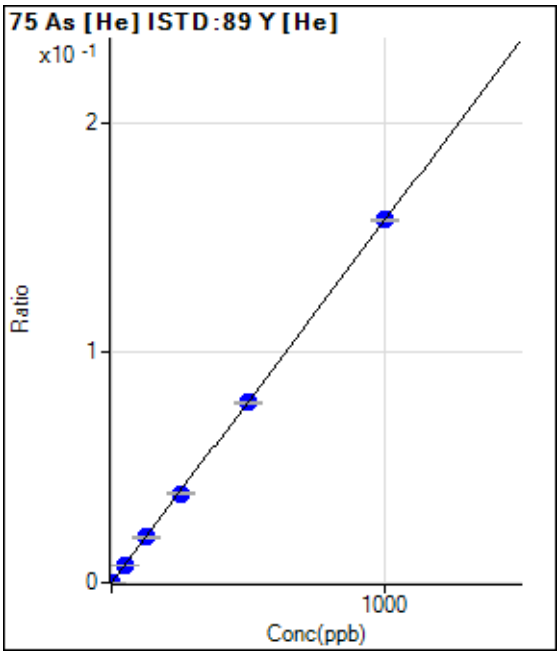
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0019	P	5.4
2	☐	2.000	5.381	1790.13	0.0161	P	4.7
3	☐	500.000	500.725	152484.20	1.3162	P	0.8
4	☐	1250.000	1302.418	359993.81	3.4203	P	0.5
5	☐	2500.000	2506.944	723939.38	6.5818	P	1.7
6	☐	5000.000	4927.116	1425874.98	12.9339	P	0.1
7	☐	10000.000	10028.117	3162342.38	26.3222	A	0.6
8	☐			826.70	0.0089	P	8.3

y = 0.0026 * x + 0.0019
R = 0.9999
DL = 0.1196
BEC = 0.7404

Weight: <None>
Min Conc: 0

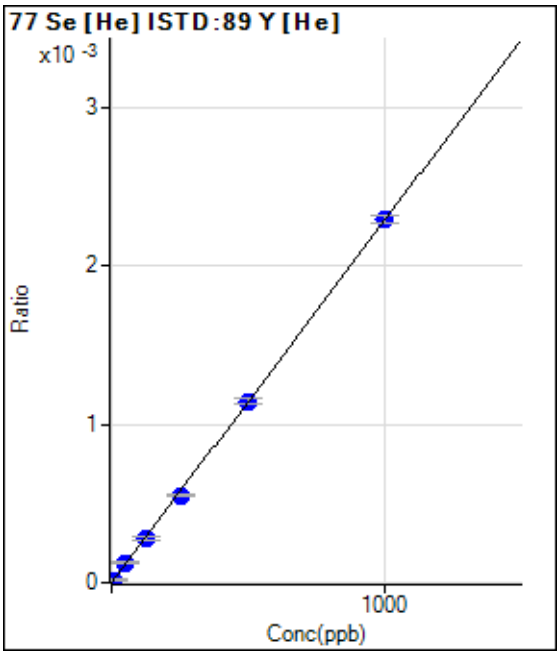


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	1.000	1.198	205.56	0.0002	P	19.4
3	☐	50.000	48.512	8652.73	0.0076	P	1.9
4	☐	125.000	125.482	20368.15	0.0198	P	1.5
5	☐	250.000	246.068	41558.91	0.0387	P	2.1
6	☐	500.000	497.688	83695.22	0.0783	P	0.6
7	☐	1000.000	1002.153	180659.41	0.1577	P	0.3
8	☐			72.22	0.0001	P	41.1

y = 1.5738E-004 * x + 1.6101E-006
R = 1.0000
DL = 0.05316
BEC = 0.01023

Weight: <None>
Min Conc: 0

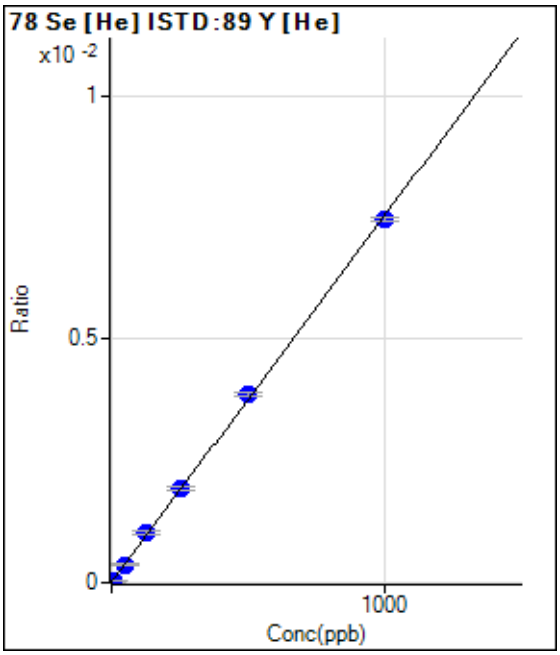
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.613	18.89	0.0000	P	26.7
3	☐	50.000	54.104	140.00	0.0001	P	8.8
4	☐	125.000	122.249	287.78	0.0003	P	11.4
5	☐	250.000	240.274	588.91	0.0005	P	2.6
6	☐	500.000	501.237	1223.40	0.0011	P	2.8
7	☐	1000.000	1001.939	2621.38	0.0023	P	1.9
8	☐			2.22	0.0000	P	86.6

y = 2.2842E-006 * x + 0.0000E+000
R = 0.9999
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

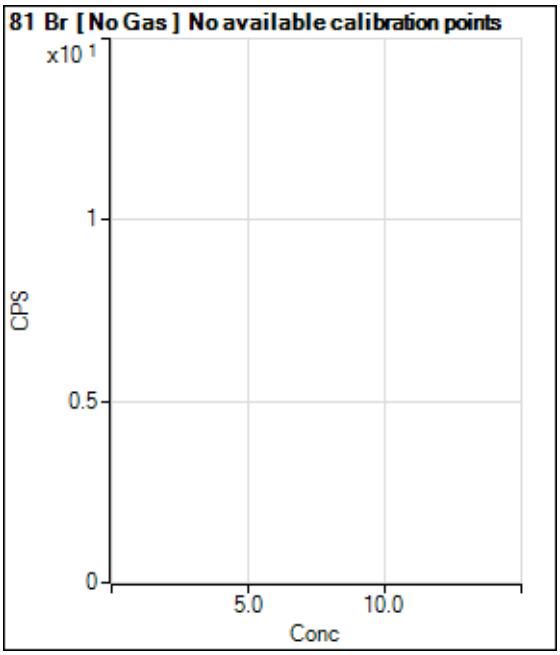


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	58.4
2	☐	5.000	5.439	51.11	0.0000	P	12.8
3	☐	50.000	48.449	420.01	0.0004	P	11.4
4	☐	125.000	137.238	1072.27	0.0010	P	7.5
5	☐	250.000	257.465	2086.84	0.0019	P	3.4
6	☐	500.000	515.301	4152.88	0.0039	P	1.9
7	☐	1000.000	989.029	8538.22	0.0075	P	1.2
8	☐			8.89	0.0000	P	20.9

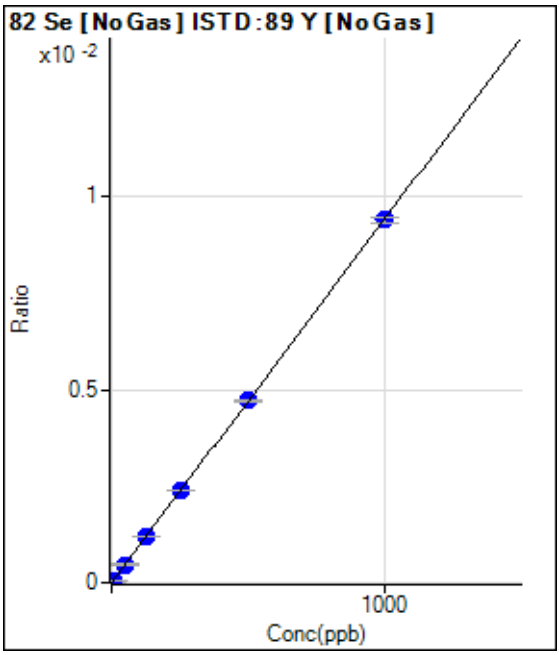
y = 7.5308E-006 * x + 5.9162E-006
R = 0.9997
DL = 1.376
BEC = 0.7856

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5552.27		P	3.6
2	☐			5334.40		P	1.0
3	☐			5580.05		P	1.1
4	☐			5347.73		P	2.2
5	☐			5413.32		P	2.9
6	☐			5535.59		P	1.1
7	☐			5991.35		P	1.7
8	☐			5655.63		P	4.7

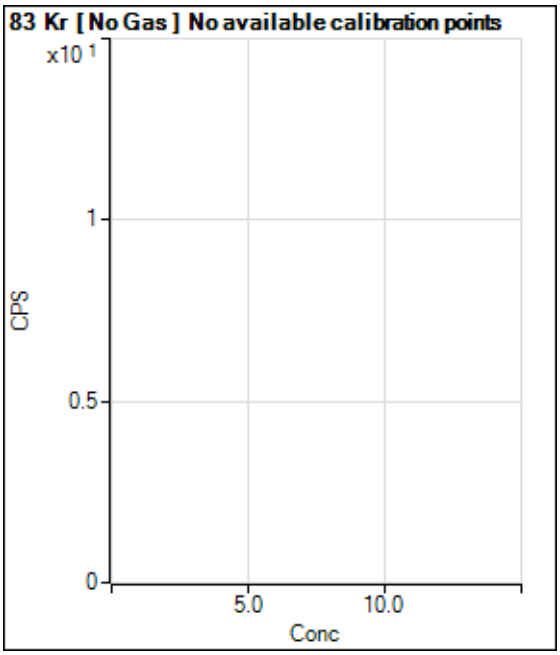


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	28.6
2	☐	5.000	5.023	835.60	0.0000	P	4.1
3	☐	50.000	49.749	8700.66	0.0005	P	1.8
4	☐	125.000	126.483	22118.89	0.0012	P	1.6
5	☐	250.000	255.382	41849.26	0.0024	P	0.6
6	☐	500.000	500.368	82440.24	0.0047	P	0.6
7	☐	1000.000	998.297	173042.03	0.0094	P	1.4
8	☐			36.67	0.0000	P	84.5

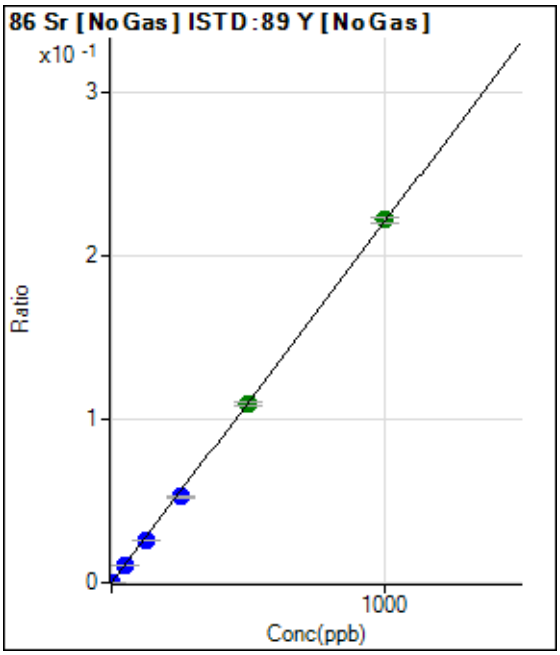
y = 9.4089E-006 * x + 1.5147E-006
R = 1.0000
DL = 0.1382
BEC = 0.161

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			126.67		P	13.2
2	☐			166.67		P	22.5
3	☐			181.11		P	19.9
4	☐			154.45		P	10.0
5	☐			151.11		P	1.3
6	☐			180.01		P	8.5
7	☐			201.12		P	21.3
8	☐			220.00		P	6.6

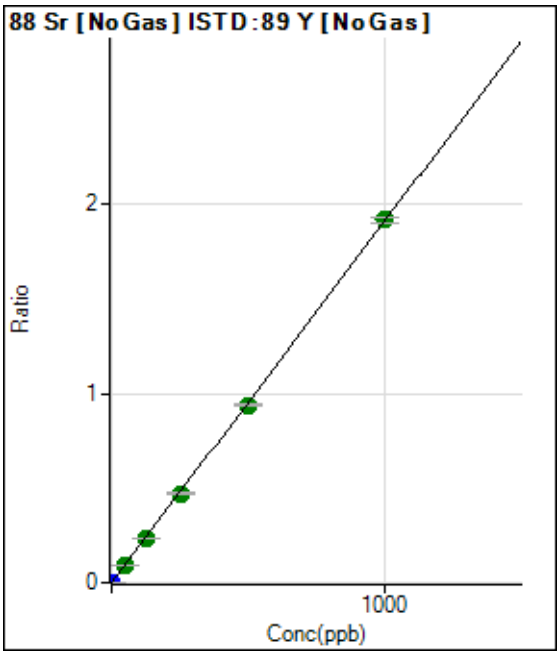


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.90	0.0000	P	13.0
2	☐	1.000	0.927	3759.43	0.0002	P	1.0
3	☐	50.000	46.443	190355.81	0.0103	P	1.2
4	☐	125.000	117.892	483691.66	0.0261	P	1.3
5	☐	250.000	238.107	915758.66	0.0526	P	0.8
6	☐	500.000	496.151	1918590.76	0.1096	A	1.8
7	☐	1000.000	1005.964	4093307.41	0.2222	A	1.6
8	☐			10534.06	0.0007	P	6.6

y = 2.2090E-004 * x + 1.4602E-005
R = 0.9999
DL = 0.02577
BEC = 0.0661

Weight: <None>
Min Conc: 0

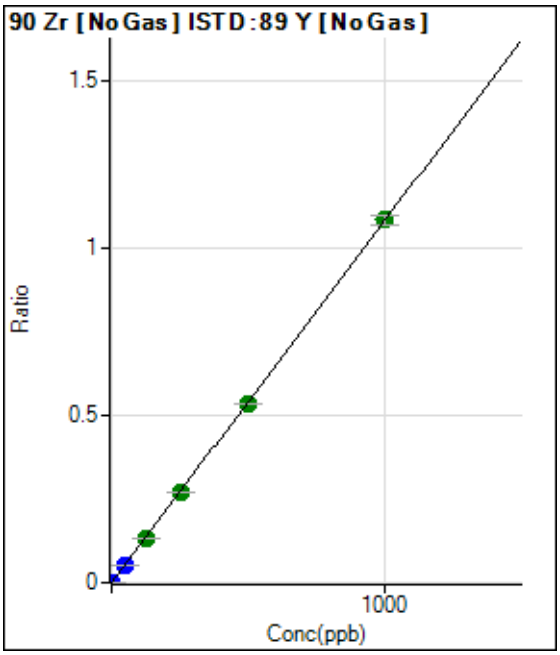
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	707.80	0.0000	P	15.5
2	☐	1.000	0.926	31007.90	0.0018	P	1.4
3	☐	50.000	48.876	1731618.67	0.0935	A	1.0
4	☐	125.000	124.150	4405302.71	0.2373	A	1.0
5	☐	250.000	247.340	8229018.91	0.4728	A	1.6
6	☐	500.000	492.477	16476383.09	0.9413	A	1.4
7	☐	1000.000	1004.589	35367130.30	1.9201	A	1.7
8	☐			89845.38	0.0059	P	4.1

y = 0.0019 * x + 3.9934E-005
R = 1.0000
DL = 0.009745
BEC = 0.02089

Weight: <None>
Min Conc: 0

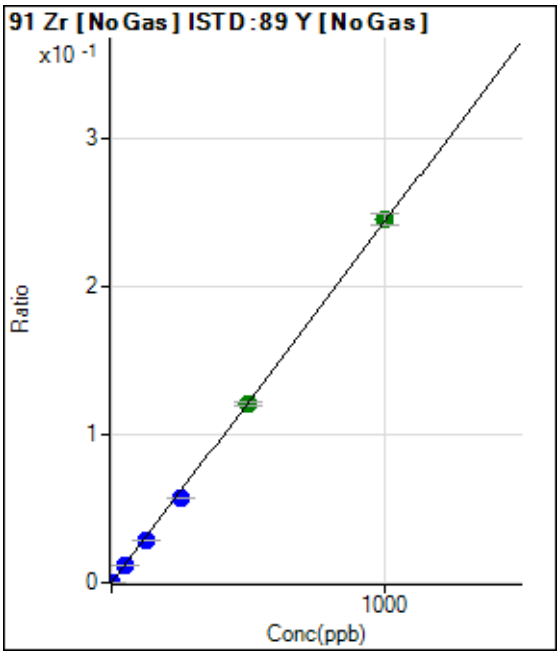


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	564.46	0.0000	P	3.2
2	☐	1.000	0.966	18456.82	0.0011	P	1.1
3	☐	50.000	46.074	924212.16	0.0499	P	1.0
4	☐	125.000	123.840	2487693.96	0.1340	A	1.1
5	☐	250.000	248.932	4688398.51	0.2694	A	0.8
6	☐	500.000	494.723	9371104.17	0.5353	A	0.3
7	☐	1000.000	1003.247	19992217.34	1.0855	A	2.9
8	☐			9665.65	0.0006	P	5.3

y = 0.0011 * x + 3.1501E-005
R = 1.0000
DL = 0.00276
BEC = 0.02912

Weight: <None>
Min Conc: 0

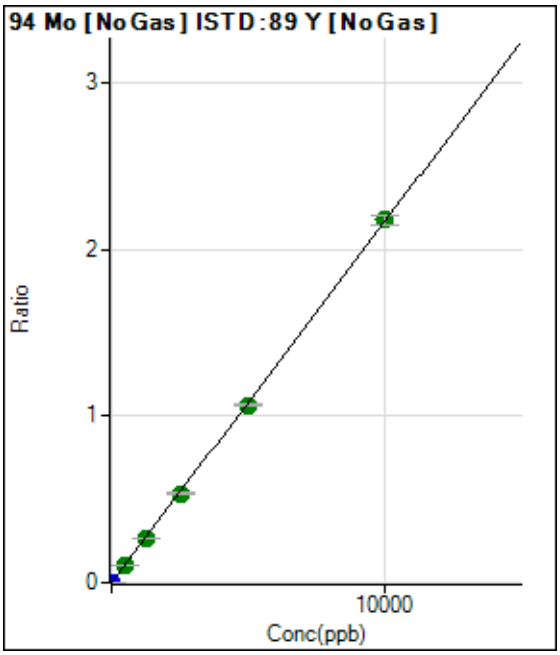
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	13.6
2	☐	1.000	0.969	4161.78	0.0002	P	4.3
3	☐	50.000	45.587	205497.41	0.0111	P	1.2
4	☐	125.000	116.692	526803.24	0.0284	P	0.5
5	☐	250.000	235.625	997299.58	0.0573	P	1.1
6	☐	500.000	496.907	2114769.98	0.1208	A	1.9
7	☐	1000.000	1006.400	4506863.96	0.2447	A	3.1
8	☐			2180.19	0.0001	P	7.7

y = 2.4314E-004 * x + 7.1949E-006
R = 0.9999
DL = 0.01207
BEC = 0.02959

Weight: <None>
Min Conc: 0

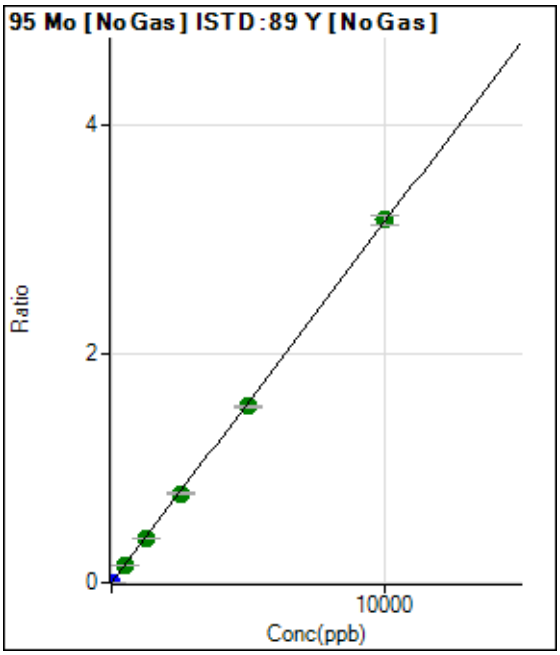


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	285.56	0.0000	P	2.0
2	☐	5.000	5.640	21228.50	0.0012	P	2.1
3	☐	500.000	482.712	1938444.66	0.1046	A	0.5
4	☐	1250.000	1230.309	4949033.16	0.2666	A	1.2
5	☐	2500.000	2466.768	9304185.42	0.5346	A	1.0
6	☐	5000.000	4911.716	18632288.89	1.0644	A	0.9
7	☐	10000.000	10055.775	40135484.40	2.1791	A	2.5
8	☐			8655.02	0.0006	P	11.1

y = 2.1670E-004 * x + 1.5981E-005
R = 0.9999
DL = 0.004525
BEC = 0.07375

Weight: <None>
Min Conc: 0

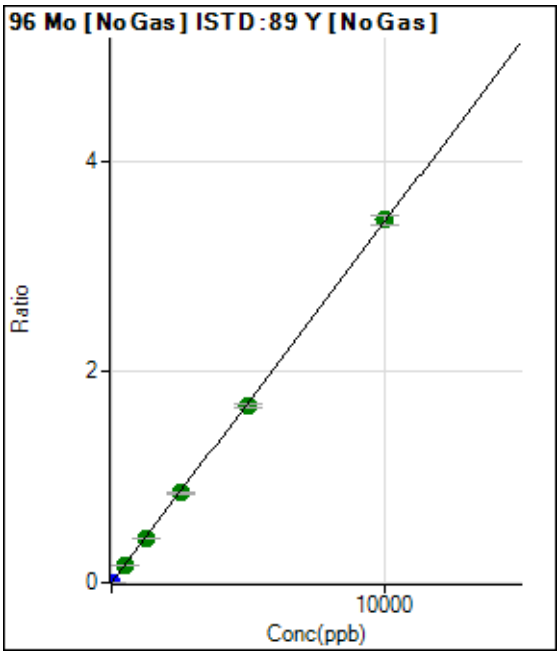
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.11	0.0000	P	5.7
2	☐	5.000	4.725	25731.76	0.0015	P	0.6
3	☐	500.000	483.816	2828682.87	0.1527	A	0.2
4	☐	1250.000	1221.243	7152796.21	0.3853	A	0.7
5	☐	2500.000	2471.828	13575138.13	0.7799	A	1.0
6	☐	5000.000	4888.477	26999805.99	1.5424	A	1.0
7	☐	10000.000	10067.209	58504785.79	3.1764	A	2.5
8	☐			8064.66	0.0005	P	11.8

y = 3.1552E-004 * x + 1.0163E-005
R = 0.9999
DL = 0.005536
BEC = 0.03221

Weight: <None>
Min Conc: 0

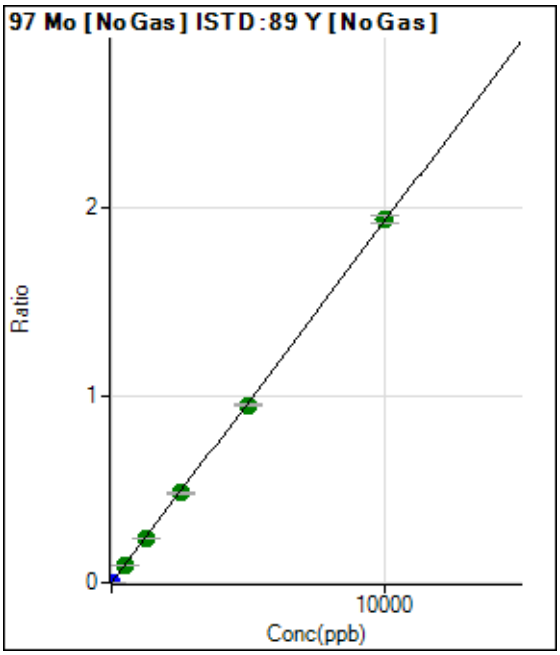


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	318.90	0.0000	P	8.5
2	☐	5.000	4.863	28812.22	0.0017	P	1.1
3	☐	500.000	483.361	3063102.04	0.1653	A	0.4
4	☐	1250.000	1217.108	7726453.71	0.4162	A	0.6
5	☐	2500.000	2481.610	14771290.20	0.8487	A	0.5
6	☐	5000.000	4895.238	29301907.89	1.6741	A	1.7
7	☐	10000.000	10061.922	63376610.72	3.4410	A	2.5
8	☐			12358.96	0.0008	P	10.1

y = 3.4198E-004 * x + 1.7884E-005
R = 0.9999
DL = 0.01331
BEC = 0.0523

Weight: <None>
Min Conc: 0

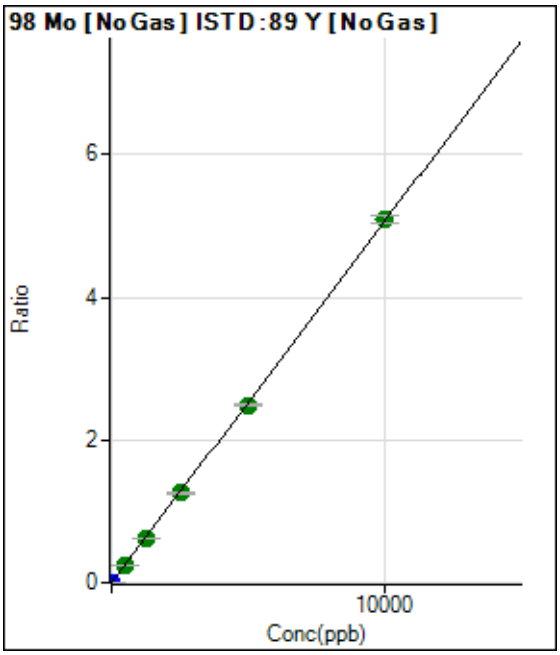
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0000	P	13.9
2	☐	5.000	4.781	15939.29	0.0009	P	1.1
3	☐	500.000	479.607	1715516.47	0.0926	A	1.4
4	☐	1250.000	1229.670	4406607.22	0.2374	A	0.4
5	☐	2500.000	2481.172	8336781.89	0.4790	A	0.5
6	☐	5000.000	4921.583	16629661.98	0.9501	A	1.6
7	☐	10000.000	10047.477	35725592.53	1.9396	A	2.1
8	☐			4406.31	0.0003	P	15.0

y = 1.9304E-004 * x + 7.0284E-006
R = 1.0000
DL = 0.01522
BEC = 0.03641

Weight: <None>
Min Conc: 0

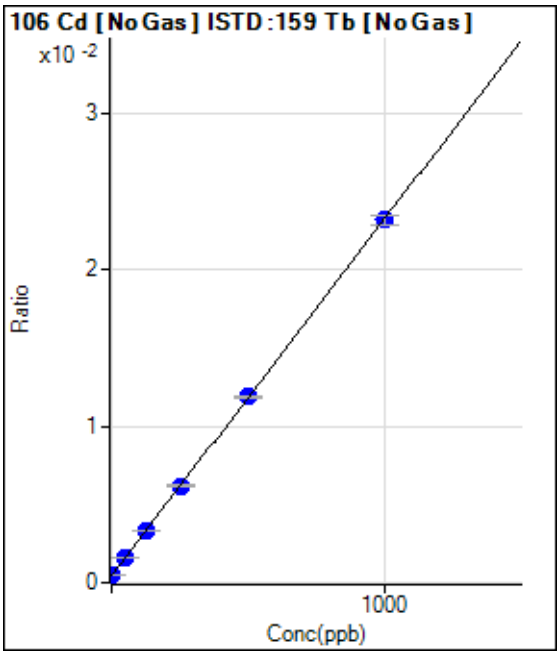


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	327.78	0.0000	P	11.1
2	☐	5.000	4.779	41756.21	0.0024	P	0.7
3	☐	500.000	481.587	4513915.32	0.2436	A	1.3
4	☐	1250.000	1225.309	11505428.58	0.6198	A	1.3
5	☐	2500.000	2479.615	21832321.90	1.2543	A	1.2
6	☐	5000.000	4917.615	43544248.24	2.4876	A	0.9
7	☐	10000.000	10050.296	93640340.83	5.0839	A	2.0
8	☐			11175.73	0.0007	P	14.2

y = 5.0585E-004 * x + 1.8340E-005
R = 0.9999
DL = 0.01212
BEC = 0.03626

Weight: <None>
Min Conc: 0

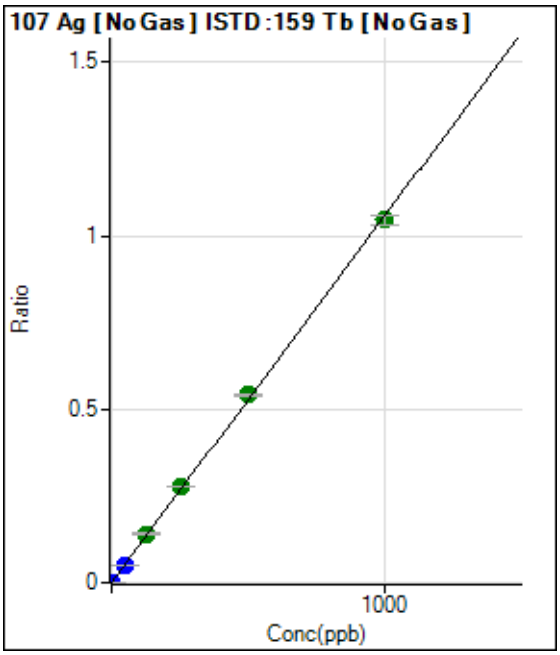
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5764.60	0.0004	P	3.2
2	☐	1.000	1.222	5952.47	0.0005	P	4.0
3	☐	50.000	50.374	21628.13	0.0016	P	4.0
4	☐	125.000	127.744	46109.00	0.0034	P	1.4
5	☐	250.000	252.873	80701.73	0.0062	P	1.5
6	☐	500.000	502.619	152828.44	0.0119	P	0.7
7	☐	1000.000	997.610	317502.42	0.0232	P	2.4
8	☐			5088.77	0.0004	P	1.8

y = 2.2813E-005 * x + 4.4062E-004
R = 1.0000
DL = 1.878
BEC = 19.31

Weight: <None>
Min Conc: 0

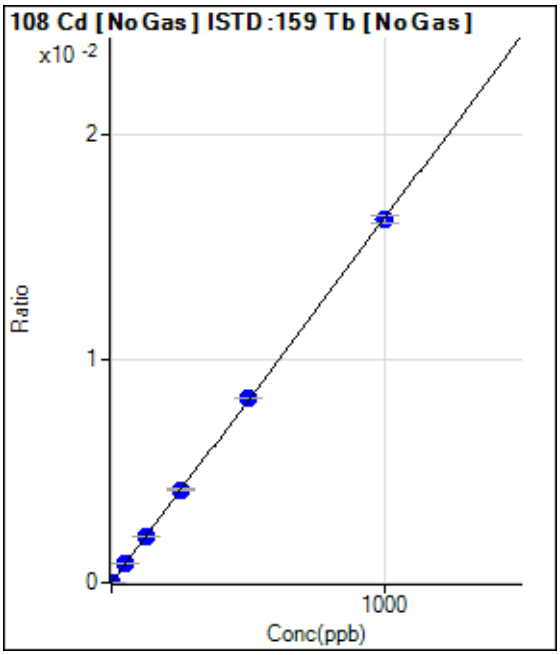


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	10.1
2	☐	1.000	0.953	12921.71	0.0010	P	2.5
3	☐	50.000	49.576	712362.34	0.0524	P	0.1
4	☐	125.000	132.810	1927266.57	0.1402	A	1.6
5	☐	250.000	260.631	3576570.40	0.2752	A	0.6
6	☐	500.000	512.571	6945881.01	0.5412	A	1.2
7	☐	1000.000	990.102	14306860.62	1.0453	A	2.3
8	☐			1595.67	0.0001	P	12.8

y = 0.0011 * x + 1.0660E-005
R = 0.9998
DL = 0.00306
BEC = 0.0101

Weight: <None>
Min Conc: 0

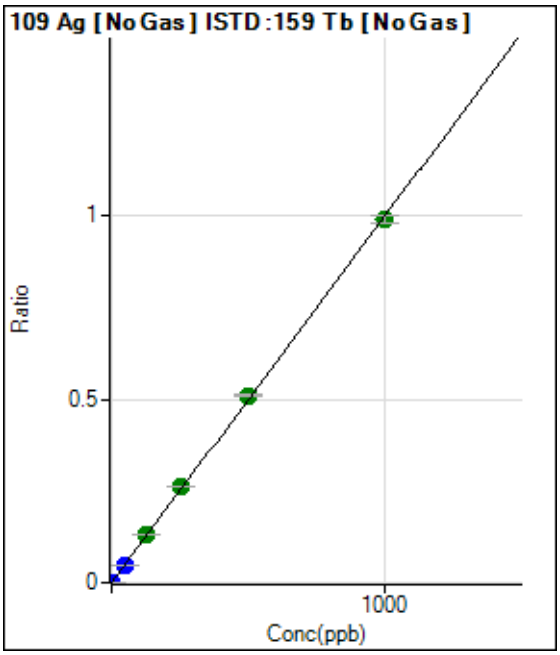
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0000	P	11.7
2	☐	1.000	0.981	252.23	0.0000	P	13.4
3	☐	50.000	50.949	11334.74	0.0008	P	0.6
4	☐	125.000	127.004	28460.47	0.0021	P	1.2
5	☐	250.000	253.199	53602.53	0.0041	P	2.1
6	☐	500.000	506.752	105900.44	0.0083	P	0.7
7	☐	1000.000	995.526	221775.75	0.0162	P	2.3
8	☐			191.11	0.0000	P	13.1

y = 1.6273E-005 * x + 3.8756E-006
R = 1.0000
DL = 0.08378
BEC = 0.2382

Weight: <None>
Min Conc: 0

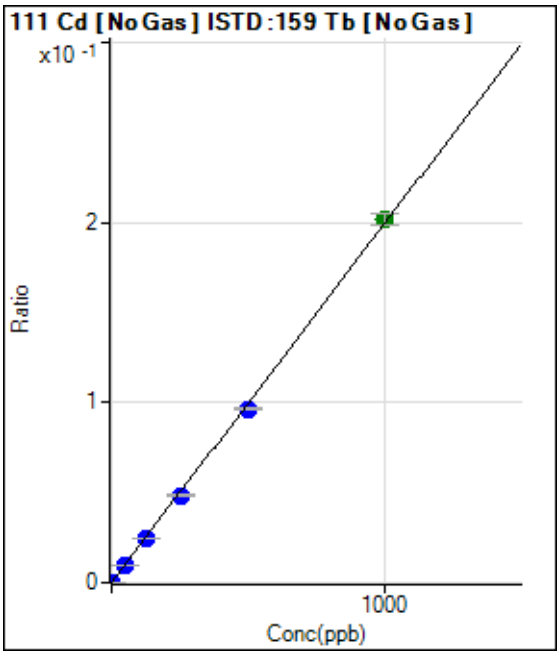


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	35.3
2	☐	1.000	0.971	12364.55	0.0010	P	1.5
3	☐	50.000	49.628	673724.74	0.0495	P	0.9
4	☐	125.000	132.263	1813573.64	0.1319	A	0.4
5	☐	250.000	262.740	3406618.90	0.2621	A	0.8
6	☐	500.000	509.848	6528183.93	0.5086	A	0.9
7	☐	1000.000	991.002	13530247.71	0.9886	A	2.2
8	☐			1523.44	0.0001	P	8.2

y = 9.9757E-004 * x + 4.2672E-006
R = 0.9998
DL = 0.004531
BEC = 0.004278

Weight: <None>
Min Conc: 0

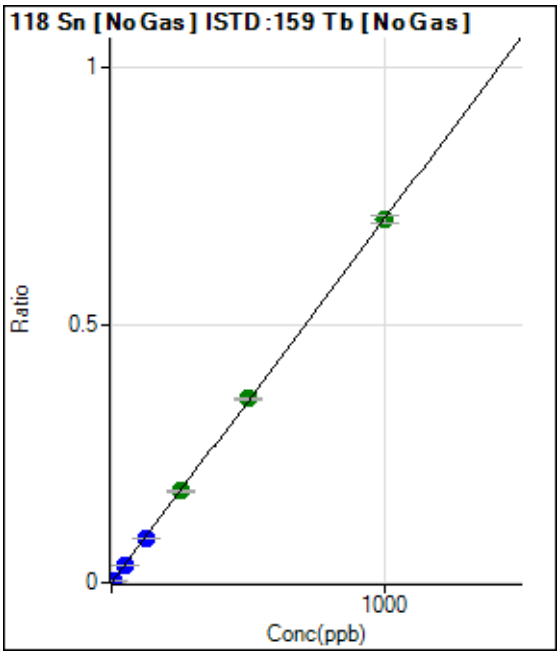
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1162.69	0.0001	P	4.2
2	☐	1.000	1.011	3694.23	0.0003	P	4.3
3	☐	50.000	49.180	134729.72	0.0099	P	0.8
4	☐	125.000	122.798	337993.41	0.0246	P	0.5
5	☐	250.000	243.260	631997.27	0.0486	P	1.4
6	☐	500.000	482.816	1237633.14	0.0964	P	1.0
7	☐	1000.000	1010.593	2760830.65	0.2017	A	3.3
8	☐			1596.23	0.0001	P	6.5

y = 1.9953E-004 * x + 8.8934E-005
R = 0.9998
DL = 0.05566
BEC = 0.4457

Weight: <None>
Min Conc: 0

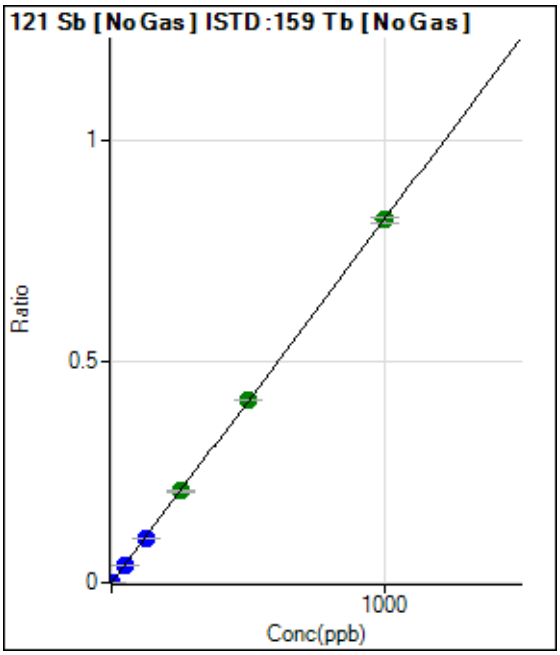


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1300.08	0.0001	P	13.2
2	☐	5.000	4.827	44482.20	0.0035	P	1.2
3	☐	50.000	47.768	459326.54	0.0338	P	0.7
4	☐	125.000	121.038	1173573.53	0.0854	P	0.5
5	☐	250.000	251.867	2307715.05	0.1776	A	2.8
6	☐	500.000	504.988	4568031.77	0.3559	A	1.5
7	☐	1000.000	997.647	9622239.93	0.7030	A	2.0
8	☐			2580.26	0.0002	P	9.6

y = 7.0460E-004 * x + 1.0003E-004
R = 1.0000
DL = 0.05643
BEC = 0.142

Weight: <None>
Min Conc: 0

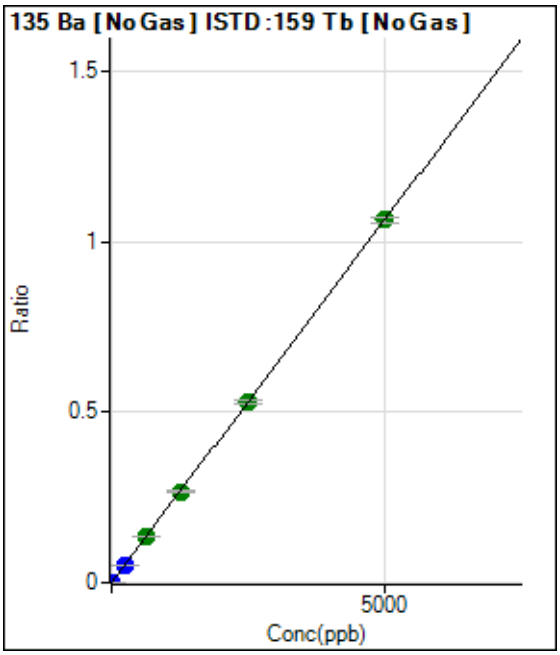
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0000	P	21.4
2	☐	2.000	1.951	20437.61	0.0016	P	1.3
3	☐	50.000	47.228	527969.51	0.0388	P	0.7
4	☐	125.000	119.396	1348201.46	0.0981	P	0.5
5	☐	250.000	253.533	2706982.67	0.2083	A	2.0
6	☐	500.000	502.751	5301011.48	0.4130	A	1.0
7	☐	1000.000	998.580	11227353.44	0.8203	A	1.9
8	☐			3280.43	0.0003	P	12.8

y = 8.2149E-004 * x + 5.4952E-006
R = 1.0000
DL = 0.004292
BEC = 0.006689

Weight: <None>
Min Conc: 0

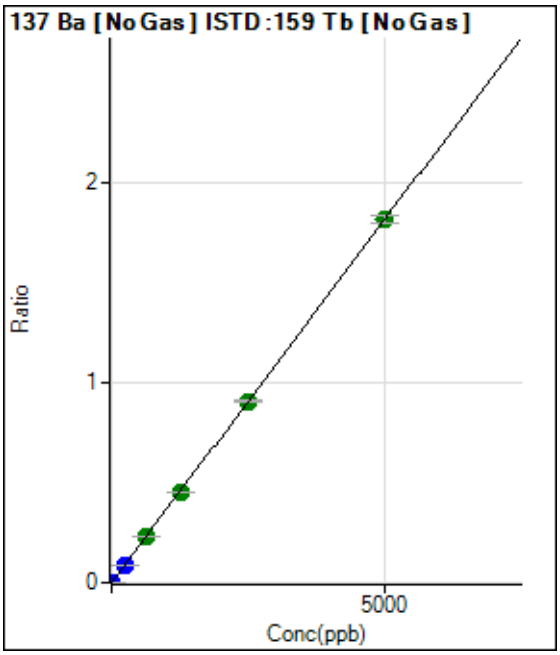


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0000	P	27.7
2	☐	10.000	9.635	26155.35	0.0021	P	1.1
3	☐	250.000	232.433	672023.03	0.0494	P	1.3
4	☐	625.000	627.155	1831495.89	0.1332	A	0.2
5	☐	1250.000	1258.873	3475957.28	0.2675	A	1.9
6	☐	2500.000	2488.505	6784830.18	0.5287	A	2.1
7	☐	5000.000	5004.139	14550577.29	1.0631	A	1.6
8	☐			5918.02	0.0005	P	8.0

y = 2.1244E-004 * x + 1.1620E-005
R = 1.0000
DL = 0.04553
BEC = 0.05469

Weight: <None>
Min Conc: 0

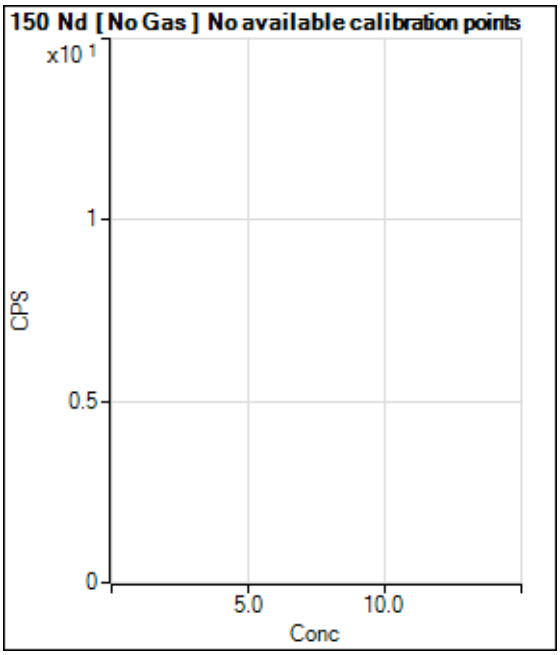
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244.45	0.0000	P	16.5
2	☐	10.000	9.880	45739.41	0.0036	P	2.0
3	☐	250.000	237.091	1169536.93	0.0860	P	0.9
4	☐	625.000	635.622	3167035.34	0.2304	A	0.6
5	☐	1250.000	1245.972	5869701.37	0.4516	A	1.7
6	☐	2500.000	2502.761	11643454.55	0.9072	A	1.2
7	☐	5000.000	4998.945	24798814.63	1.8119	A	2.0
8	☐			10272.89	0.0009	P	8.5

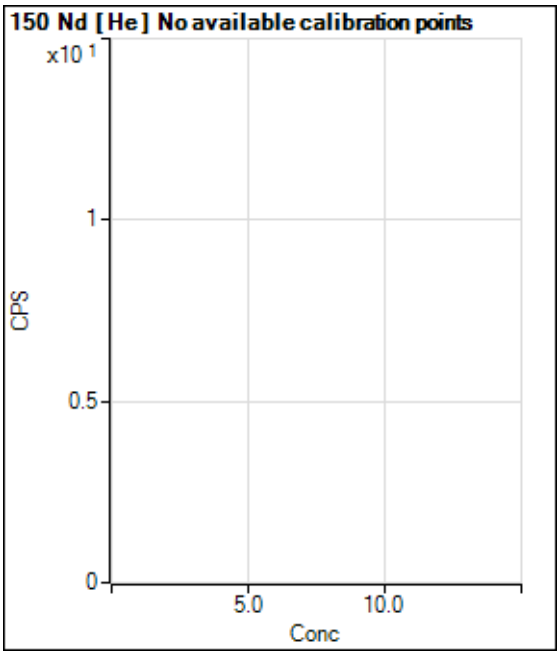
y = 3.6246E-004 * x + 1.8604E-005
R = 1.0000
DL = 0.02534
BEC = 0.05133

Weight: <None>
Min Conc: 0

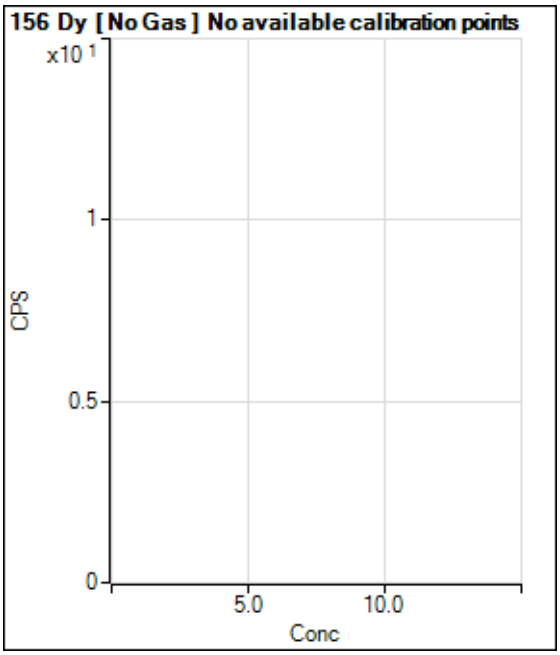


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.
2	☐			14.44		P	70.5
3	☐			81.11		P	10.3
4	☐			172.23		P	30.7
5	☐			363.34		P	9.6
6	☐			716.69		P	9.9
7	☐			1572.33		P	6.6
8	☐			300.01		P	10.9

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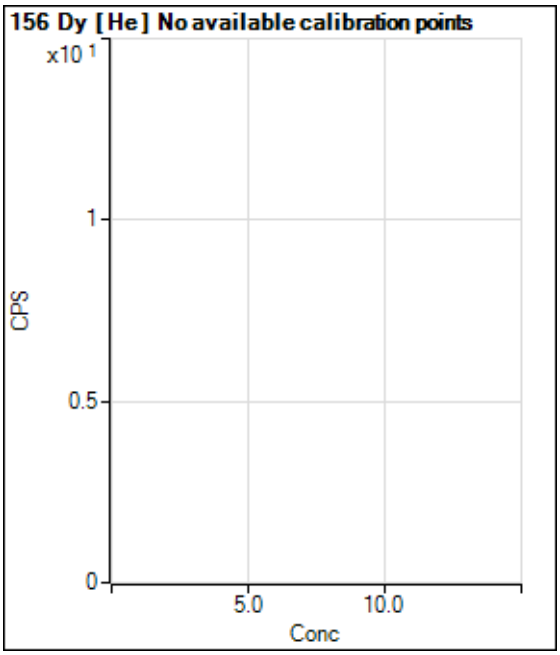


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	173.
3	☐			7.78		P	24.7
4	☐			10.00		P	33.3
5	☐			17.78		P	39.0
6	☐			28.89		P	6.7
7	☐			55.55		P	19.3
8	☐			64.44		P	11.9

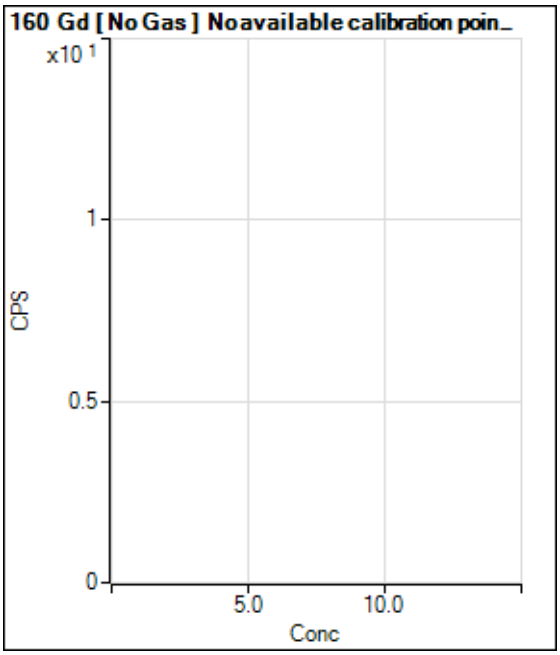


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			275.56		P	8.2
2	☐			280.01		P	14.3
3	☐			257.78		P	7.4
4	☐			265.56		P	8.4
5	☐			277.78		P	13.6
6	☐			387.79		P	14.8
7	☐			503.35		P	7.8
8	☐			570.02		P	9.1

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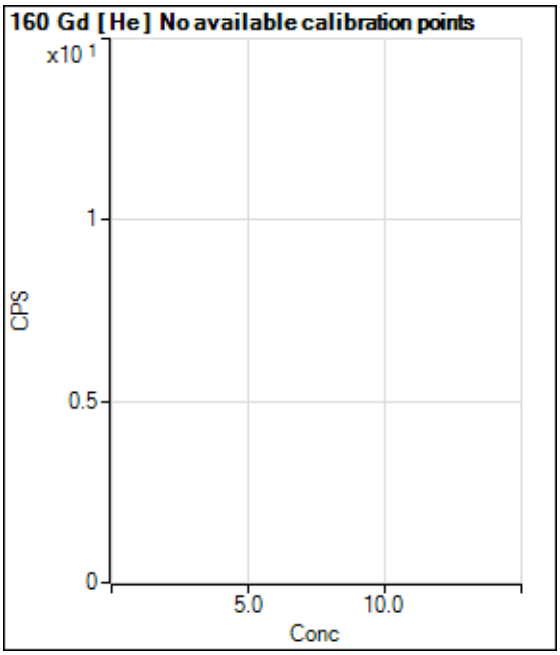


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.78		P	49.5
2	☐			4.45		P	86.6
3	☐			17.78		P	28.6
4	☐			7.78		P	49.5
5	☐			11.11		P	17.3
6	☐			22.22		P	82.6
7	☐			40.00		P	22.0
8	☐			106.67		P	11.3

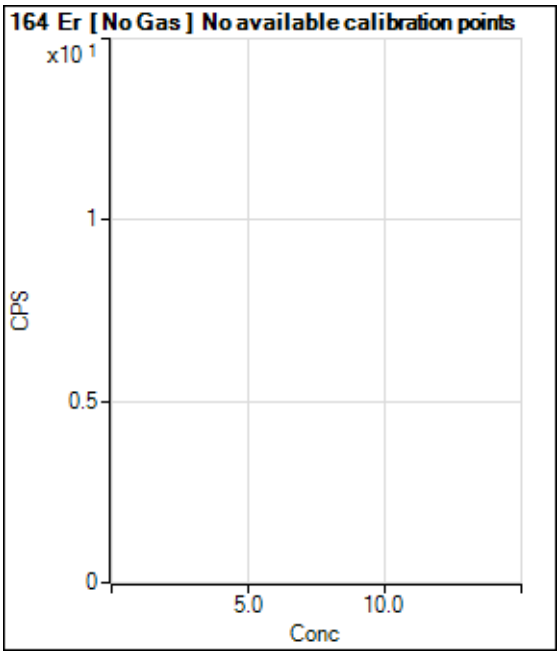


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1	☐			35.56		P	23.6
2	☐			35.55		P	30.1
3	☐			48.89		P	20.8
4	☐			64.44		P	38.8
5	☐			52.22		P	13.3
6	☐			106.67		P	19.5
7	☐			186.67		P	19.3
8	☐			422.24		P	3.6

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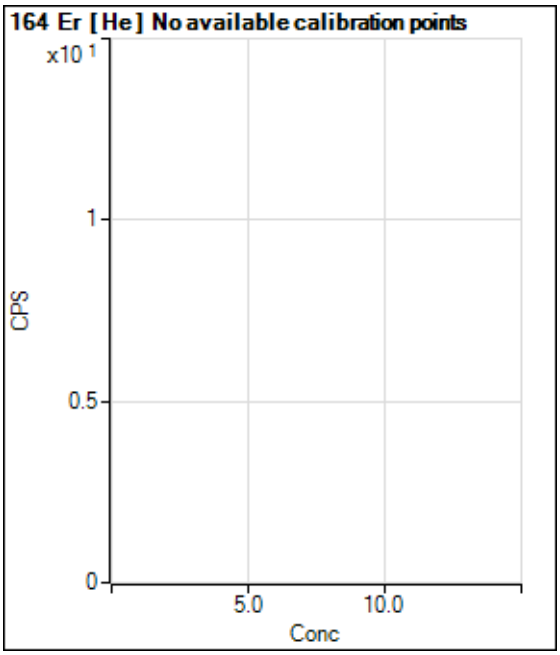


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1	☐			12.22		P	15.7
2	☐			15.55		P	24.8
3	☐			20.00		P	28.9
4	☐			15.56		P	32.7
5	☐			14.44		P	96.1
6	☐			21.11		P	32.9
7	☐			53.33		P	16.5
8	☐			144.45		P	4.8

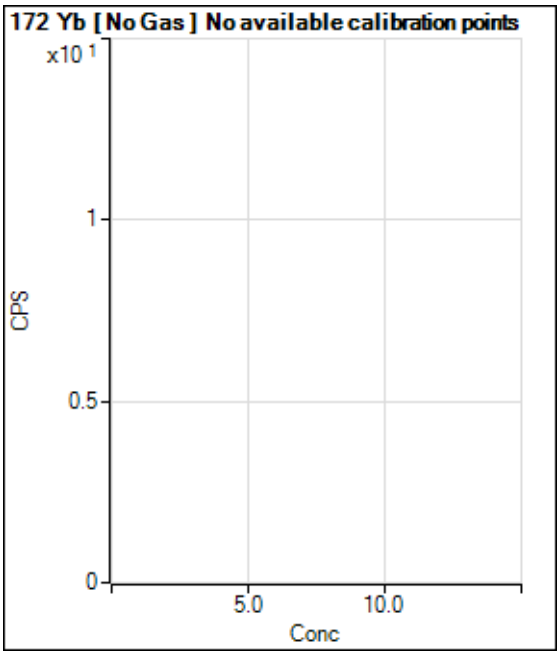


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			61.11		P	11.4
2	☐			54.45		P	19.7
3	☐			61.11		P	32.9
4	☐			74.45		P	27.4
5	☐			115.56		P	16.4
6	☐			145.56		P	24.3
7	☐			241.12		P	8.9
8	☐			430.01		P	4.3

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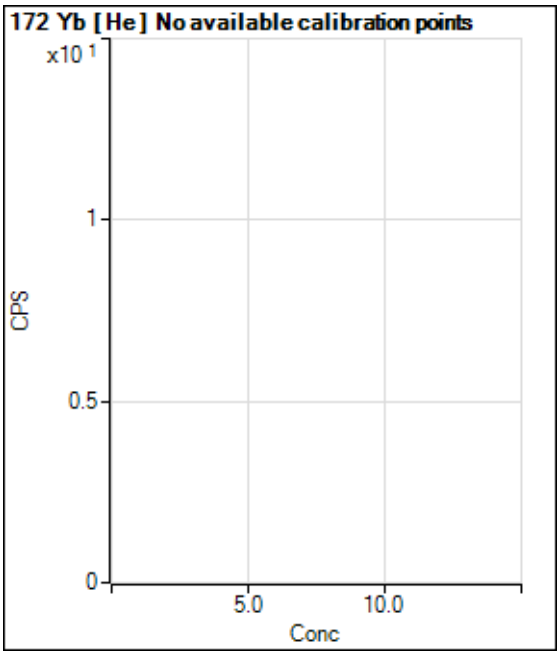


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	40.7
2	☐			17.78		P	21.7
3	☐			30.00		P	11.1
4	☐			28.89		P	52.0
5	☐			28.89		P	35.2
6	☐			46.67		P	18.9
7	☐			61.11		P	11.4
8	☐			143.34		P	14.0

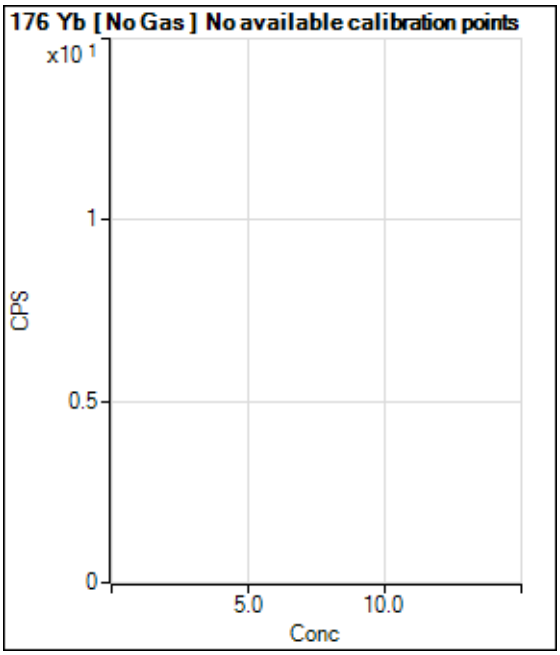


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			60.00		P	40.1
2	☐			65.56		P	2.9
3	☐			93.33		P	3.6
4	☐			94.44		P	8.1
5	☐			113.34		P	22.2
6	☐			150.00		P	17.6
7	☐			218.89		P	3.2
8	☐			521.13		P	14.7

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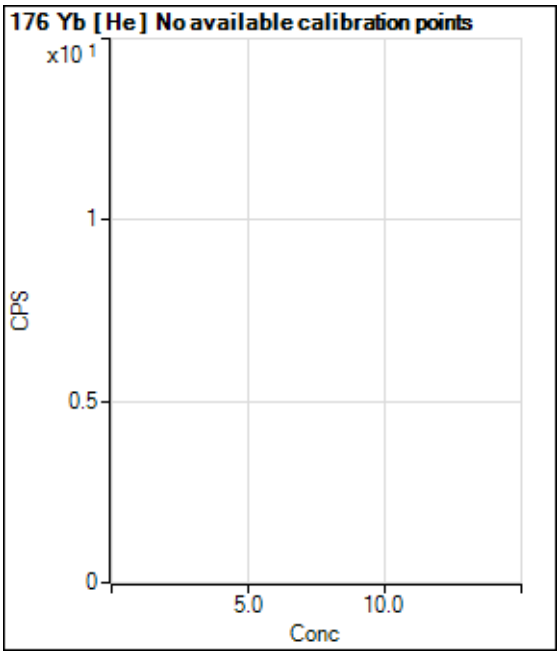


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22.22		P	22.9
2	☐			22.22		P	8.7
3	☐			18.89		P	36.7
4	☐			22.22		P	45.8
5	☐			46.67		P	14.3
6	☐			53.33		P	18.8
7	☐			65.56		P	28.0
8	☐			198.89		P	9.8

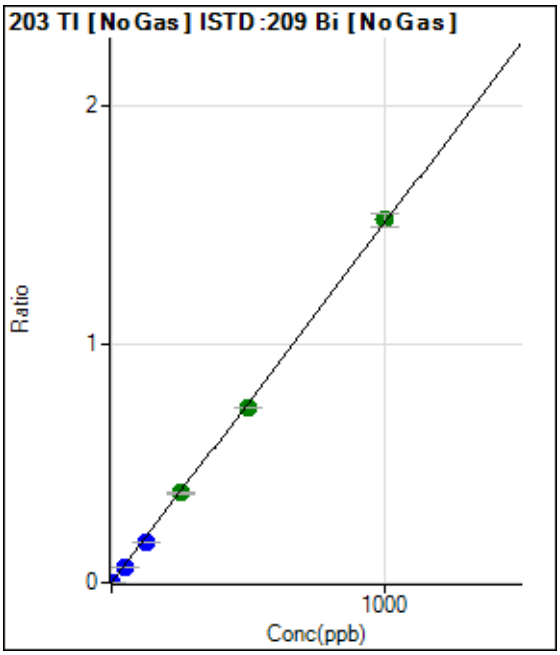


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1783.48		P	12.1
2	☐			1710.13		P	2.8
3	☐			4275.18		P	0.3
4	☐			8421.65		P	2.6
5	☐			14143.22		P	1.7
6	☐			26209.35		P	0.7
7	☐			53748.77		P	1.2
8	☐			1832.37		P	5.3

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			283.34		P	10.8
2	☐			227.78		P	13.6
3	☐			963.38		P	1.9
4	☐			2081.30		P	1.9
5	☐			4148.47		P	3.4
6	☐			7993.61		P	1.8
7	☐			17190.18		P	0.9
8	☐			328.90		P	11.7

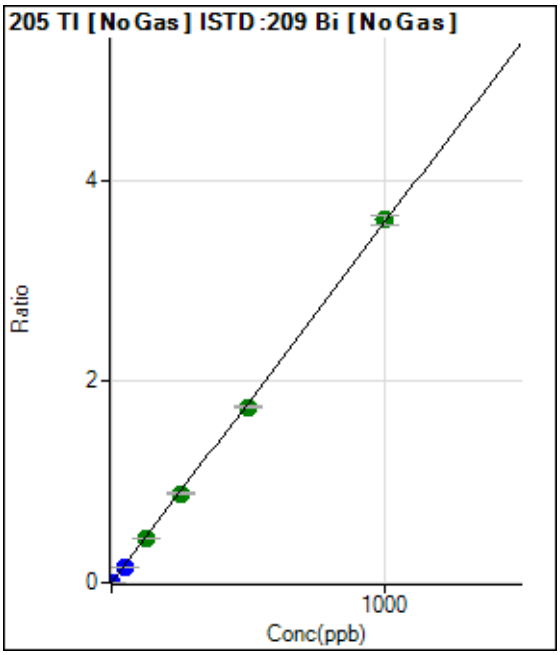


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	311.12	0.0000	P	8.8
2	☐	1.000	0.914	11221.61	0.0014	P	1.0
3	☐	50.000	44.541	568499.49	0.0671	P	1.1
4	☐	125.000	113.669	1444628.00	0.1713	P	1.3
5	☐	250.000	248.898	2916239.68	0.3751	A	1.0
6	☐	500.000	486.233	5638388.32	0.7326	A	0.7
7	☐	1000.000	1008.848	11924470.24	1.5201	A	3.6
8	☐			1091.17	0.0002	P	20.7

y = 0.0015 * x + 3.8200E-005
R = 0.9998
DL = 0.006724
BEC = 0.02535

Weight: <None>
Min Conc: 0

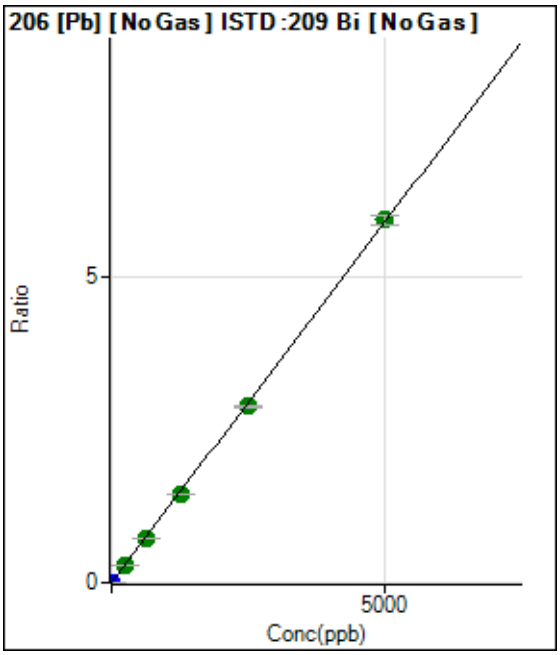
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	761.14	0.0001	P	15.5
2	☐	1.000	0.908	26511.65	0.0033	P	1.6
3	☐	50.000	44.998	1363664.49	0.1611	P	0.7
4	☐	125.000	121.501	3666362.83	0.4347	A	0.7
5	☐	250.000	247.228	6877154.69	0.8845	A	2.0
6	☐	500.000	486.910	13405455.77	1.7419	A	1.3
7	☐	1000.000	1007.925	28288362.64	3.6058	A	2.9
8	☐			2443.60	0.0004	P	16.5

y = 0.0036 * x + 9.4730E-005
R = 0.9999
DL = 0.01229
BEC = 0.02648

Weight: <None>
Min Conc: 0

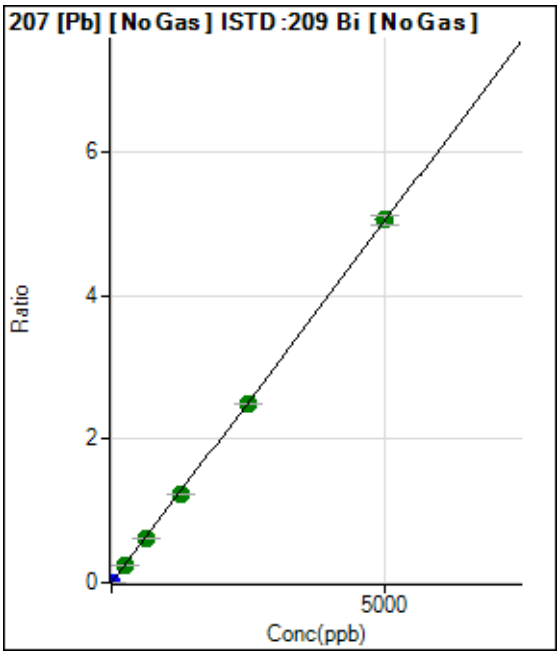


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	994.49	0.0001	P	10.4
2	☐	1.000	0.932	9657.01	0.0012	P	0.4
3	☐	250.000	242.195	2409443.96	0.2846	A	0.5
4	☐	625.000	612.130	6064301.78	0.7191	A	0.7
5	☐	1250.000	1226.916	11205394.42	1.4412	A	1.6
6	☐	2500.000	2443.859	22091060.51	2.8705	A	0.9
7	☐	5000.000	5035.841	46403068.75	5.9148	A	2.9
8	☐			5735.79	0.0009	P	12.5

y = 0.0012 * x + 1.2334E-004
R = 0.9999
DL = 0.03279
BEC = 0.105

Weight: <None>
Min Conc: 0

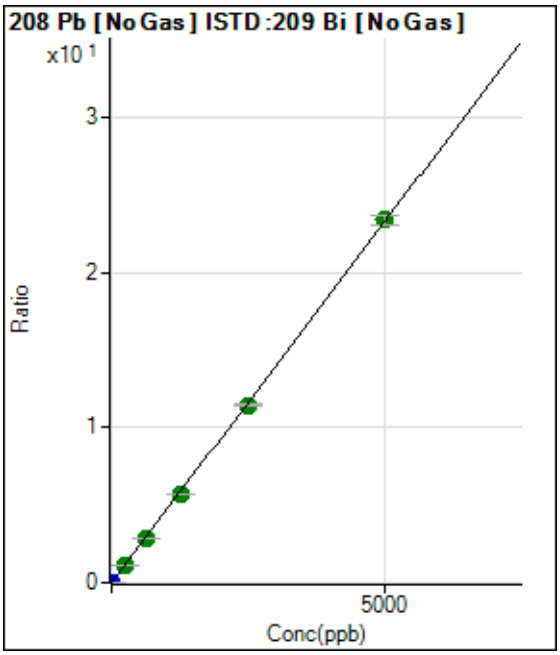
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	840.04	0.0001	P	14.9
2	☐	1.000	0.935	8293.85	0.0010	P	1.5
3	☐	250.000	243.041	2074354.15	0.2450	A	0.4
4	☐	625.000	613.704	5216025.06	0.6185	A	0.4
5	☐	1250.000	1226.425	9610295.69	1.2359	A	1.0
6	☐	2500.000	2470.067	19155810.83	2.4890	A	0.6
7	☐	5000.000	5022.620	39708537.19	5.0611	A	2.3
8	☐			4823.17	0.0008	P	11.2

y = 0.0010 * x + 1.0404E-004
R = 1.0000
DL = 0.04622
BEC = 0.1032

Weight: <None>
Min Conc: 0

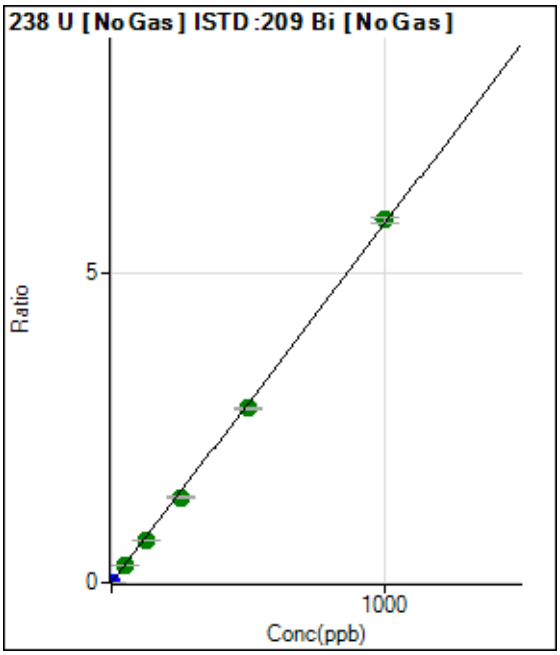


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3888.05	0.0005	P	8.4
2	☐	1.000	0.943	38570.74	0.0049	P	1.4
3	☐	250.000	241.883	9528728.94	1.1254	A	0.5
4	☐	625.000	609.028	23891288.18	2.8330	A	1.0
5	☐	1250.000	1228.582	44432182.81	5.7144	A	1.6
6	☐	2500.000	2458.543	88000742.86	11.4348	A	0.8
7	☐	5000.000	5028.486	183486974.4	23.3872	A	2.4
8	☐			22481.25	0.0037	P	11.8

y = 0.0047 * x + 4.8155E-004
R = 0.9999
DL = 0.02622
BEC = 0.1035

Weight: <None>
Min Conc: 0

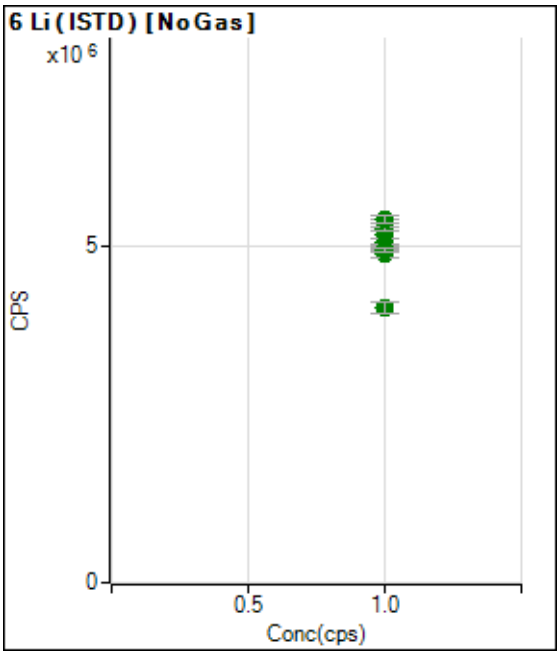
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.34	0.0001	P	10.7
2	☐	1.000	0.898	41736.08	0.0053	P	1.7
3	☐	50.000	45.838	2244125.63	0.2651	A	0.7
4	☐	125.000	117.500	5728988.97	0.6793	A	1.5
5	☐	250.000	238.038	10700285.38	1.3762	A	1.8
6	☐	500.000	485.681	21607471.10	2.8078	A	1.4
7	☐	1000.000	1011.295	45872089.52	5.8464	A	1.7
8	☐			23090.52	0.0038	P	7.1

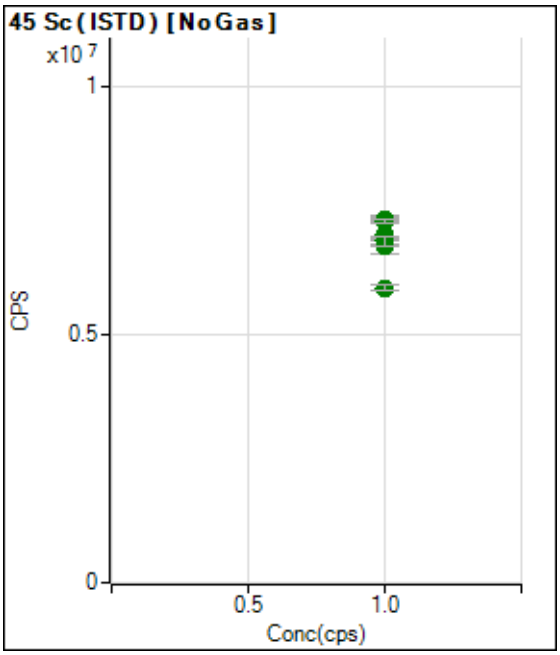
y = 0.0058 * x + 7.2372E-005
R = 0.9998
DL = 0.004022
BEC = 0.01252

Weight: <None>
Min Conc: 0

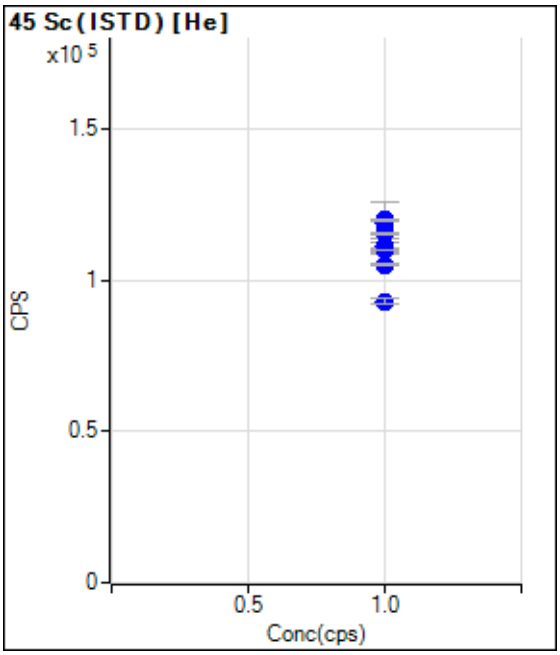


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5158157.43		A	9.2
2	☐	1.000		5059982.15		A	2.1
3	☐	1.000		5247526.93		A	1.2
4	☐	1.000		5381360.31		A	2.1
5	☐	1.000		5011278.75		A	0.4
6	☐	1.000		4874211.04		A	2.3
7	☐	1.000		4930541.24		A	0.9
8	☐	1.000		4074458.82		A	3.8

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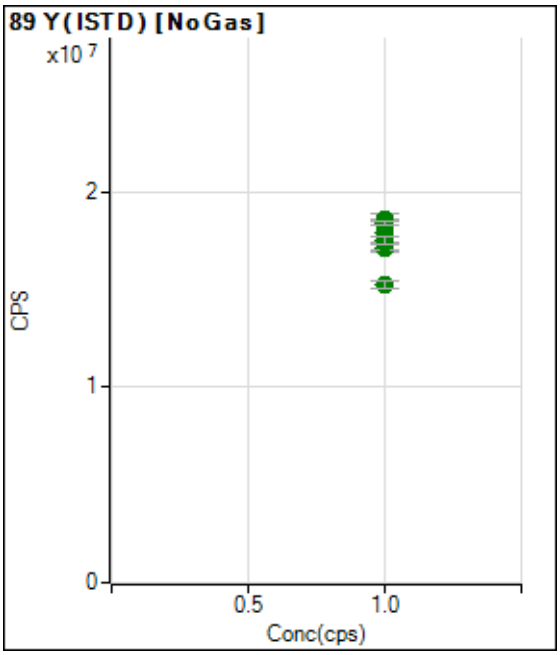


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7009103.02		A	10.7
2	☐	1.000		6798470.04		A	0.9
3	☐	1.000		7288711.84		A	0.4
4	☐	1.000		7312028.15		A	1.5
5	☐	1.000		6928370.66		A	0.5
6	☐	1.000		6890654.69		A	2.9
7	☐	1.000		7283954.13		A	1.1
8	☐	1.000		5943279.08		A	1.8

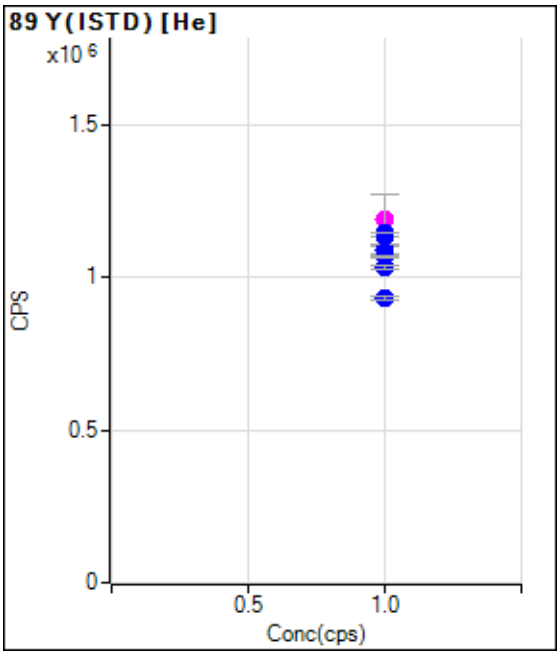


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		119086.71		P	11.2
2	☐	1.000		111264.81		P	4.6
3	☐	1.000		115857.40		P	0.5
4	☐	1.000		105249.35		P	0.6
5	☐	1.000		110006.86		P	1.2
6	☐	1.000		110243.10		P	0.4
7	☐	1.000		120137.69		P	0.8
8	☐	1.000		93012.93		P	2.1

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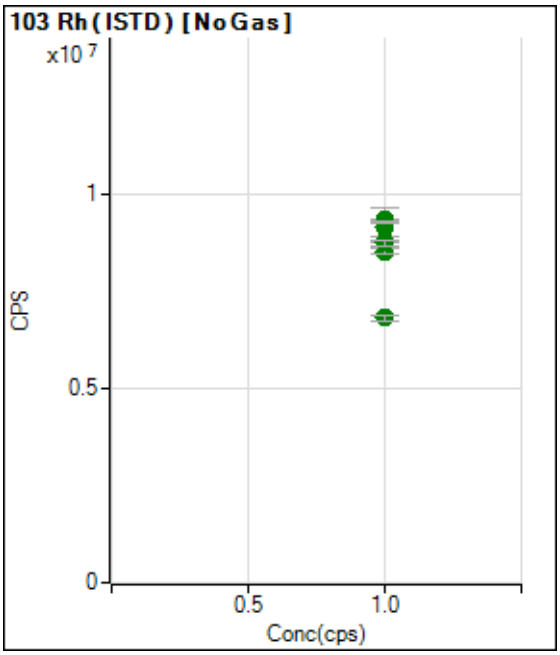


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1	☐	1.000		17894583.62		A	10.7
2	☐	1.000		17140290.44		A	1.6
3	☐	1.000		18528824.45		A	0.6
4	☐	1.000		18562913.75		A	0.7
5	☐	1.000		17405378.21		A	0.5
6	☐	1.000		17506680.57		A	1.8
7	☐	1.000		18420954.17		A	1.1
8	☐	1.000		15277238.66		A	2.5

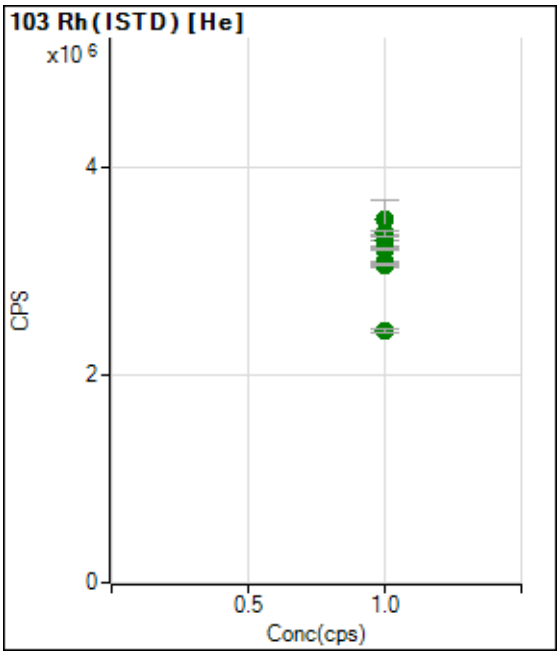


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1187422.66		M	14.2
2	☐	1.000		1086952.21		P	4.1
3	☐	1.000		1133043.76		P	0.3
4	☐	1.000		1031383.93		P	1.0
5	☐	1.000		1073092.09		P	0.3
6	☐	1.000		1068507.49		P	0.4
7	☐	1.000		1145432.84		P	0.3
8	☐	1.000		932484.15		P	1.0

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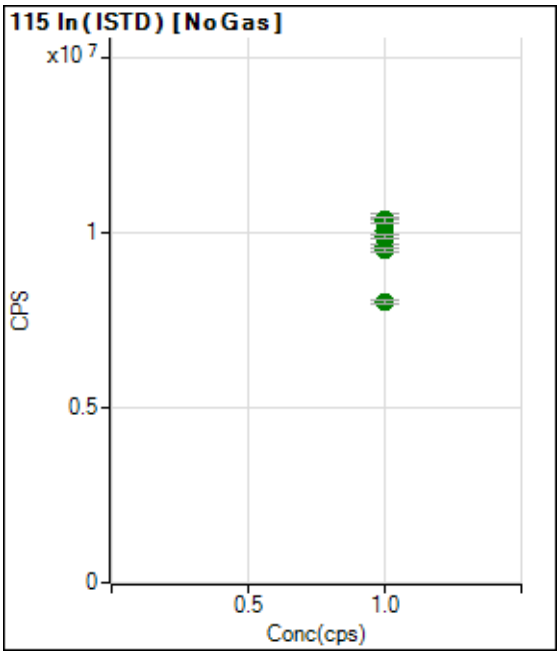


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9151365.63		A	11.1
2	☐	1.000		8829071.05		A	1.9
3	☐	1.000		9343114.58		A	0.8
4	☐	1.000		9283284.37		A	0.2
5	☐	1.000		8676824.66		A	0.2
6	☐	1.000		8538748.07		A	1.4
7	☐	1.000		8756733.69		A	1.5
8	☐	1.000		6819380.04		A	2.5

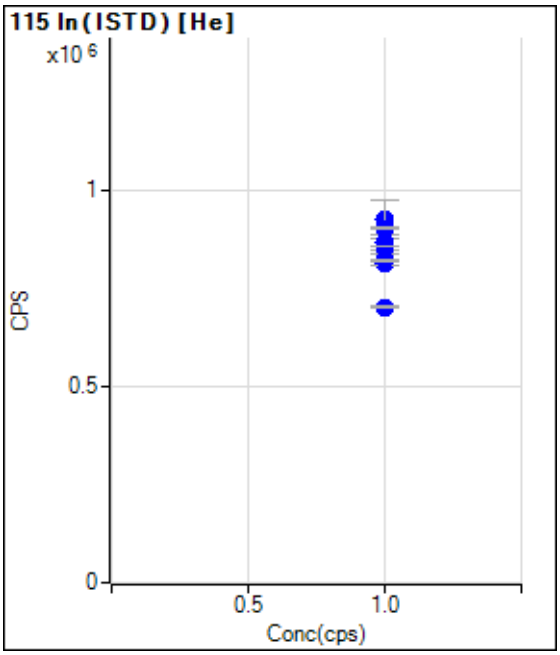


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1	☐	1.000		3499487.52		A	11.1
2	☐	1.000		3298339.43		A	3.5
3	☐	1.000		3374616.62		A	1.7
4	☐	1.000		3066899.82		A	1.2
5	☐	1.000		3093877.45		A	0.5
6	☐	1.000		3073813.46		A	0.9
7	☐	1.000		3212143.94		A	0.6
8	☐	1.000		2429716.06		A	1.1

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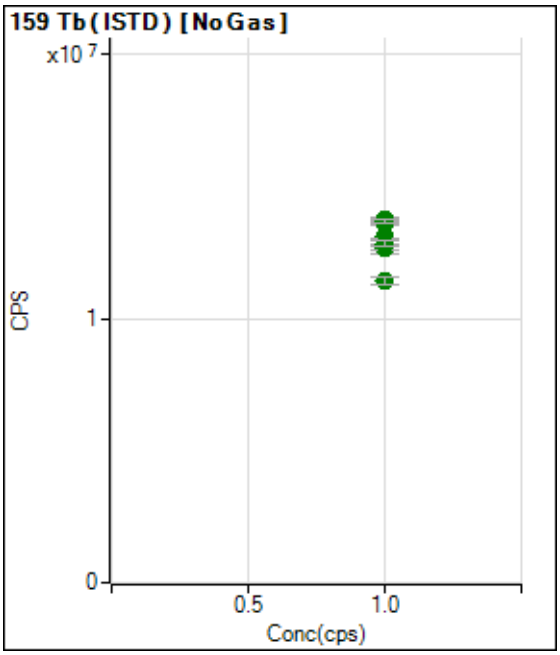


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1	☐	1.000		10041991.90		A	9.9
2	☐	1.000		9623369.75		A	1.5
3	☐	1.000		10362961.98		A	1.1
4	☐	1.000		10373913.42		A	1.3
5	☐	1.000		9628466.78		A	1.2
6	☐	1.000		9501074.83		A	1.4
7	☐	1.000		9920817.09		A	1.1
8	☐	1.000		8042616.39		A	1.6

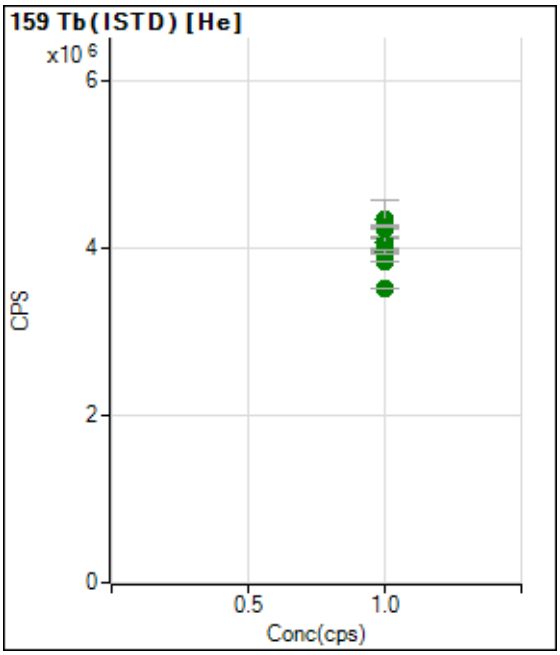


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1	☐	1.000		925641.34		P	10.6
2	☐	1.000		867236.62		P	4.3
3	☐	1.000		904760.87		P	0.6
4	☐	1.000		814720.18		P	1.0
5	☐	1.000		838615.89		P	0.2
6	☐	1.000		823835.63		P	0.6
7	☐	1.000		856948.66		P	0.0
8	☐	1.000		703252.28		P	0.7

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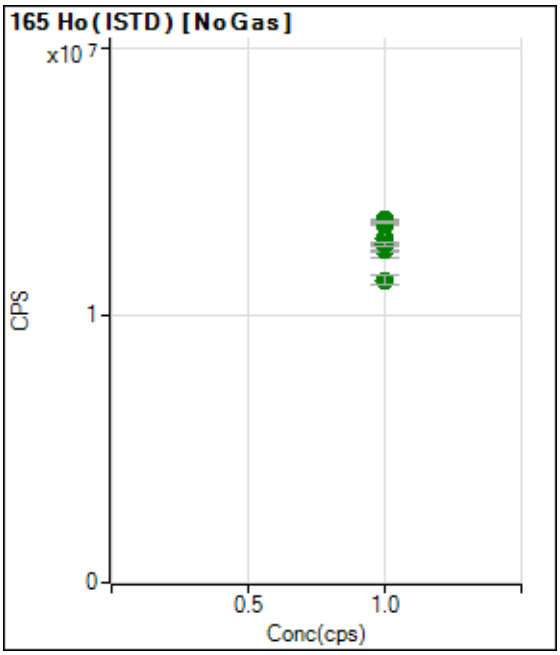


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13110498.83		A	10.3
2	☐	1.000		12704942.03		A	1.4
3	☐	1.000		13607098.69		A	0.8
4	☐	1.000		13745128.96		A	1.1
5	☐	1.000		12997352.17		A	0.5
6	☐	1.000		12836504.95		A	1.7
7	☐	1.000		13688035.91		A	0.9
8	☐	1.000		11436424.97		A	2.2

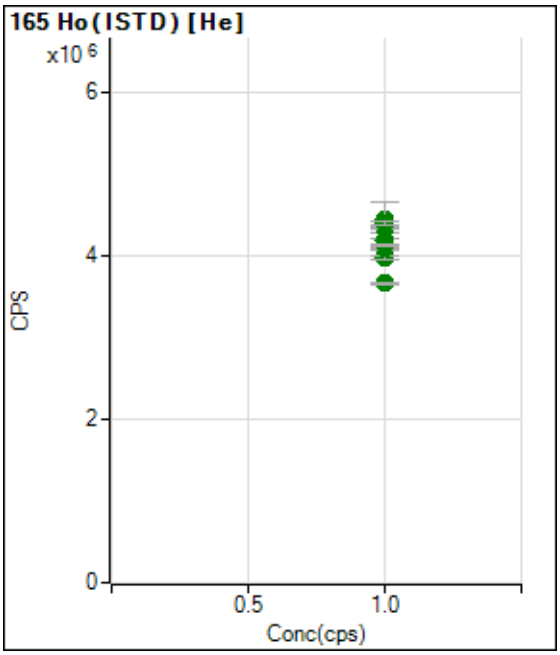


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4331168.62		A	10.5
2	☐	1.000		4051898.76		A	3.9
3	☐	1.000		4220059.24		A	0.2
4	☐	1.000		3831450.01		A	0.2
5	☐	1.000		3963819.00		A	1.1
6	☐	1.000		3949214.07		A	0.6
7	☐	1.000		4252523.37		A	0.7
8	☐	1.000		3513961.48		A	0.6

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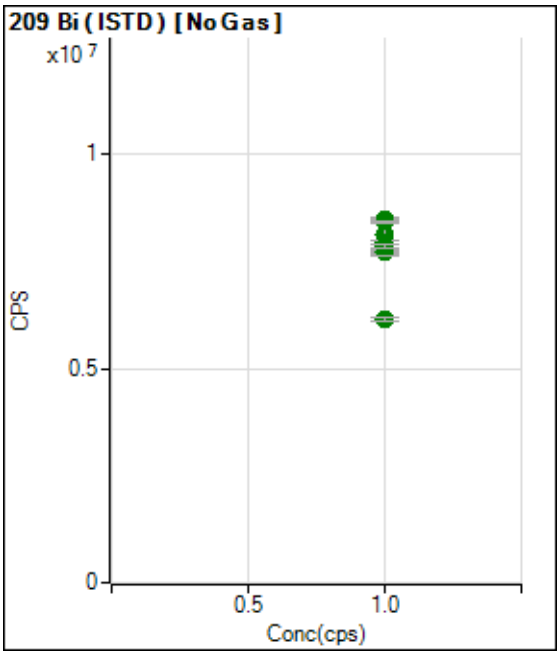


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12879547.59		A	10.9
2		1.000		12434708.70		A	0.7
3		1.000		13430065.08		A	0.8
4		1.000		13592096.60		A	0.4
5		1.000		12660587.59		A	0.4
6		1.000		12678696.34		A	1.3
7		1.000		13494775.08		A	0.7
8		1.000		11320518.03		A	3.2

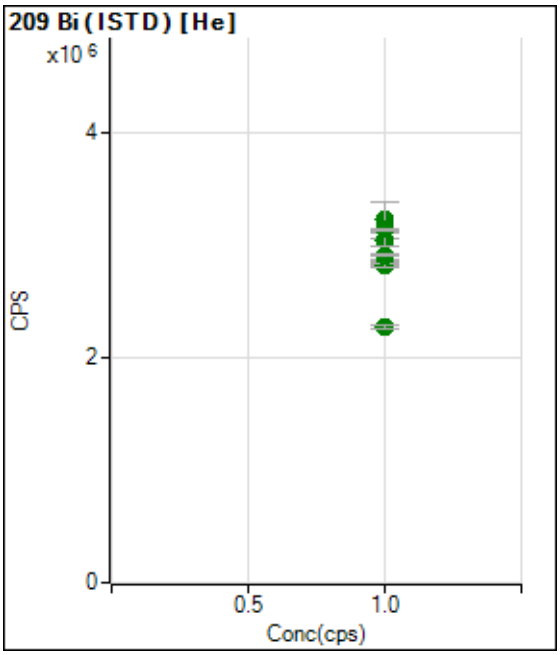


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4436012.26		A	10.2
2		1.000		4176560.01		A	4.4
3		1.000		4333180.77		A	0.6
4		1.000		3970108.97		A	0.8
5		1.000		4080329.11		A	1.0
6		1.000		4129666.74		A	0.7
7		1.000		4391483.34		A	1.0
8		1.000		3666140.19		A	0.7

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8120681.41		A	10.5
2	☐	1.000		7926095.23		A	1.1
3	☐	1.000		8466653.62		A	0.7
4	☐	1.000		8433499.39		A	0.5
5	☐	1.000		7776018.77		A	1.2
6	☐	1.000		7696433.15		A	1.4
7	☐	1.000		7847506.27		A	1.5
8	☐	1.000		6147496.58		A	2.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3223357.21		A	10.2
2	☐	1.000		3048996.83		A	3.8
3	☐	1.000		3136324.92		A	1.0
4	☐	1.000		2820719.26		A	0.4
5	☐	1.000		2865687.49		A	0.8
6	☐	1.000		2823794.23		A	1.1
7	☐	1.000		2910544.05		A	0.5
8	☐	1.000		2268678.94		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012725MS-1.b

Acq. Date-Time 2025-01-27 12:45:35

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		20880	208800.32			0.821	5.000
24		427864	4278635.57			0.944	5.000
25		58635	586349.80			0.331	5.000
26		67155	671551.32			0.668	5.000
59		95304	953043.13			0.829	5.000
113		11710	117098.48			0.654	5.000
115		162985	1629845.86			0.820	5.000
206		35777	357770.22			0.518	5.000
207		31254	312543.82			0.436	5.000
208		75305	753047.03			0.336	5.000
220		0	1.90			73.023	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

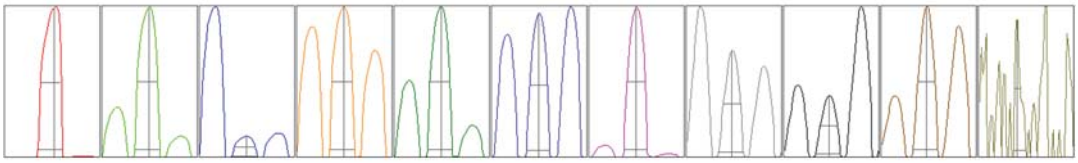
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	21156	20837	20810	20901	20695
24	432519	431204	422511	426151	426932
25	58951	58694	58500	58531	58500
26	67634	67298	66911	67427	66506
59	95641	96218	94455	95716	94492
113	11834	11728	11640	11664	11684
115	165012	163509	162161	161575	162666
206	35956	35951	35511	35726	35741
207	31440	31270	31060	31219	31283
208	75620	75371	74927	75235	75370

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	34134.38	9.10	8.90 - 9.10	
24	703516.11	24.00	23.90 - 24.10	
25	95885.09	25.00	24.90 - 25.10	
26	110696.91	26.00	25.90 - 26.10	
59	162748.12	59.00	58.90 - 59.10	
113	22302.56	113.00	112.90 - 113.10	
115	302637.67	115.00	114.90 - 115.10	
206	68838.17	205.95	205.90 - 206.10	
207	59059.55	206.95	206.90 - 207.10	
208	143564.44	207.95	207.90 - 208.10	
220	0.50	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.778	0.900	
24	0.64	0.789	0.900	
25	0.65	0.791	0.900	
26	0.64	0.787	0.900	
59	0.62	0.784	0.900	
113	0.55	0.731	0.900	
115	0.56	0.736	0.900	
206	0.54	0.776	0.900	
207	0.54	0.784	0.900	
208	0.54	0.783	0.900	
220	0.17	0.387		

Integration Time [sec] 0.1
Acquisition Time [sec] 256.770000000002
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.6 V	Deflect	15.4 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9960	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.1 mV	Analog HV	2178 V	Pulse HV	1068 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15647	156471.09			0.486	
89		13154	131541.48			0.654	
205		19104	191041.52			0.368	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15767	15647	15586	15577	15659
89	13258	13194	13148	13148	13023
205	19019	19175	19131	19041	19156

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.6 V	Deflect	2.4 V

US EPA Tune Check Report

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
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Extract 2	-105.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9960	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.1 mV	Analog HV	2178 V	Pulse HV	1068 V

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.18	-0.03	-0.15	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.02	-0.01	-0.01	0.00	N/A	ppb
Barium	135-1	-0.02	0.00	0.01	0.00	N/A	ppb
Barium	137-1	-0.01	0.01	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	-0.01	0.02	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.03	-0.03	0.00	N/A	ppb
Cadmium	106-1	-0.58	-0.09	0.67	0.00	N/A	ppb
Cadmium	111-1	-0.02	-0.01	0.02	0.00	N/A	ppb
Calcium	43-1	-0.29	-0.86	1.15	0.00	N/A	ppb
Calcium	44-1	-0.36	-0.69	1.05	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.01	0.01	0.00	N/A	ppb
Cobalt	59-2	-0.01	0.00	0.01	0.00	N/A	ppb
Copper	63-2	-0.04	-0.02	0.05	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	-0.03	0.41	-0.39	0.00	N/A	ppb
Iron	56-2	-0.23	-0.08	0.32	0.00	N/A	ppb
Iron	57-2	-1.37	3.57	-2.20	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	-0.01	0.01	0.00	N/A	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	0.01	0.01	0.00	N/A	ppb
Lead	208-1	-0.01	0.00	0.01	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.13	-0.08	0.21	0.00	N/A	ppb
Manganese	55-2	-0.02	0.02	0.00	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	-0.01	0.00	0.00	N/A	ppb
Molybdenum	97-1	-0.01	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	-0.10	0.05	0.00	N/A	ppb
Phosphorus	31-2	-24.89	-7.47	-6.18	-12.85		ppb
Potassium	39-2	-5.95	3.92	2.03	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.01	-0.05	0.04	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.47	0.01	0.45	0.00	N/A	ppb
Silicon	28-1	-0.40	-0.37	0.77	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-6.50	2.04	4.47	0.00	N/A	ppb
Strontium	86-1	0.00	-0.01	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-408.75	-396.30	658.60	-48.82		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	-0.01	0.02	0.00	N/A	ppb
Titanium	47-1	-0.01	-0.01	0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.03	0.01	-0.04	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.69	19.35	19.48	19.51	0.90	ppb
Antimony	121-1	1.94	1.98	1.93	1.95	1.35	ppb
Arsenic	75-2	1.46	1.12	1.01	1.20	19.56	ppb
Barium	135-1	9.71	9.68	9.52	9.63	1.06	ppb
Barium	137-1	9.86	10.09	9.69	9.88	2.04	ppb
Beryllium	9-1	0.96	1.03	0.91	0.97	5.90	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.94	1.16	0.84	0.98	16.60	ppb
Cadmium	106-1	0.69	2.18	0.79	1.22	68.05	ppb
Cadmium	111-1	0.97	1.08	0.98	1.01	6.14	ppb
Calcium	43-1	491.20	495.96	478.24	488.47	1.88	ppb
Calcium	44-1	488.97	496.09	479.84	488.30	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.22	2.08	2.00	2.10	5.29	ppb
Cobalt	59-2	1.13	1.09	1.08	1.10	2.56	ppb
Copper	63-2	2.45	2.29	2.18	2.31	6.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	60.99	57.09	59.17	59.08	3.30	ppb
Iron	56-2	59.28	54.67	53.59	55.85	5.41	ppb
Iron	57-2	57.60	51.64	48.10	52.45	9.15	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.94	0.93	0.93	0.46	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.95	0.94	0.92	0.94	1.63	ppb
Lead	208-1	0.94	0.96	0.93	0.94	1.54	ppb
Lithium	6-1				98		%
Magnesium	24-2	569.57	519.92	519.45	536.31	5.37	ppb
Manganese	55-2	1.16	1.15	1.10	1.14	2.41	ppb
Molybdenum	94-1	5.71	5.71	5.50	5.64	2.11	ppb
Molybdenum	95-1	4.73	4.75	4.69	4.73	0.61	ppb
Molybdenum	96-1	4.81	4.92	4.86	4.86	1.13	ppb
Molybdenum	97-1	4.84	4.77	4.73	4.78	1.12	ppb
Molybdenum	98-1	4.77	4.82	4.75	4.78	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.36	1.21	1.10	1.22	10.70	ppb
Phosphorus	31-2	2.98	19.83	15.73	12.85	68.41	ppb
Potassium	39-2	526.30	496.70	497.16	506.72	3.35	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				93		%
Selenium	82-1	4.93	4.87	5.27	5.02	4.23	ppb
Selenium	77-2	8.44	5.30	9.10	7.61	26.67	ppb
Selenium	78-2	4.76	5.24	6.31	5.44	14.60	ppb
Silicon	28-1	1.07	1.17	1.44	1.23	15.64	ppb
Silver	107-1	0.94	0.98	0.94	0.95	2.55	ppb
Silver	109-1	0.97	0.99	0.96	0.97	1.50	ppb
Sodium	23-2	550.46	514.04	500.48	521.66	4.95	ppb
Strontium	86-1	0.93	0.92	0.94	0.93	1.08	ppb
Strontium	88-1	0.93	0.93	0.91	0.93	1.43	ppb
Sulfur	34-1	47.88	130.95	-32.39	48.82	167.31	ppb
Terbium	159-1				97		%
Terbium	159-2				94		%
Thallium	203-1	0.92	0.91	0.91	0.91	0.98	ppb
Thallium	205-1	0.90	0.93	0.90	0.91	1.62	ppb
Tin	118-1	4.83	4.88	4.77	4.83	1.19	ppb
Titanium	47-1	4.96	5.12	4.83	4.97	2.96	ppb
Uranium	238-1	0.90	0.91	0.88	0.90	1.69	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.29	4.90	4.93	5.04	4.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				92		%
Zinc	66-2	5.08	5.41	5.65	5.38	5.29	ppb
Zirconium	90-1	0.95	0.97	0.97	0.97	1.11	ppb
Zirconium	91-1	0.92	0.98	1.01	0.97	4.42	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	923.42	930.30	922.80	925.51	0.45	ppb
Antimony	121-1	47.59	47.16	46.93	47.23	0.71	ppb
Arsenic	75-2	49.29	47.52	48.73	48.51	1.87	ppb
Barium	135-1	235.74	231.91	229.65	232.43	1.32	ppb
Barium	137-1	239.47	236.34	235.46	237.09	0.89	ppb
Beryllium	9-1	47.07	48.37	47.92	47.78	1.39	ppb
Bismuth	209-1				104		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	50.71	50.83	51.31	50.95	0.62	ppb
Cadmium	106-1	53.47	49.53	48.13	50.37	5.49	ppb
Cadmium	111-1	49.56	49.20	48.78	49.18	0.79	ppb
Calcium	43-1	4623.12	4655.94	4678.24	4652.43	0.60	ppb
Calcium	44-1	4808.50	4816.22	4835.47	4820.06	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	48.08	47.92	47.67	47.89	0.43	ppb
Cobalt	59-2	48.98	48.65	48.63	48.75	0.40	ppb
Copper	63-2	507.40	499.81	529.74	512.32	3.04	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				98		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	2481.68	2442.61	2492.42	2472.24	1.06	ppb
Iron	56-2	2564.40	2546.40	2537.99	2549.60	0.53	ppb
Iron	57-2	2475.09	2405.96	2442.51	2441.19	1.42	ppb
Krypton	83-1						cps
Lead	206-1	240.81	242.94	242.83	242.20	0.49	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	242.93	244.09	242.11	243.04	0.41	ppb
Lead	208-1	241.59	243.19	240.88	241.88	0.49	ppb
Lithium	6-1				102		%
Magnesium	24-2	4888.84	4898.56	4885.04	4890.81	0.14	ppb
Manganese	55-2	481.47	473.75	481.03	478.75	0.91	ppb
Molybdenum	94-1	481.47	485.61	481.05	482.71	0.52	ppb
Molybdenum	95-1	483.81	484.67	482.96	483.82	0.18	ppb
Molybdenum	96-1	481.73	483.00	485.35	483.36	0.38	ppb
Molybdenum	97-1	476.45	487.43	474.94	479.61	1.42	ppb
Molybdenum	98-1	474.35	485.48	484.94	481.59	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.78	51.95	52.78	52.50	0.91	ppb
Phosphorus	31-2	899.44	1002.52	939.55	947.17	5.49	ppb
Potassium	39-2	2292.76	2243.32	2289.46	2275.18	1.21	ppb
Rhodium	103-1				102		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				97		%
Selenium	82-1	48.76	50.02	50.47	49.75	1.78	ppb
Selenium	77-2	50.05	52.89	59.37	54.10	8.83	ppb
Selenium	78-2	42.04	52.42	50.89	48.45	11.57	ppb
Silicon	28-1	53.38	53.10	53.74	53.40	0.60	ppb
Silver	107-1	49.52	49.60	49.61	49.58	0.09	ppb
Silver	109-1	49.55	50.09	49.25	49.63	0.86	ppb
Sodium	23-2	5066.51	4932.17	5029.89	5009.52	1.39	ppb
Strontium	86-1	46.15	47.09	46.08	46.44	1.22	ppb
Strontium	88-1	49.25	49.07	48.31	48.88	1.03	ppb
Sulfur	34-1	862.50	844.13	816.59	841.07	2.75	ppb
Terbium	159-1				104		%
Terbium	159-2				97		%
Thallium	203-1	44.02	44.95	44.66	44.54	1.07	ppb
Thallium	205-1	44.65	45.18	45.16	45.00	0.67	ppb
Tin	118-1	48.06	47.86	47.38	47.77	0.73	ppb
Titanium	47-1	463.97	472.81	472.85	469.88	1.09	ppb
Uranium	238-1	45.47	46.03	46.02	45.84	0.70	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	47.23	46.62	46.92	46.92	0.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				95		%
Zinc	66-2	504.15	496.21	501.82	500.73	0.81	ppb
Zirconium	90-1	45.55	46.43	46.25	46.07	1.01	ppb
Zirconium	91-1	45.14	46.18	45.44	45.59	1.17	ppb

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2384.16	2443.22	2438.99	2422.13	1.36	ppb
Antimony	121-1	119.72	118.69	119.78	119.40	0.51	ppb
Arsenic	75-2	126.10	127.00	123.35	125.48	1.51	ppb
Barium	135-1	627.40	625.95	628.11	627.16	0.18	ppb
Barium	137-1	632.84	634.07	639.95	635.62	0.60	ppb
Beryllium	9-1	120.23	115.61	117.53	117.79	1.97	ppb
Bismuth	209-1				104		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	127.61	125.27	128.13	127.00	1.20	ppb
Cadmium	106-1	129.40	128.34	125.50	127.74	1.58	ppb
Cadmium	111-1	123.43	122.13	122.83	122.80	0.53	ppb
Calcium	43-1	11609.79	11780.67	12015.71	11802.06	1.73	ppb
Calcium	44-1	12098.70	12134.57	12347.36	12193.54	1.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	122.65	124.56	125.21	124.14	1.07	ppb
Cobalt	59-2	124.37	126.23	126.97	125.86	1.06	ppb
Copper	63-2	1365.77	1376.06	1383.83	1375.22	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				89		%
Indium	115-1				103		%
Indium	115-2				88		%
Iron	54-2	6342.76	6473.98	6411.37	6409.37	1.02	ppb
Iron	56-2	6491.94	6566.72	6517.12	6525.26	0.58	ppb
Iron	57-2	6253.07	6290.61	6283.94	6275.88	0.32	ppb
Krypton	83-1						cps
Lead	206-1	613.28	607.42	615.70	612.13	0.70	ppb

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	611.27	613.18	616.66	613.70	0.44	ppb
Lead	208-1	608.22	603.68	615.18	609.03	0.95	ppb
Lithium	6-1				104		%
Magnesium	24-2	13240.01	13449.43	13332.75	13340.73	0.79	ppb
Manganese	55-2	1221.24	1247.09	1244.40	1237.58	1.15	ppb
Molybdenum	94-1	1247.09	1217.02	1226.81	1230.31	1.25	ppb
Molybdenum	95-1	1227.89	1212.31	1223.52	1221.24	0.66	ppb
Molybdenum	96-1	1222.08	1208.99	1220.26	1217.11	0.58	ppb
Molybdenum	97-1	1224.65	1235.03	1229.33	1229.67	0.42	ppb
Molybdenum	98-1	1243.29	1219.90	1212.73	1225.31	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	135.00	135.74	136.54	135.76	0.57	ppb
Phosphorus	31-2	2458.84	2549.86	2728.70	2579.13	5.32	ppb
Potassium	39-2	5927.14	5974.81	6053.30	5985.09	1.06	ppb
Rhodium	103-1				101		%
Rhodium	103-2				88		%
Scandium	45-1				104		%
Scandium	45-2				88		%
Selenium	82-1	125.98	124.71	128.76	126.48	1.64	ppb
Selenium	77-2	135.51	123.51	107.73	122.25	11.40	ppb
Selenium	78-2	141.56	125.38	144.78	137.24	7.58	ppb
Silicon	28-1	134.19	135.25	139.80	136.42	2.18	ppb
Silver	107-1	135.04	130.91	132.48	132.81	1.57	ppb
Silver	109-1	132.78	132.13	131.88	132.26	0.35	ppb
Sodium	23-2	12787.25	13114.35	12942.64	12948.08	1.26	ppb
Strontium	86-1	117.48	116.62	119.57	117.89	1.29	ppb
Strontium	88-1	124.22	122.90	125.32	124.15	0.98	ppb
Sulfur	34-1	2413.57	2434.41	2597.28	2481.75	4.05	ppb
Terbium	159-1				105		%
Terbium	159-2				88		%
Thallium	203-1	112.26	113.65	115.10	113.67	1.25	ppb
Thallium	205-1	121.16	120.82	122.52	121.50	0.74	ppb
Tin	118-1	121.66	120.44	121.01	121.04	0.50	ppb
Titanium	47-1	1260.71	1233.96	1259.13	1251.27	1.20	ppb
Uranium	238-1	116.45	116.49	119.55	117.50	1.51	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	121.80	124.12	123.87	123.27	1.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				87		%
Zinc	66-2	1294.99	1303.88	1308.38	1302.42	0.52	ppb
Zirconium	90-1	124.92	122.39	124.21	123.84	1.06	ppb
Zirconium	91-1	116.89	116.02	117.17	116.69	0.52	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4672.20	4675.32	4767.64	4705.05	1.15	ppb
Antimony	121-1	247.73	255.47	257.40	253.53	2.02	ppb
Arsenic	75-2	244.88	241.58	251.74	246.07	2.11	ppb
Barium	135-1	1242.87	1247.98	1285.77	1258.87	1.86	ppb
Barium	137-1	1229.04	1238.96	1269.92	1245.97	1.71	ppb
Beryllium	9-1	232.57	236.72	235.18	234.82	0.89	ppb
Bismuth	209-1				96		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	247.15	255.53	256.92	253.20	2.09	ppb
Cadmium	106-1	248.65	252.94	257.03	252.87	1.66	ppb
Cadmium	111-1	239.42	244.02	246.34	243.26	1.45	ppb
Calcium	43-1	23246.30	23743.00	23813.86	23601.05	1.31	ppb
Calcium	44-1	24127.81	24387.33	24391.20	24302.11	0.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	235.32	239.62	245.25	240.06	2.07	ppb
Cobalt	59-2	239.69	243.84	248.60	244.04	1.83	ppb
Copper	63-2	2560.55	2631.36	2667.84	2619.92	2.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				92		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	12261.79	12361.04	12585.16	12402.66	1.34	ppb
Iron	56-2	12591.76	12670.74	12714.29	12658.93	0.49	ppb
Iron	57-2	12039.81	12199.13	12345.07	12194.67	1.25	ppb
Krypton	83-1						cps
Lead	206-1	1213.76	1217.78	1249.21	1226.92	1.58	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1212.52	1231.15	1235.60	1226.43	1.00	ppb
Lead	208-1	1211.61	1224.64	1249.49	1228.58	1.57	ppb
Lithium	6-1				97		%
Magnesium	24-2	25643.19	25535.66	26092.86	25757.24	1.15	ppb
Manganese	55-2	2506.69	2564.06	2608.33	2559.69	1.99	ppb
Molybdenum	94-1	2453.51	2450.34	2496.46	2466.77	1.04	ppb
Molybdenum	95-1	2443.57	2483.82	2488.10	2471.83	0.99	ppb
Molybdenum	96-1	2480.55	2470.12	2494.16	2481.61	0.49	ppb
Molybdenum	97-1	2466.71	2485.02	2491.78	2481.17	0.52	ppb
Molybdenum	98-1	2445.65	2489.22	2503.98	2479.61	1.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	256.27	262.63	264.91	261.27	1.71	ppb
Phosphorus	31-2	5036.53	5035.67	5053.24	5041.81	0.20	ppb
Potassium	39-2	11566.17	11697.16	11763.62	11675.65	0.86	ppb
Rhodium	103-1				95		%
Rhodium	103-2				88		%
Scandium	45-1				99		%
Scandium	45-2				92		%
Selenium	82-1	254.02	254.94	257.18	255.38	0.64	ppb
Selenium	77-2	234.43	246.74	239.66	240.27	2.57	ppb
Selenium	78-2	247.47	261.37	263.56	257.47	3.39	ppb
Silicon	28-1	266.82	269.61	268.25	268.23	0.52	ppb
Silver	107-1	259.25	260.49	262.16	260.63	0.56	ppb
Silver	109-1	260.52	262.75	264.95	262.74	0.84	ppb
Sodium	23-2	24509.40	25109.92	25362.66	24993.99	1.75	ppb
Strontium	86-1	235.97	238.86	239.48	238.11	0.79	ppb
Strontium	88-1	242.83	249.57	249.62	247.34	1.58	ppb
Sulfur	34-1	5492.33	5542.00	5474.85	5503.06	0.63	ppb
Terbium	159-1				99		%
Terbium	159-2				92		%
Thallium	203-1	246.96	247.86	251.87	248.90	1.05	ppb
Thallium	205-1	243.67	244.98	253.03	247.23	2.05	ppb
Tin	118-1	244.91	251.89	258.80	251.87	2.76	ppb
Titanium	47-1	2478.17	2480.81	2509.16	2489.38	0.69	ppb
Uranium	238-1	234.47	236.96	242.69	238.04	1.77	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	237.82	241.27	246.21	241.77	1.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				90		%
Zinc	66-2	2471.39	2494.51	2554.93	2506.94	1.72	ppb
Zirconium	90-1	247.02	248.76	251.02	248.93	0.81	ppb
Zirconium	91-1	232.60	236.53	237.75	235.63	1.14	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9327.33	9392.50	9307.60	9342.48	0.48	ppb
Antimony	121-1	508.39	499.83	500.04	502.75	0.97	ppb
Arsenic	75-2	495.67	496.07	501.32	497.69	0.63	ppb
Barium	135-1	2548.73	2448.84	2467.94	2488.50	2.13	ppb
Barium	137-1	2533.55	2474.99	2499.74	2502.76	1.17	ppb
Beryllium	9-1	507.58	500.83	479.68	496.03	2.93	ppb
Bismuth	209-1				95		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	509.66	502.59	508.00	506.75	0.73	ppb
Cadmium	106-1	507.02	500.69	500.16	502.62	0.76	ppb
Cadmium	111-1	488.24	481.57	478.64	482.82	1.02	ppb
Calcium	43-1	50245.10	48158.46	48573.42	48992.32	2.25	ppb
Calcium	44-1	49430.56	47792.75	48138.96	48454.09	1.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	475.85	479.92	473.64	476.47	0.67	ppb
Cobalt	59-2	512.38	510.96	507.63	510.32	0.48	ppb
Copper	63-2	5108.84	5128.43	5112.55	5116.61	0.20	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				93		%
Indium	115-1				95		%
Indium	115-2				89		%
Iron	54-2	25734.89	25657.60	26200.46	25864.32	1.14	ppb
Iron	56-2	25030.08	25040.60	24969.13	25013.27	0.15	ppb
Iron	57-2	24035.05	24114.62	24102.29	24083.99	0.18	ppb
Krypton	83-1						cps
Lead	206-1	2468.83	2426.57	2436.18	2443.86	0.91	ppb

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2481.37	2475.45	2453.38	2470.07	0.60	ppb
Lead	208-1	2476.64	2461.83	2437.16	2458.54	0.81	ppb
Lithium	6-1				94		%
Magnesium	24-2	49297.36	50476.92	50092.92	49955.73	1.20	ppb
Manganese	55-2	5021.25	4979.50	5084.24	5028.33	1.05	ppb
Molybdenum	94-1	4951.30	4916.40	4867.44	4911.72	0.86	ppb
Molybdenum	95-1	4940.60	4882.02	4842.81	4888.48	1.01	ppb
Molybdenum	96-1	4984.73	4878.40	4822.58	4895.24	1.68	ppb
Molybdenum	97-1	5004.74	4907.59	4852.42	4921.58	1.57	ppb
Molybdenum	98-1	4969.11	4880.74	4902.99	4917.61	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	506.96	509.49	507.38	507.94	0.27	ppb
Phosphorus	31-2	9818.49	9986.85	9950.25	9918.53	0.89	ppb
Potassium	39-2	24323.44	24452.99	23894.88	24223.77	1.21	ppb
Rhodium	103-1				93		%
Rhodium	103-2				88		%
Scandium	45-1				98		%
Scandium	45-2				93		%
Selenium	82-1	504.08	498.05	498.97	500.37	0.65	ppb
Selenium	77-2	492.28	517.47	493.95	501.24	2.81	ppb
Selenium	78-2	512.93	526.31	506.67	515.30	1.95	ppb
Silicon	28-1	633.33	608.94	608.57	616.95	2.30	ppb
Silver	107-1	519.59	507.99	510.13	512.57	1.20	ppb
Silver	109-1	515.24	506.93	507.38	509.85	0.92	ppb
Sodium	23-2	50170.08	50036.86	49756.87	49987.93	0.42	ppb
Strontium	86-1	506.13	492.26	490.06	496.15	1.76	ppb
Strontium	88-1	499.61	491.55	486.27	492.48	1.36	ppb
Sulfur	34-1	11751.93	11052.67	11313.61	11372.74	3.11	ppb
Terbium	159-1				98		%
Terbium	159-2				91		%
Thallium	203-1	489.71	486.50	482.49	486.23	0.74	ppb
Thallium	205-1	490.23	490.96	479.55	486.91	1.31	ppb
Tin	118-1	512.58	497.30	505.08	504.99	1.51	ppb
Titanium	47-1	5065.42	4896.21	4927.35	4962.99	1.81	ppb
Uranium	238-1	491.78	487.13	478.13	485.68	1.43	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	478.70	478.63	479.02	478.78	0.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				90		%
Zinc	66-2	4919.86	4930.05	4931.45	4927.12	0.13	ppb
Zirconium	90-1	495.46	492.79	495.92	494.72	0.34	ppb
Zirconium	91-1	507.72	493.96	489.05	496.91	1.95	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18285.40	18616.42	18714.07	18538.63	1.21	ppb
Antimony	121-1	977.32	1003.61	1014.81	998.58	1.93	ppb
Arsenic	75-2	1000.26	1000.38	1005.82	1002.15	0.32	ppb
Barium	135-1	4914.36	5033.78	5064.28	5004.14	1.58	ppb
Barium	137-1	4886.39	5031.35	5079.10	4998.94	2.01	ppb
Beryllium	9-1	991.65	1016.87	1011.85	1006.79	1.33	ppb
Bismuth	209-1				97		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	970.62	1000.74	1015.22	995.53	2.29	ppb
Cadmium	106-1	969.57	1009.41	1013.85	997.61	2.44	ppb
Cadmium	111-1	972.34	1029.83	1029.61	1010.59	3.28	ppb
Calcium	43-1	95707.64	100750.09	98422.41	98293.38	2.57	ppb
Calcium	44-1	95340.21	99562.72	98251.63	97718.19	2.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1013.60	1008.46	1021.32	1014.46	0.64	ppb
Cobalt	59-2	1004.99	993.38	990.48	996.28	0.77	ppb
Copper	63-2	9818.54	9905.91	9961.89	9895.45	0.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				93		%
Iron	54-2	50562.68	51445.83	51189.02	51065.84	0.89	ppb
Iron	56-2	50026.44	50039.19	50266.81	50110.82	0.27	ppb
Iron	57-2	51088.92	51617.77	51283.39	51330.03	0.52	ppb
Krypton	83-1						cps
Lead	206-1	4868.49	5096.81	5142.22	5035.84	2.91	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4904.24	5024.78	5138.84	5022.62	2.34	ppb
Lead	208-1	4888.36	5089.77	5107.33	5028.49	2.42	ppb
Lithium	6-1				96		%
Magnesium	24-2	98663.05	100451.60	100815.46	99976.70	1.15	ppb
Manganese	55-2	9867.28	10006.56	10046.75	9973.53	0.94	ppb
Molybdenum	94-1	9760.42	10199.12	10207.79	10055.78	2.54	ppb
Molybdenum	95-1	9781.77	10210.21	10209.65	10067.21	2.46	ppb
Molybdenum	96-1	9771.59	10217.33	10196.85	10061.92	2.50	ppb
Molybdenum	97-1	9809.81	10117.18	10215.43	10047.48	2.11	ppb
Molybdenum	98-1	9817.05	10159.96	10173.88	10050.30	2.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	983.09	991.82	1000.32	991.74	0.87	ppb
Phosphorus	31-2	19832.44	20156.60	20080.04	20023.03	0.85	ppb
Potassium	39-2	48262.99	49003.69	49227.99	48831.55	1.03	ppb
Rhodium	103-1				96		%
Rhodium	103-2				92		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	982.23	1004.73	1007.93	998.30	1.40	ppb
Selenium	77-2	1022.85	984.20	998.76	1001.94	1.95	ppb
Selenium	78-2	1002.39	985.88	978.81	989.03	1.22	ppb
Silicon	28-1	935.03	940.54	930.82	935.46	0.52	ppb
Silver	107-1	963.87	1001.83	1004.61	990.10	2.30	ppb
Silver	109-1	965.59	1000.34	1007.07	991.00	2.25	ppb
Sodium	23-2	98370.59	99797.98	100547.48	99572.02	1.11	ppb
Strontium	86-1	988.75	1020.39	1008.75	1005.96	1.59	ppb
Strontium	88-1	985.71	1008.87	1019.19	1004.59	1.71	ppb
Sulfur	34-1	19171.93	19107.46	19314.89	19198.09	0.55	ppb
Terbium	159-1				104		%
Terbium	159-2				98		%
Thallium	203-1	966.98	1026.92	1032.64	1008.85	3.60	ppb
Thallium	205-1	974.29	1024.36	1025.13	1007.93	2.89	ppb
Tin	118-1	975.03	1009.45	1008.46	997.65	1.96	ppb
Titanium	47-1	9767.43	10215.21	10084.88	10022.51	2.30	ppb
Uranium	238-1	991.03	1023.19	1019.66	1011.30	1.74	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1002.33	1014.52	1022.26	1013.04	0.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				96		%
Zinc	66-2	10073.76	9955.56	10055.03	10028.12	0.63	ppb
Zirconium	90-1	970.24	1024.18	1015.32	1003.25	2.88	ppb
Zirconium	91-1	970.31	1026.00	1022.88	1006.40	3.11	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99305.09	99960.09	101861.22	100375.47	1.32	ppb
Antimony	121-1	0.38	0.35	0.29	0.34	13.05	ppb
Arsenic	75-2	0.66	0.51	0.27	0.48	41.97	ppb
Barium	135-1	2.61	2.26	2.29	2.38	8.18	ppb
Barium	137-1	2.67	2.33	2.29	2.43	8.68	ppb
Beryllium	9-1	0.29	0.24	0.22	0.25	14.31	ppb
Bismuth	209-1				76		%
Bismuth	209-2				70		%
Bromine	81-1						cps
Cadmium	108-1	0.92	0.80	0.65	0.79	17.08	ppb
Cadmium	106-1	-0.20	0.25	0.51	0.19	193.11	ppb
Cadmium	111-1	0.30	0.25	0.21	0.25	18.00	ppb
Calcium	43-1	522750.41	487624.55	491223.97	500532.97	3.86	ppb
Calcium	44-1	521751.64	489624.67	490589.66	500655.32	3.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.33	1.37	1.37	1.35	1.64	ppb
Cobalt	59-2	1.96	2.11	2.02	2.03	3.82	ppb
Copper	63-2	1.62	1.43	1.50	1.52	6.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				83		%
Indium	115-1				80		%
Indium	115-2				76		%
Iron	54-2	246076.18	250812.21	252216.29	249701.56	1.29	ppb
Iron	56-2	247361.05	251819.69	250702.82	249961.18	0.93	ppb
Iron	57-2	247613.80	251917.41	249991.20	249840.80	0.86	ppb
Krypton	83-1						cps
Lead	206-1	0.80	0.65	0.62	0.69	14.45	ppb

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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.77	0.66	0.60	0.68	12.92	ppb
Lead	208-1	0.79	0.66	0.61	0.68	13.62	ppb
Lithium	6-1				79		%
Magnesium	24-2	493911.01	502466.70	503476.07	499951.26	1.05	ppb
Manganese	55-2	4.23	4.11	4.25	4.20	1.90	ppb
Molybdenum	94-1	2.85	2.51	2.27	2.54	11.46	ppb
Molybdenum	95-1	1.85	1.62	1.46	1.64	12.03	ppb
Molybdenum	96-1	2.57	2.27	2.11	2.32	10.30	ppb
Molybdenum	97-1	1.71	1.39	1.28	1.46	15.32	ppb
Molybdenum	98-1	1.64	1.35	1.24	1.41	14.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.41	2.08	2.19	2.23	7.65	ppb
Phosphorus	31-2	-20.69	15.57	2.86	-0.75		ppb
Potassium	39-2	248850.50	249373.59	252860.07	250361.39	0.87	ppb
Rhodium	103-1				75		%
Rhodium	103-2				69		%
Scandium	45-1				85		%
Scandium	45-2				78		%
Selenium	82-1	0.29	0.13	-0.14	0.10	226.99	ppb
Selenium	77-2	1.55	1.56	0.00	1.04	86.61	ppb
Selenium	78-2	0.63	0.64	0.17	0.48	55.23	ppb
Silicon	28-1	4.78	3.70	3.44	3.98	17.86	ppb
Silver	107-1	0.14	0.12	0.11	0.12	13.91	ppb
Silver	109-1	0.14	0.13	0.12	0.13	8.45	ppb
Sodium	23-2	497861.21	500683.51	501682.63	500075.78	0.40	ppb
Strontium	86-1	3.29	2.91	2.97	3.06	6.73	ppb
Strontium	88-1	3.20	3.00	2.97	3.06	4.16	ppb
Sulfur	34-1	272.92	31.95	65.98	123.62	105.50	ppb
Terbium	159-1				87		%
Terbium	159-2				81		%
Thallium	203-1	0.12	0.09	0.07	0.09	26.33	ppb
Thallium	205-1	0.10	0.08	0.07	0.08	21.68	ppb
Tin	118-1	0.21	0.18	0.15	0.18	17.16	ppb
Titanium	47-1	3.21	2.79	2.84	2.95	7.81	ppb
Uranium	238-1	0.69	0.61	0.61	0.64	7.19	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.27	0.28	0.24	0.26	8.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				85		%
Yttrium	89-2				79		%
Zinc	66-2	2.96	2.44	2.53	2.64	10.58	ppb
Zirconium	90-1	0.59	0.55	0.53	0.56	5.54	ppb
Zirconium	91-1	0.60	0.57	0.51	0.56	8.08	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	457.59	462.23	440.34	453.38	2.54	ppb
Antimony	121-1	199.27	193.99	195.22	196.16	1.41	ppb
Arsenic	75-2	192.71	197.16	184.99	191.62	3.21	ppb
Barium	135-1	94.45	95.26	94.90	94.87	0.43	ppb
Barium	137-1	97.55	97.27	96.87	97.23	0.35	ppb
Beryllium	9-1	89.19	91.24	90.70	90.38	1.17	ppb
Bismuth	209-1				99		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	169.42	169.87	171.01	170.10	0.48	ppb
Cadmium	106-1	177.08	181.39	177.90	178.79	1.28	ppb
Cadmium	111-1	98.21	97.79	98.52	98.17	0.37	ppb
Calcium	43-1	1994.34	1986.97	2006.43	1995.91	0.49	ppb
Calcium	44-1	2003.09	2045.75	2052.62	2033.82	1.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	97.66	96.89	91.22	95.26	3.69	ppb
Cobalt	59-2	98.43	99.59	93.28	97.10	3.46	ppb
Copper	63-2	105.89	106.02	99.11	103.67	3.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				93		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	2079.48	2072.02	1957.00	2036.17	3.37	ppb
Iron	56-2	2071.13	2084.72	1990.67	2048.84	2.48	ppb
Iron	57-2	2014.65	2013.46	1856.17	1961.43	4.65	ppb
Krypton	83-1						cps
Lead	206-1	198.69	207.04	199.57	201.77	2.27	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	180.41	183.05	180.84	181.43	0.78	ppb
Lead	208-1	194.79	196.73	194.07	195.20	0.71	ppb
Lithium	6-1				99		%
Magnesium	24-2	1131.67	1137.33	1074.14	1114.38	3.14	ppb
Manganese	55-2	97.15	98.95	91.54	95.88	4.03	ppb
Molybdenum	94-1	4644.09	4650.56	4603.73	4632.79	0.55	ppb
Molybdenum	95-1	4657.38	4654.08	4613.06	4641.51	0.53	ppb
Molybdenum	96-1	4666.20	4663.28	4628.80	4652.76	0.45	ppb
Molybdenum	97-1	4615.05	4671.74	4617.23	4634.67	0.69	ppb
Molybdenum	98-1	4624.30	4694.50	4609.84	4642.88	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	107.05	106.86	100.91	104.94	3.33	ppb
Phosphorus	31-2	-26.83	-24.80	-16.44	-22.69		ppb
Potassium	39-2	1847.52	1856.46	1743.58	1815.85	3.46	ppb
Rhodium	103-1				95		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	199.86	200.75	199.38	200.00	0.35	ppb
Selenium	77-2	182.56	193.98	200.72	192.42	4.77	ppb
Selenium	78-2	193.65	204.73	201.50	199.96	2.85	ppb
Silicon	28-1	72.90	72.89	72.79	72.86	0.08	ppb
Silver	107-1	46.24	46.78	46.66	46.56	0.60	ppb
Silver	109-1	45.95	46.69	46.68	46.44	0.92	ppb
Sodium	23-2	1917.81	1931.31	1822.19	1890.44	3.15	ppb
Strontium	86-1	444.69	447.72	441.62	444.67	0.69	ppb
Strontium	88-1	444.16	448.75	443.97	445.63	0.61	ppb
Sulfur	34-1	-442.96	-438.36	-485.27	-455.53		ppb
Terbium	159-1				98		%
Terbium	159-2				93		%
Thallium	203-1	186.91	192.65	189.13	189.56	1.53	ppb
Thallium	205-1	190.89	191.23	189.51	190.54	0.48	ppb
Tin	118-1	489.14	489.51	481.68	486.78	0.91	ppb
Titanium	47-1	4639.16	4644.01	4618.77	4633.98	0.29	ppb
Uranium	238-1	475.51	475.89	468.53	473.31	0.88	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	94.05	94.76	88.80	92.53	3.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				90		%
Zinc	66-2	203.40	202.50	194.84	200.25	2.35	ppb
Zirconium	90-1	462.61	460.23	456.55	459.80	0.66	ppb
Zirconium	91-1	466.48	472.65	462.80	467.31	1.06	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15.64	17.33	17.24	16.74	5.68	ppb
Antimony	121-1	1.80	1.78	1.86	1.81	2.31	ppb
Arsenic	75-2	0.82	0.76	1.02	0.87	15.65	ppb
Barium	135-1	8.74	9.04	9.46	9.08	3.97	ppb
Barium	137-1	8.90	9.27	9.24	9.14	2.26	ppb
Beryllium	9-1	0.84	0.86	0.87	0.86	1.85	ppb
Bismuth	209-1				100		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.11	1.03	1.18	1.11	7.07	ppb
Cadmium	106-1	0.27	-0.05	0.73	0.32	123.30	ppb
Cadmium	111-1	0.96	0.88	0.94	0.93	4.33	ppb
Calcium	43-1	450.57	451.46	449.25	450.43	0.25	ppb
Calcium	44-1	441.91	459.48	457.45	452.95	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.88	1.89	1.80	1.86	2.73	ppb
Cobalt	59-2	0.94	0.98	0.98	0.97	2.20	ppb
Copper	63-2	2.05	1.98	2.01	2.01	1.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				93		%
Indium	115-1				99		%
Indium	115-2				93		%
Iron	54-2	50.53	46.23	49.36	48.71	4.57	ppb
Iron	56-2	48.41	47.28	48.91	48.20	1.73	ppb
Iron	57-2	47.03	49.17	46.74	47.65	2.78	ppb
Krypton	83-1						cps
Lead	206-1	0.84	0.88	0.85	0.86	2.63	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.86	0.90	0.84	0.87	3.28	ppb
Lead	208-1	0.82	0.87	0.84	0.85	3.01	ppb
Lithium	6-1				102		%
Magnesium	24-2	485.83	477.88	484.55	482.75	0.89	ppb
Manganese	55-2	1.11	0.90	1.01	1.01	10.59	ppb
Molybdenum	94-1	5.40	5.44	5.43	5.42	0.38	ppb
Molybdenum	95-1	4.43	4.54	4.65	4.54	2.46	ppb
Molybdenum	96-1	4.56	4.61	4.72	4.63	1.69	ppb
Molybdenum	97-1	4.60	4.66	4.67	4.65	0.78	ppb
Molybdenum	98-1	4.52	4.54	4.64	4.57	1.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.02	0.99	1.00	1.00	1.29	ppb
Phosphorus	31-2	12.87	1.26	-9.58	1.52	739.89	ppb
Potassium	39-2	453.97	448.89	451.23	451.36	0.56	ppb
Rhodium	103-1				97		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				91		%
Selenium	82-1	4.85	3.73	3.84	4.14	14.84	ppb
Selenium	77-2	8.16	8.19	5.46	7.27	21.55	ppb
Selenium	78-2	5.82	3.77	4.60	4.73	21.74	ppb
Silicon	28-1	1.20	1.25	1.18	1.21	2.77	ppb
Silver	107-1	0.88	0.94	0.91	0.91	3.42	ppb
Silver	109-1	0.88	0.91	0.93	0.91	2.27	ppb
Sodium	23-2	471.59	462.70	472.87	469.06	1.18	ppb
Strontium	86-1	0.77	0.81	0.89	0.83	7.17	ppb
Strontium	88-1	0.87	0.87	0.91	0.88	2.31	ppb
Sulfur	34-1	-500.96	-400.92	-395.50	-432.46		ppb
Terbium	159-1				98		%
Terbium	159-2				93		%
Thallium	203-1	0.82	0.85	0.87	0.85	2.97	ppb
Thallium	205-1	0.84	0.84	0.86	0.85	1.16	ppb
Tin	118-1	4.42	4.68	4.53	4.54	2.97	ppb
Titanium	47-1	4.81	4.66	4.78	4.75	1.64	ppb
Uranium	238-1	0.82	0.85	0.85	0.84	2.33	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.75	4.50	4.58	4.61	2.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				90		%
Zinc	66-2	4.86	4.48	4.51	4.62	4.53	ppb
Zirconium	90-1	0.89	0.92	0.95	0.92	3.64	ppb
Zirconium	91-1	0.92	0.92	0.91	0.92	0.29	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.37	-0.05	0.43	0.00	13234.95	ppb
Antimony	121-1	0.02	0.01	0.01	0.02	9.98	ppb
Arsenic	75-2	-0.01	0.03	0.01	0.01	203.64	ppb
Barium	135-1	0.00	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	0.00	-0.01		ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	550.41	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.00	0.08	0.03	167.00	ppb
Cadmium	106-1	-0.50	-1.07	0.53	-0.35		ppb
Cadmium	111-1	-0.01	-0.01	0.03	0.00	745.42	ppb
Calcium	43-1	0.67	0.10	0.59	0.46	67.30	ppb
Calcium	44-1	-0.78	-0.49	-0.20	-0.49		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	-0.01	-0.01		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.07	-0.06	-0.03	-0.05		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				93		%
Indium	115-1				97		%
Indium	115-2				91		%
Iron	54-2	-1.39	-1.50	-1.10	-1.33		ppb
Iron	56-2	-1.27	-1.07	-1.00	-1.11		ppb
Iron	57-2	-2.79	-2.55	-2.35	-2.56		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.01	-0.02	0.00	-0.01		ppb
Lead	208-1	-0.01	-0.01	0.00	-0.01		ppb
Lithium	6-1				100		%
Magnesium	24-2	-1.22	-0.73	-0.76	-0.90		ppb
Manganese	55-2	-0.04	-0.08	-0.01	-0.04		ppb
Molybdenum	94-1	0.08	0.04	0.05	0.06	38.81	ppb
Molybdenum	95-1	0.08	0.05	0.06	0.06	29.18	ppb
Molybdenum	96-1	0.07	0.06	0.07	0.07	7.45	ppb
Molybdenum	97-1	0.09	0.05	0.05	0.06	36.33	ppb
Molybdenum	98-1	0.06	0.05	0.05	0.05	16.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.02	-0.01	-0.02		ppb
Phosphorus	31-2	-25.04	-9.28	-22.80	-19.04		ppb
Potassium	39-2	-2.64	-1.23	-0.40	-1.42		ppb
Rhodium	103-1				96		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				90		%
Selenium	82-1	-0.46	-0.36	-0.20	-0.34		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.37	-0.36	-0.79	-0.51		ppb
Silicon	28-1	-0.10	-0.10	0.03	-0.06		ppb
Silver	107-1	0.01	0.01	0.01	0.01	21.59	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.57	ppb
Sodium	23-2	0.73	2.15	3.08	1.99	59.55	ppb
Strontium	86-1	0.01	0.00	0.01	0.01	107.48	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	24.29	ppb
Sulfur	34-1	-393.48	-387.73	-250.65	-343.95		ppb
Terbium	159-1				96		%
Terbium	159-2				92		%
Thallium	203-1	0.01	0.00	0.00	0.00	62.15	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	35.17	ppb
Tin	118-1	0.01	0.01	0.01	0.01	19.20	ppb
Titanium	47-1	0.04	0.05	0.08	0.06	31.01	ppb
Uranium	238-1	0.01	0.00	0.01	0.00	42.47	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	137.88	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				89		%
Zinc	66-2	0.06	0.01	0.07	0.04	72.46	ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	61.02	ppb
Zirconium	91-1	0.01	0.00	0.01	0.00	75.66	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88768.75	91837.40	91238.26	90614.81	1.80	ppb
Antimony	121-1	1.00	1.04	1.02	1.02	1.63	ppb
Arsenic	75-2	0.26	0.20	0.24	0.23	12.86	ppb
Barium	135-1	1.32	1.40	1.35	1.36	2.79	ppb
Barium	137-1	1.33	1.43	1.40	1.39	3.80	ppb
Beryllium	9-1	0.26	0.26	0.25	0.25	2.17	ppb
Bismuth	209-1				93		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	14.90	14.87	14.55	14.77	1.29	ppb
Cadmium	106-1	-1.92	-1.43	-1.72	-1.69		ppb
Cadmium	111-1	0.61	0.56	0.60	0.59	4.40	ppb
Calcium	43-1	94887.09	96191.46	96560.56	95879.70	0.92	ppb
Calcium	44-1	96820.32	96328.72	97427.31	96858.78	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.39	18.91	18.86	18.72	1.54	ppb
Cobalt	59-2	1.09	1.07	1.07	1.08	1.07	ppb
Copper	63-2	7.36	7.50	7.54	7.46	1.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	101170.36	101811.63	102513.34	101831.78	0.66	ppb
Iron	56-2	101388.51	102571.93	102221.55	102060.66	0.60	ppb
Iron	57-2	99789.61	101179.88	104106.89	101692.12	2.17	ppb
Krypton	83-1						cps
Lead	206-1	4.53	4.50	4.40	4.48	1.53	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.22	4.14	4.02	4.13	2.52	ppb
Lead	208-1	4.32	4.26	4.17	4.25	1.77	ppb
Lithium	6-1				96		%
Magnesium	24-2	94506.66	96985.20	95468.08	95653.31	1.31	ppb
Manganese	55-2	6.96	7.07	7.72	7.25	5.70	ppb
Molybdenum	94-1	1586.61	1588.74	1570.84	1582.06	0.62	ppb
Molybdenum	95-1	1934.87	1943.02	1912.01	1929.97	0.83	ppb
Molybdenum	96-1	1913.77	1904.71	1882.68	1900.39	0.84	ppb
Molybdenum	97-1	1971.03	1928.02	1938.39	1945.81	1.15	ppb
Molybdenum	98-1	1975.66	1943.36	1955.23	1958.08	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.09	5.32	5.28	5.23	2.33	ppb
Phosphorus	31-2	102058.40	104255.39	104228.18	103513.99	1.22	ppb
Potassium	39-2	96104.69	97506.30	98520.76	97377.25	1.25	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	-0.08	0.02	0.04	-0.01		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.01	-0.79	0.03	-0.25		ppb
Silicon	28-1	4.38	4.42	4.39	4.39	0.44	ppb
Silver	107-1	0.05	0.04	0.04	0.05	17.21	ppb
Silver	109-1	0.06	0.05	0.04	0.05	13.39	ppb
Sodium	23-2	99713.50	102327.59	100418.63	100819.91	1.34	ppb
Strontium	86-1	30.88	30.58	30.28	30.58	0.98	ppb
Strontium	88-1	30.98	30.75	30.81	30.85	0.39	ppb
Sulfur	34-1	93795.30	93718.92	93747.60	93753.94	0.04	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.12	0.12	0.13	0.12	3.21	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	1.07	ppb
Tin	118-1	0.18	0.16	0.16	0.17	4.76	ppb
Titanium	47-1	2044.55	2029.20	2049.77	2041.17	0.52	ppb
Uranium	238-1	5.41	5.56	5.51	5.49	1.41	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.10	0.13	0.12	12.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				93		%
Zinc	66-2	11.35	10.70	10.40	10.82	4.46	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	18.67	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	21.02	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	89176.74	90490.38	91192.17	90286.43	1.13	ppb
Antimony	121-1	18.85	19.16	19.05	19.02	0.82	ppb
Arsenic	75-2	19.31	18.51	21.31	19.71	7.32	ppb
Barium	135-1	19.58	19.84	19.76	19.73	0.68	ppb
Barium	137-1	19.73	20.33	20.31	20.12	1.69	ppb
Beryllium	9-1	18.87	19.18	18.86	18.97	0.95	ppb
Bismuth	209-1				95		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	29.77	30.21	29.94	29.97	0.74	ppb
Cadmium	106-1	12.71	14.50	12.60	13.27	8.05	ppb
Cadmium	111-1	17.85	18.51	18.37	18.24	1.91	ppb
Calcium	43-1	95991.08	97527.19	96927.89	96815.39	0.80	ppb
Calcium	44-1	95712.09	97047.94	96805.06	96521.70	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.21	36.83	36.91	36.65	1.04	ppb
Cobalt	59-2	19.17	19.48	19.68	19.44	1.32	ppb
Copper	63-2	26.03	26.73	26.36	26.37	1.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				92		%
Iron	54-2	100381.33	101604.87	101956.36	101314.19	0.82	ppb
Iron	56-2	100082.42	102462.30	102438.54	101661.08	1.34	ppb
Iron	57-2	101759.95	101462.29	103144.15	102122.13	0.88	ppb
Krypton	83-1						cps
Lead	206-1	23.18	23.36	23.65	23.40	1.00	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.43	22.41	22.84	22.56	1.06	ppb
Lead	208-1	22.59	22.58	22.97	22.71	0.96	ppb
Lithium	6-1				96		%
Magnesium	24-2	96332.09	95297.52	95983.26	95870.96	0.55	ppb
Manganese	55-2	25.11	25.87	25.19	25.39	1.65	ppb
Molybdenum	94-1	1545.57	1551.45	1554.25	1550.42	0.29	ppb
Molybdenum	95-1	1889.59	1878.90	1900.39	1889.63	0.57	ppb
Molybdenum	96-1	1862.39	1855.51	1876.50	1864.80	0.57	ppb
Molybdenum	97-1	1907.00	1894.57	1919.88	1907.15	0.66	ppb
Molybdenum	98-1	1907.00	1937.44	1917.96	1920.80	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.32	24.73	24.89	24.65	1.19	ppb
Phosphorus	31-2	103341.97	103267.40	103897.26	103502.21	0.33	ppb
Potassium	39-2	96214.95	95633.02	96308.52	96052.16	0.38	ppb
Rhodium	103-1				95		%
Rhodium	103-2				89		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	18.75	19.25	20.32	19.44	4.13	ppb
Selenium	77-2	9.09	14.32	24.82	16.08	49.85	ppb
Selenium	78-2	14.18	16.98	17.44	16.20	10.91	ppb
Silicon	28-1	4.62	4.73	4.88	4.75	2.74	ppb
Silver	107-1	16.76	16.82	17.04	16.87	0.88	ppb
Silver	109-1	16.83	17.10	17.28	17.07	1.31	ppb
Sodium	23-2	99445.83	100973.12	101265.56	100561.50	0.97	ppb
Strontium	86-1	30.09	30.62	30.47	30.39	0.89	ppb
Strontium	88-1	30.04	30.55	30.59	30.39	1.01	ppb
Sulfur	34-1	91356.39	93895.46	92799.32	92683.72	1.37	ppb
Terbium	159-1				104		%
Terbium	159-2				95		%
Thallium	203-1	18.43	18.34	18.57	18.45	0.63	ppb
Thallium	205-1	18.50	18.50	18.78	18.59	0.88	ppb
Tin	118-1	0.14	0.12	0.13	0.13	7.29	ppb
Titanium	47-1	2002.73	2054.78	2052.97	2036.83	1.45	ppb
Uranium	238-1	5.58	5.57	5.62	5.59	0.49	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	18.17	18.67	18.21	18.35	1.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				94		%
Zinc	66-2	28.97	30.37	29.60	29.65	2.37	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	19.84	ppb
Zirconium	91-1	0.01	0.02	0.01	0.02	24.74	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51773.97	50546.15	50793.49	51037.87	1.27	ppb
Antimony	121-1	503.87	504.56	510.21	506.21	0.69	ppb
Arsenic	75-2	503.68	499.95	506.21	503.28	0.63	ppb
Barium	135-1	2564.03	2555.03	2577.81	2565.62	0.45	ppb
Barium	137-1	2548.16	2531.12	2574.25	2551.18	0.85	ppb
Beryllium	9-1	523.60	534.13	527.88	528.54	1.00	ppb
Bismuth	209-1				89		%
Bismuth	209-2				79		%
Bromine	81-1						cps
Cadmium	108-1	491.16	491.72	499.83	494.24	0.98	ppb
Cadmium	106-1	501.22	499.98	505.22	502.14	0.55	ppb
Cadmium	111-1	465.60	467.18	475.10	469.29	1.08	ppb
Calcium	43-1	245490.60	245580.01	250271.86	247114.15	1.11	ppb
Calcium	44-1	249257.57	251300.04	248454.49	249670.70	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	492.09	486.11	488.44	488.88	0.62	ppb
Cobalt	59-2	513.74	504.98	506.26	508.33	0.93	ppb
Copper	63-2	4992.22	4926.27	4925.06	4947.85	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				90		%
Indium	115-1				92		%
Indium	115-2				84		%
Iron	54-2	128789.24	125421.17	125740.17	126650.19	1.47	ppb
Iron	56-2	128728.71	125542.47	127735.35	127335.51	1.28	ppb
Iron	57-2	129752.71	127588.07	127932.42	128424.40	0.91	ppb
Krypton	83-1						cps
Lead	206-1	2592.55	2590.00	2610.56	2597.70	0.43	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2610.25	2610.04	2633.39	2617.89	0.51	ppb
Lead	208-1	2601.03	2609.13	2615.94	2608.70	0.29	ppb
Lithium	6-1				89		%
Magnesium	24-2	257086.53	252820.39	255257.98	255054.97	0.84	ppb
Manganese	55-2	5148.17	5078.60	5063.55	5096.77	0.89	ppb
Molybdenum	94-1	5100.23	5146.75	5180.85	5142.61	0.79	ppb
Molybdenum	95-1	5067.92	5137.33	5155.89	5120.38	0.91	ppb
Molybdenum	96-1	5097.13	5098.96	5156.09	5117.39	0.66	ppb
Molybdenum	97-1	5208.70	5143.51	5150.58	5167.60	0.69	ppb
Molybdenum	98-1	5144.42	5136.53	5116.61	5132.52	0.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	497.67	495.56	491.94	495.06	0.58	ppb
Phosphorus	31-2	10390.94	10671.86	10095.21	10386.00	2.78	ppb
Potassium	39-2	125210.61	125595.60	124965.44	125257.22	0.25	ppb
Rhodium	103-1				88		%
Rhodium	103-2				80		%
Scandium	45-1				98		%
Scandium	45-2				90		%
Selenium	82-1	487.99	492.58	501.08	493.89	1.34	ppb
Selenium	77-2	493.01	484.56	496.41	491.33	1.24	ppb
Selenium	78-2	501.54	518.16	501.44	507.05	1.90	ppb
Silicon	28-1	627.40	634.81	632.12	631.45	0.59	ppb
Silver	107-1	485.74	491.99	493.75	490.50	0.86	ppb
Silver	109-1	489.26	488.74	494.28	490.76	0.62	ppb
Sodium	23-2	259194.92	252775.49	255905.56	255958.66	1.25	ppb
Strontium	86-1	517.01	522.03	507.62	515.56	1.42	ppb
Strontium	88-1	511.72	517.07	514.21	514.33	0.52	ppb
Sulfur	34-1	11720.81	11837.73	11796.53	11785.03	0.50	ppb
Terbium	159-1				98		%
Terbium	159-2				88		%
Thallium	203-1	524.41	519.34	524.63	522.79	0.57	ppb
Thallium	205-1	517.13	516.01	519.58	517.57	0.35	ppb
Tin	118-1	509.47	504.65	513.74	509.29	0.89	ppb
Titanium	47-1	5108.68	5175.67	5118.38	5134.24	0.71	ppb
Uranium	238-1	533.88	542.55	536.38	537.60	0.83	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	501.95	497.17	495.71	498.28	0.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				87		%
Zinc	66-2	4736.69	4684.91	4677.60	4699.73	0.69	ppb
Zirconium	90-1	515.20	521.81	521.22	519.41	0.70	ppb
Zirconium	91-1	512.17	531.09	526.58	523.28	1.89	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.60	1.24	0.73	1.19	36.49	ppb
Antimony	121-1	0.11	0.12	0.11	0.11	4.09	ppb
Arsenic	75-2	-0.01	0.03	0.03	0.02	144.18	ppb
Barium	135-1	0.24	0.20	0.20	0.21	11.09	ppb
Barium	137-1	0.23	0.22	0.20	0.22	5.16	ppb
Beryllium	9-1	0.12	0.12	0.10	0.11	10.09	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.16	0.05	0.07	106.76	ppb
Cadmium	106-1	0.18	-0.12	-1.45	-0.46		ppb
Cadmium	111-1	0.06	0.02	0.00	0.03	102.95	ppb
Calcium	43-1	8.56	4.66	4.89	6.04	36.24	ppb
Calcium	44-1	8.81	7.34	6.52	7.55	15.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.03	0.03	0.03	1.54	ppb
Cobalt	59-2	0.02	0.00	0.01	0.01	111.52	ppb
Copper	63-2	0.26	0.24	0.21	0.23	10.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				96		%
Indium	115-1				102		%
Indium	115-2				95		%
Iron	54-2	4.61	3.90	4.11	4.21	8.65	ppb
Iron	56-2	3.98	3.97	3.43	3.80	8.30	ppb
Iron	57-2	3.56	2.40	2.05	2.67	29.48	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.23	0.19	0.22	11.37	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.24	0.21	0.23	7.77	ppb
Lead	208-1	0.25	0.24	0.20	0.23	10.84	ppb
Lithium	6-1				102		%
Magnesium	24-2	4.55	4.56	5.59	4.90	12.22	ppb
Manganese	55-2	0.24	0.12	0.06	0.14	64.86	ppb
Molybdenum	94-1	0.35	0.28	0.24	0.29	18.49	ppb
Molybdenum	95-1	0.27	0.24	0.22	0.24	10.51	ppb
Molybdenum	96-1	0.32	0.26	0.21	0.26	20.47	ppb
Molybdenum	97-1	0.32	0.22	0.21	0.25	23.84	ppb
Molybdenum	98-1	0.30	0.25	0.21	0.26	16.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.06	0.03	-0.03		ppb
Phosphorus	31-2	-20.26	-27.50	-12.56	-20.11		ppb
Potassium	39-2	18.12	19.96	21.50	19.86	8.53	ppb
Rhodium	103-1				102		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				95		%
Selenium	82-1	0.07	-0.20	0.11	-0.01		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	-0.38	0.02	-0.38		ppb
Silicon	28-1	0.15	0.22	0.10	0.15	39.53	ppb
Silver	107-1	0.06	0.05	0.04	0.05	14.53	ppb
Silver	109-1	0.05	0.04	0.04	0.05	14.37	ppb
Sodium	23-2	26.73	24.94	24.92	25.53	4.09	ppb
Strontium	86-1	0.02	0.00	0.00	0.01	182.62	ppb
Strontium	88-1	0.01	0.00	0.01	0.01	47.00	ppb
Sulfur	34-1	-502.81	-401.90	-543.00	-482.57		ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.06	0.06	0.07	0.07	5.77	ppb
Thallium	205-1	0.07	0.06	0.06	0.06	8.91	ppb
Tin	118-1	0.02	0.04	0.04	0.03	28.95	ppb
Titanium	47-1	0.21	0.26	0.18	0.21	18.67	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	32.62	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	34.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				93		%
Zinc	66-2	0.01	0.10	0.10	0.07	76.69	ppb
Zirconium	90-1	0.04	0.02	0.03	0.03	22.46	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	24.40	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.35	17.59	19.11	18.02	5.31	ppb
Antimony	121-1	1.83	1.86	1.86	1.85	0.80	ppb
Arsenic	75-2	1.00	0.89	1.36	1.08	22.45	ppb
Barium	135-1	9.05	9.22	8.99	9.09	1.30	ppb
Barium	137-1	9.30	9.45	9.41	9.39	0.85	ppb
Beryllium	9-1	0.94	0.94	0.93	0.94	0.97	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.01	1.08	0.89	0.99	10.03	ppb
Cadmium	106-1	0.08	0.63	0.65	0.45	71.18	ppb
Cadmium	111-1	0.92	0.90	0.93	0.91	1.75	ppb
Calcium	43-1	452.11	455.32	464.07	457.17	1.35	ppb
Calcium	44-1	457.17	457.88	455.27	456.77	0.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.92	1.81	1.93	1.89	3.46	ppb
Cobalt	59-2	0.99	1.03	0.99	1.01	2.21	ppb
Copper	63-2	2.00	2.01	2.06	2.03	1.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				96		%
Indium	115-1				103		%
Indium	115-2				95		%
Iron	54-2	51.92	54.01	52.68	52.87	2.00	ppb
Iron	56-2	48.64	48.47	50.40	49.17	2.17	ppb
Iron	57-2	48.26	42.74	46.29	45.76	6.11	ppb
Krypton	83-1						cps
Lead	206-1	0.99	0.96	0.95	0.97	2.23	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.02	0.96	1.03	1.00	3.57	ppb
Lead	208-1	0.99	0.94	0.97	0.97	2.70	ppb
Lithium	6-1				101		%
Magnesium	24-2	471.22	480.97	488.36	480.18	1.79	ppb
Manganese	55-2	0.86	0.82	0.92	0.87	6.08	ppb
Molybdenum	94-1	5.27	5.34	5.30	5.30	0.68	ppb
Molybdenum	95-1	4.37	4.46	4.31	4.38	1.70	ppb
Molybdenum	96-1	4.50	4.66	4.59	4.58	1.75	ppb
Molybdenum	97-1	4.43	4.69	4.52	4.55	2.92	ppb
Molybdenum	98-1	4.40	4.53	4.34	4.42	2.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.00	0.95	0.96	0.97	2.82	ppb
Phosphorus	31-2	37.78	14.88	13.30	21.99	62.32	ppb
Potassium	39-2	455.10	454.28	462.67	457.35	1.01	ppb
Rhodium	103-1				102		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				95		%
Selenium	82-1	4.25	4.61	4.22	4.36	4.95	ppb
Selenium	77-2	1.31	3.97	3.98	3.09	49.88	ppb
Selenium	78-2	4.78	4.03	3.64	4.15	13.94	ppb
Silicon	28-1	1.04	0.95	0.97	0.99	4.67	ppb
Silver	107-1	0.92	0.94	0.93	0.93	1.32	ppb
Silver	109-1	0.92	0.93	0.92	0.93	0.59	ppb
Sodium	23-2	472.95	474.22	483.24	476.80	1.18	ppb
Strontium	86-1	0.85	0.91	0.85	0.87	4.06	ppb
Strontium	88-1	0.85	0.86	0.87	0.86	1.30	ppb
Sulfur	34-1	-513.35	-556.91	-581.12	-550.46		ppb
Terbium	159-1				102		%
Terbium	159-2				94		%
Thallium	203-1	0.87	0.84	0.87	0.86	2.14	ppb
Thallium	205-1	0.86	0.86	0.87	0.86	0.93	ppb
Tin	118-1	4.47	4.73	4.62	4.61	2.80	ppb
Titanium	47-1	4.65	4.67	4.57	4.63	1.11	ppb
Uranium	238-1	0.84	0.84	0.82	0.83	1.27	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.53	4.65	4.72	4.63	2.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				93		%
Zinc	66-2	4.89	4.97	4.45	4.77	5.94	ppb
Zirconium	90-1	0.89	0.92	0.90	0.90	2.09	ppb
Zirconium	91-1	0.90	0.87	0.86	0.88	2.04	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.47	18.67	15.51	17.55	10.09	ppb
Antimony	121-1	1.78	1.77	1.80	1.78	0.79	ppb
Arsenic	75-2	1.02	0.84	0.90	0.92	10.34	ppb
Barium	135-1	8.87	8.78	9.14	8.93	2.12	ppb
Barium	137-1	8.96	8.95	9.33	9.08	2.40	ppb
Beryllium	9-1	0.88	0.88	0.87	0.88	0.91	ppb
Bismuth	209-1				103		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.81	1.03	0.96	0.93	11.82	ppb
Cadmium	106-1	-0.73	0.69	0.39	0.12	634.78	ppb
Cadmium	111-1	0.90	1.02	0.89	0.94	7.49	ppb
Calcium	43-1	448.04	451.66	443.90	447.87	0.87	ppb
Calcium	44-1	446.40	444.19	449.99	446.86	0.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.99	1.88	1.80	1.89	4.99	ppb
Cobalt	59-2	1.00	1.02	1.00	1.00	1.32	ppb
Copper	63-2	2.02	2.09	2.06	2.06	1.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				96		%
Indium	115-1				104		%
Indium	115-2				95		%
Iron	54-2	49.62	50.27	48.36	49.42	1.96	ppb
Iron	56-2	49.55	48.81	48.57	48.98	1.04	ppb
Iron	57-2	48.78	47.87	46.47	47.71	2.44	ppb
Krypton	83-1						cps
Lead	206-1	0.95	0.90	0.90	0.92	3.01	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.86	0.94	0.92	0.91	4.77	ppb
Lead	208-1	0.92	0.91	0.91	0.91	0.56	ppb
Lithium	6-1				104		%
Magnesium	24-2	487.49	480.53	467.44	478.49	2.13	ppb
Manganese	55-2	0.91	0.82	0.93	0.89	6.34	ppb
Molybdenum	94-1	5.32	5.23	5.32	5.29	1.02	ppb
Molybdenum	95-1	4.28	4.38	4.43	4.37	1.71	ppb
Molybdenum	96-1	4.47	4.34	4.47	4.43	1.59	ppb
Molybdenum	97-1	4.49	4.37	4.44	4.44	1.44	ppb
Molybdenum	98-1	4.37	4.26	4.32	4.32	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.99	0.91	1.07	0.99	8.34	ppb
Phosphorus	31-2	4.30	5.39	7.14	5.61	25.47	ppb
Potassium	39-2	466.81	456.61	457.39	460.27	1.23	ppb
Rhodium	103-1				103		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				95		%
Selenium	82-1	4.75	5.45	4.54	4.91	9.69	ppb
Selenium	77-2	0.00	7.95	1.33	3.09	137.72	ppb
Selenium	78-2	4.41	6.45	3.65	4.83	29.97	ppb
Silicon	28-1	0.72	0.72	0.75	0.73	2.46	ppb
Silver	107-1	0.89	0.89	0.92	0.90	1.74	ppb
Silver	109-1	0.89	0.88	0.93	0.90	3.00	ppb
Sodium	23-2	480.61	468.99	475.29	474.96	1.22	ppb
Strontium	86-1	0.82	0.82	0.83	0.82	0.88	ppb
Strontium	88-1	0.86	0.84	0.86	0.85	1.31	ppb
Sulfur	34-1	-579.96	-588.29	-530.42	-566.22		ppb
Terbium	159-1				104		%
Terbium	159-2				94		%
Thallium	203-1	0.85	0.85	0.85	0.85	0.22	ppb
Thallium	205-1	0.84	0.86	0.86	0.85	1.17	ppb
Tin	118-1	4.50	4.53	4.61	4.54	1.29	ppb
Titanium	47-1	4.58	4.59	4.57	4.58	0.23	ppb
Uranium	238-1	0.82	0.80	0.84	0.82	1.94	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.39	4.52	4.41	4.44	1.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				93		%
Zinc	66-2	5.26	5.01	4.61	4.96	6.57	ppb
Zirconium	90-1	0.87	0.87	0.90	0.88	1.94	ppb
Zirconium	91-1	0.84	0.88	0.89	0.87	2.83	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.60	6.94	9.27	7.61	19.11	ppb
Antimony	121-1	0.38	0.40	0.39	0.39	1.76	ppb
Arsenic	75-2	0.52	0.57	0.42	0.50	14.84	ppb
Barium	135-1	1.94	1.91	1.90	1.92	0.94	ppb
Barium	137-1	1.96	1.93	1.96	1.95	0.91	ppb
Beryllium	9-1	0.38	0.38	0.37	0.38	1.25	ppb
Bismuth	209-1				104		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.49	0.30	0.40	23.85	ppb
Cadmium	106-1	-1.05	-0.18	0.39	-0.28		ppb
Cadmium	111-1	0.41	0.32	0.36	0.36	12.58	ppb
Calcium	43-1	197.60	189.16	192.99	193.25	2.19	ppb
Calcium	44-1	192.15	194.52	190.37	192.35	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.37	0.37	0.40	0.38	4.48	ppb
Cobalt	59-2	0.38	0.37	0.41	0.39	6.05	ppb
Copper	63-2	0.88	0.84	0.90	0.87	3.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				95		%
Indium	115-1				104		%
Indium	115-2				95		%
Iron	54-2	33.69	32.79	30.83	32.44	4.52	ppb
Iron	56-2	32.66	33.59	33.60	33.28	1.61	ppb
Iron	57-2	29.35	32.08	27.90	29.78	7.13	ppb
Krypton	83-1						cps
Lead	206-1	0.38	0.41	0.41	0.40	3.89	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.42	0.40	0.41	0.41	3.08	ppb
Lead	208-1	0.40	0.41	0.41	0.41	2.11	ppb
Lithium	6-1				103		%
Magnesium	24-2	209.73	209.87	216.93	212.18	1.94	ppb
Manganese	55-2	0.66	0.93	0.71	0.77	19.08	ppb
Molybdenum	94-1	0.97	0.93	1.00	0.97	3.60	ppb
Molybdenum	95-1	0.37	0.40	0.34	0.37	8.61	ppb
Molybdenum	96-1	0.46	0.43	0.42	0.44	5.07	ppb
Molybdenum	97-1	0.38	0.34	0.36	0.36	6.24	ppb
Molybdenum	98-1	0.38	0.38	0.37	0.38	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.40	0.45	0.48	0.44	9.22	ppb
Phosphorus	31-2	-11.33	-12.47	-8.34	-10.72		ppb
Potassium	39-2	132.93	134.48	135.01	134.14	0.81	ppb
Rhodium	103-1				104		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				94		%
Selenium	82-1	4.08	5.87	5.12	5.02	17.84	ppb
Selenium	77-2	9.18	9.25	2.70	7.05	53.44	ppb
Selenium	78-2	3.19	6.83	4.94	4.99	36.48	ppb
Silicon	28-1	-0.29	-0.33	-0.34	-0.32		ppb
Silver	107-1	0.40	0.40	0.40	0.40	0.78	ppb
Silver	109-1	0.39	0.39	0.41	0.39	3.26	ppb
Sodium	23-2	204.83	211.27	220.34	212.15	3.67	ppb
Strontium	86-1	0.35	0.37	0.35	0.36	2.57	ppb
Strontium	88-1	0.35	0.36	0.34	0.35	2.18	ppb
Sulfur	34-1	-592.24	-563.08	-569.23	-574.85		ppb
Terbium	159-1				103		%
Terbium	159-2				95		%
Thallium	203-1	0.38	0.37	0.36	0.37	2.85	ppb
Thallium	205-1	0.38	0.36	0.38	0.37	2.76	ppb
Tin	118-1	0.39	0.39	0.38	0.39	2.65	ppb
Titanium	47-1	0.41	0.42	0.45	0.43	5.56	ppb
Uranium	238-1	0.35	0.36	0.35	0.35	1.17	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.32	0.39	0.41	0.38	12.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				93		%
Zinc	66-2	0.76	0.78	0.95	0.83	12.78	ppb
Zirconium	90-1	0.37	0.36	0.35	0.36	3.52	ppb
Zirconium	91-1	0.38	0.37	0.35	0.37	3.17	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.64	24.85	26.63	24.71	8.09	ppb
Antimony	121-1	1.81	1.75	1.88	1.81	3.38	ppb
Arsenic	75-2	1.09	1.08	0.83	1.00	15.03	ppb
Barium	135-1	9.13	8.84	9.34	9.10	2.76	ppb
Barium	137-1	9.29	9.06	9.60	9.32	2.89	ppb
Beryllium	9-1	0.88	0.84	0.94	0.88	5.69	ppb
Bismuth	209-1				104		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.98	0.86	0.93	0.92	6.84	ppb
Cadmium	106-1	1.46	-0.39	1.11	0.73	135.19	ppb
Cadmium	111-1	0.97	0.91	0.95	0.94	3.01	ppb
Calcium	43-1	474.55	447.36	475.35	465.75	3.42	ppb
Calcium	44-1	462.71	439.99	466.19	456.30	3.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.98	1.97	1.99	1.98	0.50	ppb
Cobalt	59-2	1.02	0.99	0.99	1.00	1.66	ppb
Copper	63-2	2.07	2.02	2.21	2.10	4.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				96		%
Indium	115-1				103		%
Indium	115-2				95		%
Iron	54-2	53.90	50.38	52.92	52.40	3.46	ppb
Iron	56-2	50.96	49.38	50.01	50.12	1.59	ppb
Iron	57-2	50.02	47.44	49.98	49.15	3.01	ppb
Krypton	83-1						cps
Lead	206-1	0.95	0.85	0.88	0.89	5.56	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.93	0.89	0.90	0.90	2.62	ppb
Lead	208-1	0.92	0.87	0.88	0.89	3.31	ppb
Lithium	6-1				104		%
Magnesium	24-2	486.61	478.85	484.31	483.26	0.82	ppb
Manganese	55-2	0.88	0.89	0.94	0.90	3.56	ppb
Molybdenum	94-1	5.21	5.02	5.35	5.20	3.18	ppb
Molybdenum	95-1	4.41	4.24	4.45	4.37	2.58	ppb
Molybdenum	96-1	4.42	4.44	4.56	4.47	1.73	ppb
Molybdenum	97-1	4.53	4.36	4.52	4.47	2.07	ppb
Molybdenum	98-1	4.51	4.34	4.50	4.45	2.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.05	1.05	1.07	1.05	1.23	ppb
Phosphorus	31-2	-4.88	5.26	17.11	5.83	188.78	ppb
Potassium	39-2	464.31	453.76	465.65	461.24	1.41	ppb
Rhodium	103-1				103		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				94		%
Selenium	82-1	4.23	3.69	4.35	4.09	8.56	ppb
Selenium	77-2	9.33	9.25	3.93	7.51	41.20	ppb
Selenium	78-2	3.66	2.42	3.99	3.36	24.63	ppb
Silicon	28-1	0.82	0.39	0.81	0.67	36.93	ppb
Silver	107-1	0.90	0.87	0.93	0.90	3.31	ppb
Silver	109-1	0.92	0.88	0.96	0.92	4.13	ppb
Sodium	23-2	478.63	467.01	475.23	473.62	1.26	ppb
Strontium	86-1	0.89	0.80	0.84	0.84	5.60	ppb
Strontium	88-1	0.86	0.83	0.85	0.85	1.66	ppb
Sulfur	34-1	-391.53	-681.88	-360.40	-477.94		ppb
Terbium	159-1				103		%
Terbium	159-2				96		%
Thallium	203-1	0.87	0.86	0.86	0.86	0.64	ppb
Thallium	205-1	0.89	0.84	0.86	0.86	2.94	ppb
Tin	118-1	4.52	4.35	4.72	4.53	4.07	ppb
Titanium	47-1	4.74	4.53	4.63	4.64	2.29	ppb
Uranium	238-1	0.85	0.81	0.85	0.84	2.31	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.64	4.57	4.64	4.61	0.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				93		%
Zinc	66-2	5.42	5.30	5.02	5.25	3.86	ppb
Zirconium	90-1	0.90	0.86	0.91	0.89	3.40	ppb
Zirconium	91-1	0.87	0.85	0.86	0.86	1.38	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.66	14.69	16.41	16.59	12.01	ppb
Antimony	121-1	1.84	1.84	1.85	1.84	0.31	ppb
Arsenic	75-2	0.79	0.71	1.11	0.87	24.26	ppb
Barium	135-1	9.35	8.86	8.93	9.05	2.89	ppb
Barium	137-1	9.15	9.24	9.17	9.19	0.52	ppb
Beryllium	9-1	0.88	0.89	0.86	0.87	1.66	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.77	0.84	0.90	0.83	7.37	ppb
Cadmium	106-1	1.27	0.25	0.18	0.57	107.07	ppb
Cadmium	111-1	0.98	0.94	0.96	0.96	2.09	ppb
Calcium	43-1	450.51	454.23	448.37	451.04	0.66	ppb
Calcium	44-1	450.81	455.61	453.20	453.21	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.81	1.82	1.91	1.85	2.83	ppb
Cobalt	59-2	1.04	1.00	0.99	1.01	2.97	ppb
Copper	63-2	2.04	2.04	2.01	2.03	0.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				95		%
Indium	115-1				102		%
Indium	115-2				94		%
Iron	54-2	50.20	48.78	51.41	50.13	2.64	ppb
Iron	56-2	47.75	48.98	49.82	48.85	2.13	ppb
Iron	57-2	47.47	44.72	47.66	46.62	3.54	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.88	0.87	0.88	0.54	ppb

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.90	0.90	0.91	0.90	0.37	ppb
Lead	208-1	0.91	0.88	0.88	0.89	1.91	ppb
Lithium	6-1				103		%
Magnesium	24-2	474.57	480.39	481.88	478.95	0.81	ppb
Manganese	55-2	0.95	0.82	1.06	0.94	12.86	ppb
Molybdenum	94-1	5.38	5.20	5.23	5.27	1.78	ppb
Molybdenum	95-1	4.50	4.40	4.50	4.47	1.31	ppb
Molybdenum	96-1	4.50	4.53	4.49	4.51	0.47	ppb
Molybdenum	97-1	4.37	4.34	4.49	4.40	1.90	ppb
Molybdenum	98-1	4.40	4.39	4.39	4.39	0.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.24	1.11	0.96	1.10	12.60	ppb
Phosphorus	31-2	17.89	5.20	13.80	12.29	52.67	ppb
Potassium	39-2	446.09	450.66	452.86	449.87	0.77	ppb
Rhodium	103-1				101		%
Rhodium	103-2				96		%
Scandium	45-1				102		%
Scandium	45-2				93		%
Selenium	82-1	4.15	4.17	4.85	4.39	9.10	ppb
Selenium	77-2	0.00	1.34	0.00	0.45	173.21	ppb
Selenium	78-2	7.40	2.06	2.04	3.83	80.55	ppb
Silicon	28-1	0.75	0.73	0.71	0.73	2.12	ppb
Silver	107-1	0.91	0.90	0.89	0.90	1.44	ppb
Silver	109-1	0.89	0.90	0.91	0.90	0.86	ppb
Sodium	23-2	464.84	470.50	468.98	468.10	0.63	ppb
Strontium	86-1	0.82	0.83	0.85	0.83	1.56	ppb
Strontium	88-1	0.86	0.85	0.87	0.86	1.37	ppb
Sulfur	34-1	-383.10	-362.16	-482.16	-409.14		ppb
Terbium	159-1				101		%
Terbium	159-2				94		%
Thallium	203-1	0.88	0.84	0.86	0.86	2.49	ppb
Thallium	205-1	0.87	0.85	0.87	0.86	1.26	ppb
Tin	118-1	4.50	4.61	4.53	4.55	1.21	ppb
Titanium	47-1	4.39	4.59	4.50	4.49	2.28	ppb
Uranium	238-1	0.85	0.82	0.82	0.83	1.97	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.71	4.64	4.44	4.60	3.10	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				92		%
Zinc	66-2	5.16	5.37	5.27	5.27	2.00	ppb
Zirconium	90-1	0.89	0.88	0.89	0.89	0.51	ppb
Zirconium	91-1	0.89	0.82	0.87	0.86	4.19	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.42	7.34	7.31	7.03	7.48	ppb
Antimony	121-1	0.37	0.39	0.39	0.38	3.01	ppb
Arsenic	75-2	0.41	0.47	0.47	0.45	7.60	ppb
Barium	135-1	1.80	1.98	1.94	1.91	5.05	ppb
Barium	137-1	1.90	2.04	1.96	1.97	3.65	ppb
Beryllium	9-1	0.36	0.39	0.37	0.37	4.11	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.27	0.33	0.29	0.29	10.02	ppb
Cadmium	106-1	-1.46	-0.63	-0.88	-0.99		ppb
Cadmium	111-1	0.41	0.37	0.35	0.37	7.55	ppb
Calcium	43-1	185.27	201.27	200.03	195.53	4.55	ppb
Calcium	44-1	192.28	199.02	198.17	196.49	1.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.36	0.42	0.39	7.72	ppb
Cobalt	59-2	0.38	0.38	0.40	0.39	2.87	ppb
Copper	63-2	0.94	0.70	0.90	0.85	15.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	32.13	33.39	35.09	33.54	4.43	ppb
Iron	56-2	32.21	30.18	33.31	31.90	4.97	ppb
Iron	57-2	30.36	31.10	34.05	31.84	6.12	ppb
Krypton	83-1						cps
Lead	206-1	0.38	0.40	0.39	0.39	2.27	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.38	0.39	0.43	0.40	7.18	ppb
Lead	208-1	0.38	0.40	0.41	0.40	3.49	ppb
Lithium	6-1				101		%
Magnesium	24-2	206.99	196.48	214.19	205.88	4.33	ppb
Manganese	55-2	0.80	0.70	0.89	0.80	11.60	ppb
Molybdenum	94-1	1.01	1.02	1.01	1.02	0.80	ppb
Molybdenum	95-1	0.39	0.37	0.39	0.38	2.71	ppb
Molybdenum	96-1	0.41	0.46	0.42	0.43	5.81	ppb
Molybdenum	97-1	0.35	0.40	0.37	0.37	6.49	ppb
Molybdenum	98-1	0.37	0.39	0.35	0.37	4.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.47	0.41	0.28	0.39	24.33	ppb
Phosphorus	31-2	-1.30	-15.60	-15.31	-10.74		ppb
Potassium	39-2	126.87	119.75	127.10	124.58	3.35	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				101		%
Scandium	45-2				94		%
Selenium	82-1	4.31	4.87	4.66	4.61	6.05	ppb
Selenium	77-2	6.56	5.08	6.83	6.16	15.30	ppb
Selenium	78-2	5.18	5.77	3.36	4.77	26.35	ppb
Silicon	28-1	-0.38	-0.07	-0.22	-0.22		ppb
Silver	107-1	0.40	0.41	0.38	0.40	3.82	ppb
Silver	109-1	0.40	0.41	0.40	0.40	1.38	ppb
Sodium	23-2	205.11	189.35	208.44	200.97	5.07	ppb
Strontium	86-1	0.33	0.37	0.33	0.34	6.06	ppb
Strontium	88-1	0.36	0.37	0.38	0.37	2.21	ppb
Sulfur	34-1	-624.25	-403.15	-505.53	-510.98		ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.34	0.36	0.37	0.36	4.40	ppb
Thallium	205-1	0.35	0.37	0.37	0.37	4.02	ppb
Tin	118-1	0.47	0.50	0.48	0.49	3.19	ppb
Titanium	47-1	0.35	0.43	0.40	0.39	11.36	ppb
Uranium	238-1	0.34	0.37	0.36	0.36	4.07	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.31	0.29	0.35	0.32	10.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				93		%
Zinc	66-2	0.52	0.68	0.80	0.67	21.07	ppb
Zirconium	90-1	0.36	0.38	0.37	0.37	2.45	ppb
Zirconium	91-1	0.33	0.39	0.36	0.36	8.05	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.72	8.03	7.81	7.85	2.02	ppb
Antimony	121-1	0.37	0.37	0.40	0.38	5.70	ppb
Arsenic	75-2	0.39	0.52	0.44	0.45	15.18	ppb
Barium	135-1	1.80	1.88	1.91	1.86	3.16	ppb
Barium	137-1	1.83	1.87	1.93	1.88	2.72	ppb
Beryllium	9-1	0.35	0.38	0.34	0.36	5.23	ppb
Bismuth	209-1				101		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.37	0.17	0.51	0.35	49.57	ppb
Cadmium	106-1	-1.34	-1.13	-0.58	-1.01		ppb
Cadmium	111-1	0.34	0.33	0.38	0.35	7.97	ppb
Calcium	43-1	194.20	202.89	195.74	197.61	2.35	ppb
Calcium	44-1	193.79	196.81	194.33	194.98	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.35	0.37	0.34	0.35	4.15	ppb
Cobalt	59-2	0.37	0.36	0.41	0.38	7.76	ppb
Copper	63-2	0.81	0.71	0.81	0.77	7.37	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				94		%
Iron	54-2	31.75	30.56	33.09	31.80	3.99	ppb
Iron	56-2	32.29	31.59	32.19	32.02	1.18	ppb
Iron	57-2	31.36	29.70	31.87	30.98	3.66	ppb
Krypton	83-1						cps
Lead	206-1	0.37	0.35	0.37	0.37	2.64	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.35	0.38	0.36	0.37	3.81	ppb
Lead	208-1	0.35	0.36	0.36	0.36	1.36	ppb
Lithium	6-1				102		%
Magnesium	24-2	208.74	206.46	203.68	206.29	1.23	ppb
Manganese	55-2	0.87	0.74	0.70	0.77	11.27	ppb
Molybdenum	94-1	1.00	1.03	0.97	1.00	3.08	ppb
Molybdenum	95-1	0.36	0.37	0.40	0.38	6.15	ppb
Molybdenum	96-1	0.44	0.43	0.44	0.44	1.83	ppb
Molybdenum	97-1	0.38	0.37	0.35	0.36	3.89	ppb
Molybdenum	98-1	0.37	0.36	0.37	0.37	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.49	0.40	0.43	0.44	10.90	ppb
Phosphorus	31-2	-27.07	-14.03	-10.51	-17.20		ppb
Potassium	39-2	129.00	124.00	121.39	124.80	3.10	ppb
Rhodium	103-1				100		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				93		%
Selenium	82-1	4.62	4.03	4.25	4.30	6.97	ppb
Selenium	77-2	4.08	0.00	5.36	3.15	88.93	ppb
Selenium	78-2	6.24	4.55	4.50	5.09	19.43	ppb
Silicon	28-1	-0.28	-0.22	-0.34	-0.28		ppb
Silver	107-1	0.39	0.38	0.39	0.39	1.84	ppb
Silver	109-1	0.40	0.41	0.40	0.40	1.48	ppb
Sodium	23-2	206.77	200.98	200.33	202.69	1.75	ppb
Strontium	86-1	0.37	0.35	0.33	0.35	5.21	ppb
Strontium	88-1	0.35	0.34	0.36	0.35	3.22	ppb
Sulfur	34-1	-564.67	-532.74	-596.19	-564.53		ppb
Terbium	159-1				100		%
Terbium	159-2				94		%
Thallium	203-1	0.35	0.36	0.36	0.35	1.75	ppb
Thallium	205-1	0.34	0.35	0.34	0.35	1.85	ppb
Tin	118-1	0.36	0.36	0.35	0.36	1.75	ppb
Titanium	47-1	0.41	0.42	0.40	0.41	1.59	ppb
Uranium	238-1	0.35	0.34	0.35	0.35	1.12	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.40	0.37	0.38	0.38	5.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				91		%
Zinc	66-2	0.71	0.66	0.80	0.72	9.63	ppb
Zirconium	90-1	0.37	0.36	0.37	0.36	2.15	ppb
Zirconium	91-1	0.34	0.34	0.37	0.35	3.55	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.40	8.80	7.80	9.00	14.55	ppb
Antimony	121-1	0.48	0.47	0.46	0.47	2.86	ppb
Arsenic	75-2	0.56	0.46	0.39	0.47	18.38	ppb
Barium	135-1	1.81	1.98	1.97	1.92	4.92	ppb
Barium	137-1	1.99	1.92	1.91	1.94	2.37	ppb
Beryllium	9-1	0.41	0.40	0.43	0.41	4.24	ppb
Bismuth	209-1				102		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.51	0.51	0.56	0.53	4.82	ppb
Cadmium	106-1	-0.25	-0.45	-1.46	-0.72		ppb
Cadmium	111-1	0.36	0.42	0.39	0.39	7.62	ppb
Calcium	43-1	191.07	198.85	197.69	195.87	2.14	ppb
Calcium	44-1	191.39	193.27	197.31	193.99	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.43	0.49	0.40	0.44	9.87	ppb
Cobalt	59-2	0.46	0.43	0.39	0.43	7.48	ppb
Copper	63-2	0.87	0.88	0.94	0.90	4.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				94		%
Indium	115-1				101		%
Indium	115-2				92		%
Iron	54-2	33.21	32.24	33.20	32.88	1.70	ppb
Iron	56-2	32.87	34.23	34.93	34.01	3.08	ppb
Iron	57-2	33.48	29.57	33.39	32.15	6.93	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.45	0.44	0.43	6.96	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.43	0.42	0.42	2.51	ppb
Lead	208-1	0.41	0.44	0.43	0.43	3.27	ppb
Lithium	6-1				100		%
Magnesium	24-2	210.51	211.42	211.54	211.16	0.27	ppb
Manganese	55-2	0.75	0.66	0.80	0.74	9.72	ppb
Molybdenum	94-1	2.78	2.79	2.86	2.81	1.58	ppb
Molybdenum	95-1	2.18	2.18	2.14	2.17	1.02	ppb
Molybdenum	96-1	2.23	2.24	2.20	2.23	0.92	ppb
Molybdenum	97-1	2.18	2.19	2.18	2.19	0.15	ppb
Molybdenum	98-1	2.18	2.17	2.15	2.17	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.44	0.53	0.49	0.49	8.79	ppb
Phosphorus	31-2	-10.30	-11.69	-19.31	-13.77		ppb
Potassium	39-2	122.29	130.42	125.44	126.05	3.25	ppb
Rhodium	103-1				100		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				92		%
Selenium	82-1	5.05	4.93	4.79	4.92	2.68	ppb
Selenium	77-2	4.08	5.38	9.67	6.38	45.84	ppb
Selenium	78-2	4.58	5.74	4.66	4.99	13.03	ppb
Silicon	28-1	-0.29	-0.29	-0.25	-0.28		ppb
Silver	107-1	0.41	0.41	0.41	0.41	0.76	ppb
Silver	109-1	0.42	0.41	0.41	0.41	1.37	ppb
Sodium	23-2	205.28	208.95	206.03	206.75	0.94	ppb
Strontium	86-1	0.51	0.51	0.53	0.52	1.73	ppb
Strontium	88-1	0.51	0.51	0.53	0.51	2.64	ppb
Sulfur	34-1	-501.14	-483.51	-471.80	-485.49		ppb
Terbium	159-1				100		%
Terbium	159-2				93		%
Thallium	203-1	0.42	0.45	0.41	0.42	4.76	ppb
Thallium	205-1	0.42	0.43	0.42	0.42	1.07	ppb
Tin	118-1	0.54	0.58	0.54	0.55	3.41	ppb
Titanium	47-1	2.26	2.23	2.28	2.26	1.15	ppb
Uranium	238-1	0.52	0.54	0.53	0.53	2.50	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.47	0.45	0.32	0.42	19.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				90		%
Zinc	66-2	0.60	0.83	0.99	0.81	24.05	ppb
Zirconium	90-1	0.54	0.52	0.54	0.53	2.87	ppb
Zirconium	91-1	0.59	0.52	0.54	0.55	6.04	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50876.54	50585.39	49529.19	50330.37	1.41	ppb
Antimony	121-1	498.72	491.29	509.10	499.71	1.79	ppb
Arsenic	75-2	506.88	510.80	485.62	501.10	2.70	ppb
Barium	135-1	2521.90	2468.53	2579.00	2523.15	2.19	ppb
Barium	137-1	2530.00	2446.42	2571.74	2516.05	2.54	ppb
Beryllium	9-1	499.91	505.06	517.95	507.64	1.83	ppb
Bismuth	209-1				80		%
Bismuth	209-2				73		%
Bromine	81-1						cps
Cadmium	108-1	474.34	468.68	488.40	477.14	2.13	ppb
Cadmium	106-1	488.07	473.62	495.66	485.78	2.30	ppb
Cadmium	111-1	455.92	452.12	466.56	458.20	1.63	ppb
Calcium	43-1	244699.58	243881.41	245362.36	244647.78	0.30	ppb
Calcium	44-1	248597.06	244115.49	247534.15	246748.90	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.40	493.21	482.32	490.64	1.50	ppb
Cobalt	59-2	514.24	511.78	508.52	511.51	0.56	ppb
Copper	63-2	5042.55	4958.32	4875.81	4958.89	1.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				89		%
Holmium	165-2				82		%
Indium	115-1				83		%
Indium	115-2				76		%
Iron	54-2	128928.81	129032.78	125471.73	127811.11	1.59	ppb
Iron	56-2	128574.94	128061.38	125663.60	127433.31	1.22	ppb
Iron	57-2	131057.44	127540.41	125875.60	128157.82	2.06	ppb
Krypton	83-1						cps
Lead	206-1	2603.76	2561.79	2623.95	2596.50	1.22	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2581.07	2590.70	2648.71	2606.83	1.40	ppb
Lead	208-1	2578.15	2565.86	2633.84	2592.62	1.40	ppb
Lithium	6-1				84		%
Magnesium	24-2	257215.50	255838.73	248958.57	254004.27	1.74	ppb
Manganese	55-2	5204.07	5128.70	5080.64	5137.81	1.21	ppb
Molybdenum	94-1	5038.66	5073.20	5245.41	5119.09	2.16	ppb
Molybdenum	95-1	5011.86	4996.10	5223.97	5077.31	2.51	ppb
Molybdenum	96-1	5081.79	5079.98	5201.45	5121.07	1.36	ppb
Molybdenum	97-1	5083.81	5054.57	5228.34	5122.24	1.82	ppb
Molybdenum	98-1	5069.30	5094.40	5234.49	5132.73	1.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	501.40	499.86	490.20	497.15	1.22	ppb
Phosphorus	31-2	10572.05	9940.38	10225.35	10245.93	3.09	ppb
Potassium	39-2	126329.86	126768.83	122476.38	125191.69	1.89	ppb
Rhodium	103-1				79		%
Rhodium	103-2				73		%
Scandium	45-1				88		%
Scandium	45-2				81		%
Selenium	82-1	487.77	484.58	499.31	490.56	1.58	ppb
Selenium	77-2	497.69	530.58	462.04	496.77	6.90	ppb
Selenium	78-2	531.91	493.44	491.35	505.57	4.52	ppb
Silicon	28-1	631.93	628.75	631.82	630.83	0.29	ppb
Silver	107-1	480.63	466.72	490.82	479.39	2.52	ppb
Silver	109-1	481.51	469.52	488.59	479.87	2.01	ppb
Sodium	23-2	258467.35	257836.54	249206.21	255170.03	2.03	ppb
Strontium	86-1	510.87	512.67	531.05	518.20	2.15	ppb
Strontium	88-1	512.19	499.83	515.84	509.29	1.65	ppb
Sulfur	34-1	11995.70	11686.90	11952.43	11878.34	1.41	ppb
Terbium	159-1				89		%
Terbium	159-2				82		%
Thallium	203-1	523.75	514.18	524.70	520.88	1.12	ppb
Thallium	205-1	522.54	511.53	524.20	519.42	1.33	ppb
Tin	118-1	497.05	496.00	511.51	501.52	1.73	ppb
Titanium	47-1	5088.51	5058.43	5101.30	5082.75	0.43	ppb
Uranium	238-1	531.89	526.92	545.88	534.89	1.84	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	507.80	506.01	492.01	501.94	1.72	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				79		%
Zinc	66-2	4812.35	4787.62	4684.01	4761.33	1.43	ppb
Zirconium	90-1	510.84	508.15	522.73	513.90	1.51	ppb
Zirconium	91-1	516.55	515.22	528.18	519.98	1.37	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.93	0.98	2.60	1.84	44.23	ppb
Antimony	121-1	0.14	0.14	0.11	0.13	12.59	ppb
Arsenic	75-2	0.01	0.08	0.06	0.05	69.34	ppb
Barium	135-1	0.28	0.22	0.19	0.23	20.85	ppb
Barium	137-1	0.28	0.24	0.21	0.24	14.34	ppb
Beryllium	9-1	0.12	0.10	0.09	0.10	15.25	ppb
Bismuth	209-1				90		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.04	0.06	0.00		ppb
Cadmium	106-1	-0.19	-0.37	-0.96	-0.51		ppb
Cadmium	111-1	0.06	0.03	0.00	0.03	99.47	ppb
Calcium	43-1	12.74	10.36	7.87	10.32	23.58	ppb
Calcium	44-1	13.31	8.96	8.56	10.28	25.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	-0.01	0.01	0.02	187.21	ppb
Cobalt	59-2	0.01	0.04	0.01	0.02	110.11	ppb
Copper	63-2	0.27	0.21	0.22	0.23	12.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				84		%
Indium	115-1				90		%
Indium	115-2				83		%
Iron	54-2	5.86	4.69	3.23	4.59	28.71	ppb
Iron	56-2	5.14	4.91	4.20	4.75	10.29	ppb
Iron	57-2	7.25	2.47	2.84	4.19	63.48	ppb
Krypton	83-1						cps
Lead	206-1	0.21	0.14	0.14	0.16	26.72	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.13	0.16	0.16	18.90	ppb
Lead	208-1	0.21	0.15	0.15	0.17	20.08	ppb
Lithium	6-1				89		%
Magnesium	24-2	8.31	8.16	7.92	8.13	2.41	ppb
Manganese	55-2	0.23	0.27	0.24	0.25	8.31	ppb
Molybdenum	94-1	0.41	0.32	0.27	0.33	21.33	ppb
Molybdenum	95-1	0.36	0.27	0.24	0.29	22.87	ppb
Molybdenum	96-1	0.36	0.26	0.27	0.30	19.69	ppb
Molybdenum	97-1	0.34	0.26	0.24	0.28	18.92	ppb
Molybdenum	98-1	0.36	0.26	0.25	0.29	21.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.18	0.14	-0.02	0.10	105.03	ppb
Phosphorus	31-2	-22.97	-23.48	-27.73	-24.72		ppb
Potassium	39-2	21.51	18.76	16.32	18.86	13.78	ppb
Rhodium	103-1				90		%
Rhodium	103-2				84		%
Scandium	45-1				89		%
Scandium	45-2				82		%
Selenium	82-1	-0.23	-0.31	-0.41	-0.32		ppb
Selenium	77-2	0.00	1.53	0.00	0.51	173.21	ppb
Selenium	78-2	0.61	-0.79	0.59	0.14	574.32	ppb
Silicon	28-1	0.46	0.41	0.37	0.41	10.63	ppb
Silver	107-1	0.07	0.05	0.05	0.05	22.20	ppb
Silver	109-1	0.06	0.06	0.05	0.06	17.17	ppb
Sodium	23-2	27.85	24.78	22.82	25.15	10.08	ppb
Strontium	86-1	0.01	0.03	0.01	0.02	61.14	ppb
Strontium	88-1	0.02	0.02	0.01	0.02	34.18	ppb
Sulfur	34-1	66.80	42.33	78.02	62.38	29.26	ppb
Terbium	159-1				89		%
Terbium	159-2				83		%
Thallium	203-1	0.05	0.04	0.04	0.05	12.67	ppb
Thallium	205-1	0.04	0.04	0.03	0.03	22.84	ppb
Tin	118-1	0.04	0.04	0.04	0.04	9.63	ppb
Titanium	47-1	0.31	0.22	0.19	0.24	25.93	ppb
Uranium	238-1	0.03	0.02	0.01	0.02	33.05	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.02	0.02	0.02	14.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				80		%
Zinc	66-2	0.38	0.07	0.17	0.21	74.78	ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	13.57	ppb
Zirconium	91-1	0.05	0.02	0.03	0.03	42.66	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.71	6.09	7.68	7.83	23.22	ppb
Antimony	121-1	0.42	0.40	0.41	0.41	2.98	ppb
Arsenic	75-2	0.50	0.37	0.45	0.44	14.56	ppb
Barium	135-1	1.92	1.89	1.93	1.92	1.29	ppb
Barium	137-1	1.96	1.99	1.97	1.97	0.72	ppb
Beryllium	9-1	0.40	0.40	0.38	0.40	3.36	ppb
Bismuth	209-1				100		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.28	0.50	0.42	0.40	27.60	ppb
Cadmium	106-1	0.91	-0.39	-0.12	0.13	511.44	ppb
Cadmium	111-1	0.48	0.33	0.40	0.40	18.06	ppb
Calcium	43-1	193.79	187.92	190.50	190.74	1.54	ppb
Calcium	44-1	192.79	193.46	194.41	193.55	0.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.41	0.36	0.36	11.33	ppb
Cobalt	59-2	0.37	0.37	0.40	0.38	5.18	ppb
Copper	63-2	0.80	0.91	0.84	0.85	6.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				93		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	54-2	34.67	33.13	34.28	34.02	2.36	ppb
Iron	56-2	33.63	32.93	32.51	33.02	1.71	ppb
Iron	57-2	30.40	30.84	29.92	30.38	1.51	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.36	0.39	0.38	5.19	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.38	0.40	0.39	0.39	3.02	ppb
Lead	208-1	0.38	0.38	0.39	0.38	1.88	ppb
Lithium	6-1				100		%
Magnesium	24-2	209.32	212.33	210.60	210.75	0.72	ppb
Manganese	55-2	0.74	0.75	0.99	0.83	17.55	ppb
Molybdenum	94-1	1.01	0.93	1.02	0.99	4.81	ppb
Molybdenum	95-1	0.40	0.39	0.41	0.40	2.84	ppb
Molybdenum	96-1	0.47	0.44	0.44	0.45	3.26	ppb
Molybdenum	97-1	0.41	0.38	0.41	0.40	3.98	ppb
Molybdenum	98-1	0.40	0.39	0.40	0.40	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.47	0.54	0.43	0.48	10.93	ppb
Phosphorus	31-2	-7.22	-26.81	-9.34	-14.46		ppb
Potassium	39-2	132.66	128.94	133.88	131.83	1.95	ppb
Rhodium	103-1				99		%
Rhodium	103-2				93		%
Scandium	45-1				99		%
Scandium	45-2				90		%
Selenium	82-1	4.65	5.10	4.82	4.86	4.66	ppb
Selenium	77-2	5.57	2.76	1.38	3.24	66.12	ppb
Selenium	78-2	3.44	4.23	5.07	4.25	19.17	ppb
Silicon	28-1	-0.26	-0.28	-0.27	-0.27		ppb
Silver	107-1	0.40	0.39	0.41	0.40	3.09	ppb
Silver	109-1	0.42	0.39	0.38	0.40	4.94	ppb
Sodium	23-2	210.45	207.42	206.63	208.17	0.97	ppb
Strontium	86-1	0.32	0.32	0.36	0.34	6.39	ppb
Strontium	88-1	0.33	0.35	0.35	0.34	3.45	ppb
Sulfur	34-1	-371.57	-391.37	-389.17	-384.03		ppb
Terbium	159-1				99		%
Terbium	159-2				92		%
Thallium	203-1	0.35	0.37	0.36	0.36	3.62	ppb
Thallium	205-1	0.36	0.37	0.37	0.37	1.06	ppb
Tin	118-1	0.39	0.36	0.37	0.37	4.54	ppb
Titanium	47-1	0.38	0.40	0.43	0.40	5.57	ppb
Uranium	238-1	0.35	0.35	0.35	0.35	0.86	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.35	0.33	0.33	0.34	3.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				89		%
Zinc	66-2	0.67	0.81	0.69	0.72	10.47	ppb
Zirconium	90-1	0.34	0.38	0.37	0.36	5.83	ppb
Zirconium	91-1	0.36	0.35	0.37	0.36	2.86	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.29	0.12	-0.35	-0.17		ppb
Antimony	121-1	0.02	0.02	0.02	0.02	1.07	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.04	0.02	0.01	0.03	60.63	ppb
Barium	137-1	0.04	0.03	0.02	0.03	40.16	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	40.16	ppb
Bismuth	209-1				100		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.03	-0.11	-0.04		ppb
Cadmium	106-1	-1.27	-1.75	-1.62	-1.55		ppb
Cadmium	111-1	-0.03	-0.03	-0.03	-0.03		ppb
Calcium	43-1	-0.21	-1.06	-0.87	-0.72		ppb
Calcium	44-1	-0.87	-0.69	-1.01	-0.86		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.02	0.00	0.00	784.83	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.05	0.01	-0.02	-0.02		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				92		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	-0.52	-0.59	-0.21	-0.44		ppb
Iron	56-2	-0.53	-0.71	-0.52	-0.59		ppb
Iron	57-2	-2.68	-1.86	-1.55	-2.03		ppb
Krypton	83-1						cps
Lead	206-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	-0.01	0.01	0.00	560.74	ppb
Lead	208-1	0.00	0.00	0.00	0.00	74.90	ppb
Lithium	6-1				99		%
Magnesium	24-2	-1.79	-1.53	-0.83	-1.38		ppb
Manganese	55-2	0.00	0.01	0.00	0.00	69.79	ppb
Molybdenum	94-1	-0.01	0.01	0.01	0.00	281.16	ppb
Molybdenum	95-1	0.02	0.00	0.01	0.01	148.83	ppb
Molybdenum	96-1	0.00	0.01	0.01	0.01	108.54	ppb
Molybdenum	97-1	-0.01	0.00	0.01	0.00		ppb
Molybdenum	98-1	0.01	0.01	0.00	0.01	83.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.07	0.00	0.04	102.62	ppb
Phosphorus	31-2	-15.33	-18.75	-18.61	-17.57		ppb
Potassium	39-2	3.74	-0.03	1.13	1.61	119.65	ppb
Rhodium	103-1				98		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				89		%
Selenium	82-1	-0.16	-0.36	-0.24	-0.25		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.37	0.06	-0.36	-0.23		ppb
Silicon	28-1	-0.32	-0.28	-0.38	-0.32		ppb
Silver	107-1	0.01	0.00	0.00	0.00	111.51	ppb
Silver	109-1	0.01	0.00	0.00	0.01	27.21	ppb
Sodium	23-2	3.16	4.39	2.75	3.43	24.90	ppb
Strontium	86-1	0.00	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-421.44	-462.13	-507.12	-463.57		ppb
Terbium	159-1				98		%
Terbium	159-2				92		%
Thallium	203-1	0.01	0.01	0.00	0.00	75.09	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	397.38	ppb
Tin	118-1	-0.01	-0.01	0.00	-0.01		ppb
Titanium	47-1	0.01	0.00	0.00	0.00	177.03	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				89		%
Zinc	66-2	-0.12	-0.09	-0.10	-0.10		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	196.69	ppb
Zirconium	91-1	-0.01	0.01	0.01	0.00	314.33	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.61	36.18	41.19	38.33	6.74	ppb
Antimony	121-1	3.70	3.78	3.74	3.74	1.07	ppb
Arsenic	75-2	1.89	2.21	2.13	2.08	8.07	ppb
Barium	135-1	18.76	19.08	18.73	18.86	1.04	ppb
Barium	137-1	19.00	19.14	19.20	19.11	0.53	ppb
Beryllium	9-1	1.82	1.88	1.82	1.84	1.73	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	2.28	2.35	2.07	2.23	6.52	ppb
Cadmium	106-1	1.25	1.89	1.24	1.46	25.68	ppb
Cadmium	111-1	1.96	2.03	1.98	1.99	1.97	ppb
Calcium	43-1	934.29	969.62	949.01	950.97	1.87	ppb
Calcium	44-1	927.90	964.08	967.06	953.01	2.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.86	3.76	3.82	3.81	1.27	ppb
Cobalt	59-2	1.93	2.02	2.03	2.00	2.89	ppb
Copper	63-2	4.52	4.51	4.70	4.58	2.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				92		%
Indium	115-1				99		%
Indium	115-2				90		%
Iron	54-2	404.45	405.13	413.89	407.82	1.29	ppb
Iron	56-2	405.53	409.79	411.95	409.09	0.80	ppb
Iron	57-2	410.66	414.63	400.44	408.58	1.79	ppb
Krypton	83-1						cps
Lead	206-1	1.99	2.09	2.08	2.05	2.63	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.98	1.98	2.07	2.01	2.52	ppb
Lead	208-1	1.97	2.02	2.08	2.02	2.63	ppb
Lithium	6-1				100		%
Magnesium	24-2	957.19	950.85	959.97	956.01	0.49	ppb
Manganese	55-2	2.16	1.98	2.03	2.06	4.34	ppb
Molybdenum	94-1	10.86	10.98	11.21	11.01	1.60	ppb
Molybdenum	95-1	9.00	9.27	9.23	9.16	1.61	ppb
Molybdenum	96-1	9.31	9.24	9.49	9.35	1.39	ppb
Molybdenum	97-1	9.37	9.26	9.49	9.38	1.22	ppb
Molybdenum	98-1	9.27	9.09	9.41	9.26	1.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.06	2.09	2.35	2.17	7.34	ppb
Phosphorus	31-2	41.08	23.34	24.90	29.77	33.00	ppb
Potassium	39-2	948.15	937.07	957.72	947.65	1.09	ppb
Rhodium	103-1				97		%
Rhodium	103-2				92		%
Scandium	45-1				98		%
Scandium	45-2				89		%
Selenium	82-1	9.20	10.36	9.58	9.71	6.11	ppb
Selenium	77-2	0.00	16.70	8.42	8.37	99.71	ppb
Selenium	78-2	8.40	6.81	12.41	9.21	31.35	ppb
Silicon	28-1	3.73	3.94	3.95	3.87	3.21	ppb
Silver	107-1	1.81	1.88	1.86	1.85	2.02	ppb
Silver	109-1	1.81	1.91	1.93	1.88	3.35	ppb
Sodium	23-2	976.33	971.95	993.44	980.57	1.16	ppb
Strontium	86-1	1.73	1.83	1.81	1.79	2.96	ppb
Strontium	88-1	1.75	1.77	1.81	1.78	1.70	ppb
Sulfur	34-1	-436.50	-329.31	-302.92	-356.24		ppb
Terbium	159-1				98		%
Terbium	159-2				91		%
Thallium	203-1	1.75	1.81	1.77	1.78	1.58	ppb
Thallium	205-1	1.81	1.78	1.81	1.80	0.88	ppb
Tin	118-1	9.37	9.73	9.56	9.55	1.85	ppb
Titanium	47-1	11.59	11.99	11.98	11.85	1.94	ppb
Uranium	238-1	1.75	1.78	1.78	1.77	0.88	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.73	9.58	9.61	9.64	0.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				88		%
Zinc	66-2	11.32	11.74	11.61	11.55	1.84	ppb
Zirconium	90-1	1.84	1.87	1.93	1.88	2.45	ppb
Zirconium	91-1	1.80	1.79	1.92	1.84	3.96	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.62	7.45	8.71	7.93	8.61	ppb
Antimony	121-1	0.36	0.40	0.38	0.38	4.66	ppb
Arsenic	75-2	0.64	0.37	0.43	0.48	30.11	ppb
Barium	135-1	1.84	1.83	1.88	1.85	1.43	ppb
Barium	137-1	1.83	1.92	1.96	1.90	3.38	ppb
Beryllium	9-1	0.34	0.32	0.33	0.33	2.58	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.35	0.41	0.34	0.37	10.99	ppb
Cadmium	106-1	-0.12	-1.01	0.07	-0.35		ppb
Cadmium	111-1	0.36	0.34	0.35	0.35	4.04	ppb
Calcium	43-1	190.46	189.79	194.65	191.64	1.37	ppb
Calcium	44-1	193.66	195.83	196.13	195.21	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.41	0.40	0.36	0.39	6.45	ppb
Cobalt	59-2	0.35	0.38	0.39	0.37	5.66	ppb
Copper	63-2	0.80	0.88	0.95	0.88	8.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				91		%
Indium	115-1				95		%
Indium	115-2				88		%
Iron	54-2	31.83	31.08	31.85	31.59	1.38	ppb
Iron	56-2	36.76	31.87	31.87	33.50	8.43	ppb
Iron	57-2	30.23	32.22	31.08	31.18	3.21	ppb
Krypton	83-1						cps
Lead	206-1	0.31	0.33	0.33	0.32	3.14	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.35	0.32	0.35	0.34	4.41	ppb
Lead	208-1	0.33	0.34	0.35	0.34	2.12	ppb
Lithium	6-1				99		%
Magnesium	24-2	204.13	210.30	207.08	207.17	1.49	ppb
Manganese	55-2	0.57	0.67	0.76	0.67	14.46	ppb
Molybdenum	94-1	0.92	0.94	0.95	0.94	1.92	ppb
Molybdenum	95-1	0.33	0.39	0.37	0.36	7.89	ppb
Molybdenum	96-1	0.41	0.47	0.41	0.43	7.43	ppb
Molybdenum	97-1	0.37	0.38	0.38	0.38	1.68	ppb
Molybdenum	98-1	0.36	0.36	0.36	0.36	0.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.47	0.42	0.40	0.43	8.18	ppb
Phosphorus	31-2	-14.16	-14.41	-4.00	-10.86		ppb
Potassium	39-2	121.14	120.31	125.34	122.26	2.20	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				87		%
Selenium	82-1	4.48	4.06	4.30	4.28	5.01	ppb
Selenium	77-2	8.66	2.88	7.15	6.23	48.10	ppb
Selenium	78-2	6.22	4.02	5.29	5.18	21.32	ppb
Silicon	28-1	-0.39	-0.29	-0.36	-0.35		ppb
Silver	107-1	0.36	0.38	0.39	0.37	4.80	ppb
Silver	109-1	0.38	0.39	0.39	0.39	1.23	ppb
Sodium	23-2	196.34	197.83	197.85	197.34	0.44	ppb
Strontium	86-1	0.34	0.37	0.34	0.35	4.62	ppb
Strontium	88-1	0.35	0.34	0.35	0.34	1.04	ppb
Sulfur	34-1	-416.75	-269.26	-236.79	-307.60		ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	0.34	0.34	0.36	0.34	2.90	ppb
Thallium	205-1	0.36	0.35	0.35	0.35	2.25	ppb
Tin	118-1	0.36	0.38	0.38	0.37	3.83	ppb
Titanium	47-1	0.44	0.37	0.44	0.41	9.25	ppb
Uranium	238-1	0.34	0.34	0.36	0.35	2.35	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.41	0.38	0.38	0.39	4.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				85		%
Zinc	66-2	0.74	0.68	0.84	0.75	11.12	ppb
Zirconium	90-1	0.35	0.37	0.35	0.36	2.42	ppb
Zirconium	91-1	0.34	0.38	0.35	0.36	5.88	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.38	7.94	6.92	7.41	6.91	ppb
Antimony	121-1	0.38	0.38	0.38	0.38	0.82	ppb
Arsenic	75-2	0.44	0.47	0.35	0.42	14.83	ppb
Barium	135-1	1.91	1.87	1.83	1.87	2.14	ppb
Barium	137-1	1.91	1.82	1.94	1.89	3.21	ppb
Beryllium	9-1	0.35	0.34	0.35	0.35	1.21	ppb
Bismuth	209-1				96		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.30	0.54	0.31	0.38	36.03	ppb
Cadmium	106-1	0.03	-1.15	-1.34	-0.82		ppb
Cadmium	111-1	0.42	0.33	0.36	0.37	12.70	ppb
Calcium	43-1	188.15	195.31	189.08	190.85	2.04	ppb
Calcium	44-1	194.19	192.08	197.73	194.67	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.44	0.39	0.41	7.61	ppb
Cobalt	59-2	0.36	0.40	0.39	0.38	5.60	ppb
Copper	63-2	0.96	1.02	1.02	1.00	3.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				88		%
Indium	115-1				94		%
Indium	115-2				86		%
Iron	54-2	32.62	33.43	33.18	33.08	1.24	ppb
Iron	56-2	32.96	33.47	35.53	33.99	4.01	ppb
Iron	57-2	30.29	30.82	30.51	30.54	0.88	ppb
Krypton	83-1						cps
Lead	206-1	0.37	0.34	0.33	0.35	5.92	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.33	0.33	0.34	0.33	1.17	ppb
Lead	208-1	0.35	0.33	0.34	0.34	1.74	ppb
Lithium	6-1				99		%
Magnesium	24-2	218.57	220.91	213.51	217.66	1.74	ppb
Manganese	55-2	0.68	0.74	0.72	0.71	4.16	ppb
Molybdenum	94-1	0.94	0.98	0.95	0.96	1.90	ppb
Molybdenum	95-1	0.34	0.38	0.38	0.37	5.50	ppb
Molybdenum	96-1	0.42	0.40	0.41	0.41	2.28	ppb
Molybdenum	97-1	0.33	0.38	0.38	0.36	6.95	ppb
Molybdenum	98-1	0.36	0.36	0.36	0.36	0.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.42	0.43	0.47	0.44	6.27	ppb
Phosphorus	31-2	-23.73	-21.53	-3.53	-16.26		ppb
Potassium	39-2	129.78	126.13	119.83	125.25	4.02	ppb
Rhodium	103-1				94		%
Rhodium	103-2				87		%
Scandium	45-1				94		%
Scandium	45-2				84		%
Selenium	82-1	4.21	4.69	4.25	4.38	6.09	ppb
Selenium	77-2	1.48	5.99	5.82	4.43	57.75	ppb
Selenium	78-2	4.15	7.84	4.51	5.50	36.98	ppb
Silicon	28-1	-0.21	-0.27	-0.18	-0.22		ppb
Silver	107-1	0.37	0.37	0.39	0.38	3.32	ppb
Silver	109-1	0.38	0.38	0.41	0.39	3.78	ppb
Sodium	23-2	203.50	206.09	198.88	202.83	1.80	ppb
Strontium	86-1	0.37	0.36	0.38	0.37	3.22	ppb
Strontium	88-1	0.34	0.35	0.35	0.35	0.95	ppb
Sulfur	34-1	-332.90	-404.81	-291.76	-343.16		ppb
Terbium	159-1				95		%
Terbium	159-2				87		%
Thallium	203-1	0.34	0.33	0.35	0.34	1.90	ppb
Thallium	205-1	0.35	0.34	0.34	0.35	0.91	ppb
Tin	118-1	0.36	0.34	0.35	0.35	3.64	ppb
Titanium	47-1	0.38	0.41	0.45	0.41	8.13	ppb
Uranium	238-1	0.36	0.35	0.36	0.36	1.90	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.40	0.39	0.39	4.00	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				83		%
Zinc	66-2	0.90	0.78	0.77	0.82	8.53	ppb
Zirconium	90-1	0.38	0.34	0.36	0.36	4.50	ppb
Zirconium	91-1	0.37	0.36	0.37	0.37	1.32	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.33	0.33	-0.01	0.00		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	121.18	ppb
Arsenic	75-2	0.03	0.01	-0.01	0.01	197.23	ppb
Barium	135-1	-0.03	-0.02	-0.01	-0.02		ppb
Barium	137-1	-0.01	-0.01	-0.02	-0.02		ppb
Beryllium	9-1	-0.02	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				96		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	-0.11	-0.04	-0.02	-0.06		ppb
Cadmium	106-1	-0.86	-0.76	-1.29	-0.97		ppb
Cadmium	111-1	-0.02	-0.02	-0.03	-0.02		ppb
Calcium	43-1	-3.66	-2.32	-3.14	-3.04		ppb
Calcium	44-1	-2.25	-2.14	-2.22	-2.20		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	-0.01	-0.01		ppb
Cobalt	59-2	-0.02	-0.02	-0.01	-0.02		ppb
Copper	63-2	0.15	0.21	0.21	0.19	20.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				91		%
Indium	115-1				95		%
Indium	115-2				89		%
Iron	54-2	-1.16	2.77	0.26	0.62	319.25	ppb
Iron	56-2	-0.96	-1.21	-1.11	-1.09		ppb
Iron	57-2	-3.02	-3.30	-2.86	-3.06		ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.04	-0.04	-0.04		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.03	-0.04	-0.03		ppb
Lead	208-1	-0.03	-0.03	-0.04	-0.03		ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.45	-0.79	-0.84	-0.70		ppb
Manganese	55-2	-0.10	-0.08	-0.13	-0.11		ppb
Molybdenum	94-1	0.01	-0.01	-0.01	0.00		ppb
Molybdenum	95-1	-0.01	0.00	0.00	-0.01		ppb
Molybdenum	96-1	-0.01	-0.01	0.00	0.00		ppb
Molybdenum	97-1	-0.01	0.00	-0.01	-0.01		ppb
Molybdenum	98-1	-0.01	-0.01	-0.01	-0.01		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.10	0.01	0.05	102.38	ppb
Phosphorus	31-2	-30.17	-17.95	-16.13	-21.42		ppb
Potassium	39-2	-4.40	-3.50	-3.47	-3.79		ppb
Rhodium	103-1				95		%
Rhodium	103-2				89		%
Scandium	45-1				94		%
Scandium	45-2				86		%
Selenium	82-1	-0.43	-0.41	-0.54	-0.46		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	-0.79	-0.36	-0.64		ppb
Silicon	28-1	-0.31	-0.38	-0.41	-0.37		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	2850.62	ppb
Sodium	23-2	-7.17	-5.46	-5.77	-6.13		ppb
Strontium	86-1	-0.02	-0.01	0.00	-0.01		ppb
Strontium	88-1	0.00	-0.01	0.00	0.00		ppb
Sulfur	34-1	-418.96	-468.78	-459.81	-449.19		ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	-0.01	-0.01	-0.01	-0.01		ppb
Thallium	205-1	-0.01	-0.01	-0.01	-0.01		ppb
Tin	118-1	-0.01	-0.03	-0.02	-0.02		ppb
Titanium	47-1	0.00	0.01	0.01	0.01	53.45	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	-0.22	-0.18	-0.14	-0.18		ppb
Zirconium	90-1	0.00	0.00	-0.01	0.00		ppb
Zirconium	91-1	0.00	0.00	-0.01	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	42.24	40.01	37.92	40.06	5.40	ppb
Antimony	121-1	3.75	3.74	3.76	3.75	0.27	ppb
Arsenic	75-2	2.10	2.04	1.84	2.00	6.88	ppb
Barium	135-1	18.69	18.93	18.88	18.83	0.67	ppb
Barium	137-1	18.94	18.91	18.64	18.83	0.87	ppb
Beryllium	9-1	1.80	1.81	1.80	1.81	0.35	ppb
Bismuth	209-1				98		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	2.11	2.18	1.72	2.00	12.48	ppb
Cadmium	106-1	1.32	1.02	0.71	1.02	29.95	ppb
Cadmium	111-1	2.03	1.91	1.91	1.95	3.56	ppb
Calcium	43-1	927.01	946.54	948.75	940.76	1.27	ppb
Calcium	44-1	933.49	946.75	944.70	941.65	0.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.96	3.73	3.76	3.82	3.23	ppb
Cobalt	59-2	2.03	1.85	1.96	1.94	4.77	ppb
Copper	63-2	4.99	4.83	4.74	4.85	2.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				90		%
Indium	115-1				97		%
Indium	115-2				89		%
Iron	54-2	424.43	410.82	400.86	412.04	2.87	ppb
Iron	56-2	425.13	408.76	405.51	413.13	2.55	ppb
Iron	57-2	417.68	410.69	406.68	411.68	1.35	ppb
Krypton	83-1						cps
Lead	206-1	1.87	1.87	1.88	1.87	0.49	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.83	1.84	1.85	1.84	0.52	ppb
Lead	208-1	1.86	1.86	1.86	1.86	0.17	ppb
Lithium	6-1				99		%
Magnesium	24-2	984.49	1024.45	934.76	981.23	4.58	ppb
Manganese	55-2	1.78	2.19	2.01	1.99	10.31	ppb
Molybdenum	94-1	10.67	11.04	11.02	10.91	1.89	ppb
Molybdenum	95-1	9.07	9.19	9.07	9.11	0.74	ppb
Molybdenum	96-1	9.27	9.30	9.37	9.31	0.55	ppb
Molybdenum	97-1	8.95	9.27	9.41	9.21	2.59	ppb
Molybdenum	98-1	9.17	9.06	9.34	9.19	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.34	2.18	2.24	2.26	3.57	ppb
Phosphorus	31-2	28.08	21.21	39.11	29.47	30.64	ppb
Potassium	39-2	973.82	932.98	922.09	942.96	2.89	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				86		%
Selenium	82-1	9.03	9.74	9.70	9.49	4.21	ppb
Selenium	77-2	11.77	12.61	4.21	9.53	48.57	ppb
Selenium	78-2	9.48	12.38	13.67	11.84	18.14	ppb
Silicon	28-1	3.84	3.91	3.98	3.91	1.75	ppb
Silver	107-1	1.87	1.97	1.97	1.94	3.05	ppb
Silver	109-1	1.88	1.93	1.90	1.90	1.36	ppb
Sodium	23-2	1005.08	960.94	947.43	971.15	3.10	ppb
Strontium	86-1	1.72	1.68	1.79	1.73	3.09	ppb
Strontium	88-1	1.76	1.81	1.81	1.79	1.60	ppb
Sulfur	34-1	-405.49	-447.04	-367.02	-406.52		ppb
Terbium	159-1				96		%
Terbium	159-2				90		%
Thallium	203-1	1.76	1.78	1.76	1.77	0.70	ppb
Thallium	205-1	1.74	1.81	1.81	1.79	2.21	ppb
Tin	118-1	9.38	9.59	9.47	9.48	1.08	ppb
Titanium	47-1	10.94	11.32	11.30	11.18	1.91	ppb
Uranium	238-1	1.72	1.75	1.78	1.75	1.59	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.12	9.71	9.46	9.76	3.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	11.03	9.76	10.22	10.34	6.19	ppb
Zirconium	90-1	1.83	1.88	1.82	1.84	1.62	ppb
Zirconium	91-1	1.79	1.85	1.78	1.81	2.04	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.37	-0.27	-0.17	-0.02		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	354.94	ppb
Arsenic	75-2	0.01	-0.01	-0.01	0.00		ppb
Barium	135-1	-0.02	-0.02	-0.01	-0.02		ppb
Barium	137-1	-0.01	-0.02	-0.02	-0.02		ppb
Beryllium	9-1	-0.02	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	-0.13	-0.06	-0.09	-0.09		ppb
Cadmium	106-1	-0.50	-1.04	-0.60	-0.71		ppb
Cadmium	111-1	-0.01	-0.03	-0.01	-0.01		ppb
Calcium	43-1	-2.36	-1.86	-2.76	-2.33		ppb
Calcium	44-1	-1.78	-1.54	-1.65	-1.65		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.09	0.02	0.01	0.04	112.50	ppb
Cobalt	59-2	-0.02	-0.02	-0.01	-0.02		ppb
Copper	63-2	0.27	0.26	0.27	0.27	2.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				91		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	-1.08	-0.61	-0.25	-0.65		ppb
Iron	56-2	-0.74	-0.80	-0.55	-0.69		ppb
Iron	57-2	-2.39	-1.89	-2.28	-2.18		ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.03	-0.02	-0.03		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.01	-0.03	-0.01	-0.02		ppb
Lead	208-1	-0.02	-0.03	-0.02	-0.03		ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.80	-0.64	-0.81	-0.75		ppb
Manganese	55-2	-0.07	-0.04	-0.05	-0.06		ppb
Molybdenum	94-1	0.01	0.00	0.02	0.01	120.47	ppb
Molybdenum	95-1	-0.01	0.00	-0.01	-0.01		ppb
Molybdenum	96-1	0.00	0.00	-0.01	-0.01		ppb
Molybdenum	97-1	0.00	0.00	-0.01	0.00		ppb
Molybdenum	98-1	-0.01	-0.01	-0.01	-0.01		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.16	0.10	0.10	60.56	ppb
Phosphorus	31-2	-18.62	-28.42	-24.15	-23.73		ppb
Potassium	39-2	-2.99	-3.63	-3.87	-3.50		ppb
Rhodium	103-1				95		%
Rhodium	103-2				91		%
Scandium	45-1				95		%
Scandium	45-2				87		%
Selenium	82-1	-0.30	-0.24	-0.41	-0.32		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	-0.37	-0.35	-0.50		ppb
Silicon	28-1	-0.51	-0.46	-0.29	-0.42		ppb
Silver	107-1	0.01	0.01	0.01	0.01	16.61	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.76	ppb
Sodium	23-2	-7.84	-8.01	-7.27	-7.71		ppb
Strontium	86-1	-0.01	-0.01	-0.01	-0.01		ppb
Strontium	88-1	-0.01	0.00	0.00	0.00		ppb
Sulfur	34-1	-485.81	-449.57	-307.96	-414.45		ppb
Terbium	159-1				96		%
Terbium	159-2				92		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.01	-0.02	-0.02	-0.01		ppb
Titanium	47-1	-0.01	0.01	0.01	0.00	272.20	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				87		%
Zinc	66-2	-0.06	-0.04	-0.10	-0.07		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9159.10	9229.43	9198.96	9195.83	0.38	ppb
Antimony	121-1	495.26	510.29	506.85	504.13	1.56	ppb
Arsenic	75-2	490.68	493.18	495.17	493.01	0.46	ppb
Barium	135-1	2484.06	2476.43	2477.01	2479.16	0.17	ppb
Barium	137-1	2475.66	2521.28	2484.55	2493.83	0.97	ppb
Beryllium	9-1	484.34	481.71	472.08	479.38	1.35	ppb
Bismuth	209-1				92		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	493.65	501.53	500.96	498.71	0.88	ppb
Cadmium	106-1	492.94	507.28	506.51	502.24	1.61	ppb
Cadmium	111-1	474.95	480.87	482.00	479.27	0.79	ppb
Calcium	43-1	49189.01	48792.84	48467.45	48816.43	0.74	ppb
Calcium	44-1	47878.70	48397.79	47898.36	48058.28	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	479.81	483.70	478.22	480.58	0.59	ppb
Cobalt	59-2	510.40	526.04	500.18	512.21	2.54	ppb
Copper	63-2	5143.92	5146.42	5117.68	5136.01	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				88		%
Iron	54-2	25986.13	26260.85	25767.73	26004.90	0.95	ppb
Iron	56-2	25119.91	25670.21	25276.65	25355.59	1.12	ppb
Iron	57-2	24111.59	24322.27	23983.65	24139.17	0.71	ppb
Krypton	83-1						cps
Lead	206-1	2466.43	2468.78	2420.60	2451.93	1.11	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2480.51	2477.23	2442.79	2466.84	0.85	ppb
Lead	208-1	2468.96	2477.55	2419.15	2455.22	1.28	ppb
Lithium	6-1				94		%
Magnesium	24-2	50021.01	50424.47	50090.17	50178.55	0.43	ppb
Manganese	55-2	5041.31	5096.83	5021.21	5053.12	0.78	ppb
Molybdenum	94-1	4845.32	4938.03	4843.51	4875.62	1.11	ppb
Molybdenum	95-1	4815.08	4898.93	4848.48	4854.16	0.87	ppb
Molybdenum	96-1	4849.40	4954.08	4893.33	4898.93	1.07	ppb
Molybdenum	97-1	4849.06	4988.60	4908.90	4915.52	1.42	ppb
Molybdenum	98-1	4842.58	4919.20	4925.71	4895.83	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	510.19	515.67	511.65	512.50	0.55	ppb
Phosphorus	31-2	10098.65	10255.22	9688.36	10014.08	2.92	ppb
Potassium	39-2	24477.76	24357.38	23750.66	24195.26	1.61	ppb
Rhodium	103-1				90		%
Rhodium	103-2				88		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	489.71	504.91	495.04	496.56	1.55	ppb
Selenium	77-2	457.33	476.56	508.62	480.84	5.39	ppb
Selenium	78-2	517.97	500.58	480.61	499.72	3.74	ppb
Silicon	28-1	528.42	531.41	522.09	527.31	0.90	ppb
Silver	107-1	503.02	509.72	508.39	507.05	0.70	ppb
Silver	109-1	499.50	509.31	509.24	506.01	1.12	ppb
Sodium	23-2	49376.60	49770.91	48818.90	49322.14	0.97	ppb
Strontium	86-1	484.90	508.26	491.29	494.82	2.44	ppb
Strontium	88-1	489.31	497.77	491.74	492.94	0.88	ppb
Sulfur	34-1	11194.77	11471.48	11254.26	11306.84	1.29	ppb
Terbium	159-1				95		%
Terbium	159-2				92		%
Thallium	203-1	494.06	496.33	481.60	490.66	1.62	ppb
Thallium	205-1	488.11	487.79	483.73	486.54	0.50	ppb
Tin	118-1	497.73	505.98	499.55	501.09	0.87	ppb
Titanium	47-1	4861.76	4875.95	4918.54	4885.42	0.60	ppb
Uranium	238-1	487.94	496.26	474.81	486.34	2.22	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	479.67	480.73	478.84	479.74	0.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				89		%
Zinc	66-2	4959.21	4993.11	4885.48	4945.93	1.11	ppb
Zirconium	90-1	488.49	493.50	485.04	489.01	0.87	ppb
Zirconium	91-1	484.27	498.14	494.74	492.38	1.47	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.24	0.48	0.98	0.56	67.16	ppb
Antimony	121-1	0.01	0.02	0.02	0.01	35.49	ppb
Arsenic	75-2	0.05	0.03	-0.01	0.02	130.19	ppb
Barium	135-1	0.05	0.04	0.04	0.04	13.44	ppb
Barium	137-1	0.02	0.04	0.04	0.03	37.40	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	7.98	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	0.00	-0.04	-0.02		ppb
Cadmium	106-1	-0.21	-0.52	-0.42	-0.39		ppb
Cadmium	111-1	0.00	-0.01	-0.01	-0.01		ppb
Calcium	43-1	-2.07	0.98	-1.85	-0.98		ppb
Calcium	44-1	-1.82	-1.93	-1.96	-1.90		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	0.01	0.03	0.00		ppb
Cobalt	59-2	-0.01	-0.02	-0.01	-0.01		ppb
Copper	63-2	0.13	0.19	0.15	0.16	19.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				92		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	-1.29	-0.08	-0.58	-0.65		ppb
Iron	56-2	-1.21	-1.23	-1.23	-1.23		ppb
Iron	57-2	-3.25	-2.60	-2.39	-2.74		ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.01	0.00	-0.01		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	-0.01	-0.01	-0.01		ppb
Lead	208-1	-0.01	-0.01	-0.01	-0.01		ppb
Lithium	6-1				98		%
Magnesium	24-2	-1.31	-0.58	-0.94	-0.94		ppb
Manganese	55-2	0.04	-0.03	0.06	0.02	209.84	ppb
Molybdenum	94-1	0.02	0.03	-0.01	0.01	144.38	ppb
Molybdenum	95-1	0.03	0.02	0.01	0.02	46.26	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	24.77	ppb
Molybdenum	97-1	0.00	0.02	0.01	0.01	115.18	ppb
Molybdenum	98-1	0.02	0.01	0.00	0.01	65.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.07	-0.05	0.01	605.16	ppb
Phosphorus	31-2	-22.21	-30.31	-26.22	-26.25		ppb
Potassium	39-2	-2.63	-0.98	-3.77	-2.46		ppb
Rhodium	103-1				97		%
Rhodium	103-2				91		%
Scandium	45-1				97		%
Scandium	45-2				87		%
Selenium	82-1	-0.04	-0.14	-0.26	-0.15		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	-0.79	-0.79	-0.79		ppb
Silicon	28-1	-0.37	-0.30	-0.31	-0.33		ppb
Silver	107-1	0.01	0.00	0.00	0.00	50.75	ppb
Silver	109-1	0.01	0.00	0.00	0.00	82.46	ppb
Sodium	23-2	-1.33	-2.41	-2.98	-2.24		ppb
Strontium	86-1	-0.01	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-396.59	-340.94	-366.03	-367.85		ppb
Terbium	159-1				97		%
Terbium	159-2				91		%
Thallium	203-1	0.00	0.00	0.00	0.00	1682.87	ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.02	0.01	0.00	0.00		ppb
Titanium	47-1	0.01	-0.01	0.01	0.00	506.08	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	880.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				86		%
Zinc	66-2	-0.15	-0.19	0.00	-0.11		ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	72.34	ppb
Zirconium	91-1	0.00	-0.01	0.01	0.00	4677.80	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51383.45	51182.89	50150.59	50905.65	1.30	ppb
Antimony	121-1	509.83	506.82	511.64	509.43	0.48	ppb
Arsenic	75-2	499.05	504.37	489.07	497.50	1.56	ppb
Barium	135-1	2563.50	2547.38	2523.23	2544.71	0.80	ppb
Barium	137-1	2573.33	2537.06	2542.91	2551.10	0.76	ppb
Beryllium	9-1	505.18	486.39	497.44	496.34	1.90	ppb
Bismuth	209-1				80		%
Bismuth	209-2				76		%
Bromine	81-1						cps
Cadmium	108-1	488.99	486.75	487.09	487.61	0.25	ppb
Cadmium	106-1	488.79	492.92	496.43	492.72	0.78	ppb
Cadmium	111-1	462.26	460.15	464.56	462.32	0.48	ppb
Calcium	43-1	252804.58	251354.86	248343.92	250834.45	0.91	ppb
Calcium	44-1	253618.73	254693.40	247935.26	252082.46	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490.54	492.31	491.47	491.44	0.18	ppb
Cobalt	59-2	505.97	512.91	507.79	508.89	0.71	ppb
Copper	63-2	4975.81	5026.66	4869.93	4957.47	1.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				85		%
Indium	115-1				82		%
Indium	115-2				78		%
Iron	54-2	128745.69	129717.04	128307.93	128923.55	0.56	ppb
Iron	56-2	128892.17	128753.90	127716.69	128454.25	0.50	ppb
Iron	57-2	129850.60	130525.37	129383.54	129919.83	0.44	ppb
Krypton	83-1						cps
Lead	206-1	2660.56	2672.83	2633.46	2655.62	0.76	ppb

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2646.53	2640.12	2655.97	2647.54	0.30	ppb
Lead	208-1	2653.15	2641.13	2640.34	2644.87	0.27	ppb
Lithium	6-1				87		%
Magnesium	24-2	255587.33	256873.36	249754.47	254071.72	1.49	ppb
Manganese	55-2	5207.33	5176.40	5195.63	5193.12	0.30	ppb
Molybdenum	94-1	5252.93	5301.14	5123.90	5225.99	1.75	ppb
Molybdenum	95-1	5232.37	5261.18	5098.21	5197.25	1.67	ppb
Molybdenum	96-1	5244.47	5202.14	5066.44	5171.02	1.80	ppb
Molybdenum	97-1	5264.57	5284.19	5153.98	5234.25	1.34	ppb
Molybdenum	98-1	5199.41	5284.43	5156.15	5213.33	1.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.66	506.64	491.84	499.05	1.48	ppb
Phosphorus	31-2	10448.19	10301.73	10007.77	10252.56	2.19	ppb
Potassium	39-2	125631.60	125921.59	124843.61	125465.60	0.44	ppb
Rhodium	103-1				78		%
Rhodium	103-2				73		%
Scandium	45-1				86		%
Scandium	45-2				81		%
Selenium	82-1	493.18	500.60	491.34	495.04	0.99	ppb
Selenium	77-2	533.52	501.51	466.43	500.49	6.70	ppb
Selenium	78-2	492.65	507.71	491.20	497.19	1.84	ppb
Silicon	28-1	631.78	624.40	615.48	623.89	1.31	ppb
Silver	107-1	489.48	484.32	489.63	487.81	0.62	ppb
Silver	109-1	491.94	484.46	485.70	487.37	0.82	ppb
Sodium	23-2	254767.23	257338.91	250778.70	254294.95	1.30	ppb
Strontium	86-1	514.88	528.20	521.51	521.53	1.28	ppb
Strontium	88-1	522.85	525.62	512.65	520.37	1.31	ppb
Sulfur	34-1	11945.50	11798.87	11553.59	11765.99	1.68	ppb
Terbium	159-1				88		%
Terbium	159-2				84		%
Thallium	203-1	534.08	530.47	530.18	531.58	0.41	ppb
Thallium	205-1	531.42	525.32	528.44	528.39	0.58	ppb
Tin	118-1	507.81	506.96	503.48	506.08	0.45	ppb
Titanium	47-1	5205.27	5195.31	5136.04	5178.88	0.72	ppb
Uranium	238-1	553.01	546.94	548.47	549.47	0.57	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	501.81	503.45	499.57	501.61	0.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				80		%
Zinc	66-2	4762.06	4781.88	4719.98	4754.64	0.66	ppb
Zirconium	90-1	528.86	524.39	524.95	526.06	0.46	ppb
Zirconium	91-1	538.73	528.36	523.78	530.29	1.44	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.26	-0.10	-0.49	-0.28		ppb
Antimony	121-1	0.05	0.04	0.04	0.04	12.16	ppb
Arsenic	75-2	-0.01	-0.01	0.01	0.00		ppb
Barium	135-1	0.14	0.12	0.12	0.13	8.93	ppb
Barium	137-1	0.16	0.15	0.12	0.14	15.70	ppb
Beryllium	9-1	0.08	0.07	0.08	0.08	7.36	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.06	-0.07	0.01	0.00		ppb
Cadmium	106-1	-0.43	-0.20	-0.76	-0.46		ppb
Cadmium	111-1	0.00	0.01	-0.01	0.00	713.66	ppb
Calcium	43-1	-2.44	-0.80	-2.78	-2.01		ppb
Calcium	44-1	-1.54	-2.37	-2.42	-2.11		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	-0.02	0.04	0.01	256.16	ppb
Cobalt	59-2	-0.01	0.01	-0.01	0.00		ppb
Copper	63-2	0.12	0.14	0.16	0.14	15.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				91		%
Indium	115-1				94		%
Indium	115-2				89		%
Iron	54-2	0.95	0.52	0.31	0.59	54.63	ppb
Iron	56-2	0.56	0.31	1.69	0.86	86.10	ppb
Iron	57-2	-1.74	-1.20	-0.87	-1.27		ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.04	0.04	0.05	17.12	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.05	0.05	0.05	4.21	ppb
Lead	208-1	0.06	0.04	0.04	0.05	18.19	ppb
Lithium	6-1				95		%
Magnesium	24-2	-1.12	-1.26	-1.96	-1.45		ppb
Manganese	55-2	0.15	0.12	0.07	0.12	36.50	ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	5.10	ppb
Molybdenum	95-1	0.07	0.03	0.04	0.04	42.97	ppb
Molybdenum	96-1	0.05	0.04	0.03	0.04	24.86	ppb
Molybdenum	97-1	0.05	0.03	0.03	0.04	28.56	ppb
Molybdenum	98-1	0.04	0.03	0.03	0.03	18.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	0.05	0.02	0.01	510.10	ppb
Phosphorus	31-2	-26.27	-32.34	-34.19	-30.93		ppb
Potassium	39-2	3.68	5.87	8.95	6.17	42.99	ppb
Rhodium	103-1				94		%
Rhodium	103-2				90		%
Scandium	45-1				92		%
Scandium	45-2				86		%
Selenium	82-1	-0.14	-0.64	-0.20	-0.33		ppb
Selenium	77-2	0.00	1.41	0.00	0.47	173.21	ppb
Selenium	78-2	-0.79	-0.36	-0.79	-0.64		ppb
Silicon	28-1	-0.24	-0.48	-0.49	-0.40		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.80	ppb
Silver	109-1	0.01	0.01	0.01	0.01	24.63	ppb
Sodium	23-2	4.28	4.24	5.74	4.75	18.08	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	-0.01	-0.01	-0.01		ppb
Sulfur	34-1	-349.77	-567.79	-630.48	-516.02		ppb
Terbium	159-1				93		%
Terbium	159-2				90		%
Thallium	203-1	0.01	0.01	0.01	0.01	25.79	ppb
Thallium	205-1	0.01	0.01	0.00	0.01	40.88	ppb
Tin	118-1	0.02	0.02	0.02	0.02	15.62	ppb
Titanium	47-1	0.03	0.03	0.01	0.03	40.53	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	122.53	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	78.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				86		%
Zinc	66-2	-0.11	0.24	-0.04	0.03	632.98	ppb
Zirconium	90-1	0.01	0.01	0.00	0.01	37.13	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	2510.50	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10426.74	9350.68	7908.33	9228.58	13.69	ppb
Antimony	121-1	497.77	502.56	503.32	501.22	0.60	ppb
Arsenic	75-2	556.60	500.42	428.56	495.20	12.96	ppb
Barium	135-1	2456.69	2442.99	2440.41	2446.70	0.36	ppb
Barium	137-1	2486.45	2457.06	2516.87	2486.79	1.20	ppb
Beryllium	9-1	462.00	465.34	461.07	462.80	0.48	ppb
Bismuth	209-1				86		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	492.47	497.45	495.72	495.21	0.51	ppb
Cadmium	106-1	491.25	488.34	501.12	493.57	1.36	ppb
Cadmium	111-1	474.39	476.46	483.25	478.03	0.97	ppb
Calcium	43-1	48517.78	47887.60	48118.31	48174.57	0.66	ppb
Calcium	44-1	47389.11	47187.06	48274.41	47616.86	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	544.44	491.81	416.15	484.14	13.32	ppb
Cobalt	59-2	577.51	523.14	446.55	515.73	12.76	ppb
Copper	63-2	5909.15	5275.79	4508.43	5231.13	13.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				87		%
Indium	115-1				86		%
Indium	115-2				82		%
Iron	54-2	29665.75	26690.05	22812.10	26389.30	13.02	ppb
Iron	56-2	29108.01	25877.31	21800.46	25595.26	14.31	ppb
Iron	57-2	27316.96	24724.68	21091.88	24377.84	12.83	ppb
Krypton	83-1						cps
Lead	206-1	2432.61	2456.75	2423.34	2437.56	0.71	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2415.90	2431.71	2407.18	2418.26	0.51	ppb
Lead	208-1	2425.37	2451.46	2411.89	2429.57	0.83	ppb
Lithium	6-1				90		%
Magnesium	24-2	56308.87	50640.22	43160.96	50036.69	13.18	ppb
Manganese	55-2	5807.14	5165.00	4341.05	5104.40	14.40	ppb
Molybdenum	94-1	4788.10	4860.24	4945.14	4864.49	1.62	ppb
Molybdenum	95-1	4798.16	4928.38	4965.47	4897.34	1.79	ppb
Molybdenum	96-1	4847.56	4829.65	4915.69	4864.30	0.93	ppb
Molybdenum	97-1	4795.12	4844.74	4905.48	4848.45	1.14	ppb
Molybdenum	98-1	4797.25	4832.49	4891.28	4840.34	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	581.35	527.11	451.15	519.87	12.58	ppb
Phosphorus	31-2	11156.98	9937.87	8474.74	9856.53	13.63	ppb
Potassium	39-2	27800.83	24728.69	20988.28	24505.93	13.92	ppb
Rhodium	103-1				84		%
Rhodium	103-2				82		%
Scandium	45-1				88		%
Scandium	45-2				83		%
Selenium	82-1	491.70	495.53	500.95	496.06	0.94	ppb
Selenium	77-2	529.37	456.61	442.91	476.30	9.76	ppb
Selenium	78-2	557.41	520.00	444.95	507.45	11.29	ppb
Silicon	28-1	514.38	516.02	518.75	516.38	0.43	ppb
Silver	107-1	510.33	508.37	508.96	509.22	0.20	ppb
Silver	109-1	504.67	508.04	508.57	507.09	0.42	ppb
Sodium	23-2	55595.08	49727.65	43241.14	49521.29	12.48	ppb
Strontium	86-1	482.76	502.18	503.02	495.99	2.31	ppb
Strontium	88-1	483.53	488.20	493.71	488.48	1.04	ppb
Sulfur	34-1	10871.16	10849.22	11192.89	10971.09	1.75	ppb
Terbium	159-1				89		%
Terbium	159-2				87		%
Thallium	203-1	488.45	483.94	476.46	482.95	1.25	ppb
Thallium	205-1	482.82	487.68	479.47	483.32	0.85	ppb
Tin	118-1	498.91	493.53	496.08	496.17	0.54	ppb
Titanium	47-1	4786.17	4754.62	4880.93	4807.24	1.37	ppb
Uranium	238-1	485.35	491.28	477.68	484.77	1.41	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	544.20	494.47	419.32	486.00	12.94	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				83		%
Zinc	66-2	5632.23	5071.36	4343.01	5015.53	12.89	ppb
Zirconium	90-1	485.05	485.85	493.34	488.08	0.94	ppb
Zirconium	91-1	486.09	493.34	496.76	492.06	1.11	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.10	0.16	-0.10	0.06	244.30	ppb
Antimony	121-1	0.04	0.03	0.04	0.04	20.79	ppb
Arsenic	75-2	0.03	-0.01	0.01	0.01	198.83	ppb
Barium	135-1	0.12	0.11	0.12	0.12	4.49	ppb
Barium	137-1	0.14	0.13	0.12	0.13	7.10	ppb
Beryllium	9-1	0.07	0.06	0.06	0.06	3.48	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.04	-0.01	0.04	0.02	123.32	ppb
Cadmium	106-1	-0.82	-2.26	-1.20	-1.43		ppb
Cadmium	111-1	0.01	-0.04	-0.02	-0.02		ppb
Calcium	43-1	-0.82	-2.65	-1.72	-1.73		ppb
Calcium	44-1	-1.14	-0.74	-0.93	-0.94		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.02	0.00	322.64	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	954.26	ppb
Copper	63-2	0.11	0.15	0.20	0.15	28.85	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				92		%
Indium	115-1				96		%
Indium	115-2				89		%
Iron	54-2	0.00	-0.12	-0.09	-0.07		ppb
Iron	56-2	0.12	1.25	0.01	0.46	148.28	ppb
Iron	57-2	-2.77	-2.66	-2.32	-2.58		ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.04	0.05	18.79	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.05	0.05	0.06	16.38	ppb
Lead	208-1	0.06	0.05	0.05	0.05	9.64	ppb
Lithium	6-1				97		%
Magnesium	24-2	-2.01	-1.46	-1.80	-1.76		ppb
Manganese	55-2	0.15	0.20	0.23	0.19	21.60	ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	4.76	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	6.66	ppb
Molybdenum	96-1	0.08	0.04	0.03	0.05	45.42	ppb
Molybdenum	97-1	0.05	0.05	0.04	0.05	13.76	ppb
Molybdenum	98-1	0.06	0.04	0.05	0.05	20.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.09	0.05	0.07	0.07	32.30	ppb
Phosphorus	31-2	-15.56	-28.19	-20.31	-21.35		ppb
Potassium	39-2	6.44	5.64	2.47	4.85	43.30	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				86		%
Selenium	82-1	-0.59	-0.20	-0.47	-0.42		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	0.08	-0.79	-0.50		ppb
Silicon	28-1	-0.36	-0.38	-0.25	-0.33		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.98	ppb
Silver	109-1	0.01	0.01	0.01	0.01	10.99	ppb
Sodium	23-2	5.88	3.73	3.50	4.37	30.05	ppb
Strontium	86-1	0.01	0.00	0.00	0.01	94.70	ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-530.12	-525.96	-401.66	-485.91		ppb
Terbium	159-1				96		%
Terbium	159-2				91		%
Thallium	203-1	0.01	0.01	0.01	0.01	15.93	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	18.87	ppb
Tin	118-1	0.00	0.01	0.01	0.00	146.92	ppb
Titanium	47-1	0.04	0.03	0.05	0.04	21.32	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	55.74	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	212.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	-0.13	-0.01	0.14	0.00		ppb
Zirconium	90-1	0.01	0.01	0.00	0.00	23.38	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	78.74	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9212.10	9084.19	9370.02	9222.10	1.55	ppb
Antimony	121-1	492.81	486.84	496.90	492.18	1.03	ppb
Arsenic	75-2	488.92	490.22	488.19	489.11	0.21	ppb
Barium	135-1	2421.90	2389.92	2439.41	2417.08	1.04	ppb
Barium	137-1	2408.73	2353.70	2431.67	2398.03	1.67	ppb
Beryllium	9-1	463.72	461.16	473.96	466.28	1.45	ppb
Bismuth	209-1				92		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	486.38	477.33	498.01	487.24	2.13	ppb
Cadmium	106-1	487.12	486.14	504.85	492.70	2.14	ppb
Cadmium	111-1	465.45	460.88	474.41	466.91	1.47	ppb
Calcium	43-1	47496.31	47840.22	48768.43	48034.98	1.37	ppb
Calcium	44-1	47149.56	47645.81	48044.87	47613.41	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	482.79	475.03	488.00	481.94	1.35	ppb
Cobalt	59-2	510.43	507.52	520.11	512.69	1.29	ppb
Copper	63-2	5183.58	5188.99	5248.57	5207.05	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				90		%
Indium	115-1				92		%
Indium	115-2				86		%
Iron	54-2	26426.45	25978.69	26394.26	26266.47	0.95	ppb
Iron	56-2	25608.36	25113.45	25814.37	25512.06	1.41	ppb
Iron	57-2	24292.49	23950.43	24613.45	24285.46	1.37	ppb
Krypton	83-1						cps
Lead	206-1	2330.35	2428.63	2480.48	2413.16	3.16	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2356.71	2416.32	2446.13	2406.38	1.89	ppb
Lead	208-1	2357.22	2407.98	2444.69	2403.30	1.83	ppb
Lithium	6-1				95		%
Magnesium	24-2	50028.48	48782.13	50751.26	49853.96	2.00	ppb
Manganese	55-2	5098.29	5037.05	5131.81	5089.05	0.94	ppb
Molybdenum	94-1	4698.01	4702.23	4864.84	4755.03	2.00	ppb
Molybdenum	95-1	4632.92	4681.44	4880.57	4731.64	2.77	ppb
Molybdenum	96-1	4630.28	4654.67	4874.37	4719.77	2.85	ppb
Molybdenum	97-1	4714.68	4743.44	4857.26	4771.79	1.58	ppb
Molybdenum	98-1	4707.93	4718.85	4918.82	4781.87	2.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	510.59	507.97	522.69	513.75	1.53	ppb
Phosphorus	31-2	10083.52	9702.62	10248.96	10011.70	2.80	ppb
Potassium	39-2	24026.83	23654.76	25177.60	24286.40	3.27	ppb
Rhodium	103-1				90		%
Rhodium	103-2				87		%
Scandium	45-1				94		%
Scandium	45-2				87		%
Selenium	82-1	474.40	477.96	493.59	481.98	2.12	ppb
Selenium	77-2	520.00	515.64	476.14	503.93	4.79	ppb
Selenium	78-2	527.44	488.91	528.24	514.86	4.37	ppb
Silicon	28-1	599.15	607.76	607.66	604.85	0.82	ppb
Silver	107-1	499.58	485.99	505.80	497.12	2.04	ppb
Silver	109-1	492.10	493.71	508.35	498.05	1.80	ppb
Sodium	23-2	49529.98	48602.93	50558.60	49563.83	1.97	ppb
Strontium	86-1	481.33	476.25	492.67	483.42	1.74	ppb
Strontium	88-1	476.44	476.23	487.22	479.96	1.31	ppb
Sulfur	34-1	10716.04	10984.89	11165.29	10955.41	2.06	ppb
Terbium	159-1				96		%
Terbium	159-2				91		%
Thallium	203-1	465.94	485.11	488.74	479.93	2.55	ppb
Thallium	205-1	462.50	480.13	490.05	477.56	2.92	ppb
Tin	118-1	483.58	480.59	498.21	487.46	1.93	ppb
Titanium	47-1	4782.22	4854.75	4861.18	4832.72	0.91	ppb
Uranium	238-1	468.37	482.05	483.65	478.02	1.76	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	482.36	479.38	491.63	484.46	1.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				87		%
Zinc	66-2	4987.47	4961.30	5069.92	5006.23	1.13	ppb
Zirconium	90-1	472.47	476.74	485.26	478.16	1.36	ppb
Zirconium	91-1	482.08	474.44	491.51	482.68	1.77	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50980.62	50499.47	49947.92	50476.00	1.02	ppb
Antimony	121-1	504.64	503.33	502.61	503.53	0.20	ppb
Arsenic	75-2	493.27	500.71	491.11	495.03	1.02	ppb
Barium	135-1	2497.06	2526.25	2518.14	2513.82	0.60	ppb
Barium	137-1	2500.89	2523.10	2539.16	2521.05	0.76	ppb
Beryllium	9-1	492.64	490.10	504.39	495.71	1.54	ppb
Bismuth	209-1				82		%
Bismuth	209-2				76		%
Bromine	81-1						cps
Cadmium	108-1	486.13	489.03	495.96	490.37	1.03	ppb
Cadmium	106-1	492.28	488.51	495.71	492.17	0.73	ppb
Cadmium	111-1	457.52	458.13	461.96	459.20	0.52	ppb
Calcium	43-1	243172.33	244338.46	248997.96	245502.91	1.26	ppb
Calcium	44-1	247457.34	247070.97	249589.47	248039.26	0.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490.84	487.95	480.06	486.28	1.15	ppb
Cobalt	59-2	511.73	516.41	512.09	513.41	0.51	ppb
Copper	63-2	5036.60	4934.30	4824.14	4931.68	2.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				90		%
Holmium	165-2				86		%
Indium	115-1				84		%
Indium	115-2				79		%
Iron	54-2	129115.60	127823.78	126610.29	127849.89	0.98	ppb
Iron	56-2	129951.20	127594.67	126154.99	127900.29	1.50	ppb
Iron	57-2	128193.12	128166.64	126912.40	127757.39	0.57	ppb
Krypton	83-1						cps
Lead	206-1	2589.43	2630.42	2656.33	2625.39	1.28	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2586.67	2602.12	2641.48	2610.09	1.08	ppb
Lead	208-1	2575.62	2613.73	2639.51	2609.62	1.23	ppb
Lithium	6-1				87		%
Magnesium	24-2	256317.05	248944.68	248504.74	251255.49	1.75	ppb
Manganese	55-2	5119.65	5197.81	5048.87	5122.11	1.45	ppb
Molybdenum	94-1	5018.67	5084.08	5188.54	5097.10	1.68	ppb
Molybdenum	95-1	5015.28	5040.24	5159.91	5071.81	1.52	ppb
Molybdenum	96-1	5032.05	5050.68	5170.74	5084.49	1.48	ppb
Molybdenum	97-1	5070.80	5125.30	5207.06	5134.39	1.34	ppb
Molybdenum	98-1	5075.92	5115.65	5164.20	5118.59	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	496.44	499.02	485.94	493.80	1.40	ppb
Phosphorus	31-2	9937.70	10057.62	10166.66	10053.99	1.14	ppb
Potassium	39-2	125022.43	124579.39	123658.43	124420.08	0.56	ppb
Rhodium	103-1				81		%
Rhodium	103-2				75		%
Scandium	45-1				89		%
Scandium	45-2				82		%
Selenium	82-1	475.03	482.42	498.05	485.17	2.42	ppb
Selenium	77-2	409.63	506.94	513.57	476.71	12.21	ppb
Selenium	78-2	479.40	517.50	517.58	504.83	4.36	ppb
Silicon	28-1	607.92	601.00	616.08	608.33	1.24	ppb
Silver	107-1	480.54	475.92	486.92	481.13	1.15	ppb
Silver	109-1	480.99	477.63	483.69	480.77	0.63	ppb
Sodium	23-2	255688.57	251307.77	248883.18	251959.84	1.37	ppb
Strontium	86-1	513.87	511.08	518.01	514.32	0.68	ppb
Strontium	88-1	506.11	511.80	514.87	510.93	0.87	ppb
Sulfur	34-1	11556.82	11442.09	11611.71	11536.87	0.75	ppb
Terbium	159-1				91		%
Terbium	159-2				84		%
Thallium	203-1	518.95	530.14	526.40	525.16	1.08	ppb
Thallium	205-1	522.29	523.85	527.77	524.64	0.54	ppb
Tin	118-1	500.06	504.13	501.75	501.98	0.41	ppb
Titanium	47-1	5097.87	5114.58	5091.06	5101.17	0.24	ppb
Uranium	238-1	525.49	539.63	546.72	537.28	2.01	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.26	502.34	488.66	497.09	1.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				81		%
Zinc	66-2	4748.60	4711.18	4656.74	4705.51	0.98	ppb
Zirconium	90-1	504.89	514.77	523.74	514.46	1.83	ppb
Zirconium	91-1	518.82	509.87	530.54	519.74	1.99	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.48	0.11	-0.31	-0.23		ppb
Antimony	121-1	0.04	0.04	0.05	0.04	9.55	ppb
Arsenic	75-2	-0.01	-0.01	0.07	0.02	271.03	ppb
Barium	135-1	0.18	0.20	0.17	0.19	8.92	ppb
Barium	137-1	0.19	0.16	0.17	0.17	8.81	ppb
Beryllium	9-1	0.12	0.09	0.09	0.10	14.51	ppb
Bismuth	209-1				93		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	0.12	0.07	53.62	ppb
Cadmium	106-1	-0.60	-0.30	-0.10	-0.33		ppb
Cadmium	111-1	-0.01	0.01	0.00	0.00		ppb
Calcium	43-1	-1.62	-1.61	-2.48	-1.90		ppb
Calcium	44-1	-1.42	-2.43	-2.03	-1.96		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.00	0.08	0.05	87.97	ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	294.98	ppb
Copper	63-2	0.26	0.25	0.13	0.21	34.60	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				90		%
Indium	115-1				93		%
Indium	115-2				87		%
Iron	54-2	0.25	1.07	0.62	0.65	63.08	ppb
Iron	56-2	0.48	0.33	0.33	0.38	23.98	ppb
Iron	57-2	-1.10	-3.12	-2.16	-2.13		ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.07	0.08	0.08	10.88	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.09	0.09	0.09	6.68	ppb
Lead	208-1	0.09	0.08	0.08	0.08	4.71	ppb
Lithium	6-1				95		%
Magnesium	24-2	-1.01	-1.04	-1.21	-1.09		ppb
Manganese	55-2	0.23	0.22	0.20	0.22	7.12	ppb
Molybdenum	94-1	0.03	0.03	0.06	0.04	38.04	ppb
Molybdenum	95-1	0.06	0.06	0.05	0.05	10.00	ppb
Molybdenum	96-1	0.04	0.04	0.04	0.04	2.60	ppb
Molybdenum	97-1	0.03	0.03	0.04	0.03	22.76	ppb
Molybdenum	98-1	0.05	0.04	0.03	0.04	14.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.01	0.06	0.02	173.62	ppb
Phosphorus	31-2	-31.91	-25.73	-19.58	-25.74		ppb
Potassium	39-2	10.11	7.82	10.64	9.52	15.74	ppb
Rhodium	103-1				93		%
Rhodium	103-2				88		%
Scandium	45-1				91		%
Scandium	45-2				83		%
Selenium	82-1	-0.25	-0.56	-0.39	-0.40		ppb
Selenium	77-2	0.00	0.00	1.46	0.49	173.21	ppb
Selenium	78-2	0.10	-0.79	-0.79	-0.49		ppb
Silicon	28-1	-0.16	-0.44	-0.37	-0.32		ppb
Silver	107-1	0.01	0.01	0.01	0.01	18.18	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.58	ppb
Sodium	23-2	10.55	8.81	7.27	8.87	18.51	ppb
Strontium	86-1	-0.01	-0.01	-0.01	-0.01		ppb
Strontium	88-1	-0.01	0.00	-0.01	0.00		ppb
Sulfur	34-1	-247.21	-425.79	-437.37	-370.13		ppb
Terbium	159-1				92		%
Terbium	159-2				89		%
Thallium	203-1	0.02	0.02	0.02	0.02	16.55	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	7.93	ppb
Tin	118-1	0.01	0.03	0.02	0.02	52.25	ppb
Titanium	47-1	0.03	-0.01	0.02	0.01	142.50	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	57.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				84		%
Zinc	66-2	0.27	0.18	-0.04	0.13	117.65	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	8.79	ppb
Zirconium	91-1	0.01	0.02	0.00	0.01	86.68	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.05	-0.39	-0.30	-0.25		ppb
Antimony	121-1	0.03	0.03	0.03	0.03	9.27	ppb
Arsenic	75-2	0.03	0.01	-0.01	0.01	191.31	ppb
Barium	135-1	0.10	0.13	0.10	0.11	16.50	ppb
Barium	137-1	0.12	0.11	0.12	0.12	8.05	ppb
Beryllium	9-1	0.07	0.07	0.08	0.07	8.70	ppb
Bismuth	209-1				94		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.01	-0.02	-0.10	-0.04		ppb
Cadmium	106-1	0.28	-0.65	-0.86	-0.41		ppb
Cadmium	111-1	0.02	-0.01	-0.02	0.00		ppb
Calcium	43-1	-2.01	-4.00	-3.08	-3.03		ppb
Calcium	44-1	-2.41	-2.70	-2.83	-2.65		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.03	0.01	0.02	39.56	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.14	0.14	0.19	0.16	17.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				88		%
Indium	115-1				93		%
Indium	115-2				86		%
Iron	54-2	1.43	-0.12	0.33	0.55	146.34	ppb
Iron	56-2	0.17	0.21	0.12	0.17	27.81	ppb
Iron	57-2	-1.02	-0.51	-1.31	-0.95		ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.06	0.05	10.77	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.06	0.05	16.12	ppb
Lead	208-1	0.05	0.05	0.05	0.05	5.33	ppb
Lithium	6-1				95		%
Magnesium	24-2	-1.20	-1.57	-1.52	-1.43		ppb
Manganese	55-2	0.25	0.13	0.15	0.18	36.35	ppb
Molybdenum	94-1	0.01	0.01	0.01	0.01	41.09	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.02	33.61	ppb
Molybdenum	96-1	0.02	0.02	0.01	0.02	51.23	ppb
Molybdenum	97-1	0.00	0.01	0.00	0.01	90.45	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	9.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.14	-0.02	0.10	0.07	115.05	ppb
Phosphorus	31-2	-29.83	-31.92	-29.82	-30.52		ppb
Potassium	39-2	9.92	4.81	10.62	8.45	37.56	ppb
Rhodium	103-1				91		%
Rhodium	103-2				87		%
Scandium	45-1				91		%
Scandium	45-2				83		%
Selenium	82-1	-0.18	-0.57	-0.01	-0.25		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.11	-0.79	-0.34	-0.34		ppb
Silicon	28-1	-0.52	-0.44	-0.24	-0.40		ppb
Silver	107-1	0.01	0.00	0.00	0.00	35.42	ppb
Silver	109-1	0.01	0.01	0.01	0.01	21.48	ppb
Sodium	23-2	5.56	5.20	4.80	5.19	7.36	ppb
Strontium	86-1	-0.02	-0.01	-0.01	-0.01		ppb
Strontium	88-1	-0.01	-0.01	-0.01	-0.01		ppb
Sulfur	34-1	-463.61	-291.45	-304.56	-353.21		ppb
Terbium	159-1				92		%
Terbium	159-2				88		%
Thallium	203-1	0.01	0.01	0.01	0.01	37.05	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.16	ppb
Tin	118-1	0.21	0.02	0.01	0.08	141.97	ppb
Titanium	47-1	0.00	0.01	0.01	0.01	89.18	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				83		%
Zinc	66-2	0.25	0.03	0.17	0.15	72.64	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	181.35	ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	426.32	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9119.19	9282.51	9229.15	9210.28	0.90	ppb
Antimony	121-1	487.53	517.55	518.29	507.79	3.46	ppb
Arsenic	75-2	488.50	503.86	491.10	494.49	1.66	ppb
Barium	135-1	2364.90	2540.27	2525.43	2476.87	3.93	ppb
Barium	137-1	2398.36	2561.82	2511.60	2490.59	3.36	ppb
Beryllium	9-1	454.21	477.12	487.29	472.87	3.58	ppb
Bismuth	209-1				88		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	482.65	504.75	510.99	499.46	2.98	ppb
Cadmium	106-1	484.51	511.36	517.41	504.43	3.47	ppb
Cadmium	111-1	458.54	490.74	486.85	478.71	3.67	ppb
Calcium	43-1	47033.14	50099.02	50148.43	49093.53	3.63	ppb
Calcium	44-1	47149.41	49916.88	49795.64	48953.98	3.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	474.31	485.08	482.89	480.76	1.18	ppb
Cobalt	59-2	507.92	522.47	516.06	515.48	1.41	ppb
Copper	63-2	5124.86	5245.59	5246.83	5205.76	1.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				88		%
Indium	115-1				87		%
Indium	115-2				82		%
Iron	54-2	26094.59	26384.79	25833.77	26104.39	1.06	ppb
Iron	56-2	25101.82	25638.28	25668.28	25469.46	1.25	ppb
Iron	57-2	24039.50	24520.59	24239.42	24266.51	1.00	ppb
Krypton	83-1						cps
Lead	206-1	2388.70	2505.38	2495.33	2463.14	2.63	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2370.97	2520.41	2533.04	2474.81	3.64	ppb
Lead	208-1	2376.33	2517.65	2514.85	2469.61	3.27	ppb
Lithium	6-1				92		%
Magnesium	24-2	50415.52	49764.67	49930.39	50036.86	0.68	ppb
Manganese	55-2	5062.34	5131.68	5090.94	5094.99	0.68	ppb
Molybdenum	94-1	4849.25	5016.92	5028.09	4964.75	2.02	ppb
Molybdenum	95-1	4767.31	5063.47	4984.28	4938.35	3.10	ppb
Molybdenum	96-1	4780.19	5021.85	5046.08	4949.37	2.97	ppb
Molybdenum	97-1	4805.67	5018.21	5059.44	4961.11	2.74	ppb
Molybdenum	98-1	4734.52	5035.19	5060.20	4943.30	3.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	504.41	520.85	514.63	513.30	1.62	ppb
Phosphorus	31-2	9823.89	9821.39	10110.86	9918.71	1.68	ppb
Potassium	39-2	24418.01	24389.43	24590.23	24465.89	0.44	ppb
Rhodium	103-1				85		%
Rhodium	103-2				82		%
Scandium	45-1				89		%
Scandium	45-2				83		%
Selenium	82-1	483.03	503.24	515.14	500.47	3.24	ppb
Selenium	77-2	474.50	523.37	504.09	500.65	4.92	ppb
Selenium	78-2	497.37	513.38	510.45	507.07	1.68	ppb
Silicon	28-1	515.24	548.10	545.71	536.35	3.42	ppb
Silver	107-1	491.31	521.02	524.24	512.19	3.54	ppb
Silver	109-1	492.06	518.68	520.65	510.46	3.13	ppb
Sodium	23-2	49481.06	49846.08	49479.21	49602.12	0.43	ppb
Strontium	86-1	480.12	505.95	506.81	497.62	3.05	ppb
Strontium	88-1	480.14	503.05	509.45	497.55	3.10	ppb
Sulfur	34-1	10751.74	11869.32	11765.67	11462.25	5.39	ppb
Terbium	159-1				91		%
Terbium	159-2				86		%
Thallium	203-1	473.19	502.77	500.59	492.19	3.35	ppb
Thallium	205-1	472.31	498.06	496.36	488.91	2.95	ppb
Tin	118-1	482.50	512.51	515.31	503.44	3.61	ppb
Titanium	47-1	4773.65	5089.48	5063.69	4975.61	3.52	ppb
Uranium	238-1	474.51	500.21	503.21	492.65	3.20	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	476.39	487.81	483.76	482.66	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				82		%
Zinc	66-2	4892.90	5047.87	5007.89	4982.89	1.61	ppb
Zirconium	90-1	483.81	510.28	506.27	500.12	2.85	ppb
Zirconium	91-1	485.22	510.17	511.21	502.20	2.93	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	174.77	181.65	174.80	177.07	2.24	ppb
Antimony	121-1	0.15	0.16	0.14	0.15	6.50	ppb
Arsenic	75-2	0.61	0.67	0.49	0.59	15.50	ppb
Barium	135-1	23.62	23.65	23.94	23.74	0.74	ppb
Barium	137-1	23.55	23.91	24.15	23.87	1.28	ppb
Beryllium	9-1	0.21	0.21	0.16	0.19	13.09	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.30	0.29	0.30	0.30	1.89	ppb
Cadmium	106-1	-1.51	-0.63	-0.35	-0.83		ppb
Cadmium	111-1	0.07	0.14	0.12	0.11	29.13	ppb
Calcium	43-1	9450.61	9657.38	9679.65	9595.88	1.32	ppb
Calcium	44-1	9927.75	10019.35	10010.28	9985.79	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.02	1.12	0.95	1.03	8.23	ppb
Cobalt	59-2	19.20	19.53	18.85	19.19	1.75	ppb
Copper	63-2	4.42	4.44	4.19	4.35	3.13	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				89		%
Indium	115-1				94		%
Indium	115-2				87		%
Iron	54-2	316.19	326.10	312.98	318.42	2.15	ppb
Iron	56-2	326.07	324.02	317.31	322.47	1.42	ppb
Iron	57-2	322.17	322.52	310.79	318.49	2.10	ppb
Krypton	83-1						cps
Lead	206-1	0.58	0.54	0.53	0.55	5.42	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.56	0.53	0.50	0.53	5.37	ppb
Lead	208-1	0.58	0.54	0.52	0.55	4.81	ppb
Lithium	6-1				96		%
Magnesium	24-2	3230.03	3177.76	3144.17	3183.99	1.36	ppb
Manganese	55-2	295.78	293.00	289.63	292.80	1.05	ppb
Molybdenum	94-1	0.71	0.68	0.69	0.70	2.50	ppb
Molybdenum	95-1	0.50	0.44	0.39	0.45	12.41	ppb
Molybdenum	96-1	0.49	0.44	0.41	0.45	9.63	ppb
Molybdenum	97-1	0.45	0.45	0.40	0.43	7.02	ppb
Molybdenum	98-1	0.51	0.40	0.39	0.43	14.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.01	11.28	10.71	11.00	2.60	ppb
Phosphorus	31-2	-11.04	-4.92	-28.07	-14.68		ppb
Potassium	39-2	938.15	925.85	905.48	923.16	1.79	ppb
Rhodium	103-1				92		%
Rhodium	103-2				88		%
Scandium	45-1				92		%
Scandium	45-2				84		%
Selenium	82-1	-0.08	0.17	0.35	0.15	144.91	ppb
Selenium	77-2	1.46	0.00	0.00	0.49	173.21	ppb
Selenium	78-2	-0.34	-0.79	-0.35	-0.49		ppb
Silicon	28-1	502.54	516.09	507.32	508.65	1.35	ppb
Silver	107-1	0.07	0.06	0.05	0.06	22.35	ppb
Silver	109-1	0.07	0.06	0.05	0.06	16.26	ppb
Sodium	23-2	14894.80	14263.19	14330.02	14496.00	2.39	ppb
Strontium	86-1	42.49	43.56	44.50	43.51	2.32	ppb
Strontium	88-1	46.20	46.44	47.02	46.55	0.90	ppb
Sulfur	34-1	11440.65	12149.85	11845.81	11812.10	3.01	ppb
Terbium	159-1				94		%
Terbium	159-2				89		%
Thallium	203-1	0.13	0.10	0.10	0.11	14.41	ppb
Thallium	205-1	0.12	0.11	0.10	0.11	9.31	ppb
Tin	118-1	0.29	0.29	0.27	0.28	4.76	ppb
Titanium	47-1	6.03	6.22	5.91	6.05	2.59	ppb
Uranium	238-1	7.36	7.49	7.57	7.48	1.40	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525·	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.26	1.15	1.07	1.16	8.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				85		%
Zinc	66-2	13.14	12.76	12.46	12.78	2.65	ppb
Zirconium	90-1	0.20	0.21	0.19	0.20	3.49	ppb
Zirconium	91-1	0.23	0.19	0.21	0.21	9.97	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	453.70	446.75	459.27	453.24	1.38	ppb
Antimony	121-1	0.05	0.05	0.06	0.06	5.74	ppb
Arsenic	75-2	0.84	0.65	0.77	0.75	13.03	ppb
Barium	135-1	27.20	27.28	27.32	27.27	0.23	ppb
Barium	137-1	27.68	27.75	27.67	27.70	0.17	ppb
Beryllium	9-1	0.19	0.17	0.19	0.19	6.21	ppb
Bismuth	209-1				95		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.18	0.17	0.33	0.23	39.35	ppb
Cadmium	106-1	-1.28	-1.44	-1.40	-1.37		ppb
Cadmium	111-1	0.07	0.02	0.04	0.04	59.65	ppb
Calcium	43-1	10622.91	10757.13	10931.22	10770.42	1.44	ppb
Calcium	44-1	11168.44	11259.41	11250.79	11226.22	0.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.62	1.62	1.50	1.58	4.43	ppb
Cobalt	59-2	21.09	21.64	21.32	21.35	1.29	ppb
Copper	63-2	5.50	5.67	5.65	5.61	1.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				91		%
Indium	115-1				95		%
Indium	115-2				88		%
Iron	54-2	667.35	685.53	661.11	671.33	1.89	ppb
Iron	56-2	671.69	673.17	663.04	669.30	0.82	ppb
Iron	57-2	663.12	681.68	651.21	665.34	2.31	ppb
Krypton	83-1						cps
Lead	206-1	0.92	0.90	0.90	0.91	1.58	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.88	0.83	0.91	0.88	4.63	ppb
Lead	208-1	0.90	0.88	0.90	0.89	1.23	ppb
Lithium	6-1				96		%
Magnesium	24-2	3685.02	3667.45	3608.91	3653.79	1.09	ppb
Manganese	55-2	314.75	313.97	309.32	312.68	0.94	ppb
Molybdenum	94-1	0.67	0.63	0.69	0.67	4.31	ppb
Molybdenum	95-1	0.17	0.16	0.16	0.16	4.68	ppb
Molybdenum	96-1	0.20	0.22	0.20	0.21	6.07	ppb
Molybdenum	97-1	0.17	0.15	0.14	0.16	7.62	ppb
Molybdenum	98-1	0.15	0.15	0.16	0.15	3.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.22	13.10	13.09	13.14	0.55	ppb
Phosphorus	31-2	-5.74	-1.52	-0.29	-2.52		ppb
Potassium	39-2	977.63	982.05	970.88	976.85	0.58	ppb
Rhodium	103-1				93		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				86		%
Selenium	82-1	0.03	-0.02	0.39	0.13	166.04	ppb
Selenium	77-2	2.87	7.09	2.82	4.26	57.53	ppb
Selenium	78-2	-0.35	0.94	-0.36	0.08	987.72	ppb
Silicon	28-1	607.49	604.45	619.79	610.58	1.33	ppb
Silver	107-1	0.01	0.01	0.01	0.01	36.31	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.05	ppb
Sodium	23-2	15427.14	15294.33	15002.24	15241.24	1.43	ppb
Strontium	86-1	54.03	52.81	54.39	53.74	1.54	ppb
Strontium	88-1	58.31	56.22	57.83	57.45	1.91	ppb
Sulfur	34-1	13655.05	13802.88	14076.88	13844.94	1.55	ppb
Terbium	159-1				96		%
Terbium	159-2				90		%
Thallium	203-1	0.10	0.10	0.08	0.10	11.55	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	1.46	ppb
Tin	118-1	0.09	0.09	0.09	0.09	2.18	ppb
Titanium	47-1	8.96	9.67	9.32	9.31	3.83	ppb
Uranium	238-1	9.34	9.25	9.36	9.32	0.62	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.54	2.48	2.49	2.50	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				86		%
Zinc	66-2	5.51	6.44	5.86	5.94	7.88	ppb
Zirconium	90-1	0.28	0.27	0.29	0.28	4.39	ppb
Zirconium	91-1	0.27	0.28	0.26	0.27	3.11	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	468.52	462.87	473.81	468.40	1.17	ppb
Antimony	121-1	0.12	0.11	0.13	0.12	10.24	ppb
Arsenic	75-2	0.78	0.76	0.98	0.84	14.17	ppb
Barium	135-1	27.78	27.89	27.89	27.85	0.22	ppb
Barium	137-1	27.75	27.79	28.44	27.99	1.37	ppb
Beryllium	9-1	0.16	0.18	0.18	0.17	5.05	ppb
Bismuth	209-1				96		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.12	-0.01	0.09	0.06	106.85	ppb
Cadmium	106-1	-0.75	-0.48	-1.31	-0.84		ppb
Cadmium	111-1	0.08	0.06	0.06	0.07	21.16	ppb
Calcium	43-1	10834.53	10862.27	11099.87	10932.22	1.33	ppb
Calcium	44-1	11313.25	11235.39	11502.64	11350.43	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.60	1.66	1.70	1.65	2.93	ppb
Cobalt	59-2	21.45	21.25	22.03	21.58	1.87	ppb
Copper	63-2	5.55	5.47	5.56	5.53	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				91		%
Indium	115-1				96		%
Indium	115-2				90		%
Iron	54-2	692.21	663.49	701.06	685.59	2.86	ppb
Iron	56-2	687.46	677.63	688.43	684.50	0.87	ppb
Iron	57-2	670.48	684.91	688.13	681.18	1.38	ppb
Krypton	83-1						cps
Lead	206-1	0.89	0.86	0.91	0.89	2.36	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.80	0.84	0.83	0.82	2.21	ppb
Lead	208-1	0.84	0.84	0.86	0.85	1.70	ppb
Lithium	6-1				97		%
Magnesium	24-2	3709.71	3630.79	3699.21	3679.90	1.16	ppb
Manganese	55-2	313.58	309.99	314.02	312.53	0.71	ppb
Molybdenum	94-1	0.66	0.67	0.61	0.65	4.47	ppb
Molybdenum	95-1	0.12	0.14	0.17	0.14	15.23	ppb
Molybdenum	96-1	0.21	0.19	0.17	0.19	9.58	ppb
Molybdenum	97-1	0.14	0.13	0.12	0.13	9.07	ppb
Molybdenum	98-1	0.14	0.14	0.14	0.14	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.07	12.96	13.38	13.14	1.63	ppb
Phosphorus	31-2	-14.40	-10.72	-0.22	-8.45		ppb
Potassium	39-2	985.40	970.44	992.96	982.94	1.17	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				87		%
Selenium	82-1	0.00	0.57	0.32	0.30	95.02	ppb
Selenium	77-2	7.00	2.81	1.39	3.73	78.11	ppb
Selenium	78-2	0.49	0.49	-0.79	0.06	1136.40	ppb
Silicon	28-1	614.33	621.35	637.59	624.42	1.91	ppb
Silver	107-1	0.01	0.01	0.01	0.01	29.12	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.82	ppb
Sodium	23-2	14912.14	14967.66	15466.00	15115.27	2.02	ppb
Strontium	86-1	54.16	54.57	53.39	54.04	1.10	ppb
Strontium	88-1	58.53	59.39	55.79	57.90	3.24	ppb
Sulfur	34-1	13943.19	14097.65	14193.58	14078.14	0.90	ppb
Terbium	159-1				97		%
Terbium	159-2				91		%
Thallium	203-1	0.09	0.08	0.09	0.09	3.67	ppb
Thallium	205-1	0.09	0.08	0.08	0.08	2.63	ppb
Tin	118-1	0.07	0.07	0.07	0.07	2.45	ppb
Titanium	47-1	9.74	9.77	9.63	9.71	0.78	ppb
Uranium	238-1	9.34	9.60	9.56	9.50	1.47	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.53	2.66	2.63	2.60	2.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				88		%
Zinc	66-2	6.05	6.37	6.22	6.21	2.55	ppb
Zirconium	90-1	0.29	0.29	0.29	0.29	1.53	ppb
Zirconium	91-1	0.28	0.28	0.28	0.28	1.50	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	96.00	92.80	94.78	94.53	1.71	ppb
Antimony	121-1	0.03	0.03	0.04	0.04	8.29	ppb
Arsenic	75-2	0.16	0.13	0.20	0.16	19.16	ppb
Barium	135-1	5.54	5.56	5.72	5.61	1.81	ppb
Barium	137-1	5.54	5.77	5.79	5.70	2.40	ppb
Beryllium	9-1	0.07	0.08	0.09	0.08	9.27	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.03	0.16	0.04	248.72	ppb
Cadmium	106-1	-0.71	-1.78	-1.00	-1.16		ppb
Cadmium	111-1	0.00	-0.02	0.00	-0.01		ppb
Calcium	43-1	2184.53	2180.20	2186.92	2183.88	0.16	ppb
Calcium	44-1	2325.52	2297.23	2317.36	2313.37	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.32	0.29	0.29	0.30	4.84	ppb
Cobalt	59-2	4.33	4.17	4.50	4.33	3.83	ppb
Copper	63-2	1.29	1.21	1.25	1.25	3.20	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				90		%
Indium	115-1				96		%
Indium	115-2				89		%
Iron	54-2	142.33	134.47	136.38	137.73	2.97	ppb
Iron	56-2	140.30	138.96	139.93	139.73	0.50	ppb
Iron	57-2	141.81	138.49	137.02	139.11	1.76	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.19	0.20	0.19	3.02	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.21	0.21	0.20	8.08	ppb
Lead	208-1	0.19	0.20	0.20	0.20	3.09	ppb
Lithium	6-1				95		%
Magnesium	24-2	743.64	748.08	752.77	748.16	0.61	ppb
Manganese	55-2	65.15	65.80	64.13	65.02	1.29	ppb
Molybdenum	94-1	0.13	0.16	0.15	0.15	10.97	ppb
Molybdenum	95-1	0.05	0.05	0.06	0.05	3.85	ppb
Molybdenum	96-1	0.07	0.08	0.05	0.07	23.31	ppb
Molybdenum	97-1	0.07	0.05	0.06	0.06	18.03	ppb
Molybdenum	98-1	0.04	0.06	0.05	0.05	12.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.80	2.87	2.80	2.82	1.35	ppb
Phosphorus	31-2	-30.10	-11.70	-21.93	-21.25		ppb
Potassium	39-2	207.51	201.48	199.44	202.81	2.07	ppb
Rhodium	103-1				95		%
Rhodium	103-2				89		%
Scandium	45-1				94		%
Scandium	45-2				85		%
Selenium	82-1	-0.39	-0.22	-0.18	-0.26		ppb
Selenium	77-2	1.43	0.00	1.42	0.95	86.60	ppb
Selenium	78-2	-0.79	-0.35	0.08	-0.35		ppb
Silicon	28-1	119.80	122.77	121.63	121.40	1.23	ppb
Silver	107-1	0.00	0.00	0.01	0.00	87.60	ppb
Silver	109-1	0.00	0.01	0.01	0.00	47.76	ppb
Sodium	23-2	2939.66	2926.91	2925.89	2930.82	0.26	ppb
Strontium	86-1	10.92	10.93	10.92	10.92	0.07	ppb
Strontium	88-1	10.91	10.93	11.02	10.96	0.51	ppb
Sulfur	34-1	2852.99	2962.26	2947.26	2920.84	2.03	ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	0.03	0.02	0.02	0.02	4.67	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	14.75	ppb
Tin	118-1	0.02	0.01	0.03	0.02	36.11	ppb
Titanium	47-1	1.96	1.90	2.27	2.04	9.59	ppb
Uranium	238-1	1.89	1.89	1.87	1.88	0.79	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.46	0.50	0.56	0.51	9.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	1.74	1.18	1.78	1.56	21.54	ppb
Zirconium	90-1	0.07	0.06	0.06	0.06	8.04	ppb
Zirconium	91-1	0.07	0.05	0.05	0.06	21.40	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8141.07	8292.99	8268.58	8234.21	0.99	ppb
Antimony	121-1	431.90	440.24	438.38	436.84	1.00	ppb
Arsenic	75-2	1.15	0.86	1.14	1.05	15.89	ppb
Barium	135-1	2007.37	2025.22	2033.92	2022.17	0.67	ppb
Barium	137-1	1978.46	2027.00	2044.44	2016.63	1.70	ppb
Beryllium	9-1	416.13	410.46	409.41	412.00	0.88	ppb
Bismuth	209-1				91		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	441.92	452.58	456.59	450.37	1.68	ppb
Cadmium	106-1	428.29	434.13	435.90	432.77	0.92	ppb
Cadmium	111-1	404.99	415.69	418.97	413.22	1.77	ppb
Calcium	43-1	52720.12	52224.54	53347.27	52763.98	1.07	ppb
Calcium	44-1	52705.39	53227.23	53287.19	53073.27	0.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	402.27	416.12	412.13	410.17	1.74	ppb
Cobalt	59-2	463.29	464.01	466.42	464.57	0.35	ppb
Copper	63-2	4540.21	4743.46	4650.40	4644.69	2.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				91		%
Indium	115-1				93		%
Indium	115-2				86		%
Iron	54-2	21615.14	22533.77	22156.74	22101.88	2.09	ppb
Iron	56-2	21403.76	22081.47	21624.31	21703.18	1.59	ppb
Iron	57-2	20069.70	20816.56	20668.47	20518.24	1.93	ppb
Krypton	83-1						cps
Lead	206-1	2283.08	2283.85	2249.37	2272.10	0.87	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2265.22	2228.48	2253.15	2248.95	0.83	ppb
Lead	208-1	2252.83	2240.89	2248.20	2247.31	0.27	ppb
Lithium	6-1				95		%
Magnesium	24-2	46084.35	47544.61	46596.77	46741.91	1.59	ppb
Manganese	55-2	4868.54	4999.87	4935.25	4934.55	1.33	ppb
Molybdenum	94-1	6513.84	6658.08	6689.78	6620.57	1.42	ppb
Molybdenum	95-1	7020.62	7085.24	7112.48	7072.78	0.67	ppb
Molybdenum	96-1	6946.29	7123.15	7131.87	7067.10	1.48	ppb
Molybdenum	97-1	7119.70	7144.34	7172.51	7145.51	0.37	ppb
Molybdenum	98-1	7083.42	7184.46	7185.13	7151.00	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	449.54	462.08	459.77	457.13	1.46	ppb
Phosphorus	31-2	-3.28	-1.98	-8.43	-4.56		ppb
Potassium	39-2	20487.45	21095.02	20877.33	20819.93	1.48	ppb
Rhodium	103-1				90		%
Rhodium	103-2				86		%
Scandium	45-1				93		%
Scandium	45-2				88		%
Selenium	82-1	430.88	432.93	438.11	433.97	0.86	ppb
Selenium	77-2	462.14	403.71	503.08	456.31	10.95	ppb
Selenium	78-2	446.52	432.13	432.09	436.91	1.90	ppb
Silicon	28-1	573.04	583.98	579.39	578.80	0.95	ppb
Silver	107-1	327.87	243.51	297.29	289.55	14.75	ppb
Silver	109-1	348.52	253.96	330.30	310.93	16.14	ppb
Sodium	23-2	55172.55	57228.92	56683.96	56361.81	1.89	ppb
Strontium	86-1	558.50	555.68	566.15	560.11	0.97	ppb
Strontium	88-1	553.70	556.51	559.49	556.57	0.52	ppb
Sulfur	34-1	12568.55	12880.49	13116.38	12855.14	2.14	ppb
Terbium	159-1				97		%
Terbium	159-2				90		%
Thallium	203-1	442.26	439.58	428.81	436.88	1.63	ppb
Thallium	205-1	427.60	422.71	427.35	425.88	0.65	ppb
Tin	118-1	391.15	399.99	397.61	396.25	1.15	ppb
Titanium	47-1	5475.54	5479.13	5553.30	5502.66	0.80	ppb
Uranium	238-1	466.48	465.56	465.42	465.82	0.12	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	423.50	432.63	431.69	429.28	1.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				87		%
Zinc	66-2	4434.27	4550.24	4527.81	4504.11	1.37	ppb
Zirconium	90-1	437.61	440.95	440.88	439.81	0.43	ppb
Zirconium	91-1	439.76	449.63	447.10	445.50	1.15	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8356.27	8404.55	8371.94	8377.58	0.29	ppb
Antimony	121-1	434.96	447.25	447.20	443.14	1.60	ppb
Arsenic	75-2	1.19	0.96	1.21	1.12	12.19	ppb
Barium	135-1	2014.49	2086.89	2101.01	2067.46	2.25	ppb
Barium	137-1	2000.17	2061.91	2138.14	2066.74	3.34	ppb
Beryllium	9-1	414.32	435.41	427.77	425.83	2.51	ppb
Bismuth	209-1				92		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	443.35	470.84	472.94	462.38	3.57	ppb
Cadmium	106-1	425.85	442.61	448.59	439.02	2.69	ppb
Cadmium	111-1	404.63	420.61	429.15	418.13	2.98	ppb
Calcium	43-1	51361.21	54788.40	53539.51	53229.71	3.26	ppb
Calcium	44-1	51444.88	53423.50	53011.60	52626.66	1.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	414.35	413.65	415.60	414.53	0.24	ppb
Cobalt	59-2	472.81	475.88	466.58	471.76	1.00	ppb
Copper	63-2	4672.96	4678.54	4645.17	4665.56	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				90		%
Indium	115-1				93		%
Indium	115-2				85		%
Iron	54-2	22585.05	22416.11	21986.99	22329.38	1.38	ppb
Iron	56-2	21805.84	21791.45	21605.11	21734.13	0.52	ppb
Iron	57-2	20634.14	20715.31	20515.84	20621.76	0.49	ppb
Krypton	83-1						cps
Lead	206-1	2185.13	2299.41	2240.10	2241.55	2.55	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2199.35	2314.77	2262.81	2258.98	2.56	ppb
Lead	208-1	2196.84	2299.35	2267.49	2254.56	2.33	ppb
Lithium	6-1				96		%
Magnesium	24-2	47362.71	47443.58	46627.91	47144.73	0.95	ppb
Manganese	55-2	4929.76	4886.76	4915.10	4910.54	0.45	ppb
Molybdenum	94-1	6494.84	6763.82	6757.07	6671.91	2.30	ppb
Molybdenum	95-1	6943.83	7236.14	7174.64	7118.20	2.16	ppb
Molybdenum	96-1	6964.60	7222.96	7203.16	7130.24	2.02	ppb
Molybdenum	97-1	7024.77	7259.00	7228.90	7170.89	1.78	ppb
Molybdenum	98-1	7030.04	7196.47	7311.53	7179.35	1.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	461.98	459.98	460.01	460.66	0.25	ppb
Phosphorus	31-2	-2.53	-18.41	-12.53	-11.16		ppb
Potassium	39-2	21066.24	21490.12	20913.39	21156.58	1.41	ppb
Rhodium	103-1				91		%
Rhodium	103-2				85		%
Scandium	45-1				95		%
Scandium	45-2				88		%
Selenium	82-1	427.51	435.31	441.16	434.66	1.58	ppb
Selenium	77-2	478.88	463.89	450.47	464.41	3.06	ppb
Selenium	78-2	446.71	430.45	477.25	451.47	5.26	ppb
Silicon	28-1	563.81	595.25	595.81	584.96	3.13	ppb
Silver	107-1	175.42	175.31	278.26	209.66	28.33	ppb
Silver	109-1	236.67	224.06	258.73	239.82	7.32	ppb
Sodium	23-2	57414.42	57857.41	56803.62	57358.48	0.92	ppb
Strontium	86-1	546.42	577.04	571.82	565.09	2.90	ppb
Strontium	88-1	540.78	563.20	561.47	555.15	2.25	ppb
Sulfur	34-1	12019.61	12901.28	12934.28	12618.39	4.11	ppb
Terbium	159-1				96		%
Terbium	159-2				89		%
Thallium	203-1	422.47	442.00	436.21	433.56	2.31	ppb
Thallium	205-1	420.44	436.02	434.29	430.25	1.98	ppb
Tin	118-1	388.63	406.03	412.00	402.22	3.02	ppb
Titanium	47-1	5323.12	5588.41	5553.59	5488.37	2.63	ppb
Uranium	238-1	455.88	479.18	474.98	470.01	2.64	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	434.97	439.14	434.05	436.05	0.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	4518.46	4538.53	4525.50	4527.50	0.22	ppb
Zirconium	90-1	432.78	442.47	447.81	441.02	1.73	ppb
Zirconium	91-1	435.61	450.37	454.80	446.93	2.25	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8287.48	8240.81	8297.30	8275.20	0.36	ppb
Antimony	121-1	431.33	440.41	443.63	438.45	1.46	ppb
Arsenic	75-2	1.34	1.00	1.32	1.22	15.61	ppb
Barium	135-1	2006.40	2022.07	2080.52	2036.33	1.92	ppb
Barium	137-1	2001.73	2017.94	2098.05	2039.24	2.53	ppb
Beryllium	9-1	423.64	417.82	416.04	419.17	0.95	ppb
Bismuth	209-1				92		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	441.89	453.31	459.40	451.53	1.97	ppb
Cadmium	106-1	426.51	438.11	447.24	437.29	2.38	ppb
Cadmium	111-1	410.53	418.70	426.30	418.51	1.88	ppb
Calcium	43-1	53336.91	52273.17	52310.49	52640.19	1.15	ppb
Calcium	44-1	51560.40	50990.89	52558.14	51703.14	1.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	413.72	414.12	419.77	415.87	0.81	ppb
Cobalt	59-2	475.22	475.61	471.57	474.14	0.47	ppb
Copper	63-2	4702.03	4671.55	4716.55	4696.71	0.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				90		%
Indium	115-1				93		%
Indium	115-2				85		%
Iron	54-2	22358.27	22486.21	22380.47	22408.32	0.31	ppb
Iron	56-2	21943.97	21462.64	21998.95	21801.86	1.35	ppb
Iron	57-2	20644.42	20481.56	20677.46	20601.15	0.51	ppb
Krypton	83-1						cps
Lead	206-1	2267.66	2283.60	2216.93	2256.06	1.54	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2251.65	2285.04	2227.80	2254.83	1.28	ppb
Lead	208-1	2257.19	2279.59	2223.81	2253.53	1.25	ppb
Lithium	6-1				97		%
Magnesium	24-2	47669.20	47147.13	48122.70	47646.34	1.02	ppb
Manganese	55-2	4887.03	4881.01	4863.69	4877.24	0.25	ppb
Molybdenum	94-1	6617.07	6687.45	6649.15	6651.22	0.53	ppb
Molybdenum	95-1	7070.72	7206.23	7143.99	7140.31	0.95	ppb
Molybdenum	96-1	7103.11	7174.89	7104.08	7127.36	0.58	ppb
Molybdenum	97-1	7170.68	7245.21	7106.43	7174.11	0.97	ppb
Molybdenum	98-1	7154.71	7223.44	7202.61	7193.59	0.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.67	460.35	466.94	463.65	0.71	ppb
Phosphorus	31-2	-2.33	-8.59	-6.23	-5.72		ppb
Potassium	39-2	21597.89	20981.99	20787.69	21122.52	2.00	ppb
Rhodium	103-1				91		%
Rhodium	103-2				85		%
Scandium	45-1				95		%
Scandium	45-2				87		%
Selenium	82-1	439.84	439.67	428.99	436.17	1.43	ppb
Selenium	77-2	429.59	412.34	441.07	427.67	3.38	ppb
Selenium	78-2	444.69	429.89	462.08	445.55	3.62	ppb
Silicon	28-1	543.96	543.39	543.21	543.52	0.07	ppb
Silver	107-1	465.00	658.26	298.99	474.08	37.93	ppb
Silver	109-1	341.45	407.22	425.68	391.45	11.31	ppb
Sodium	23-2	56873.20	56558.74	57110.10	56847.35	0.49	ppb
Strontium	86-1	559.95	557.57	565.72	561.08	0.75	ppb
Strontium	88-1	556.02	556.44	554.08	555.52	0.23	ppb
Sulfur	34-1	14717.85	14790.41	14885.68	14797.98	0.57	ppb
Terbium	159-1				96		%
Terbium	159-2				90		%
Thallium	203-1	437.50	440.86	428.93	435.76	1.41	ppb
Thallium	205-1	429.33	436.03	427.26	430.87	1.06	ppb
Tin	118-1	398.31	401.06	407.60	402.32	1.19	ppb
Titanium	47-1	5435.33	5446.15	5498.77	5460.08	0.62	ppb
Uranium	238-1	460.81	475.36	462.83	466.34	1.69	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	437.03	432.07	437.21	435.44	0.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	4550.09	4540.22	4565.55	4551.95	0.28	ppb
Zirconium	90-1	440.19	450.24	445.04	445.16	1.13	ppb
Zirconium	91-1	446.55	453.26	448.67	449.49	0.76	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51116.34	51010.77	50336.67	50821.26	0.83	ppb
Antimony	121-1	499.87	505.57	511.87	505.77	1.19	ppb
Arsenic	75-2	500.66	494.59	493.64	496.30	0.77	ppb
Barium	135-1	2506.95	2487.79	2550.72	2515.16	1.28	ppb
Barium	137-1	2488.67	2527.10	2539.21	2518.33	1.05	ppb
Beryllium	9-1	492.02	499.81	498.79	496.87	0.85	ppb
Bismuth	209-1				81		%
Bismuth	209-2				74		%
Bromine	81-1						cps
Cadmium	108-1	479.25	484.11	489.97	484.45	1.11	ppb
Cadmium	106-1	488.31	490.78	492.21	490.43	0.40	ppb
Cadmium	111-1	456.88	459.95	465.66	460.83	0.97	ppb
Calcium	43-1	242828.14	246918.21	251347.38	247031.24	1.72	ppb
Calcium	44-1	245766.31	249656.63	252752.28	249391.74	1.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	488.75	490.76	486.82	488.78	0.40	ppb
Cobalt	59-2	508.73	511.82	519.34	513.30	1.06	ppb
Copper	63-2	4953.25	4996.57	5009.00	4986.27	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				83		%
Indium	115-1				83		%
Indium	115-2				76		%
Iron	54-2	129239.12	128356.96	129675.84	129090.64	0.52	ppb
Iron	56-2	128359.79	129138.61	129089.79	128862.73	0.34	ppb
Iron	57-2	128677.92	130114.68	129473.38	129421.99	0.56	ppb
Krypton	83-1						cps
Lead	206-1	2601.36	2576.97	2626.76	2601.70	0.96	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2605.99	2567.29	2614.39	2595.89	0.97	ppb
Lead	208-1	2584.14	2565.86	2607.70	2585.90	0.81	ppb
Lithium	6-1				86		%
Magnesium	24-2	253530.17	253585.80	253989.17	253701.71	0.10	ppb
Manganese	55-2	5268.73	5200.08	5209.39	5226.07	0.71	ppb
Molybdenum	94-1	5159.43	5169.22	5147.84	5158.83	0.21	ppb
Molybdenum	95-1	5102.50	5125.13	5096.09	5107.90	0.30	ppb
Molybdenum	96-1	5154.37	5165.82	5142.50	5154.23	0.23	ppb
Molybdenum	97-1	5117.17	5177.89	5152.83	5149.30	0.59	ppb
Molybdenum	98-1	5152.70	5146.54	5084.64	5127.96	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.67	496.22	495.92	496.94	0.30	ppb
Phosphorus	31-2	10444.26	10216.68	10133.26	10264.73	1.57	ppb
Potassium	39-2	125014.36	124809.22	125657.41	125160.33	0.35	ppb
Rhodium	103-1				79		%
Rhodium	103-2				73		%
Scandium	45-1				87		%
Scandium	45-2				79		%
Selenium	82-1	481.40	488.29	492.57	487.42	1.16	ppb
Selenium	77-2	526.80	464.50	486.58	492.63	6.41	ppb
Selenium	78-2	508.48	500.45	494.52	501.15	1.40	ppb
Silicon	28-1	600.38	610.30	617.56	609.41	1.41	ppb
Silver	107-1	477.60	481.80	488.19	482.53	1.11	ppb
Silver	109-1	481.49	482.08	488.76	484.11	0.83	ppb
Sodium	23-2	254317.11	254299.10	252621.90	253746.03	0.38	ppb
Strontium	86-1	512.66	513.66	522.02	516.11	1.00	ppb
Strontium	88-1	512.19	510.23	512.01	511.47	0.21	ppb
Sulfur	34-1	11470.33	11666.06	11771.25	11635.88	1.31	ppb
Terbium	159-1				89		%
Terbium	159-2				82		%
Thallium	203-1	520.81	520.72	524.40	521.98	0.40	ppb
Thallium	205-1	523.87	511.22	521.32	518.80	1.29	ppb
Tin	118-1	503.90	505.92	506.51	505.44	0.27	ppb
Titanium	47-1	5026.50	5117.77	5127.62	5090.63	1.10	ppb
Uranium	238-1	534.80	532.82	539.99	535.87	0.69	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.64	502.25	496.63	499.84	0.58	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				79		%
Zinc	66-2	4721.77	4777.95	4746.87	4748.86	0.59	ppb
Zirconium	90-1	514.96	519.97	516.72	517.21	0.49	ppb
Zirconium	91-1	525.40	525.45	519.62	523.49	0.64	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.26	0.06	0.97	0.76	81.66	ppb
Antimony	121-1	0.13	0.14	0.13	0.13	4.80	ppb
Arsenic	75-2	-0.01	-0.01	0.01	0.00		ppb
Barium	135-1	0.34	0.32	0.31	0.32	4.65	ppb
Barium	137-1	0.34	0.32	0.34	0.33	4.34	ppb
Beryllium	9-1	0.20	0.18	0.17	0.18	8.38	ppb
Bismuth	209-1				92		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.25	0.07	0.41	0.24	70.95	ppb
Cadmium	106-1	-0.09	-1.15	-0.46	-0.57		ppb
Cadmium	111-1	0.03	0.00	0.01	0.01	142.62	ppb
Calcium	43-1	1.80	3.64	1.98	2.47	41.08	ppb
Calcium	44-1	3.14	1.46	2.81	2.47	36.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	-0.01	-0.01	0.00	631.27	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	14.13	ppb
Copper	63-2	0.37	0.35	0.16	0.30	39.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				90		%
Indium	115-1				92		%
Indium	115-2				88		%
Iron	54-2	4.19	2.64	3.96	3.60	23.27	ppb
Iron	56-2	4.25	3.43	2.17	3.28	31.84	ppb
Iron	57-2	1.34	2.36	0.42	1.37	70.49	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.19	0.22	0.20	8.89	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.20	0.18	0.19	5.25	ppb
Lead	208-1	0.21	0.19	0.20	0.20	3.56	ppb
Lithium	6-1				93		%
Magnesium	24-2	4.21	3.24	2.54	3.33	25.20	ppb
Manganese	55-2	0.59	0.35	0.28	0.41	39.75	ppb
Molybdenum	94-1	0.21	0.18	0.19	0.20	7.59	ppb
Molybdenum	95-1	0.25	0.19	0.17	0.21	19.84	ppb
Molybdenum	96-1	0.24	0.19	0.19	0.20	13.08	ppb
Molybdenum	97-1	0.18	0.18	0.20	0.19	7.83	ppb
Molybdenum	98-1	0.20	0.19	0.16	0.18	8.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.19	0.14	0.01	0.11	84.95	ppb
Phosphorus	31-2	-26.59	-33.88	-33.16	-31.21		ppb
Potassium	39-2	25.62	17.32	4.03	15.66	69.54	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				90		%
Scandium	45-2				85		%
Selenium	82-1	-0.29	-0.52	-0.32	-0.38		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	0.12	-0.43	-0.36		ppb
Silicon	28-1	0.06	-0.10	0.28	0.08	251.37	ppb
Silver	107-1	0.14	0.12	0.10	0.12	16.42	ppb
Silver	109-1	0.12	0.12	0.11	0.12	7.23	ppb
Sodium	23-2	31.19	24.29	12.74	22.74	40.98	ppb
Strontium	86-1	0.01	0.01	0.03	0.02	55.47	ppb
Strontium	88-1	0.01	0.00	0.01	0.01	37.12	ppb
Sulfur	34-1	-467.26	-558.04	-177.24	-400.85		ppb
Terbium	159-1				91		%
Terbium	159-2				90		%
Thallium	203-1	0.06	0.06	0.05	0.06	9.26	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	5.70	ppb
Tin	118-1	0.05	0.03	0.04	0.04	17.52	ppb
Titanium	47-1	0.12	0.12	0.16	0.14	16.39	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	14.39	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.01	0.01	0.01	24.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				88		%
Zinc	66-2	0.47	0.48	0.45	0.46	4.14	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	22.18	ppb
Zirconium	91-1	0.02	0.02	0.03	0.02	26.55	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.12	-0.23	-0.13	-0.08		ppb
Antimony	121-1	0.05	0.05	0.04	0.05	14.44	ppb
Arsenic	75-2	0.05	0.01	0.01	0.02	98.08	ppb
Barium	135-1	0.21	0.16	0.17	0.18	14.64	ppb
Barium	137-1	0.15	0.17	0.17	0.17	8.47	ppb
Beryllium	9-1	0.11	0.11	0.11	0.11	0.83	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.03	0.24	0.20	75.35	ppb
Cadmium	106-1	0.54	-1.18	-0.97	-0.54		ppb
Cadmium	111-1	0.02	-0.01	-0.01	0.00		ppb
Calcium	43-1	-1.43	-3.48	-1.76	-2.22		ppb
Calcium	44-1	-1.20	-1.71	-2.03	-1.65		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.00	0.01	0.01	172.35	ppb
Cobalt	59-2	-0.01	0.01	0.01	0.00	288.07	ppb
Copper	63-2	0.15	0.18	0.17	0.16	10.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				90		%
Indium	115-1				93		%
Indium	115-2				87		%
Iron	54-2	-0.27	0.41	-0.17	-0.01		ppb
Iron	56-2	0.29	-0.24	-0.07	-0.01		ppb
Iron	57-2	-1.41	-1.95	-1.31	-1.56		ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.11	0.10	0.11	16.00	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.12	0.09	0.11	11.73	ppb
Lead	208-1	0.11	0.11	0.10	0.11	4.66	ppb
Lithium	6-1				94		%
Magnesium	24-2	-1.04	-0.78	-1.59	-1.14		ppb
Manganese	55-2	0.26	0.27	0.18	0.24	21.01	ppb
Molybdenum	94-1	0.07	0.05	0.06	0.06	16.60	ppb
Molybdenum	95-1	0.06	0.04	0.04	0.05	32.33	ppb
Molybdenum	96-1	0.05	0.03	0.05	0.04	28.80	ppb
Molybdenum	97-1	0.05	0.05	0.03	0.04	24.20	ppb
Molybdenum	98-1	0.06	0.04	0.04	0.05	20.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	-0.04	0.13	0.05	167.31	ppb
Phosphorus	31-2	-27.72	-34.09	-23.50	-28.44		ppb
Potassium	39-2	12.02	10.13	13.38	11.84	13.78	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				91		%
Scandium	45-2				83		%
Selenium	82-1	-0.20	-0.33	-0.50	-0.34		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.34	-0.79	-0.34	-0.49		ppb
Silicon	28-1	-0.32	-0.36	-0.31	-0.33		ppb
Silver	107-1	0.05	0.03	0.04	0.04	17.32	ppb
Silver	109-1	0.04	0.04	0.04	0.04	4.97	ppb
Sodium	23-2	12.91	12.47	13.77	13.05	5.09	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	143.09	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	164.26	ppb
Sulfur	34-1	-568.43	-553.63	-452.49	-524.85		ppb
Terbium	159-1				92		%
Terbium	159-2				88		%
Thallium	203-1	0.03	0.03	0.04	0.03	14.37	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.45	ppb
Tin	118-1	0.01	0.01	0.01	0.01	14.66	ppb
Titanium	47-1	0.02	0.05	0.00	0.02	100.55	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	109.71	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.01	0.00	177.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				84		%
Zinc	66-2	0.13	0.15	0.06	0.11	43.41	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	66.47	ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	184.39	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9149.05	9021.00	9125.97	9098.67	0.75	ppb
Antimony	121-1	487.76	504.99	507.46	500.07	2.15	ppb
Arsenic	75-2	496.77	490.98	487.89	491.88	0.92	ppb
Barium	135-1	2392.75	2484.12	2460.44	2445.77	1.94	ppb
Barium	137-1	2394.44	2461.30	2488.82	2448.19	1.98	ppb
Beryllium	9-1	457.70	466.42	466.91	463.68	1.12	ppb
Bismuth	209-1				90		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	477.56	497.40	494.23	489.73	2.18	ppb
Cadmium	106-1	479.94	494.35	504.44	492.91	2.50	ppb
Cadmium	111-1	459.23	480.77	483.44	474.48	2.80	ppb
Calcium	43-1	47100.73	49956.38	48823.41	48626.84	2.96	ppb
Calcium	44-1	46963.53	49047.20	48014.11	48008.28	2.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	481.67	477.92	482.01	480.53	0.47	ppb
Cobalt	59-2	518.31	520.14	517.53	518.66	0.26	ppb
Copper	63-2	5217.81	5154.23	5154.54	5175.52	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				89		%
Indium	115-1				90		%
Indium	115-2				84		%
Iron	54-2	26020.92	26079.21	26222.57	26107.57	0.40	ppb
Iron	56-2	25544.52	25222.55	25357.54	25374.87	0.64	ppb
Iron	57-2	24218.74	23954.16	24287.47	24153.45	0.73	ppb
Krypton	83-1						cps
Lead	206-1	2361.31	2460.23	2465.58	2429.04	2.42	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2374.12	2464.90	2457.41	2432.14	2.07	ppb
Lead	208-1	2357.24	2457.92	2452.24	2422.47	2.33	ppb
Lithium	6-1				93		%
Magnesium	24-2	49564.18	48721.09	50040.18	49441.81	1.35	ppb
Manganese	55-2	5037.38	5066.55	5143.41	5082.45	1.08	ppb
Molybdenum	94-1	4762.59	4811.24	4925.88	4833.24	1.73	ppb
Molybdenum	95-1	4718.36	4771.88	4867.48	4785.90	1.58	ppb
Molybdenum	96-1	4688.58	4834.64	4869.38	4797.53	2.00	ppb
Molybdenum	97-1	4734.36	4845.21	4915.84	4831.80	1.89	ppb
Molybdenum	98-1	4731.20	4804.53	4842.48	4792.74	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	515.18	511.93	513.39	513.50	0.32	ppb
Phosphorus	31-2	9987.95	9559.07	10000.37	9849.13	2.55	ppb
Potassium	39-2	24173.23	23998.19	24794.99	24322.14	1.72	ppb
Rhodium	103-1				88		%
Rhodium	103-2				84		%
Scandium	45-1				91		%
Scandium	45-2				84		%
Selenium	82-1	472.89	485.29	494.07	484.08	2.20	ppb
Selenium	77-2	506.77	470.14	474.66	483.85	4.13	ppb
Selenium	78-2	494.24	485.77	470.47	483.49	2.49	ppb
Silicon	28-1	522.05	545.16	543.06	536.76	2.38	ppb
Silver	107-1	491.79	505.04	509.79	502.21	1.86	ppb
Silver	109-1	494.03	506.73	512.18	504.31	1.85	ppb
Sodium	23-2	49378.23	48723.40	49616.77	49239.47	0.94	ppb
Strontium	86-1	472.88	484.10	499.84	485.61	2.79	ppb
Strontium	88-1	478.01	486.20	491.26	485.16	1.38	ppb
Sulfur	34-1	10587.67	11138.27	11011.32	10912.42	2.64	ppb
Terbium	159-1				93		%
Terbium	159-2				88		%
Thallium	203-1	469.71	490.76	492.49	484.32	2.62	ppb
Thallium	205-1	471.46	483.54	489.21	481.40	1.88	ppb
Tin	118-1	486.24	501.77	508.93	498.98	2.32	ppb
Titanium	47-1	4737.49	4901.63	4786.50	4808.54	1.75	ppb
Uranium	238-1	468.44	485.66	483.11	479.07	1.94	ppb

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	478.49	477.24	480.91	478.88	0.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				84		%
Zinc	66-2	4990.45	4958.65	4986.93	4978.68	0.35	ppb
Zirconium	90-1	478.44	481.76	495.54	485.25	1.87	ppb
Zirconium	91-1	482.40	488.68	497.19	489.43	1.52	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3726.01	3774.37	3760.38	3753.58	0.66	ppb
Antimony	121-1	0.18	0.17	0.17	0.17	4.50	ppb
Arsenic	75-2	0.66	0.66	0.90	0.74	18.82	ppb
Barium	135-1	18.52	18.81	18.77	18.70	0.83	ppb
Barium	137-1	18.53	19.15	19.11	18.93	1.83	ppb
Beryllium	9-1	0.31	0.27	0.28	0.29	7.38	ppb
Bismuth	209-1				94		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	1.45	1.48	1.85	1.59	14.23	ppb
Cadmium	106-1	1.31	2.15	2.02	1.83	24.74	ppb
Cadmium	111-1	0.02	0.02	-0.03	0.00	597.47	ppb
Calcium	43-1	62.52	60.13	59.51	60.72	2.62	ppb
Calcium	44-1	63.78	64.80	63.29	63.96	1.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.23	9.22	9.52	9.32	1.85	ppb
Cobalt	59-2	0.36	0.34	0.38	0.36	5.47	ppb
Copper	63-2	6.79	6.84	6.79	6.80	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				88		%
Indium	115-1				94		%
Indium	115-2				86		%
Iron	54-2	5646.12	5696.53	5694.76	5679.14	0.50	ppb
Iron	56-2	5978.45	6002.88	5993.35	5991.56	0.21	ppb
Iron	57-2	5636.62	5765.23	5714.83	5705.56	1.14	ppb
Krypton	83-1						cps
Lead	206-1	4.07	4.07	4.04	4.06	0.47	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.84	3.80	3.84	3.82	0.57	ppb
Lead	208-1	3.96	3.90	3.93	3.93	0.77	ppb
Lithium	6-1				95		%
Magnesium	24-2	56.54	58.38	56.44	57.12	1.91	ppb
Manganese	55-2	8.77	9.19	9.47	9.14	3.88	ppb
Molybdenum	94-1	19.82	20.15	20.18	20.05	1.01	ppb
Molybdenum	95-1	0.47	0.42	0.40	0.43	8.82	ppb
Molybdenum	96-1	2.48	2.50	2.47	2.48	0.76	ppb
Molybdenum	97-1	0.47	0.41	0.43	0.44	6.01	ppb
Molybdenum	98-1	0.44	0.44	0.34	0.41	14.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.92	0.92	1.02	0.95	5.67	ppb
Phosphorus	31-2	39.41	44.71	49.17	44.43	11.00	ppb
Potassium	39-2	279.76	267.28	266.94	271.33	2.69	ppb
Rhodium	103-1				93		%
Rhodium	103-2				88		%
Scandium	45-1				95		%
Scandium	45-2				84		%
Selenium	82-1	-0.18	-0.20	-0.14	-0.18		ppb
Selenium	77-2	5.76	10.13	8.76	8.22	27.24	ppb
Selenium	78-2	3.58	2.29	-0.34	1.84	108.57	ppb
Silicon	28-1	164.33	166.31	164.55	165.06	0.66	ppb
Silver	107-1	0.09	0.08	0.07	0.08	12.69	ppb
Silver	109-1	0.08	0.06	0.06	0.07	17.42	ppb
Sodium	23-2	64.40	64.93	66.60	65.31	1.76	ppb
Strontium	86-1	0.78	0.77	0.73	0.76	3.67	ppb
Strontium	88-1	0.77	0.79	0.75	0.77	2.22	ppb
Sulfur	34-1	-602.07	-608.18	-648.35	-619.53		ppb
Terbium	159-1				94		%
Terbium	159-2				89		%
Thallium	203-1	0.11	0.09	0.10	0.10	8.79	ppb
Thallium	205-1	0.12	0.10	0.10	0.11	8.28	ppb
Tin	118-1	0.07	0.07	0.10	0.08	19.81	ppb
Titanium	47-1	24.94	24.97	24.37	24.76	1.36	ppb
Uranium	238-1	1.05	1.06	1.03	1.05	1.18	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	11.52	11.66	11.28	11.49	1.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				85		%
Zinc	66-2	5.62	6.08	5.12	5.61	8.54	ppb
Zirconium	90-1	10.73	10.97	10.70	10.80	1.36	ppb
Zirconium	91-1	10.79	11.09	10.69	10.86	1.91	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3786.81	3813.56	3796.83	3799.07	0.36	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	3.57	ppb
Arsenic	75-2	0.73	1.14	0.94	0.93	21.87	ppb
Barium	135-1	18.50	18.29	18.49	18.43	0.62	ppb
Barium	137-1	18.90	18.41	18.84	18.72	1.41	ppb
Beryllium	9-1	0.21	0.20	0.21	0.21	1.67	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	1.56	1.46	1.37	1.46	6.44	ppb
Cadmium	106-1	0.47	1.59	0.84	0.97	58.95	ppb
Cadmium	111-1	-0.04	-0.02	-0.03	-0.03		ppb
Calcium	43-1	80.57	77.18	78.60	78.78	2.16	ppb
Calcium	44-1	82.44	83.65	86.26	84.12	2.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.23	9.36	9.03	9.20	1.81	ppb
Cobalt	59-2	0.33	0.35	0.36	0.34	4.53	ppb
Copper	63-2	6.58	6.54	6.71	6.61	1.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				88		%
Indium	115-1				93		%
Indium	115-2				86		%
Iron	54-2	5657.67	5684.95	5643.80	5662.14	0.37	ppb
Iron	56-2	5943.07	6065.19	5885.83	5964.70	1.54	ppb
Iron	57-2	5591.41	5725.61	5616.73	5644.59	1.26	ppb
Krypton	83-1						cps
Lead	206-1	3.85	3.85	3.93	3.88	1.22	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.66	3.71	3.64	3.67	0.97	ppb
Lead	208-1	3.77	3.80	3.80	3.79	0.41	ppb
Lithium	6-1				94		%
Magnesium	24-2	57.29	58.39	56.61	57.43	1.56	ppb
Manganese	55-2	8.65	9.18	8.87	8.90	2.98	ppb
Molybdenum	94-1	19.39	19.95	19.76	19.70	1.44	ppb
Molybdenum	95-1	0.26	0.25	0.22	0.24	8.56	ppb
Molybdenum	96-1	2.38	2.24	2.23	2.28	3.61	ppb
Molybdenum	97-1	0.26	0.28	0.22	0.25	12.36	ppb
Molybdenum	98-1	0.25	0.22	0.22	0.23	7.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.88	1.02	0.89	0.93	8.78	ppb
Phosphorus	31-2	52.41	62.99	51.51	55.64	11.48	ppb
Potassium	39-2	263.44	267.14	263.18	264.59	0.84	ppb
Rhodium	103-1				92		%
Rhodium	103-2				86		%
Scandium	45-1				93		%
Scandium	45-2				84		%
Selenium	82-1	-0.43	-0.33	-0.45	-0.41		ppb
Selenium	77-2	7.26	10.24	5.82	7.77	28.98	ppb
Selenium	78-2	0.98	1.88	0.98	1.28	40.62	ppb
Silicon	28-1	164.41	168.53	167.83	166.92	1.32	ppb
Silver	107-1	0.03	0.04	0.03	0.04	17.65	ppb
Silver	109-1	0.02	0.02	0.02	0.02	7.37	ppb
Sodium	23-2	57.34	60.07	60.92	59.44	3.14	ppb
Strontium	86-1	0.73	0.74	0.80	0.76	5.05	ppb
Strontium	88-1	0.77	0.76	0.78	0.77	1.27	ppb
Sulfur	34-1	-660.97	-705.89	-653.16	-673.34		ppb
Terbium	159-1				94		%
Terbium	159-2				87		%
Thallium	203-1	0.09	0.09	0.08	0.09	7.25	ppb
Thallium	205-1	0.08	0.07	0.08	0.08	6.18	ppb
Tin	118-1	0.07	0.05	0.05	0.06	20.57	ppb
Titanium	47-1	24.15	24.14	24.99	24.43	2.00	ppb
Uranium	238-1	1.02	1.03	1.05	1.03	1.45	ppb

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	11.26	11.13	11.45	11.28	1.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				84		%
Zinc	66-2	6.43	6.80	6.66	6.63	2.84	ppb
Zirconium	90-1	10.64	10.84	10.58	10.69	1.23	ppb
Zirconium	91-1	10.66	10.55	10.37	10.53	1.36	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	744.40	771.64	759.38	758.47	1.80	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	3.47	ppb
Arsenic	75-2	0.10	0.05	0.18	0.11	58.85	ppb
Barium	135-1	3.93	3.79	3.90	3.87	1.94	ppb
Barium	137-1	3.92	3.88	3.86	3.89	0.79	ppb
Beryllium	9-1	0.09	0.09	0.10	0.09	2.84	ppb
Bismuth	209-1				93		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.25	0.25	0.54	0.35	47.95	ppb
Cadmium	106-1	-0.94	-1.30	-1.47	-1.23		ppb
Cadmium	111-1	-0.01	-0.04	-0.05	-0.04		ppb
Calcium	43-1	13.18	13.07	13.96	13.40	3.60	ppb
Calcium	44-1	13.77	13.47	13.99	13.74	1.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.78	1.86	1.78	1.81	2.70	ppb
Cobalt	59-2	0.10	0.08	0.05	0.08	30.73	ppb
Copper	63-2	1.35	1.40	1.40	1.39	2.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				88		%
Indium	115-1				92		%
Indium	115-2				86		%
Iron	54-2	1122.56	1139.79	1134.97	1132.44	0.78	ppb
Iron	56-2	1200.45	1216.32	1191.16	1202.65	1.06	ppb
Iron	57-2	1111.67	1144.18	1131.05	1128.96	1.45	ppb
Krypton	83-1						cps
Lead	206-1	0.81	0.82	0.86	0.83	3.19	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.81	0.81	0.81	0.81	0.47	ppb
Lead	208-1	0.80	0.80	0.82	0.81	1.31	ppb
Lithium	6-1				93		%
Magnesium	24-2	11.53	10.90	11.53	11.32	3.23	ppb
Manganese	55-2	1.96	1.98	1.97	1.97	0.56	ppb
Molybdenum	94-1	3.93	3.92	3.99	3.95	0.95	ppb
Molybdenum	95-1	0.06	0.05	0.06	0.06	9.54	ppb
Molybdenum	96-1	0.45	0.44	0.45	0.45	0.85	ppb
Molybdenum	97-1	0.05	0.05	0.06	0.05	16.77	ppb
Molybdenum	98-1	0.05	0.05	0.04	0.05	15.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.30	0.17	0.11	0.20	48.96	ppb
Phosphorus	31-2	-13.07	-2.28	-10.91	-8.75		ppb
Potassium	39-2	54.18	60.26	57.67	57.37	5.32	ppb
Rhodium	103-1				91		%
Rhodium	103-2				86		%
Scandium	45-1				90		%
Scandium	45-2				83		%
Selenium	82-1	-0.50	-0.46	-0.01	-0.33		ppb
Selenium	77-2	7.33	5.94	0.00	4.42	88.02	ppb
Selenium	78-2	0.10	0.57	-0.34	0.11	408.40	ppb
Silicon	28-1	33.57	32.80	33.78	33.38	1.54	ppb
Silver	107-1	0.01	0.01	0.01	0.01	12.67	ppb
Silver	109-1	0.01	0.01	0.01	0.01	46.44	ppb
Sodium	23-2	16.89	15.27	16.39	16.18	5.13	ppb
Strontium	86-1	0.14	0.15	0.16	0.15	5.91	ppb
Strontium	88-1	0.16	0.15	0.16	0.15	2.08	ppb
Sulfur	34-1	-806.98	-782.39	-766.25	-785.20		ppb
Terbium	159-1				92		%
Terbium	159-2				88		%
Thallium	203-1	0.02	0.03	0.03	0.03	15.72	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	5.68	ppb
Tin	118-1	0.02	0.02	0.02	0.02	6.38	ppb
Titanium	47-1	4.75	4.95	5.02	4.90	2.87	ppb
Uranium	238-1	0.21	0.21	0.22	0.21	1.67	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.26	2.33	2.15	2.25	3.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				83		%
Zinc	66-2	1.17	1.07	1.31	1.18	9.90	ppb
Zirconium	90-1	2.12	2.15	2.24	2.17	2.77	ppb
Zirconium	91-1	2.08	2.04	2.16	2.09	2.91	ppb

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4978.77	4995.59	5035.65	5003.34	0.58	ppb
Antimony	121-1	82.37	84.26	84.51	83.71	1.40	ppb
Arsenic	75-2	0.84	0.62	0.83	0.76	16.53	ppb
Barium	135-1	390.32	400.78	402.74	397.95	1.68	ppb
Barium	137-1	418.03	431.28	427.05	425.45	1.59	ppb
Beryllium	9-1	79.23	79.38	79.76	79.46	0.34	ppb
Bismuth	209-1				92		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	92.02	93.20	93.66	92.96	0.91	ppb
Cadmium	106-1	89.28	90.51	90.38	90.06	0.75	ppb
Cadmium	111-1	82.80	84.91	86.05	84.59	1.95	ppb
Calcium	43-1	8006.21	8168.25	8211.02	8128.50	1.33	ppb
Calcium	44-1	8343.78	8418.58	8477.68	8413.35	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	91.46	90.52	91.32	91.10	0.56	ppb
Cobalt	59-2	87.61	86.86	87.16	87.21	0.43	ppb
Copper	63-2	1000.99	977.30	985.80	988.03	1.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				89		%
Indium	115-1				92		%
Indium	115-2				85		%
Iron	54-2	9158.21	9167.93	9291.91	9206.02	0.81	ppb
Iron	56-2	9693.31	9706.19	9710.80	9703.43	0.09	ppb
Iron	57-2	9139.67	9155.11	9190.81	9161.86	0.29	ppb
Krypton	83-1						cps
Lead	206-1	446.05	463.46	456.89	455.46	1.93	ppb

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	449.31	463.04	460.09	457.48	1.58	ppb
Lead	208-1	444.06	458.08	451.57	451.24	1.56	ppb
Lithium	6-1				93		%
Magnesium	24-2	8842.03	9036.38	9160.14	9012.85	1.78	ppb
Manganese	55-2	882.36	881.86	884.12	882.78	0.13	ppb
Molybdenum	94-1	1320.38	1342.43	1346.27	1336.36	1.05	ppb
Molybdenum	95-1	1414.00	1425.22	1409.02	1416.08	0.59	ppb
Molybdenum	96-1	1405.24	1418.31	1416.16	1413.23	0.50	ppb
Molybdenum	97-1	1420.61	1427.65	1451.24	1433.17	1.12	ppb
Molybdenum	98-1	1419.60	1436.34	1428.93	1428.29	0.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	94.08	95.23	94.21	94.50	0.67	ppb
Phosphorus	31-2	40.44	40.12	34.13	38.23	9.30	ppb
Potassium	39-2	4000.14	4022.88	3989.01	4004.01	0.43	ppb
Rhodium	103-1				90		%
Rhodium	103-2				85		%
Scandium	45-1				92		%
Scandium	45-2				84		%
Selenium	82-1	84.28	86.11	86.80	85.73	1.52	ppb
Selenium	77-2	99.88	96.67	89.75	95.43	5.42	ppb
Selenium	78-2	82.53	93.30	87.47	87.77	6.15	ppb
Silicon	28-1	149.23	152.49	155.85	152.52	2.17	ppb
Silver	107-1	34.23	38.01	40.46	37.57	8.35	ppb
Silver	109-1	36.50	40.55	48.37	41.81	14.43	ppb
Sodium	23-2	8710.13	8622.98	8737.16	8690.09	0.69	ppb
Strontium	86-1	94.06	95.51	96.20	95.26	1.15	ppb
Strontium	88-1	101.10	100.50	101.76	101.12	0.62	ppb
Sulfur	34-1	-732.50	-647.43	-662.03	-680.66		ppb
Terbium	159-1				93		%
Terbium	159-2				88		%
Thallium	203-1	78.77	79.73	80.71	79.73	1.22	ppb
Thallium	205-1	85.03	85.96	86.82	85.94	1.04	ppb
Tin	118-1	74.98	76.68	77.35	76.34	1.60	ppb
Titanium	47-1	1114.36	1126.14	1130.19	1123.56	0.73	ppb
Uranium	238-1	88.61	90.24	89.47	89.44	0.91	ppb

Reviewed By:Mohan
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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	96.00	96.04	95.87	95.97	0.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				85		%
Zinc	66-2	926.91	927.52	928.36	927.60	0.08	ppb
Zirconium	90-1	98.71	99.92	99.83	99.49	0.68	ppb
Zirconium	91-1	90.88	92.58	93.32	92.26	1.36	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4966.86	4985.28	5063.82	5005.32	1.03	ppb
Antimony	121-1	86.87	85.67	83.18	85.24	2.21	ppb
Arsenic	75-2	0.82	0.70	0.64	0.72	13.13	ppb
Barium	135-1	412.06	402.42	392.36	402.28	2.45	ppb
Barium	137-1	446.33	432.45	420.10	432.96	3.03	ppb
Beryllium	9-1	81.25	80.99	78.70	80.31	1.75	ppb
Bismuth	209-1				92		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	98.97	94.66	92.89	95.50	3.28	ppb
Cadmium	106-1	93.89	92.05	87.15	91.03	3.83	ppb
Cadmium	111-1	87.85	85.89	84.31	86.02	2.07	ppb
Calcium	43-1	8313.94	8082.98	8234.08	8210.33	1.43	ppb
Calcium	44-1	8763.15	8351.91	8581.52	8565.53	2.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	91.17	90.19	92.25	91.20	1.13	ppb
Cobalt	59-2	86.38	86.32	88.21	86.97	1.23	ppb
Copper	63-2	983.46	969.91	990.21	981.19	1.05	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				89		%
Indium	115-1				91		%
Indium	115-2				86		%
Iron	54-2	9180.01	9100.19	9303.94	9194.71	1.12	ppb
Iron	56-2	9645.82	9520.36	9640.15	9602.11	0.74	ppb
Iron	57-2	9159.20	9090.90	9303.35	9184.48	1.18	ppb
Krypton	83-1						cps
Lead	206-1	470.73	454.39	450.05	458.39	2.38	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	468.33	459.50	449.45	459.10	2.06	ppb
Lead	208-1	463.60	450.88	448.55	454.34	1.78	ppb
Lithium	6-1				93		%
Magnesium	24-2	8979.87	8756.76	9169.06	8968.57	2.30	ppb
Manganese	55-2	881.51	870.74	890.40	880.88	1.12	ppb
Molybdenum	94-1	1384.68	1342.14	1298.82	1341.88	3.20	ppb
Molybdenum	95-1	1444.91	1409.18	1369.98	1408.02	2.66	ppb
Molybdenum	96-1	1423.34	1387.07	1388.57	1399.66	1.47	ppb
Molybdenum	97-1	1446.80	1408.95	1407.66	1421.14	1.56	ppb
Molybdenum	98-1	1440.95	1420.93	1399.16	1420.35	1.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	92.83	92.42	94.28	93.17	1.05	ppb
Phosphorus	31-2	33.48	28.96	57.48	39.97	38.35	ppb
Potassium	39-2	3962.44	3954.18	4027.38	3981.33	1.01	ppb
Rhodium	103-1				90		%
Rhodium	103-2				86		%
Scandium	45-1				91		%
Scandium	45-2				85		%
Selenium	82-1	89.35	86.14	84.79	86.76	2.71	ppb
Selenium	77-2	119.23	90.24	92.37	100.61	16.06	ppb
Selenium	78-2	92.89	79.15	95.52	89.19	9.85	ppb
Silicon	28-1	158.61	150.63	155.58	154.94	2.60	ppb
Silver	107-1	33.92	52.02	32.28	39.41	27.80	ppb
Silver	109-1	34.84	46.31	45.47	42.21	15.15	ppb
Sodium	23-2	8721.07	8498.83	8737.94	8652.61	1.54	ppb
Strontium	86-1	98.68	95.05	94.61	96.12	2.32	ppb
Strontium	88-1	104.28	102.35	100.76	102.46	1.72	ppb
Sulfur	34-1	-508.29	-704.92	-644.06	-619.09		ppb
Terbium	159-1				92		%
Terbium	159-2				88		%
Thallium	203-1	81.50	78.65	79.67	79.94	1.81	ppb
Thallium	205-1	86.55	83.86	83.98	84.79	1.80	ppb
Tin	118-1	79.02	77.67	76.12	77.60	1.87	ppb
Titanium	47-1	1169.27	1114.85	1130.45	1138.19	2.46	ppb
Uranium	238-1	92.31	89.94	89.47	90.58	1.68	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	95.79	94.26	95.91	95.32	0.97	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				86		%
Zinc	66-2	922.09	911.74	937.35	923.73	1.39	ppb
Zirconium	90-1	100.82	98.89	98.18	99.29	1.37	ppb
Zirconium	91-1	93.73	91.25	91.12	92.03	1.60	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5158.29	4967.71	4989.29	5038.43	2.07	ppb
Antimony	121-1	83.63	82.84	84.72	83.73	1.13	ppb
Arsenic	75-2	0.62	0.70	0.73	0.68	8.36	ppb
Barium	135-1	397.67	390.41	398.70	395.59	1.14	ppb
Barium	137-1	428.05	414.13	415.65	419.28	1.82	ppb
Beryllium	9-1	78.02	78.46	79.43	78.64	0.91	ppb
Bismuth	209-1				94		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	93.06	92.43	93.90	93.13	0.79	ppb
Cadmium	106-1	92.64	88.60	90.68	90.64	2.23	ppb
Cadmium	111-1	83.83	84.32	84.39	84.18	0.37	ppb
Calcium	43-1	8059.00	8022.04	8209.19	8096.74	1.22	ppb
Calcium	44-1	8409.34	8268.49	8459.21	8379.01	1.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	92.51	88.53	89.90	90.32	2.24	ppb
Cobalt	59-2	88.23	85.00	86.47	86.56	1.87	ppb
Copper	63-2	998.01	957.66	966.28	973.99	2.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				90		%
Indium	115-1				93		%
Indium	115-2				87		%
Iron	54-2	9302.87	9018.41	9157.28	9159.52	1.55	ppb
Iron	56-2	9656.48	9374.50	9511.90	9514.29	1.48	ppb
Iron	57-2	9268.63	9020.70	9112.92	9134.09	1.37	ppb
Krypton	83-1						cps
Lead	206-1	447.33	444.98	451.40	447.90	0.73	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	459.07	446.10	459.32	454.83	1.66	ppb
Lead	208-1	451.97	441.97	451.83	448.59	1.28	ppb
Lithium	6-1				95		%
Magnesium	24-2	9271.71	8753.46	8907.33	8977.50	2.96	ppb
Manganese	55-2	897.29	857.02	880.69	878.33	2.30	ppb
Molybdenum	94-1	1344.45	1316.34	1318.82	1326.54	1.17	ppb
Molybdenum	95-1	1387.74	1386.57	1386.80	1387.04	0.04	ppb
Molybdenum	96-1	1378.27	1382.13	1382.75	1381.05	0.18	ppb
Molybdenum	97-1	1426.64	1403.45	1404.12	1411.40	0.94	ppb
Molybdenum	98-1	1416.13	1389.67	1396.37	1400.72	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	95.62	91.64	93.17	93.48	2.14	ppb
Phosphorus	31-2	46.82	23.58	36.60	35.67	32.66	ppb
Potassium	39-2	4072.75	3915.26	3951.14	3979.72	2.07	ppb
Rhodium	103-1				93		%
Rhodium	103-2				87		%
Scandium	45-1				94		%
Scandium	45-2				86		%
Selenium	82-1	84.66	81.35	87.09	84.37	3.42	ppb
Selenium	77-2	125.77	80.25	90.36	98.80	24.19	ppb
Selenium	78-2	95.68	93.17	90.01	92.95	3.06	ppb
Silicon	28-1	151.90	160.08	152.98	154.99	2.87	ppb
Silver	107-1	87.14	110.07	90.56	95.92	12.89	ppb
Silver	109-1	88.93	88.37	86.55	87.95	1.41	ppb
Sodium	23-2	9002.90	8541.43	8507.94	8684.09	3.19	ppb
Strontium	86-1	93.11	94.72	93.65	93.83	0.88	ppb
Strontium	88-1	101.59	99.82	101.06	100.82	0.90	ppb
Sulfur	34-1	-704.77	-777.07	-691.28	-724.38		ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	78.67	77.29	79.10	78.35	1.21	ppb
Thallium	205-1	84.71	83.70	85.70	84.71	1.18	ppb
Tin	118-1	76.02	75.58	76.96	76.19	0.92	ppb
Titanium	47-1	1109.94	1113.44	1109.80	1111.06	0.19	ppb
Uranium	238-1	90.22	89.35	89.06	89.54	0.67	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	96.55	92.86	94.76	94.73	1.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				86		%
Zinc	66-2	938.14	905.51	920.82	921.49	1.77	ppb
Zirconium	90-1	96.71	97.93	98.02	97.55	0.75	ppb
Zirconium	91-1	89.98	90.52	90.50	90.33	0.34	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50765.14	52254.99	51136.03	51385.39	1.51	ppb
Antimony	121-1	519.20	514.95	517.47	517.21	0.41	ppb
Arsenic	75-2	494.14	499.65	498.25	497.34	0.58	ppb
Barium	135-1	2602.55	2534.64	2602.84	2580.01	1.52	ppb
Barium	137-1	2625.49	2565.12	2610.92	2600.51	1.21	ppb
Beryllium	9-1	506.62	495.40	491.57	497.87	1.57	ppb
Bismuth	209-1				79		%
Bismuth	209-2				76		%
Bromine	81-1						cps
Cadmium	108-1	497.91	490.01	502.33	496.75	1.26	ppb
Cadmium	106-1	511.52	491.10	504.25	502.29	2.06	ppb
Cadmium	111-1	477.90	467.38	472.02	472.43	1.12	ppb
Calcium	43-1	262034.94	252726.48	247996.89	254252.77	2.81	ppb
Calcium	44-1	262959.09	252003.41	252686.18	255882.89	2.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	495.91	500.40	490.81	495.70	0.97	ppb
Cobalt	59-2	516.02	525.00	518.02	519.68	0.91	ppb
Copper	63-2	5009.25	5016.88	4973.95	5000.03	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				87		%
Holmium	165-2				85		%
Indium	115-1				81		%
Indium	115-2				77		%
Iron	54-2	129418.91	131106.79	130040.74	130188.81	0.66	ppb
Iron	56-2	129736.01	130745.02	130876.26	130452.43	0.48	ppb
Iron	57-2	131488.41	131631.95	132285.45	131801.94	0.32	ppb
Krypton	83-1						cps
Lead	206-1	2735.33	2595.94	2684.67	2671.98	2.64	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2751.61	2601.88	2683.68	2679.06	2.80	ppb
Lead	208-1	2734.02	2599.33	2670.51	2667.95	2.53	ppb
Lithium	6-1				84		%
Magnesium	24-2	255889.73	254377.31	251897.04	254054.69	0.79	ppb
Manganese	55-2	5245.33	5326.25	5212.40	5261.33	1.11	ppb
Molybdenum	94-1	5396.14	5182.85	5203.87	5260.96	2.23	ppb
Molybdenum	95-1	5304.70	5148.95	5190.65	5214.76	1.55	ppb
Molybdenum	96-1	5344.88	5134.41	5200.52	5226.60	2.06	ppb
Molybdenum	97-1	5352.18	5167.69	5192.73	5237.53	1.91	ppb
Molybdenum	98-1	5366.83	5150.23	5190.61	5235.89	2.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.47	507.26	499.75	504.16	0.78	ppb
Phosphorus	31-2	10404.58	10135.65	10073.59	10204.61	1.72	ppb
Potassium	39-2	126946.32	128194.54	125351.21	126830.69	1.12	ppb
Rhodium	103-1				77		%
Rhodium	103-2				73		%
Scandium	45-1				84		%
Scandium	45-2				79		%
Selenium	82-1	503.31	490.69	492.98	495.66	1.36	ppb
Selenium	77-2	452.83	479.98	451.77	461.53	3.46	ppb
Selenium	78-2	503.81	499.88	491.80	498.50	1.23	ppb
Silicon	28-1	635.60	610.68	620.05	622.11	2.02	ppb
Silver	107-1	500.86	486.38	494.50	493.91	1.47	ppb
Silver	109-1	503.16	494.04	491.81	496.34	1.21	ppb
Sodium	23-2	255508.72	257833.62	256532.79	256625.04	0.45	ppb
Strontium	86-1	538.52	528.25	521.44	529.40	1.62	ppb
Strontium	88-1	533.32	514.11	519.22	522.21	1.91	ppb
Sulfur	34-1	12147.90	11493.79	11616.18	11752.62	2.96	ppb
Terbium	159-1				87		%
Terbium	159-2				83		%
Thallium	203-1	546.37	521.56	530.76	532.90	2.35	ppb
Thallium	205-1	544.40	526.76	534.80	535.32	1.65	ppb
Tin	118-1	527.97	515.68	514.84	519.50	1.42	ppb
Titanium	47-1	5442.12	5179.00	5197.68	5272.93	2.78	ppb
Uranium	238-1	568.62	543.88	553.96	555.49	2.24	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	503.87	510.43	504.01	506.10	0.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				85		%
Yttrium	89-2				79		%
Zinc	66-2	4817.00	4864.03	4815.94	4832.32	0.57	ppb
Zirconium	90-1	544.42	523.24	523.28	530.32	2.30	ppb
Zirconium	91-1	533.45	524.52	529.50	529.16	0.85	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.76	1.33	1.07	1.39	24.99	ppb
Antimony	121-1	0.13	0.13	0.11	0.13	10.13	ppb
Arsenic	75-2	0.04	-0.01	0.05	0.03	123.70	ppb
Barium	135-1	0.36	0.32	0.29	0.32	10.44	ppb
Barium	137-1	0.33	0.29	0.30	0.31	7.98	ppb
Beryllium	9-1	0.18	0.17	0.15	0.17	12.02	ppb
Bismuth	209-1				94		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.12	0.22	0.14	52.90	ppb
Cadmium	106-1	-0.12	-0.97	-1.06	-0.72		ppb
Cadmium	111-1	0.04	0.01	0.00	0.02	135.46	ppb
Calcium	43-1	6.46	5.30	5.81	5.86	9.90	ppb
Calcium	44-1	7.82	5.13	5.32	6.09	24.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.05	0.02	0.03	46.65	ppb
Cobalt	59-2	0.04	0.00	0.02	0.02	110.47	ppb
Copper	63-2	0.33	0.14	0.20	0.22	44.96	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				87		%
Indium	115-1				93		%
Indium	115-2				83		%
Iron	54-2	4.27	3.28	3.04	3.53	18.54	ppb
Iron	56-2	4.32	3.02	7.18	4.84	43.98	ppb
Iron	57-2	3.95	2.19	0.70	2.28	71.44	ppb
Krypton	83-1						cps
Lead	206-1	0.21	0.19	0.17	0.19	10.21	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.17	0.17	0.18	8.84	ppb
Lead	208-1	0.21	0.19	0.17	0.19	12.14	ppb
Lithium	6-1				93		%
Magnesium	24-2	6.70	4.03	3.22	4.65	39.12	ppb
Manganese	55-2	0.54	0.32	0.33	0.40	30.96	ppb
Molybdenum	94-1	0.28	0.22	0.22	0.24	15.11	ppb
Molybdenum	95-1	0.28	0.23	0.22	0.24	12.87	ppb
Molybdenum	96-1	0.29	0.23	0.21	0.24	16.43	ppb
Molybdenum	97-1	0.31	0.20	0.22	0.24	23.86	ppb
Molybdenum	98-1	0.27	0.22	0.21	0.24	14.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.15	0.07	0.06	0.09	51.25	ppb
Phosphorus	31-2	-28.73	-17.11	-19.24	-21.69		ppb
Potassium	39-2	20.80	13.12	12.53	15.48	29.77	ppb
Rhodium	103-1				92		%
Rhodium	103-2				84		%
Scandium	45-1				90		%
Scandium	45-2				80		%
Selenium	82-1	-0.43	-0.27	-0.23	-0.31		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.29	-0.79	-0.34	-0.47		ppb
Silicon	28-1	-0.27	-0.40	-0.33	-0.34		ppb
Silver	107-1	0.10	0.08	0.07	0.08	15.86	ppb
Silver	109-1	0.10	0.07	0.07	0.08	15.35	ppb
Sodium	23-2	29.99	19.11	17.98	22.36	29.66	ppb
Strontium	86-1	0.01	0.01	0.02	0.02	39.85	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	36.92	ppb
Sulfur	34-1	-663.24	-613.75	-559.19	-612.06		ppb
Terbium	159-1				92		%
Terbium	159-2				85		%
Thallium	203-1	0.06	0.06	0.05	0.06	9.44	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	8.82	ppb
Tin	118-1	0.06	0.05	0.03	0.05	31.43	ppb
Titanium	47-1	0.18	0.15	0.16	0.16	7.17	ppb
Uranium	238-1	0.02	0.01	0.02	0.02	16.91	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.04	0.01	0.02	0.02	51.19	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				81		%
Zinc	66-2	0.40	0.36	0.33	0.36	8.93	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.70	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	19.41	ppb

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	47	40	51	27.15	cps
Antimony	121-1	60	77	77	71	13.53	cps
Arsenic	75-2	7	0	0	2	173.21	cps
Barium	135-1	113	170	167	150	21.20	cps
Barium	137-1	227	303	203	244	21.40	cps
Beryllium	9-1	227	192	265	228	15.88	cps
Bismuth	209-1	8631564	8593863	7136617	8120681	10.50	cps
Bismuth	209-2	3598077	3083196	2988798	3223357	10.17	cps
Bromine	81-1	5451	5785	5421	5552	3.63	cps
Cadmium	108-1	53	60	40	51	19.92	cps
Cadmium	106-1	5988	6035	5271	5765	7.43	cps
Cadmium	111-1	1204	1208	1076	1163	6.44	cps
Calcium	43-1	453	423	423	433	4.00	cps
Calcium	44-1	6598	6281	6215	6365	3.22	cps
Carbon	12-1	1838357	1739591	1729861	1769270	3.39	cps
Carbon	12-2	12182	12018	11765	11988	1.75	cps
Chlorine	35-1	176590	178729	179369	178229	0.82	cps
Chlorine	35-2	590	643	637	623	4.66	cps
Chromium	52-2	563	537	513	538	4.65	cps
Cobalt	59-2	193	183	203	193	5.17	cps
Copper	63-2	2044	1787	1907	1912	6.72	cps
Dysprosium	156-1	293	250	283	276	8.24	cps
Dysprosium	156-2	10	3	10	8	49.52	cps
Erbium	164-1	53	67	63	61	11.36	cps
Erbium	164-2	10	23	23	19	40.75	cps
Gadolinium	160-1	27	37	43	36	23.58	cps
Gadolinium	160-2	10	13	13	12	15.73	cps
Holmium	165-1	13739319	13640454	11258869	12879548	10.90	cps
Holmium	165-2	4945976	4271633	4090427	4436012	10.16	cps
Indium	115-1	10596196	10634186	8895594	10041992	9.89	cps
Indium	115-2	1037389	884042	855493	925641	10.57	cps
Iron	54-2	563	513	430	502	13.41	cps
Iron	56-2	8911	7762	8066	8246	7.22	cps
Iron	57-2	247	400	170	272	43.05	cps
Krypton	83-1	110	143	127	127	13.16	cps
Lead	206-1	1027	973	983	994	2.85	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	743	967	810	840	13.65	cps
Lead	208-1	3870	4034	3760	3888	3.54	cps
Lithium	6-1	5375911	5485545	4613016	5158157	9.21	cps
Magnesium	24-2	787	673	690	717	8.54	cps
Manganese	55-2	297	280	257	278	7.23	cps
Molybdenum	94-1	300	300	257	286	8.76	cps
Molybdenum	95-1	187	187	170	181	5.31	cps
Molybdenum	96-1	353	307	297	319	9.48	cps
Molybdenum	97-1	113	150	113	126	16.86	cps
Molybdenum	98-1	383	307	293	328	14.82	cps
Neodymium	150-1	13	0	7	7	99.98	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1013	713	823	850	17.86	cps
Phosphorus	31-2	33	60	60	51	30.13	cps
Potassium	39-2	4587	4727	4394	4570	3.66	cps
Rhodium	103-1	9811434	9662078	7980585	9151366	11.11	cps
Rhodium	103-2	3939864	3347272	3211327	3499488	11.07	cps
Scandium	45-1	7490620	7394412	6142277	7009103	10.73	cps
Scandium	45-2	134333	113595	109333	119087	11.23	cps
Selenium	82-1	30	20	30	27	21.65	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	7	10	7	50.03	cps
Silicon	28-1	277036	275189	274692	275639	0.45	cps
Silver	107-1	147	133	137	139	4.99	cps
Silver	109-1	37	77	53	56	36.17	cps
Sodium	23-2	15672	15855	15972	15833	0.96	cps
Strontium	86-1	260	253	263	259	1.97	cps
Strontium	88-1	760	640	723	708	8.69	cps
Sulfur	34-1	290468	287449	288874	288930	0.52	cps
Terbium	159-1	14007294	13760530	11563672	13110499	10.26	cps
Terbium	159-2	4845778	4162406	3985322	4331169	10.49	cps
Thallium	203-1	363	310	260	311	16.61	cps
Thallium	205-1	717	773	793	761	5.23	cps
Tin	118-1	1333	1237	1330	1300	4.22	cps
Titanium	47-1	117	117	127	120	4.81	cps
Uranium	238-1	593	577	580	583	1.51	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:20:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	0	13	7	99.98	cps
Ytterbium	172-1	67	80	33	60	40.07	cps
Ytterbium	172-2	17	27	23	22	22.91	cps
Ytterbium	176-1	1934	1880	1537	1783	12.07	cps
Ytterbium	176-2	317	277	257	283	10.78	cps
Yttrium	89-1	18994856	18998787	15690108	17894584	10.67	cps
Yttrium	89-2	1380843	1108396	1073029	1187423	14.19	cps
Zinc	66-2	273	223	200	232	16.13	cps
Zirconium	90-1	620	590	483	564	12.73	cps
Zirconium	91-1	140	117	127	128	9.16	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	863	917	930	903	3.91	cps
Antimony	121-1	20579	20809	19925	20438	2.25	cps
Arsenic	75-2	240	197	180	206	15.07	cps
Barium	135-1	26670	26356	25441	26155	2.44	cps
Barium	137-1	46205	46844	44169	45739	3.05	cps
Beryllium	9-1	3965	4054	3729	3916	4.29	cps
Bismuth	209-1	7962592	7986768	7828926	7926095	1.07	cps
Bismuth	209-2	2923672	3067782	3155537	3048997	3.84	cps
Bromine	81-1	5311	5398	5294	5334	1.04	cps
Cadmium	108-1	247	290	220	252	14.01	cps
Cadmium	106-1	5871	6248	5738	5952	4.45	cps
Cadmium	111-1	3645	3887	3551	3694	4.70	cps
Calcium	43-1	20001	20091	19150	19747	2.63	cps
Calcium	44-1	317473	320413	306314	314733	2.36	cps
Carbon	12-1	1935009	1873732	1883470	1897404	1.74	cps
Carbon	12-2	12949	12699	13083	12910	1.51	cps
Chlorine	35-1	146230	148115	141862	145402	2.21	cps
Chlorine	35-2	487	613	600	567	12.28	cps
Chromium	52-2	4761	4854	4721	4779	1.43	cps
Cobalt	59-2	4254	4414	4431	4366	2.23	cps
Copper	63-2	8132	8303	8069	8168	1.48	cps
Dysprosium	156-1	240	320	280	280	14.29	cps
Dysprosium	156-2	7	7	0	4	86.60	cps
Erbium	164-1	47	50	67	54	19.68	cps
Erbium	164-2	20	20	13	18	21.66	cps
Gadolinium	160-1	40	23	43	36	30.14	cps
Gadolinium	160-2	20	13	13	16	24.76	cps
Holmium	165-1	12505981	12458964	12339181	12434709	0.69	cps
Holmium	165-2	3971858	4226803	4331020	4176560	4.42	cps
Indium	115-1	9613482	9770563	9486065	9623370	1.48	cps
Indium	115-2	825387	877691	898632	867237	4.35	cps
Iron	54-2	5151	5238	5455	5281	2.96	cps
Iron	56-2	91882	92118	91195	91732	0.52	cps
Iron	57-2	2314	2267	2147	2242	3.84	cps
Krypton	83-1	143	147	210	167	22.54	cps
Lead	206-1	9657	9764	9550	9657	1.11	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8436	8386	8059	8294	2.47	cps
Lead	208-1	38546	39474	37692	38571	2.31	cps
Lithium	6-1	5152614	4946595	5080738	5059982	2.07	cps
Magnesium	24-2	81523	80417	81000	80980	0.68	cps
Manganese	55-2	1200	1287	1260	1249	3.55	cps
Molybdenum	94-1	21547	21784	20355	21229	3.61	cps
Molybdenum	95-1	25854	26225	25116	25732	2.19	cps
Molybdenum	96-1	28573	29541	28323	28812	2.23	cps
Molybdenum	97-1	16176	16143	15499	15939	2.40	cps
Molybdenum	98-1	41846	42675	40747	41756	2.32	cps
Neodymium	150-1	3	17	23	14	70.51	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	1994	2007	1910	1970	2.66	cps
Phosphorus	31-2	73	110	103	96	20.44	cps
Potassium	39-2	46056	47184	47608	46949	1.71	cps
Rhodium	103-1	8863145	8978821	8645247	8829071	1.92	cps
Rhodium	103-2	3169758	3334704	3390556	3298339	3.48	cps
Scandium	45-1	6848897	6815129	6731384	6798470	0.89	cps
Scandium	45-2	105349	113759	114686	111265	4.62	cps
Selenium	82-1	823	823	860	836	2.53	cps
Selenium	77-2	20	13	23	19	26.96	cps
Selenium	78-2	43	50	60	51	16.42	cps
Silicon	28-1	320132	323052	331201	324795	1.77	cps
Silver	107-1	12933	13333	12499	12922	3.23	cps
Silver	109-1	12499	12593	12002	12365	2.57	cps
Sodium	23-2	169693	172125	169357	170392	0.89	cps
Strontium	86-1	3767	3777	3734	3759	0.60	cps
Strontium	88-1	31322	31726	29976	31008	2.96	cps
Sulfur	34-1	289765	292714	280616	287698	2.19	cps
Terbium	159-1	12862356	12741992	12510478	12704942	1.41	cps
Terbium	159-2	3870557	4136311	4148829	4051899	3.88	cps
Thallium	203-1	11392	11278	10995	11222	1.82	cps
Thallium	205-1	26470	27189	25876	26512	2.48	cps
Tin	118-1	45044	45117	43285	44482	2.33	cps
Titanium	47-1	8393	8629	8042	8355	3.53	cps
Uranium	238-1	41924	42753	40531	41736	2.69	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:26:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7906	7912	8016	7944	0.78	cps
Ytterbium	172-1	67	67	63	66	2.94	cps
Ytterbium	172-2	23	20	23	22	8.65	cps
Ytterbium	176-1	1670	1697	1763	1710	2.81	cps
Ytterbium	176-2	207	213	263	228	13.60	cps
Yttrium	89-1	17194220	17382818	16843833	17140290	1.60	cps
Yttrium	89-2	1037377	1101028	1122451	1086952	4.07	cps
Zinc	66-2	1610	1837	1923	1790	9.04	cps
Zirconium	90-1	18285	18823	18262	18457	1.72	cps
Zirconium	91-1	3981	4261	4244	4162	3.78	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	42188	42833	42054	42358	0.98	cps
Antimony	121-1	527323	529732	526854	527970	0.29	cps
Arsenic	75-2	8823	8463	8673	8653	2.09	cps
Barium	135-1	675576	673701	666792	672023	0.69	cps
Barium	137-1	1170863	1171377	1166371	1169537	0.24	cps
Beryllium	9-1	189303	190847	188689	189613	0.59	cps
Bismuth	209-1	8535620	8437565	8426776	8466654	0.71	cps
Bismuth	209-2	3162298	3101902	3144775	3136325	0.99	cps
Bromine	81-1	5538	5551	5651	5580	1.11	cps
Cadmium	108-1	11181	11361	11461	11335	1.25	cps
Cadmium	106-1	22392	21470	21023	21628	3.23	cps
Cadmium	111-1	134558	135412	134219	134730	0.46	cps
Calcium	43-1	197327	197803	198138	197756	0.21	cps
Calcium	44-1	3277092	3267120	3270082	3271431	0.16	cps
Carbon	12-1	1943260	1891242	1889673	1908058	1.60	cps
Carbon	12-2	13179	13046	12936	13054	0.93	cps
Chlorine	35-1	153783	152176	152369	152776	0.57	cps
Chlorine	35-2	600	590	500	563	9.78	cps
Chromium	52-2	102530	102970	101406	102302	0.79	cps
Cobalt	59-2	193979	194195	192100	193425	0.60	cps
Copper	63-2	1461900	1451290	1522364	1478518	2.59	cps
Dysprosium	156-1	263	273	237	258	7.35	cps
Dysprosium	156-2	17	13	23	18	28.64	cps
Erbium	164-1	40	80	63	61	32.88	cps
Erbium	164-2	30	27	33	30	11.10	cps
Gadolinium	160-1	60	47	40	49	20.83	cps
Gadolinium	160-2	27	17	17	20	28.86	cps
Holmium	165-1	13393614	13544584	13351997	13430065	0.75	cps
Holmium	165-2	4302130	4354829	4342583	4333181	0.64	cps
Indium	115-1	10362242	10472272	10254372	10362962	1.05	cps
Indium	115-2	908285	907816	898182	904761	0.63	cps
Iron	54-2	210758	209063	211140	210320	0.53	cps
Iron	56-2	4023892	4026808	3972591	4007764	0.76	cps
Iron	57-2	97950	95963	96423	96779	1.07	cps
Krypton	83-1	197	207	140	181	19.85	cps
Lead	206-1	2415263	2408613	2404455	2409444	0.23	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2090256	2076116	2056691	2074354	0.81	cps
Lead	208-1	9594570	9547179	9444437	9528729	0.81	cps
Lithium	6-1	5318339	5217009	5207233	5247527	1.17	cps
Magnesium	24-2	762897	770366	760402	764555	0.68	cps
Manganese	55-2	436372	432721	434881	434658	0.42	cps
Molybdenum	94-1	1944929	1938616	1931788	1938445	0.34	cps
Molybdenum	95-1	2845390	2816992	2823666	2828683	0.52	cps
Molybdenum	96-1	3070839	3042760	3075708	3063102	0.58	cps
Molybdenum	97-1	1714375	1733306	1698869	1715516	1.01	cps
Molybdenum	98-1	4472515	4523746	4545485	4513915	0.83	cps
Neodymium	150-1	90	73	80	81	10.34	cps
Neodymium	150-2	7	10	7	8	24.71	cps
Nickel	60-2	53912	53497	53784	53731	0.40	cps
Phosphorus	31-2	1747	1953	1817	1839	5.72	cps
Potassium	39-2	205261	202496	204461	204073	0.70	cps
Rhodium	103-1	9256555	9409422	9363367	9343115	0.84	cps
Rhodium	103-2	3384255	3426769	3312826	3374617	1.71	cps
Scandium	45-1	7318793	7284857	7262486	7288712	0.39	cps
Scandium	45-2	115653	116554	115365	115857	0.54	cps
Selenium	82-1	8579	8696	8826	8701	1.42	cps
Selenium	77-2	130	137	153	140	8.59	cps
Selenium	78-2	367	453	440	420	11.11	cps
Silicon	28-1	2882719	2855636	2877680	2872012	0.50	cps
Silver	107-1	705317	716015	715756	712362	0.86	cps
Silver	109-1	666629	683168	671377	673725	1.26	cps
Sodium	23-2	1587387	1557749	1572093	1572410	0.94	cps
Strontium	86-1	190299	191888	188881	190356	0.79	cps
Strontium	88-1	1755302	1728168	1711386	1731619	1.28	cps
Sulfur	34-1	355745	353061	350430	353079	0.75	cps
Terbium	159-1	13486403	13671082	13663811	13607099	0.77	cps
Terbium	159-2	4228356	4215254	4216568	4220059	0.17	cps
Thallium	203-1	566425	571709	567365	568499	0.50	cps
Thallium	205-1	1364193	1364487	1362313	1363664	0.09	cps
Tin	118-1	458065	462396	457519	459327	0.58	cps
Titanium	47-1	827882	839749	837235	834955	0.75	cps
Uranium	238-1	2244188	2245624	2242565	2244126	0.07	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:30:19	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	77428	77029	76734	77063	0.45	cps
Ytterbium	172-1	97	90	93	93	3.57	cps
Ytterbium	172-2	17	27	13	19	36.75	cps
Ytterbium	176-1	4274	4287	4264	4275	0.27	cps
Ytterbium	176-2	967	943	980	963	1.93	cps
Yttrium	89-1	18638252	18419589	18528633	18528824	0.59	cps
Yttrium	89-2	1137059	1131360	1130712	1133044	0.31	cps
Zinc	66-2	153258	152025	152170	152484	0.44	cps
Zirconium	90-1	919128	925830	927679	924212	0.49	cps
Zirconium	91-1	204694	206936	204862	205497	0.61	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	98661	101182	102058	100634	1.75	cps
Antimony	121-1	1334925	1348652	1361027	1348201	0.97	cps
Arsenic	75-2	20305	20548	20251	20368	0.78	cps
Barium	135-1	1809288	1839398	1845802	1831496	1.06	cps
Barium	137-1	3113670	3178948	3208488	3167035	1.53	cps
Beryllium	9-1	478111	479141	479360	478871	0.14	cps
Bismuth	209-1	8468797	8448646	8383055	8433499	0.53	cps
Bismuth	209-2	2809799	2829747	2822612	2820719	0.36	cps
Bromine	81-1	5221	5368	5454	5348	2.21	cps
Cadmium	108-1	28239	28249	28894	28460	1.32	cps
Cadmium	106-1	46047	46588	45692	46109	0.98	cps
Cadmium	111-1	335491	338272	340217	337993	0.70	cps
Calcium	43-1	499470	504967	503031	502489	0.55	cps
Calcium	44-1	8312296	8306527	8255104	8291309	0.38	cps
Carbon	12-1	2104897	2065780	2087420	2086032	0.94	cps
Carbon	12-2	14177	14270	14287	14245	0.42	cps
Chlorine	35-1	153059	154399	154989	154149	0.64	cps
Chlorine	35-2	523	507	560	530	5.15	cps
Chromium	52-2	236309	240164	243937	240137	1.59	cps
Cobalt	59-2	446200	453244	460614	453353	1.59	cps
Copper	63-2	3563956	3593546	3651424	3602975	1.23	cps
Dysprosium	156-1	280	240	277	266	8.36	cps
Dysprosium	156-2	10	10	3	8	49.52	cps
Erbium	164-1	70	57	97	74	27.36	cps
Erbium	164-2	13	43	30	29	52.03	cps
Gadolinium	160-1	63	40	90	64	38.82	cps
Gadolinium	160-2	20	10	17	16	32.73	cps
Holmium	165-1	13580397	13543665	13652227	13592097	0.41	cps
Holmium	165-2	3952518	4007988	3949821	3970109	0.83	cps
Indium	115-1	10212662	10444759	10464320	10373913	1.35	cps
Indium	115-2	806515	814188	823458	814720	1.04	cps
Iron	54-2	487572	498033	498352	494653	1.24	cps
Iron	56-2	9222404	9335731	9361652	9306596	0.80	cps
Iron	57-2	223938	225454	227558	225650	0.81	cps
Krypton	83-1	137	163	163	154	9.97	cps
Lead	206-1	6101188	6028497	6063220	6064302	0.60	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5217205	5221018	5209852	5216025	0.11	cps
Lead	208-1	23960041	23724827	23988997	23891288	0.61	cps
Lithium	6-1	5262509	5484210	5397362	5381360	2.08	cps
Magnesium	24-2	1871684	1902743	1905865	1893431	1.00	cps
Manganese	55-2	1002905	1024918	1033342	1020388	1.54	cps
Molybdenum	94-1	4981077	4928943	4937080	4949033	0.57	cps
Molybdenum	95-1	7140696	7148679	7169013	7152796	0.20	cps
Molybdenum	96-1	7702914	7726947	7749499	7726454	0.30	cps
Molybdenum	97-1	4357255	4455629	4406938	4406607	1.12	cps
Molybdenum	98-1	11591593	11532594	11392098	11505429	0.89	cps
Neodymium	150-1	140	233	143	172	30.75	cps
Neodymium	150-2	13	10	7	10	33.30	cps
Nickel	60-2	123840	124606	126648	125031	1.16	cps
Phosphorus	31-2	4211	4367	4717	4432	5.86	cps
Potassium	39-2	474558	478710	489991	481086	1.66	cps
Rhodium	103-1	9291539	9298352	9259962	9283284	0.22	cps
Rhodium	103-2	3027933	3075278	3097489	3066900	1.16	cps
Scandium	45-1	7387156	7360223	7188705	7312028	1.47	cps
Scandium	45-2	104832	104912	106004	105249	0.62	cps
Selenium	82-1	21874	21958	22525	22119	1.60	cps
Selenium	77-2	317	290	257	288	10.45	cps
Selenium	78-2	1097	977	1143	1072	8.02	cps
Silicon	28-1	6871186	6898036	6954230	6907817	0.61	cps
Silver	107-1	1935293	1911711	1934795	1927267	0.70	cps
Silver	109-1	1797979	1823102	1819640	1813574	0.75	cps
Sodium	23-2	3610074	3704910	3694626	3669870	1.42	cps
Strontium	86-1	478585	481722	490767	483692	1.31	cps
Strontium	88-1	4376567	4390651	4448691	4405303	0.87	cps
Sulfur	34-1	447664	447218	445849	446910	0.21	cps
Terbium	159-1	13573185	13830901	13831301	13745129	1.08	cps
Terbium	159-2	3824698	3835556	3834096	3831450	0.15	cps
Thallium	203-1	1432707	1447064	1454113	1444628	0.76	cps
Thallium	205-1	3671375	3652564	3675150	3666363	0.33	cps
Tin	118-1	1164895	1175130	1180696	1173574	0.68	cps
Titanium	47-1	2270339	2214066	2206583	2230329	1.56	cps
Uranium	238-1	5701940	5690435	5794591	5728989	1.00	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:33:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	181001	184589	186140	183910	1.43	cps
Ytterbium	172-1	90	90	103	94	8.15	cps
Ytterbium	172-2	33	13	20	22	45.83	cps
Ytterbium	176-1	8416	8206	8643	8422	2.59	cps
Ytterbium	176-2	2110	2037	2097	2081	1.88	cps
Yttrium	89-1	18430608	18688317	18569816	18562914	0.69	cps
Yttrium	89-2	1023073	1028018	1043061	1031384	1.01	cps
Zinc	66-2	356516	359238	364227	359994	1.09	cps
Zirconium	90-1	2491677	2475194	2496212	2487694	0.44	cps
Zirconium	91-1	523929	527296	529185	526803	0.51	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	204963	203624	204169	204252	0.33	cps
Antimony	121-1	2651060	2737441	2732447	2706983	1.79	cps
Arsenic	75-2	41508	40705	42464	41559	2.12	cps
Barium	135-1	3439667	3458347	3529857	3475957	1.37	cps
Barium	137-1	5803204	5857735	5948165	5869701	1.25	cps
Beryllium	9-1	879994	892954	894194	889047	0.88	cps
Bismuth	209-1	7771387	7871240	7685429	7776019	1.20	cps
Bismuth	209-2	2891069	2858329	2847665	2865687	0.79	cps
Bromine	81-1	5234	5531	5474	5413	2.91	cps
Cadmium	108-1	52443	54290	54076	53603	1.88	cps
Cadmium	106-1	79631	81012	81462	80702	1.18	cps
Cadmium	111-1	623457	636245	636289	631997	1.17	cps
Calcium	43-1	931824	959696	964154	951891	1.84	cps
Calcium	44-1	15446127	15742947	15771536	15653537	1.15	cps
Carbon	12-1	2223098	2221173	2193900	2212724	0.74	cps
Carbon	12-2	15455	15965	16062	15828	2.06	cps
Chlorine	35-1	144216	148600	148472	147096	1.70	cps
Chlorine	35-2	670	530	537	579	13.64	cps
Chromium	52-2	480297	485533	488614	484815	0.87	cps
Cobalt	59-2	911663	920759	923014	918479	0.65	cps
Copper	63-2	7083186	7226674	7204190	7171350	1.08	cps
Dysprosium	156-1	320	247	267	278	13.65	cps
Dysprosium	156-2	10	10	13	11	17.30	cps
Erbium	164-1	100	137	110	116	16.40	cps
Erbium	164-2	20	27	40	29	35.25	cps
Gadolinium	160-1	60	50	47	52	13.28	cps
Gadolinium	160-2	30	3	10	14	96.09	cps
Holmium	165-1	12604332	12710176	12667254	12660588	0.42	cps
Holmium	165-2	4060909	4129180	4050898	4080329	1.04	cps
Indium	115-1	9511023	9745404	9628973	9628467	1.22	cps
Indium	115-2	839049	836713	840086	838616	0.21	cps
Iron	54-2	998994	999834	1000915	999914	0.10	cps
Iron	56-2	18959548	18941210	18688142	18862967	0.80	cps
Iron	57-2	456948	459661	457371	457993	0.32	cps
Krypton	83-1	150	153	150	151	1.28	cps
Lead	206-1	11079751	11259265	11277167	11205394	0.97	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9495790	9765585	9569512	9610296	1.45	cps
Lead	208-1	43795613	44835554	44665382	44432183	1.26	cps
Lithium	6-1	5008267	4993024	5032546	5011279	0.40	cps
Magnesium	24-2	3843120	3799483	3817389	3819997	0.57	cps
Manganese	55-2	2182441	2216329	2216850	2205207	0.89	cps
Molybdenum	94-1	9220526	9291472	9400559	9304185	0.97	cps
Molybdenum	95-1	13370734	13713263	13641417	13575138	1.33	cps
Molybdenum	96-1	14711266	14781259	14821346	14771290	0.38	cps
Molybdenum	97-1	8257895	8394070	8358381	8336782	0.85	cps
Molybdenum	98-1	21454317	22033043	22009606	21832322	1.50	cps
Neodymium	150-1	323	380	387	363	9.58	cps
Neodymium	150-2	10	20	23	18	39.03	cps
Nickel	60-2	248551	252871	250789	250737	0.86	cps
Phosphorus	31-2	9070	9003	8883	8985	1.05	cps
Potassium	39-2	977822	981736	970763	976774	0.57	cps
Rhodium	103-1	8684524	8688208	8657742	8676825	0.19	cps
Rhodium	103-2	3089578	3110196	3081859	3093877	0.47	cps
Scandium	45-1	6886089	6943757	6955266	6928371	0.53	cps
Scandium	45-2	111156	110356	108509	110007	1.23	cps
Selenium	82-1	41475	42000	42073	41849	0.78	cps
Selenium	77-2	577	603	587	589	2.29	cps
Selenium	78-2	2013	2114	2134	2087	3.08	cps
Silicon	28-1	12465894	12698669	12656995	12607186	0.98	cps
Silver	107-1	3565610	3587342	3576759	3576570	0.30	cps
Silver	109-1	3385466	3418971	3415420	3406619	0.54	cps
Sodium	23-2	7323191	7448299	7397194	7389562	0.85	cps
Strontium	86-1	904236	923532	919508	915759	1.11	cps
Strontium	88-1	8049399	8346956	8290702	8229019	1.92	cps
Sulfur	34-1	581227	588761	586126	585371	0.65	cps
Terbium	159-1	13026473	13043536	12922048	12997352	0.51	cps
Terbium	159-2	3975194	4001344	3914919	3963819	1.12	cps
Thallium	203-1	2892016	2939884	2916820	2916240	0.82	cps
Thallium	205-1	6774989	6899066	6957408	6877155	1.35	cps
Tin	118-1	2249190	2316286	2357669	2307715	2.37	cps
Titanium	47-1	4159975	4199272	4254302	4204516	1.13	cps
Uranium	238-1	10534456	10783017	10783383	10700285	1.34	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:36:33	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	374716	377426	378701	376948	0.54	cps
Ytterbium	172-1	117	137	87	113	22.20	cps
Ytterbium	172-2	53	47	40	47	14.28	cps
Ytterbium	176-1	14385	14141	13904	14143	1.70	cps
Ytterbium	176-2	3991	4254	4201	4148	3.36	cps
Yttrium	89-1	17341865	17497948	17376322	17405378	0.47	cps
Yttrium	89-2	1076979	1070557	1071740	1073092	0.32	cps
Zinc	66-2	721231	722739	727849	723939	0.48	cps
Zirconium	90-1	4635438	4709958	4719800	4688399	0.98	cps
Zirconium	91-1	980901	1006414	1004583	997300	1.43	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	404519	408103	406661	406428	0.44	cps
Antimony	121-1	5258244	5323301	5321489	5301011	0.70	cps
Arsenic	75-2	83026	83673	84387	83695	0.81	cps
Barium	135-1	6817415	6744793	6792282	6784830	0.54	cps
Barium	137-1	11562143	11630387	11737834	11643455	0.76	cps
Beryllium	9-1	1821176	1853712	1802031	1825640	1.43	cps
Bismuth	209-1	7585205	7704662	7799433	7696433	1.39	cps
Bismuth	209-2	2788807	2841318	2841259	2823794	1.07	cps
Bromine	81-1	5605	5511	5491	5536	1.09	cps
Cadmium	108-1	104472	106084	107145	105900	1.27	cps
Cadmium	106-1	151174	153792	153520	152828	0.94	cps
Cadmium	111-1	1227674	1246866	1238360	1237633	0.78	cps
Calcium	43-1	1952355	1983728	1955414	1963833	0.88	cps
Calcium	44-1	30676011	31441904	30950970	31022962	1.25	cps
Carbon	12-1	2356421	2360906	2397404	2371577	0.95	cps
Carbon	12-2	17531	17063	17851	17482	2.27	cps
Chlorine	35-1	147866	149338	148887	148697	0.51	cps
Chlorine	35-2	447	563	563	524	12.84	cps
Chromium	52-2	959752	969762	962391	963969	0.54	cps
Cobalt	59-2	1926636	1924876	1922957	1924823	0.10	cps
Copper	63-2	13971419	14051138	14085403	14035987	0.42	cps
Dysprosium	156-1	450	377	337	388	14.82	cps
Dysprosium	156-2	10	13	43	22	82.62	cps
Erbium	164-1	113	183	140	146	24.27	cps
Erbium	164-2	50	53	37	47	18.89	cps
Gadolinium	160-1	130	90	100	107	19.52	cps
Gadolinium	160-2	13	27	23	21	32.88	cps
Holmium	165-1	12488203	12806781	12741104	12678696	1.33	cps
Holmium	165-2	4098148	4145731	4145121	4129667	0.66	cps
Indium	115-1	9356639	9619242	9527343	9501075	1.40	cps
Indium	115-2	819189	828435	823883	823836	0.56	cps
Iron	54-2	2072536	2070164	2125694	2089465	1.50	cps
Iron	56-2	37255739	37340852	37441066	37345886	0.25	cps
Iron	57-2	901670	906340	910908	906306	0.51	cps
Krypton	83-1	163	193	183	180	8.49	cps
Lead	206-1	21995688	21959666	22317828	22091061	0.89	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18966332	19219087	19282013	19155811	0.87	cps
Lead	208-1	87373625	88219094	88409510	88000743	0.63	cps
Lithium	6-1	4749736	4899749	4973148	4874211	2.34	cps
Magnesium	24-2	7304263	7492957	7477256	7424825	1.41	cps
Manganese	55-2	4322209	4294261	4408928	4341799	1.38	cps
Molybdenum	94-1	18385231	18861969	18649667	18632289	1.28	cps
Molybdenum	95-1	26711320	27271284	27016815	26999806	1.04	cps
Molybdenum	96-1	29209725	29536085	29159914	29301908	0.70	cps
Molybdenum	97-1	16554551	16772360	16562076	16629662	0.74	cps
Molybdenum	98-1	43070916	43710064	43851764	43544248	0.96	cps
Neodymium	150-1	693	797	660	717	9.94	cps
Neodymium	150-2	30	30	27	29	6.65	cps
Nickel	60-2	485394	488715	489401	487837	0.44	cps
Phosphorus	31-2	17414	17744	17778	17645	1.14	cps
Potassium	39-2	2028480	2043061	2007615	2026385	0.88	cps
Rhodium	103-1	8407953	8625852	8582439	8538748	1.35	cps
Rhodium	103-2	3082314	3042040	3097086	3073813	0.93	cps
Scandium	45-1	6676747	7077915	6917302	6890655	2.93	cps
Scandium	45-2	109903	110108	110719	110243	0.39	cps
Selenium	82-1	81294	82991	83035	82440	1.20	cps
Selenium	77-2	1197	1267	1207	1223	3.10	cps
Selenium	78-2	4117	4254	4087	4153	2.14	cps
Silicon	28-1	28326110	28882445	28210075	28472877	1.26	cps
Silver	107-1	6907004	6953302	6977337	6945881	0.51	cps
Silver	109-1	6471378	6556159	6557015	6528184	0.75	cps
Sodium	23-2	14805987	14794231	14793229	14797816	0.05	cps
Strontium	86-1	1916040	1925437	1914295	1918591	0.31	cps
Strontium	88-1	16362663	16633302	16433184	16476383	0.85	cps
Sulfur	34-1	886715	901724	895219	894553	0.84	cps
Terbium	159-1	12590441	12964406	12954668	12836505	1.66	cps
Terbium	159-2	3929353	3976307	3941982	3949214	0.62	cps
Thallium	203-1	5597036	5647875	5670255	5638388	0.67	cps
Thallium	205-1	13302954	13532587	13380827	13405456	0.87	cps
Tin	118-1	4548480	4543973	4611642	4568032	0.83	cps
Titanium	47-1	8244426	8447837	8308642	8333635	1.25	cps
Uranium	238-1	21565589	21697707	21559117	21607471	0.36	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:39:33	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	745756	747039	751802	748199	0.43	cps
Ytterbium	172-1	140	130	180	150	17.64	cps
Ytterbium	172-2	53	63	43	53	18.75	cps
Ytterbium	176-1	26223	26380	26026	26209	0.68	cps
Ytterbium	176-2	8136	7849	7996	7994	1.79	cps
Yttrium	89-1	17135011	17704111	17680920	17506681	1.84	cps
Yttrium	89-2	1064277	1071701	1069544	1068507	0.36	cps
Zinc	66-2	1419375	1424965	1433285	1425875	0.49	cps
Zirconium	90-1	9186048	9439905	9487360	9371104	1.73	cps
Zirconium	91-1	2115379	2126414	2102517	2114770	0.57	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	874601	879543	882177	878774	0.44	cps
Antimony	121-1	11094965	11269096	11318000	11227353	1.04	cps
Arsenic	75-2	180375	180942	180662	180659	0.16	cps
Barium	135-1	14427862	14617259	14606611	14550577	0.73	cps
Barium	137-1	24475741	24926949	24993754	24798815	1.14	cps
Beryllium	9-1	3718842	3800889	3728624	3749452	1.20	cps
Bismuth	209-1	7983191	7791889	7767439	7847506	1.51	cps
Bismuth	209-2	2914092	2922548	2894992	2910544	0.49	cps
Bromine	81-1	5881	6015	6078	5991	1.68	cps
Cadmium	108-1	218332	222649	224347	221776	1.40	cps
Cadmium	106-1	311751	320772	319984	317502	1.57	cps
Cadmium	111-1	2682332	2809860	2790301	2760831	2.49	cps
Calcium	43-1	4086676	4217336	4192696	4165569	1.67	cps
Calcium	44-1	65018994	66562647	66846656	66142766	1.49	cps
Carbon	12-1	2774224	2821162	2871925	2822437	1.73	cps
Carbon	12-2	21946	21552	22163	21887	1.41	cps
Chlorine	35-1	177196	179754	181121	179357	1.11	cps
Chlorine	35-2	757	610	740	702	11.44	cps
Chromium	52-2	2254170	2215318	2238536	2236008	0.87	cps
Cobalt	59-2	4167765	4069216	4048255	4095079	1.56	cps
Copper	63-2	29613377	29511504	29611815	29578898	0.20	cps
Dysprosium	156-1	470	493	547	503	7.81	cps
Dysprosium	156-2	43	30	47	40	22.05	cps
Erbium	164-1	250	257	217	241	8.89	cps
Erbium	164-2	53	63	67	61	11.36	cps
Gadolinium	160-1	147	217	197	187	19.32	cps
Gadolinium	160-2	63	50	47	53	16.53	cps
Holmium	165-1	13559093	13380501	13544731	13494775	0.74	cps
Holmium	165-2	4439984	4367833	4366633	4391483	0.96	cps
Indium	115-1	10048722	9839811	9873918	9920817	1.13	cps
Indium	115-2	857021	857004	856822	856949	0.01	cps
Iron	54-2	4490670	4513221	4480639	4494843	0.37	cps
Iron	56-2	82117354	81133810	81320332	81523832	0.64	cps
Iron	57-2	2113556	2109318	2090962	2104612	0.57	cps
Krypton	83-1	250	170	183	201	21.31	cps
Lead	206-1	45650061	46645643	46913503	46403069	1.43	cps

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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	39451569	39452536	40221507	39708537	1.12	cps
Lead	208-1	181501968	184451707	184507248	183486974	0.94	cps
Lithium	6-1	4964728	4948452	4878443	4930541	0.93	cps
Magnesium	24-2	16122654	16214171	16236461	16191095	0.37	cps
Manganese	55-2	9367574	9383625	9400214	9383805	0.17	cps
Molybdenum	94-1	39341174	40219400	40845879	40135484	1.88	cps
Molybdenum	95-1	57406926	58624052	59483379	58504786	1.78	cps
Molybdenum	96-1	62155682	63583929	64390221	63376611	1.79	cps
Molybdenum	97-1	35223097	35540256	36413424	35725593	1.73	cps
Molybdenum	98-1	92367059	93523919	95030045	93640341	1.43	cps
Neodymium	150-1	1473	1563	1680	1572	6.59	cps
Neodymium	150-2	60	43	63	56	19.29	cps
Nickel	60-2	1037333	1033739	1040262	1037111	0.32	cps
Phosphorus	31-2	38715	38865	38631	38737	0.31	cps
Potassium	39-2	4434630	4447555	4457886	4446690	0.26	cps
Rhodium	103-1	8876337	8615981	8777884	8756734	1.50	cps
Rhodium	103-2	3234798	3194524	3207109	3212144	0.64	cps
Scandium	45-1	7337824	7193477	7320561	7283954	1.08	cps
Scandium	45-2	121215	119733	119465	120138	0.78	cps
Selenium	82-1	171926	172056	175144	173042	1.05	cps
Selenium	77-2	2677	2584	2604	2621	1.88	cps
Selenium	78-2	8656	8539	8419	8538	1.39	cps
Silicon	28-1	45822016	45183461	45509421	45504966	0.70	cps
Silver	107-1	14063136	14457593	14399853	14306861	1.49	cps
Silver	109-1	13311413	13640102	13639228	13530248	1.40	cps
Sodium	23-2	32003314	32070410	32238792	32104172	0.38	cps
Strontium	86-1	4062860	4102104	4114958	4093307	0.66	cps
Strontium	88-1	35042373	35089149	35969869	35367130	1.48	cps
Sulfur	34-1	1395504	1364466	1400313	1386761	1.40	cps
Terbium	159-1	13819260	13668526	13576322	13688036	0.90	cps
Terbium	159-2	4277901	4262718	4216951	4252523	0.75	cps
Thallium	203-1	11631490	12056399	12085522	11924470	2.13	cps
Thallium	205-1	27825140	28553999	28485950	28288363	1.42	cps
Tin	118-1	9495313	9723257	9648151	9622240	1.21	cps
Titanium	47-1	17471271	17912769	17996654	17793565	1.59	cps
Uranium	238-1	45737848	46090776	45787645	45872090	0.42	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:42:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1722226	1721865	1731116	1725069	0.30	cps
Ytterbium	172-1	227	213	217	219	3.17	cps
Ytterbium	172-2	83	47	67	66	28.00	cps
Ytterbium	176-1	53079	54338	53829	53749	1.18	cps
Ytterbium	176-2	17075	17355	17141	17190	0.85	cps
Yttrium	89-1	18600161	18197472	18465230	18420954	1.11	cps
Yttrium	89-2	1145784	1149247	1141268	1145433	0.35	cps
Zinc	66-2	3205177	3128834	3153017	3162342	1.23	cps
Zirconium	90-1	19526063	20165433	20285157	19992217	2.04	cps
Zirconium	91-1	4388339	4539733	4592519	4506864	2.35	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3724277	3658073	3667246	3683199	0.97	cps
Antimony	121-1	3567	3420	2854	3280	11.49	cps
Arsenic	75-2	100	77	40	72	41.88	cps
Barium	135-1	6312	5705	5738	5918	5.77	cps
Barium	137-1	11011	10030	9777	10273	6.35	cps
Beryllium	9-1	1022	957	854	945	9.01	cps
Bismuth	209-1	6042588	6291606	6108297	6147497	2.10	cps
Bismuth	209-2	2292974	2283190	2229873	2268679	1.50	cps
Bromine	81-1	5958	5444	5564	5656	4.75	cps
Cadmium	108-1	210	197	167	191	11.61	cps
Cadmium	106-1	4864	5184	5218	5089	3.83	cps
Cadmium	111-1	1666	1609	1514	1596	4.82	cps
Calcium	43-1	17793783	17186872	16927312	17302656	2.57	cps
Calcium	44-1	283649029	275624643	270004109	276425927	2.48	cps
Carbon	12-1	2479098	2564203	2636275	2559859	3.07	cps
Carbon	12-2	22774	22905	22821	22833	0.29	cps
Chlorine	35-1	139743	135806	133478	136343	2.32	cps
Chlorine	35-2	483	520	430	478	9.47	cps
Chromium	52-2	2747	2747	2700	2731	0.99	cps
Cobalt	59-2	6532	6862	6458	6617	3.25	cps
Copper	63-2	5358	4791	4888	5012	6.05	cps
Dysprosium	156-1	543	630	537	570	9.14	cps
Dysprosium	156-2	93	110	117	107	11.27	cps
Erbium	164-1	410	447	433	430	4.32	cps
Erbium	164-2	123	163	143	143	13.95	cps
Gadolinium	160-1	423	407	437	422	3.56	cps
Gadolinium	160-2	150	137	147	144	4.80	cps
Holmium	165-1	11043821	11728692	11189042	11320518	3.19	cps
Holmium	165-2	3696372	3649103	3652945	3666140	0.72	cps
Indium	115-1	7923526	8184970	8019354	8042616	1.64	cps
Indium	115-2	708753	701520	699484	703252	0.69	cps
Iron	54-2	17135518	17042429	16860151	17012700	0.82	cps
Iron	56-2	318358902	316250015	309745989	314784969	1.43	cps
Iron	57-2	8031602	7973347	7784180	7929710	1.63	cps
Krypton	83-1	213	237	210	220	6.60	cps
Lead	206-1	6448	5585	5174	5736	11.34	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5318	4838	4314	4823	10.41	cps
Lead	208-1	25036	22204	20203	22481	10.80	cps
Lithium	6-1	3911398	4219633	4092345	4074459	3.80	cps
Magnesium	24-2	63285004	62822421	61928674	62678700	1.10	cps
Manganese	55-2	3374	3200	3254	3276	2.71	cps
Molybdenum	94-1	9430	8776	7759	8655	9.73	cps
Molybdenum	95-1	8853	8146	7195	8065	10.31	cps
Molybdenum	96-1	13380	12412	11285	12359	8.48	cps
Molybdenum	97-1	5021	4317	3881	4406	13.06	cps
Molybdenum	98-1	12636	10984	9907	11176	12.30	cps
Neodymium	150-1	337	273	290	300	10.94	cps
Neodymium	150-2	60	73	60	64	11.94	cps
Nickel	60-2	2670	2337	2384	2464	7.33	cps
Phosphorus	31-2	30	83	63	59	45.75	cps
Potassium	39-2	17914206	17517199	17474261	17635222	1.38	cps
Rhodium	103-1	6669074	7000510	6788556	6819380	2.46	cps
Rhodium	103-2	2460492	2419570	2409086	2429716	1.12	cps
Scandium	45-1	5850018	6057508	5922311	5943279	1.77	cps
Scandium	45-2	95048	92747	91244	93013	2.06	cps
Selenium	82-1	63	43	3	37	83.30	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	10	10	7	9	21.63	cps
Silicon	28-1	417498	389041	369965	392168	6.10	cps
Silver	107-1	1763	1613	1410	1596	11.12	cps
Silver	109-1	1583	1590	1397	1523	7.20	cps
Sodium	23-2	126954118	124582458	122808422	124781666	1.67	cps
Strontium	86-1	11051	10281	10271	10534	4.25	cps
Strontium	88-1	91792	90215	87528	89845	2.40	cps
Sulfur	34-1	257684	255537	251392	254871	1.25	cps
Terbium	159-1	11155275	11615821	11538178	11436425	2.16	cps
Terbium	159-2	3532283	3516589	3493012	3513961	0.56	cps
Thallium	203-1	1303	1100	870	1091	19.87	cps
Thallium	205-1	2830	2434	2067	2444	15.63	cps
Tin	118-1	2757	2630	2354	2580	8.00	cps
Titanium	47-1	4681	4224	4204	4370	6.17	cps
Uranium	238-1	24559	22591	22121	23091	5.60	cps

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 13:45:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	370	377	317	354	9.28	cps
Ytterbium	172-1	587	540	437	521	14.73	cps
Ytterbium	172-2	213	177	207	199	9.82	cps
Ytterbium	176-1	1720	1890	1887	1832	5.31	cps
Ytterbium	176-2	367	330	290	329	11.66	cps
Yttrium	89-1	14892280	15645882	15293554	15277239	2.47	cps
Yttrium	89-2	941346	932703	923404	932484	0.96	cps
Zinc	66-2	923	773	783	827	10.15	cps
Zirconium	90-1	9960	9817	9220	9666	4.06	cps
Zirconium	91-1	2274	2264	2004	2180	7.02	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19453	19527	19653	19544	0.52	cps
Antimony	121-1	2077937	2037976	2069355	2061756	1.02	cps
Arsenic	75-2	32247	32685	32177	32369	0.85	cps
Barium	135-1	254838	258933	260271	258014	1.10	cps
Barium	137-1	449046	451078	453298	451141	0.47	cps
Beryllium	9-1	346363	350004	351854	349407	0.80	cps
Bismuth	209-1	8023532	7933763	8059435	8005577	0.81	cps
Bismuth	209-2	3032577	2927003	3078623	3012734	2.58	cps
Bromine	81-1	4814	5148	5148	5037	3.82	cps
Cadmium	108-1	35045	35399	35957	35467	1.30	cps
Cadmium	106-1	56870	58550	58051	57824	1.49	cps
Cadmium	111-1	249857	250657	254784	251766	1.05	cps
Calcium	43-1	78955	78606	79672	79078	0.69	cps
Calcium	44-1	1265988	1291853	1301074	1286305	1.41	cps
Carbon	12-1	2417879	2418697	2438115	2424897	0.47	cps
Carbon	12-2	16526	16696	16983	16735	1.38	cps
Chlorine	35-1	132816	134282	135436	134178	0.98	cps
Chlorine	35-2	537	537	507	527	3.29	cps
Chromium	52-2	193034	190321	189316	190890	1.01	cps
Cobalt	59-2	362141	364109	360279	362176	0.53	cps
Copper	63-2	284922	283471	280081	282825	0.88	cps
Dysprosium	156-1	150	137	147	144	4.80	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Erbium	164-1	57	70	97	74	27.36	cps
Erbium	164-2	17	17	13	16	12.40	cps
Gadolinium	160-1	30	30	30	30	0.00	cps
Gadolinium	160-2	10	23	7	13	66.12	cps
Holmium	165-1	12418026	12415014	12387374	12406805	0.14	cps
Holmium	165-2	4075336	4143052	4213023	4143804	1.66	cps
Indium	115-1	9458696	9532224	9594167	9528363	0.71	cps
Indium	115-2	831901	826511	868152	842188	2.69	cps
Iron	54-2	164211	162596	162260	163022	0.64	cps
Iron	56-2	3021962	3022647	3049445	3031352	0.52	cps
Iron	57-2	74148	73639	71736	73174	1.74	cps
Krypton	83-1	123	187	180	163	21.30	cps
Lead	206-1	1873445	1930228	1890088	1897920	1.54	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1459443	1464187	1469471	1464367	0.34	cps
Lead	208-1	7272571	7262957	7278207	7271245	0.11	cps
Lithium	6-1	5137830	5075490	5132759	5115359	0.68	cps
Magnesium	24-2	164631	164412	164075	164373	0.17	cps
Manganese	55-2	82040	83026	81162	82076	1.14	cps
Molybdenum	94-1	17308303	17238426	17295234	17280654	0.21	cps
Molybdenum	95-1	25273264	25118447	25233154	25208288	0.32	cps
Molybdenum	96-1	27444351	27278456	27442344	27388384	0.35	cps
Molybdenum	97-1	15322033	15426143	15451967	15400047	0.45	cps
Molybdenum	98-1	40230486	40619759	40425790	40425345	0.48	cps
Neodymium	150-1	33	67	27	42	50.76	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	100850	100042	99844	100245	0.53	cps
Phosphorus	31-2	23	27	43	31	34.44	cps
Potassium	39-2	154534	154288	153345	154056	0.41	cps
Rhodium	103-1	8470883	8719751	8775086	8655240	1.87	cps
Rhodium	103-2	3184250	3129519	3330784	3214851	3.24	cps
Scandium	45-1	6767818	6762794	6788379	6772997	0.20	cps
Scandium	45-2	107491	106816	112842	109050	3.03	cps
Selenium	82-1	32367	32334	32548	32417	0.35	cps
Selenium	77-2	443	467	507	472	6.78	cps
Selenium	78-2	1557	1630	1683	1623	3.92	cps
Silicon	28-1	3542434	3539463	3548376	3543425	0.13	cps
Silver	107-1	619883	631767	635711	629120	1.31	cps
Silver	109-1	581856	595683	600958	592833	1.66	cps
Sodium	23-2	567422	567728	566723	567291	0.09	cps
Strontium	86-1	1689707	1691968	1691454	1691043	0.07	cps
Strontium	88-1	14600565	14671420	14711187	14661057	0.38	cps
Sulfur	34-1	260649	260696	259220	260188	0.32	cps
Terbium	159-1	12693416	12787868	12902846	12794710	0.82	cps
Terbium	159-2	4000103	3980833	4085707	4022214	1.39	cps
Thallium	203-1	2259864	2303167	2296983	2286671	1.02	cps
Thallium	205-1	5480003	5428197	5464634	5457611	0.49	cps
Tin	118-1	4376014	4411899	4380433	4389448	0.45	cps
Titanium	47-1	7653640	7655957	7643156	7650918	0.09	cps
Uranium	238-1	22056817	21827512	21830265	21904864	0.60	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:30:51	DataFile Name :	020ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	143302	143487	142041	142943	0.55	cps
Ytterbium	172-1	67	57	60	61	8.33	cps
Ytterbium	172-2	33	30	30	31	6.18	cps
Ytterbium	176-1	24002	24239	24282	24174	0.62	cps
Ytterbium	176-2	7589	7642	7826	7686	1.62	cps
Yttrium	89-1	17198398	17105144	17336076	17213206	0.67	cps
Yttrium	89-2	1063184	1053276	1105117	1073859	2.56	cps
Zinc	66-2	57593	56981	57924	57499	0.83	cps
Zirconium	90-1	8608767	8517925	8564029	8563573	0.53	cps
Zirconium	91-1	1950776	1965839	1950873	1955829	0.44	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	720	797	780	766	5.27	cps
Antimony	121-1	19300	18740	19637	19226	2.36	cps
Arsenic	75-2	140	130	173	148	15.36	cps
Barium	135-1	24349	24736	25935	25006	3.31	cps
Barium	137-1	42282	43245	43222	42917	1.28	cps
Beryllium	9-1	3616	3683	3633	3644	0.95	cps
Bismuth	209-1	8122212	8037115	8091821	8083716	0.53	cps
Bismuth	209-2	3089228	3041467	2977602	3036099	1.84	cps
Bromine	81-1	4931	5068	5284	5094	3.50	cps
Cadmium	108-1	287	263	297	282	6.06	cps
Cadmium	106-1	5821	5625	5868	5771	2.24	cps
Cadmium	111-1	3661	3397	3556	3538	3.74	cps
Calcium	43-1	18525	18465	18422	18471	0.28	cps
Calcium	44-1	289770	299484	298920	296058	1.84	cps
Carbon	12-1	2019957	1990562	2003636	2004718	0.73	cps
Carbon	12-2	13546	13640	13703	13630	0.58	cps
Chlorine	35-1	121991	123051	122466	122503	0.43	cps
Chlorine	35-2	467	457	427	450	4.63	cps
Chromium	52-2	4257	4301	4047	4202	3.23	cps
Cobalt	59-2	3694	3844	3794	3777	2.02	cps
Copper	63-2	7315	7172	7145	7211	1.27	cps
Dysprosium	156-1	117	117	153	129	16.43	cps
Dysprosium	156-2	3	3	10	6	69.34	cps
Erbium	164-1	37	63	73	58	32.80	cps
Erbium	164-2	17	20	17	18	10.81	cps
Gadolinium	160-1	33	40	43	39	13.09	cps
Gadolinium	160-2	20	10	23	18	39.03	cps
Holmium	165-1	12745274	12716806	12544514	12668864	0.86	cps
Holmium	165-2	4147264	4111078	4144733	4134359	0.49	cps
Indium	115-1	9973061	9881677	9949080	9934606	0.48	cps
Indium	115-2	856367	858101	856455	856974	0.11	cps
Iron	54-2	4501	4177	4357	4345	3.73	cps
Iron	56-2	79125	77851	78967	78647	0.88	cps
Iron	57-2	2003	2094	1970	2022	3.16	cps
Krypton	83-1	113	143	177	144	21.93	cps
Lead	206-1	9020	9340	9110	9157	1.80	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7899	8096	7692	7896	2.56	cps
Lead	208-1	34992	36524	35650	35722	2.15	cps
Lithium	6-1	5339602	5291734	5192365	5274567	1.42	cps
Magnesium	24-2	72144	71327	71143	71538	0.75	cps
Manganese	55-2	1203	1027	1107	1112	7.95	cps
Molybdenum	94-1	21059	20983	20579	20874	1.24	cps
Molybdenum	95-1	24989	25363	25487	25280	1.02	cps
Molybdenum	96-1	28022	28045	28122	28063	0.19	cps
Molybdenum	97-1	15909	15933	15679	15840	0.88	cps
Molybdenum	98-1	40970	40646	40803	40806	0.40	cps
Neodymium	150-1	20	27	13	20	33.35	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1743	1730	1703	1726	1.18	cps
Phosphorus	31-2	93	73	53	73	27.27	cps
Potassium	39-2	41740	41526	41045	41437	0.86	cps
Rhodium	103-1	8965265	8858106	8910747	8911372	0.60	cps
Rhodium	103-2	3250918	3223019	3309238	3261058	1.35	cps
Scandium	45-1	6902495	6866889	6883647	6884344	0.26	cps
Scandium	45-2	109150	109694	107918	108921	0.84	cps
Selenium	82-1	837	643	650	710	15.46	cps
Selenium	77-2	20	20	13	18	21.66	cps
Selenium	78-2	53	37	43	44	18.87	cps
Silicon	28-1	328544	328968	326806	328106	0.35	cps
Silver	107-1	12195	12813	12486	12498	2.47	cps
Silver	109-1	11555	11655	11902	11704	1.53	cps
Sodium	23-2	152723	150867	151368	151653	0.63	cps
Strontium	86-1	3294	3420	3644	3453	5.13	cps
Strontium	88-1	30393	29872	30567	30277	1.19	cps
Sulfur	34-1	262741	266697	267636	265691	0.98	cps
Terbium	159-1	13030172	12796118	12831059	12885783	0.98	cps
Terbium	159-2	4074028	4092313	3965230	4043857	1.70	cps
Thallium	203-1	10321	10628	10878	10609	2.63	cps
Thallium	205-1	25305	25014	25689	25336	1.34	cps
Tin	118-1	41844	43515	42262	42540	2.05	cps
Titanium	47-1	8212	7926	8146	8095	1.85	cps
Uranium	238-1	39029	40064	40581	39892	1.98	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:35:06	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7349	6998	7012	7120	2.79	cps
Ytterbium	172-1	77	63	67	69	10.08	cps
Ytterbium	172-2	13	27	17	19	36.75	cps
Ytterbium	176-1	1857	1733	1700	1763	4.68	cps
Ytterbium	176-2	177	233	217	209	13.94	cps
Yttrium	89-1	17759258	17576268	17247903	17527810	1.48	cps
Yttrium	89-2	1072795	1068516	1068059	1069790	0.24	cps
Zinc	66-2	1603	1503	1487	1531	4.12	cps
Zirconium	90-1	17611	18025	18352	17996	2.06	cps
Zirconium	91-1	4101	4051	3961	4037	1.76	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30	43	63	46	36.83	cps
Antimony	121-1	257	227	213	232	9.56	cps
Arsenic	75-2	0	7	3	3	100.05	cps
Barium	135-1	143	123	117	128	10.86	cps
Barium	137-1	210	200	217	209	4.02	cps
Beryllium	9-1	256	229	220	235	8.05	cps
Bismuth	209-1	8077397	8142031	7750533	7989987	2.63	cps
Bismuth	209-2	3020593	2986177	3015133	3007301	0.62	cps
Bromine	81-1	4984	5284	4888	5052	4.10	cps
Cadmium	108-1	50	50	63	54	14.14	cps
Cadmium	106-1	5555	5308	5528	5463	2.48	cps
Cadmium	111-1	1136	1100	1155	1130	2.46	cps
Calcium	43-1	450	430	433	438	2.45	cps
Calcium	44-1	5725	5941	5908	5858	1.99	cps
Carbon	12-1	1993510	1945672	1952321	1963834	1.32	cps
Carbon	12-2	13653	13126	13640	13473	2.23	cps
Chlorine	35-1	120032	119884	121894	120604	0.93	cps
Chlorine	35-2	450	417	383	417	8.00	cps
Chromium	52-2	500	470	457	476	4.67	cps
Cobalt	59-2	143	133	133	137	4.22	cps
Copper	63-2	1553	1563	1647	1588	3.23	cps
Dysprosium	156-1	127	140	120	129	7.90	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	77	67	67	70	8.25	cps
Erbium	164-2	7	30	17	18	65.83	cps
Gadolinium	160-1	37	33	23	31	22.31	cps
Gadolinium	160-2	3	3	3	3	0.00	cps
Holmium	165-1	12511932	12647768	11933841	12364514	3.07	cps
Holmium	165-2	4119317	4120776	4123916	4121336	0.06	cps
Indium	115-1	9863936	9888119	9382325	9711460	2.94	cps
Indium	115-2	848651	842156	846112	845640	0.39	cps
Iron	54-2	347	333	363	348	4.32	cps
Iron	56-2	5675	5875	5961	5837	2.52	cps
Iron	57-2	147	153	160	153	4.35	cps
Krypton	83-1	167	157	123	149	15.24	cps
Lead	206-1	940	987	913	947	3.92	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	770	670	810	750	9.61	cps
Lead	208-1	3694	3590	3574	3619	1.80	cps
Lithium	6-1	5206795	5219357	5050940	5159030	1.82	cps
Magnesium	24-2	477	540	533	517	6.74	cps
Manganese	55-2	220	187	243	217	13.15	cps
Molybdenum	94-1	577	417	453	482	17.38	cps
Molybdenum	95-1	637	447	463	516	20.41	cps
Molybdenum	96-1	703	677	700	693	2.10	cps
Molybdenum	97-1	413	283	273	323	24.15	cps
Molybdenum	98-1	867	723	713	768	11.17	cps
Neodymium	150-1	20	7	13	13	49.99	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	737	743	750	743	0.90	cps
Phosphorus	31-2	27	53	30	37	39.62	cps
Potassium	39-2	3977	4031	4084	4031	1.32	cps
Rhodium	103-1	8922026	8874390	8613756	8803391	1.89	cps
Rhodium	103-2	3218521	3194699	3267389	3226870	1.15	cps
Scandium	45-1	6803242	6842707	6599963	6748637	1.93	cps
Scandium	45-2	108508	106857	106498	107287	1.00	cps
Selenium	82-1	-50	-33	-7	-30	-72.85	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	3	0	2	86.60	cps
Silicon	28-1	265315	266572	262861	264916	0.71	cps
Silver	107-1	253	247	283	261	7.48	cps
Silver	109-1	123	147	123	131	10.27	cps
Sodium	23-2	14764	14948	15161	14958	1.33	cps
Strontium	86-1	297	250	297	281	9.59	cps
Strontium	88-1	873	973	853	900	7.14	cps
Sulfur	34-1	264616	266456	263998	265023	0.48	cps
Terbium	159-1	12941359	12754087	12207593	12634346	3.02	cps
Terbium	159-2	4037659	3979117	3984337	4000371	0.81	cps
Thallium	203-1	393	333	340	356	9.25	cps
Thallium	205-1	903	840	867	870	3.65	cps
Tin	118-1	1393	1403	1307	1368	3.89	cps
Titanium	47-1	187	207	237	210	11.98	cps
Uranium	238-1	857	697	787	780	10.28	cps

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:38:31	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	20	13	12	68.66	cps
Ytterbium	172-1	57	83	57	66	23.48	cps
Ytterbium	172-2	27	20	23	23	14.29	cps
Ytterbium	176-1	1547	1580	1557	1561	1.10	cps
Ytterbium	176-2	237	270	233	247	8.22	cps
Yttrium	89-1	17524246	17550446	16715300	17263331	2.75	cps
Yttrium	89-2	1062450	1048532	1055486	1055490	0.66	cps
Zinc	66-2	227	210	227	221	4.35	cps
Zirconium	90-1	617	690	567	624	9.93	cps
Zirconium	91-1	150	130	153	144	8.74	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4008851	4083286	4030506	4040881	0.95	cps
Antimony	121-1	10771	11365	11131	11089	2.70	cps
Arsenic	75-2	47	37	43	42	12.06	cps
Barium	135-1	3797	4091	3941	3943	3.72	cps
Barium	137-1	6502	7142	6929	6857	4.75	cps
Beryllium	9-1	1184	1184	1144	1170	1.97	cps
Bismuth	209-1	7501456	7517952	7583993	7534467	0.58	cps
Bismuth	209-2	2788038	2795508	2732156	2771901	1.25	cps
Bromine	81-1	6808	7289	7265	7121	3.80	cps
Cadmium	108-1	3200	3264	3180	3215	1.35	cps
Cadmium	106-1	5158	5418	5304	5293	2.46	cps
Cadmium	111-1	2739	2670	2765	2724	1.81	cps
Calcium	43-1	3785141	3921179	3929379	3878566	2.09	cps
Calcium	44-1	61685191	62715704	63320569	62573821	1.32	cps
Carbon	12-1	30018022	30578234	31052269	30549508	1.69	cps
Carbon	12-2	217650	216875	219006	217844	0.50	cps
Chlorine	35-1	45129828	48952176	50836454	48306153	6.02	cps
Chlorine	35-2	185894	188026	187576	187165	0.60	cps
Chromium	52-2	39123	39601	39240	39322	0.63	cps
Cobalt	59-2	4451	4297	4287	4345	2.11	cps
Copper	63-2	22812	22832	22798	22814	0.07	cps
Dysprosium	156-1	157	133	133	141	9.54	cps
Dysprosium	156-2	17	23	17	19	20.36	cps
Erbium	164-1	117	87	113	106	15.58	cps
Erbium	164-2	27	40	27	31	24.74	cps
Gadolinium	160-1	83	80	83	82	2.34	cps
Gadolinium	160-2	13	27	20	20	33.35	cps
Holmium	165-1	12577756	13180201	13128188	12962048	2.58	cps
Holmium	165-2	4274589	4212376	4194810	4227258	0.99	cps
Indium	115-1	9366503	9661643	9653498	9560548	1.76	cps
Indium	115-2	842885	841885	831263	838677	0.77	cps
Iron	54-2	8483680	8405409	8408800	8432630	0.52	cps
Iron	56-2	157136174	156511524	154971804	156206501	0.71	cps
Iron	57-2	3897795	3890972	3977726	3922164	1.23	cps
Krypton	83-1	147	140	153	147	4.55	cps
Lead	206-1	40854	40677	40135	40555	0.92	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	32708	32123	31488	32106	1.90	cps
Lead	208-1	154446	152416	150860	152574	1.18	cps
Lithium	6-1	4943058	4940564	4923276	4935633	0.22	cps
Magnesium	24-2	14582095	14733065	14409153	14574771	1.11	cps
Manganese	55-2	6508	6502	7035	6682	4.58	cps
Molybdenum	94-1	5898433	6148392	6128432	6058419	2.29	cps
Molybdenum	95-1	10473078	10948226	10860888	10760731	2.35	cps
Molybdenum	96-1	11227562	11632383	11591111	11483685	1.94	cps
Molybdenum	97-1	6527335	6646591	6736530	6636819	1.58	cps
Molybdenum	98-1	17144516	17555381	17805860	17501919	1.91	cps
Neodymium	150-1	67	77	57	67	15.00	cps
Neodymium	150-2	10	3	3	6	69.34	cps
Nickel	60-2	5881	6015	5935	5944	1.13	cps
Phosphorus	31-2	187808	188882	187616	188102	0.36	cps
Potassium	39-2	8333625	8324331	8356693	8338216	0.20	cps
Rhodium	103-1	8237517	8483222	8490087	8403609	1.71	cps
Rhodium	103-2	3125791	3119717	3047518	3097676	1.41	cps
Scandium	45-1	6855170	7005257	6993075	6951168	1.20	cps
Scandium	45-2	114454	112684	111958	113032	1.14	cps
Selenium	82-1	13	30	33	26	41.94	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	0	7	4	86.60	cps
Silicon	28-1	470934	482983	480889	478269	1.35	cps
Silver	107-1	877	747	680	768	13.03	cps
Silver	109-1	800	700	640	713	11.33	cps
Sodium	23-2	30630586	30947045	30174293	30583975	1.27	cps
Strontium	86-1	117276	120883	120698	119619	1.70	cps
Strontium	88-1	1016378	1050153	1060820	1042450	2.23	cps
Sulfur	34-1	5259172	5370179	5362391	5330580	1.16	cps
Terbium	159-1	12995285	13275903	13213908	13161699	1.12	cps
Terbium	159-2	4103846	4104704	4078335	4095628	0.37	cps
Thallium	203-1	1633	1640	1730	1668	3.24	cps
Thallium	205-1	3851	3927	3927	3902	1.13	cps
Tin	118-1	2910	2837	2840	2863	1.45	cps
Titanium	47-1	3416690	3465284	3494307	3458760	1.13	cps
Uranium	238-1	235179	242363	242026	239856	1.69	cps

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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:41:54	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	210	173	220	201	12.22	cps
Ytterbium	172-1	77	57	50	61	22.71	cps
Ytterbium	172-2	23	23	20	22	8.65	cps
Ytterbium	176-1	1683	1767	1643	1698	3.71	cps
Ytterbium	176-2	203	243	243	230	10.04	cps
Yttrium	89-1	17154846	17857891	18002772	17671836	2.57	cps
Yttrium	89-2	1107464	1110446	1092566	1103492	0.87	cps
Zinc	66-2	3631	3384	3274	3429	5.33	cps
Zirconium	90-1	773	917	887	859	8.80	cps
Zirconium	91-1	177	190	170	179	5.69	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4092298	4111196	4140653	4114716	0.59	cps
Antimony	121-1	210464	214838	214147	213150	1.10	cps
Arsenic	75-2	3417	3267	3747	3477	7.06	cps
Barium	135-1	56681	57689	57592	57321	0.97	cps
Barium	137-1	97403	100791	100973	99723	2.02	cps
Beryllium	9-1	70730	71131	71812	71224	0.77	cps
Bismuth	209-1	7648529	7798632	7721939	7723033	0.97	cps
Bismuth	209-2	2781750	2751157	2823164	2785357	1.30	cps
Bromine	81-1	7365	7382	7192	7313	1.44	cps
Cadmium	108-1	6635	6762	6718	6705	0.96	cps
Cadmium	106-1	9927	10527	9960	10138	3.33	cps
Cadmium	111-1	49600	51625	51355	50860	2.16	cps
Calcium	43-1	4023008	4109626	4080544	4071059	1.08	cps
Calcium	44-1	64065964	65313597	65089037	64822866	1.03	cps
Carbon	12-1	31431623	32442874	32806150	32226882	2.21	cps
Carbon	12-2	228583	227551	227042	227725	0.34	cps
Chlorine	35-1	49392958	52923104	54519433	52278498	5.02	cps
Chlorine	35-2	196910	197536	199377	197941	0.65	cps
Chromium	52-2	77780	78309	78423	78171	0.44	cps
Cobalt	59-2	76464	76929	77657	77017	0.78	cps
Copper	63-2	77208	78438	77326	77657	0.87	cps
Dysprosium	156-1	157	143	207	169	19.77	cps
Dysprosium	156-2	27	27	13	22	34.66	cps
Erbium	164-1	87	123	97	102	18.54	cps
Erbium	164-2	23	40	40	34	27.94	cps
Gadolinium	160-1	70	60	73	68	10.24	cps
Gadolinium	160-2	20	20	27	22	17.33	cps
Holmium	165-1	13237833	13346652	13236493	13273660	0.48	cps
Holmium	165-2	4273832	4246457	4249948	4256745	0.35	cps
Indium	115-1	9905842	9986922	9944894	9945886	0.41	cps
Indium	115-2	852043	848350	853448	851280	0.31	cps
Iron	54-2	8553425	8571396	8596007	8573609	0.25	cps
Iron	56-2	157616414	159756091	159625484	158999330	0.75	cps
Iron	57-2	4038926	3986979	4050690	4025532	0.84	cps
Krypton	83-1	147	140	160	149	6.84	cps
Lead	206-1	209215	214939	215422	213192	1.62	cps

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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	173637	176948	178491	176359	1.41	cps
Lead	208-1	807200	822837	828476	819504	1.35	cps
Lithium	6-1	4946845	4896034	5026129	4956336	1.32	cps
Magnesium	24-2	15103724	14792620	14890331	14928892	1.07	cps
Manganese	55-2	23142	23600	22972	23238	1.40	cps
Molybdenum	94-1	6199879	6223737	6263205	6228941	0.51	cps
Molybdenum	95-1	11036202	10974269	11150040	11053504	0.81	cps
Molybdenum	96-1	11789476	11746477	11933129	11823027	0.83	cps
Molybdenum	97-1	6814328	6770204	6891720	6825418	0.90	cps
Molybdenum	98-1	17856331	18142205	18041048	18013195	0.80	cps
Neodymium	150-1	60	90	73	74	20.19	cps
Neodymium	150-2	10	7	17	11	45.82	cps
Nickel	60-2	25429	25583	25733	25582	0.59	cps
Phosphorus	31-2	193239	191176	192229	192215	0.54	cps
Potassium	39-2	8477886	8342659	8396634	8405726	0.81	cps
Rhodium	103-1	8635776	8641893	8738294	8671988	0.66	cps
Rhodium	103-2	3129292	3117582	3131532	3126135	0.24	cps
Scandium	45-1	7202179	7241378	7234585	7226047	0.29	cps
Scandium	45-2	116302	115143	115076	115507	0.60	cps
Selenium	82-1	3294	3380	3584	3419	4.35	cps
Selenium	77-2	23	37	63	41	49.54	cps
Selenium	78-2	127	150	153	143	10.14	cps
Silicon	28-1	506454	514359	521177	513997	1.43	cps
Silver	107-1	240511	242502	246311	243108	1.21	cps
Silver	109-1	228206	232811	235882	232300	1.66	cps
Sodium	23-2	31041625	31204020	31276018	31173888	0.39	cps
Strontium	86-1	123314	125476	125429	124740	0.99	cps
Strontium	88-1	1063494	1081442	1087895	1077610	1.17	cps
Sulfur	34-1	5389571	5561072	5494538	5481727	1.58	cps
Terbium	159-1	13586023	13645896	13681816	13637912	0.35	cps
Terbium	159-2	4127077	4067075	4086547	4093566	0.75	cps
Thallium	203-1	212689	215776	216325	214930	0.91	cps
Thallium	205-1	506936	516797	519602	514445	1.29	cps
Tin	118-1	2704	2534	2660	2633	3.36	cps
Titanium	47-1	3516210	3627234	3620645	3588030	1.74	cps
Uranium	238-1	247258	251609	251452	250106	0.99	cps

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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:45:04	DataFile Name :	024ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	29968	30482	29708	30053	1.31	cps
Ytterbium	172-1	53	110	107	90	35.33	cps
Ytterbium	172-2	23	20	7	17	52.90	cps
Ytterbium	176-1	1823	1790	1727	1780	2.76	cps
Ytterbium	176-2	217	220	200	212	5.05	cps
Yttrium	89-1	18510360	18511231	18595029	18538873	0.26	cps
Yttrium	89-2	1124092	1121064	1116956	1120704	0.32	cps
Zinc	66-2	9070	9403	9163	9212	1.87	cps
Zirconium	90-1	800	907	853	853	6.25	cps
Zirconium	91-1	200	230	197	209	8.79	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2190292	2159988	2160593	2170291	0.80	cps
Antimony	121-1	5339455	5329325	5330801	5333194	0.10	cps
Arsenic	75-2	82365	81286	82446	82032	0.79	cps
Barium	135-1	7026622	6979152	6965384	6990386	0.46	cps
Barium	137-1	11914181	11795953	11867466	11859200	0.50	cps
Beryllium	9-1	1813634	1818357	1861080	1831024	1.43	cps
Bismuth	209-1	7227441	7215069	7187922	7210144	0.28	cps
Bismuth	209-2	2590135	2564956	2530000	2561697	1.18	cps
Bromine	81-1	5828	5888	5945	5887	0.99	cps
Cadmium	108-1	103152	102934	103501	103196	0.28	cps
Cadmium	106-1	153179	152316	152192	152562	0.35	cps
Cadmium	111-1	1199523	1199662	1206806	1201997	0.35	cps
Calcium	43-1	9841647	9746481	9973536	9853888	1.16	cps
Calcium	44-1	159596651	159290454	158134604	159007237	0.48	cps
Carbon	12-1	2644956	2582572	2658856	2628795	1.55	cps
Carbon	12-2	20685	20541	20388	20538	0.72	cps
Chlorine	35-1	2699457	2419890	2271218	2463522	8.83	cps
Chlorine	35-2	6778	6535	5655	6323	9.35	cps
Chromium	52-2	968219	966141	966319	966893	0.12	cps
Cobalt	59-2	1884537	1871150	1867297	1874328	0.48	cps
Copper	63-2	13318775	13275823	13211637	13268745	0.41	cps
Dysprosium	156-1	443	467	467	459	2.94	cps
Dysprosium	156-2	70	60	70	67	8.66	cps
Erbium	164-1	397	327	313	346	12.95	cps
Erbium	164-2	90	163	103	119	32.86	cps
Gadolinium	160-1	257	220	240	239	7.69	cps
Gadolinium	160-2	133	70	87	97	33.96	cps
Holmium	165-1	12657318	12785036	12711241	12717865	0.50	cps
Holmium	165-2	3993118	3970694	4001818	3988544	0.40	cps
Indium	115-1	9278390	9302606	9238318	9273105	0.35	cps
Indium	115-2	777472	768100	775758	773777	0.64	cps
Iron	54-2	10116547	9951685	9931194	9999809	1.02	cps
Iron	56-2	186889631	184108317	186464117	185820688	0.81	cps
Iron	57-2	4747559	4715599	4706620	4723259	0.46	cps
Krypton	83-1	183	190	227	200	11.67	cps
Lead	206-1	22008494	21949161	22040206	21999287	0.21	cps

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Inst Id :P8
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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19010332	18976272	19073997	19020200	0.26	cps
Lead	208-1	87433993	87556065	87454375	87481478	0.07	cps
Lithium	6-1	4585378	4506668	4667145	4586397	1.75	cps
Magnesium	24-2	37157874	36911039	37095835	37054916	0.35	cps
Manganese	55-2	4323109	4307848	4275365	4302107	0.57	cps
Molybdenum	94-1	19455106	19354284	19466882	19425424	0.32	cps
Molybdenum	95-1	28147545	28128584	28207545	28161225	0.15	cps
Molybdenum	96-1	30683565	30259498	30573993	30505685	0.72	cps
Molybdenum	97-1	17699454	17230194	17240043	17389897	1.54	cps
Molybdenum	98-1	45807504	45088926	44878054	45258162	1.08	cps
Neodymium	150-1	817	743	783	781	4.70	cps
Neodymium	150-2	53	33	30	39	32.45	cps
Nickel	60-2	464857	467579	462037	464824	0.60	cps
Phosphorus	31-2	17975	18645	17561	18060	3.03	cps
Potassium	39-2	10169602	10304079	10205336	10226339	0.68	cps
Rhodium	103-1	8164821	7922817	8021808	8036482	1.51	cps
Rhodium	103-2	2842490	2769031	2789230	2800250	1.36	cps
Scandium	45-1	6889794	6820687	6848742	6853074	0.51	cps
Scandium	45-2	107216	108301	107804	107773	0.50	cps
Selenium	82-1	80849	80453	81775	81026	0.84	cps
Selenium	77-2	1170	1143	1173	1162	1.41	cps
Selenium	78-2	3931	4037	3914	3961	1.69	cps
Silicon	28-1	28958955	29003783	29000964	28987900	0.09	cps
Silver	107-1	6615470	6678767	6630276	6641504	0.50	cps
Silver	109-1	6295881	6268695	6271408	6278662	0.24	cps
Sodium	23-2	74562584	73452074	74020069	74011576	0.75	cps
Strontium	86-1	2010643	2001369	1944594	1985535	1.80	cps
Strontium	88-1	17216502	17149885	17041566	17135984	0.52	cps
Sulfur	34-1	913352	910357	911919	911876	0.16	cps
Terbium	159-1	12899401	12857388	12718620	12825136	0.74	cps
Terbium	159-2	3823877	3805519	3838567	3822654	0.43	cps
Thallium	203-1	5710930	5646037	5682021	5679663	0.57	cps
Thallium	205-1	13371081	13319236	13361101	13350472	0.21	cps
Tin	118-1	4631821	4573096	4605182	4603366	0.64	cps
Titanium	47-1	8580149	8605459	8545221	8576943	0.35	cps
Uranium	238-1	22307299	22630753	22289057	22409036	0.86	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:48:13	DataFile Name :	025CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	762856	763245	757508	761203	0.42	cps
Ytterbium	172-1	313	387	350	350	10.48	cps
Ytterbium	172-2	103	127	153	128	19.58	cps
Ytterbium	176-1	27332	27789	27024	27382	1.41	cps
Ytterbium	176-2	8376	8189	8296	8287	1.13	cps
Yttrium	89-1	17602682	17353165	17339250	17431699	0.85	cps
Yttrium	89-2	1039032	1033062	1034842	1035646	0.30	cps
Zinc	66-2	1333130	1331901	1323721	1329584	0.38	cps
Zirconium	90-1	9812617	9797598	9778654	9796290	0.17	cps
Zirconium	91-1	2192190	2240953	2220133	2217759	1.10	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	103	80	101	19.87	cps
Antimony	121-1	1280	1377	1300	1319	3.87	cps
Arsenic	75-2	0	7	7	4	86.60	cps
Barium	135-1	833	723	710	756	8.96	cps
Barium	137-1	1343	1323	1237	1301	4.36	cps
Beryllium	9-1	716	687	619	674	7.43	cps
Bismuth	209-1	8281501	8284687	8183074	8249754	0.70	cps
Bismuth	209-2	3125595	3124452	3037702	3095916	1.63	cps
Bromine	81-1	5601	5581	5708	5630	1.21	cps
Cadmium	108-1	53	87	63	68	25.24	cps
Cadmium	106-1	5948	5851	5431	5743	4.78	cps
Cadmium	111-1	1342	1240	1195	1259	5.99	cps
Calcium	43-1	813	637	653	701	13.91	cps
Calcium	44-1	12579	11375	10948	11634	7.27	cps
Carbon	12-1	2205100	2171716	2127627	2168148	1.79	cps
Carbon	12-2	14050	14501	14320	14290	1.59	cps
Chlorine	35-1	1086157	1015057	962502	1021239	6.08	cps
Chlorine	35-2	3107	3010	2760	2959	6.05	cps
Chromium	52-2	573	570	563	569	0.90	cps
Cobalt	59-2	260	183	213	219	17.65	cps
Copper	63-2	2557	2497	2380	2478	3.63	cps
Dysprosium	156-1	90	117	97	101	13.73	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	80	90	63	78	17.32	cps
Erbium	164-2	10	30	30	23	49.49	cps
Gadolinium	160-1	37	40	17	31	40.56	cps
Gadolinium	160-2	13	7	10	10	33.30	cps
Holmium	165-1	13110373	13144974	13012849	13089399	0.52	cps
Holmium	165-2	4253476	4252663	4295628	4267256	0.58	cps
Indium	115-1	10257190	10377940	10240156	10291762	0.73	cps
Indium	115-2	886138	877760	874210	879370	0.70	cps
Iron	54-2	863	800	810	824	4.13	cps
Iron	56-2	14034	13944	12993	13657	4.22	cps
Iron	57-2	400	353	337	363	9.04	cps
Krypton	83-1	153	147	117	139	14.06	cps
Lead	206-1	3357	3234	2854	3148	8.34	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2874	2850	2574	2766	6.03	cps
Lead	208-1	13456	13169	11542	12723	8.11	cps
Lithium	6-1	5378050	5174785	5222341	5258392	2.02	cps
Magnesium	24-2	1383	1377	1520	1427	5.67	cps
Manganese	55-2	477	373	313	388	21.31	cps
Molybdenum	94-1	1690	1400	1257	1449	15.24	cps
Molybdenum	95-1	1750	1613	1437	1600	9.82	cps
Molybdenum	96-1	2364	1977	1660	2000	17.61	cps
Molybdenum	97-1	1257	920	857	1011	21.27	cps
Molybdenum	98-1	3147	2714	2324	2728	15.10	cps
Neodymium	150-1	17	23	60	33	70.00	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	757	747	827	777	5.61	cps
Phosphorus	31-2	37	23	50	37	36.37	cps
Potassium	39-2	5955	6081	6155	6064	1.67	cps
Rhodium	103-1	9360899	9365713	9226629	9317747	0.85	cps
Rhodium	103-2	3411489	3337487	3367557	3372178	1.10	cps
Scandium	45-1	7260464	7126967	7203863	7197098	0.93	cps
Scandium	45-2	113699	113104	112039	112947	0.74	cps
Selenium	82-1	40	-7	47	27	108.98	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	7	3	100.05	cps
Silicon	28-1	294800	292793	290203	292599	0.79	cps
Silver	107-1	923	800	727	817	12.17	cps
Silver	109-1	773	647	600	673	13.32	cps
Sodium	23-2	23402	22734	22514	22884	2.02	cps
Strontium	86-1	337	257	280	291	14.13	cps
Strontium	88-1	1163	883	1053	1033	13.65	cps
Sulfur	34-1	276263	276744	271870	274959	0.98	cps
Terbium	159-1	13375578	13361706	13327780	13355021	0.18	cps
Terbium	159-2	4230418	4138245	4090890	4153184	1.71	cps
Thallium	203-1	1120	1117	1187	1141	3.46	cps
Thallium	205-1	2794	2677	2437	2636	6.90	cps
Tin	118-1	1527	1667	1663	1619	4.93	cps
Titanium	47-1	497	567	433	499	13.37	cps
Uranium	238-1	1577	1250	1110	1312	18.25	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:51:04	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	27	20	21	24.12	cps
Ytterbium	172-1	93	63	67	74	22.09	cps
Ytterbium	172-2	17	47	20	28	59.19	cps
Ytterbium	176-1	1837	1643	1500	1660	10.18	cps
Ytterbium	176-2	243	243	217	234	6.57	cps
Yttrium	89-1	18509965	18450625	18309608	18423399	0.56	cps
Yttrium	89-2	1112973	1099887	1105805	1106222	0.59	cps
Zinc	66-2	223	250	247	240	6.05	cps
Zirconium	90-1	1343	1080	1130	1185	11.81	cps
Zirconium	91-1	253	323	270	282	12.96	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	830	830	893	851	4.30	cps
Antimony	121-1	20359	20155	20339	20284	0.55	cps
Arsenic	75-2	177	157	237	190	21.91	cps
Barium	135-1	26098	25942	25547	25863	1.10	cps
Barium	137-1	45710	45366	45580	45552	0.38	cps
Beryllium	9-1	3961	3945	3823	3910	1.94	cps
Bismuth	209-1	8284452	8347014	8295280	8308916	0.40	cps
Bismuth	209-2	3149722	3043478	3041743	3078314	2.01	cps
Bromine	81-1	5605	5725	5675	5668	1.06	cps
Cadmium	108-1	273	283	243	267	7.81	cps
Cadmium	106-1	5968	5991	6055	6005	0.75	cps
Cadmium	111-1	3676	3524	3638	3612	2.19	cps
Calcium	43-1	19203	19510	19947	19553	1.91	cps
Calcium	44-1	309478	312739	312109	311442	0.56	cps
Carbon	12-1	2122184	2134449	2114742	2123792	0.47	cps
Carbon	12-2	14160	14504	14387	14350	1.22	cps
Chlorine	35-1	621204	601720	580080	601001	3.42	cps
Chlorine	35-2	2010	2117	1667	1931	12.18	cps
Chromium	52-2	4541	4261	4484	4429	3.34	cps
Cobalt	59-2	4064	4164	4001	4076	2.02	cps
Copper	63-2	7522	7462	7565	7516	0.69	cps
Dysprosium	156-1	157	130	83	123	30.10	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	47	73	63	61	22.04	cps
Erbium	164-2	23	30	27	27	12.51	cps
Gadolinium	160-1	27	53	27	36	43.29	cps
Gadolinium	160-2	10	3	10	8	49.52	cps
Holmium	165-1	13128813	12838408	13101777	13022999	1.23	cps
Holmium	165-2	4291841	4281331	4216588	4263253	0.96	cps
Indium	115-1	10540220	10133580	10296831	10323543	1.98	cps
Indium	115-2	887009	877127	874959	879698	0.73	cps
Iron	54-2	4824	4934	4801	4853	1.47	cps
Iron	56-2	83137	81799	84327	83088	1.52	cps
Iron	57-2	2144	1903	2030	2026	5.93	cps
Krypton	83-1	157	130	133	140	10.38	cps
Lead	206-1	10678	10428	10301	10469	1.83	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9400	8960	9434	9264	2.85	cps
Lead	208-1	42224	40518	41413	41385	2.06	cps
Lithium	6-1	5235487	5200722	5125800	5187336	1.08	cps
Magnesium	24-2	73216	73752	74512	73827	0.88	cps
Manganese	55-2	1033	987	1073	1031	4.21	cps
Molybdenum	94-1	21370	21363	21500	21411	0.36	cps
Molybdenum	95-1	25614	25794	25293	25567	0.99	cps
Molybdenum	96-1	28706	29311	29291	29103	1.18	cps
Molybdenum	97-1	15916	16617	16233	16255	2.16	cps
Molybdenum	98-1	41432	42050	40850	41444	1.45	cps
Neodymium	150-1	53	37	20	37	45.45	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	1807	1733	1733	1758	2.41	cps
Phosphorus	31-2	143	100	97	113	22.97	cps
Potassium	39-2	43759	43124	43629	43504	0.77	cps
Rhodium	103-1	9350003	9346753	9262290	9319682	0.53	cps
Rhodium	103-2	3397452	3361064	3375976	3378164	0.54	cps
Scandium	45-1	7131135	7195259	7221055	7182483	0.64	cps
Scandium	45-2	114175	112700	112156	113011	0.92	cps
Selenium	82-1	767	817	760	781	3.97	cps
Selenium	77-2	3	10	10	8	49.52	cps
Selenium	78-2	47	40	37	41	12.39	cps
Silicon	28-1	331879	330784	332580	331748	0.27	cps
Silver	107-1	13216	13236	13253	13235	0.14	cps
Silver	109-1	12502	12312	12296	12370	0.93	cps
Sodium	23-2	160169	158483	160434	159695	0.66	cps
Strontium	86-1	3727	3924	3731	3794	2.97	cps
Strontium	88-1	30640	30757	31409	30935	1.34	cps
Sulfur	34-1	270760	270771	270391	270641	0.08	cps
Terbium	159-1	13487908	13166437	13294616	13316320	1.22	cps
Terbium	159-2	4173100	4046053	4029392	4082848	1.93	cps
Thallium	203-1	11195	10855	11155	11068	1.68	cps
Thallium	205-1	26283	26373	26667	26441	0.76	cps
Tin	118-1	43877	45218	44576	44557	1.51	cps
Titanium	47-1	8212	8316	8176	8235	0.88	cps
Uranium	238-1	40718	41151	39963	40611	1.48	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:54:26	DataFile Name :	027LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7339	7439	7509	7429	1.15	cps
Ytterbium	172-1	47	57	63	56	15.09	cps
Ytterbium	172-2	27	23	13	21	32.88	cps
Ytterbium	176-1	1767	1713	1687	1722	2.37	cps
Ytterbium	176-2	180	307	233	240	26.50	cps
Yttrium	89-1	18457631	18206946	18457269	18373949	0.79	cps
Yttrium	89-2	1114108	1102394	1100800	1105767	0.66	cps
Zinc	66-2	1687	1690	1527	1635	5.71	cps
Zirconium	90-1	18289	18763	18496	18516	1.28	cps
Zirconium	91-1	4164	3991	4011	4055	2.34	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	860	883	743	829	9.05	cps
Antimony	121-1	20072	20128	19845	20015	0.75	cps
Arsenic	75-2	180	147	157	161	10.62	cps
Barium	135-1	25942	25865	26145	25984	0.56	cps
Barium	137-1	44667	44984	45506	45052	0.94	cps
Beryllium	9-1	3763	3824	3793	3793	0.81	cps
Bismuth	209-1	8378657	8422027	8328916	8376533	0.56	cps
Bismuth	209-2	3054358	3052387	3061040	3055929	0.15	cps
Bromine	81-1	5665	5715	5685	5688	0.44	cps
Cadmium	108-1	233	283	260	259	9.66	cps
Cadmium	106-1	5801	6288	6015	6035	4.04	cps
Cadmium	111-1	3667	4020	3571	3753	6.29	cps
Calcium	43-1	19520	19777	19266	19521	1.31	cps
Calcium	44-1	310070	310179	311249	310500	0.21	cps
Carbon	12-1	2166562	2105170	2107028	2126253	1.64	cps
Carbon	12-2	14417	14337	14330	14362	0.34	cps
Chlorine	35-1	479999	476847	465422	474089	1.62	cps
Chlorine	35-2	1650	1647	1570	1622	2.79	cps
Chromium	52-2	4567	4427	4261	4419	3.48	cps
Cobalt	59-2	3981	4137	4057	4058	1.93	cps
Copper	63-2	7402	7736	7662	7600	2.31	cps
Dysprosium	156-1	90	103	150	114	27.53	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	73	77	63	71	9.76	cps
Erbium	164-2	30	23	20	24	20.83	cps
Gadolinium	160-1	33	27	37	32	15.80	cps
Gadolinium	160-2	7	10	13	10	33.30	cps
Holmium	165-1	13546733	13458116	13241691	13415513	1.17	cps
Holmium	165-2	4227745	4273591	4267293	4256210	0.58	cps
Indium	115-1	10434863	10516617	10438031	10463170	0.44	cps
Indium	115-2	878293	880467	880043	879601	0.13	cps
Iron	54-2	4524	4654	4504	4561	1.79	cps
Iron	56-2	82577	82822	82611	82670	0.16	cps
Iron	57-2	2114	2114	2064	2097	1.38	cps
Krypton	83-1	167	120	127	138	18.32	cps
Lead	206-1	10368	9951	9837	10052	2.78	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8116	8870	8573	8520	4.46	cps
Lead	208-1	39708	39874	39113	39565	1.01	cps
Lithium	6-1	5288708	5401327	5420284	5370106	1.32	cps
Magnesium	24-2	73963	74137	72275	73458	1.40	cps
Manganese	55-2	1060	997	1090	1049	4.54	cps
Molybdenum	94-1	21657	21707	21797	21720	0.33	cps
Molybdenum	95-1	25246	26292	26245	25928	2.28	cps
Molybdenum	96-1	28643	28406	28787	28612	0.67	cps
Molybdenum	97-1	16213	16063	16116	16131	0.47	cps
Molybdenum	98-1	41308	41040	41057	41135	0.36	cps
Neodymium	150-1	40	17	20	26	49.38	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1757	1703	1870	1777	4.79	cps
Phosphorus	31-2	80	83	87	83	4.00	cps
Potassium	39-2	43733	43589	43739	43687	0.19	cps
Rhodium	103-1	9415157	9440182	9377548	9410962	0.34	cps
Rhodium	103-2	3356443	3376151	3336000	3356198	0.60	cps
Scandium	45-1	7313333	7351536	7283917	7316262	0.46	cps
Scandium	45-2	111525	113393	113609	112842	1.02	cps
Selenium	82-1	857	997	823	892	10.31	cps
Selenium	77-2	0	20	3	8	137.80	cps
Selenium	78-2	43	60	37	47	25.75	cps
Silicon	28-1	324949	326418	325021	325462	0.25	cps
Silver	107-1	13073	13083	13120	13092	0.19	cps
Silver	109-1	12165	12159	12469	12264	1.45	cps
Sodium	23-2	158742	157867	160087	158899	0.70	cps
Strontium	86-1	3617	3704	3694	3672	1.29	cps
Strontium	88-1	31128	31115	31439	31227	0.59	cps
Sulfur	34-1	273911	274869	275600	274793	0.31	cps
Terbium	159-1	13680674	13780294	13379331	13613433	1.53	cps
Terbium	159-2	4047258	4139267	4075214	4087246	1.15	cps
Thallium	203-1	11008	11111	10958	11026	0.71	cps
Thallium	205-1	26073	26631	26494	26399	1.10	cps
Tin	118-1	44703	45338	44786	44942	0.77	cps
Titanium	47-1	8296	8349	8236	8294	0.68	cps
Uranium	238-1	40561	39802	40879	40414	1.37	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 15:57:50	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	6945	7272	7105	7107	2.30	cps
Ytterbium	172-1	73	63	53	63	15.79	cps
Ytterbium	172-2	23	17	27	22	22.91	cps
Ytterbium	176-1	1833	1850	1737	1807	3.39	cps
Ytterbium	176-2	207	270	270	249	14.69	cps
Yttrium	89-1	18535507	18891783	18631805	18686365	0.99	cps
Yttrium	89-2	1108062	1101278	1098447	1102595	0.45	cps
Zinc	66-2	1757	1710	1597	1688	4.88	cps
Zirconium	90-1	17938	18355	18659	18318	1.98	cps
Zirconium	91-1	3931	4191	4154	4092	3.44	cps

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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	347	353	450	383	15.09	cps
Antimony	121-1	4304	4464	4454	4407	2.03	cps
Arsenic	75-2	93	100	73	89	15.61	cps
Barium	135-1	5691	5625	5691	5669	0.68	cps
Barium	137-1	9800	9690	10007	9833	1.64	cps
Beryllium	9-1	1755	1762	1741	1753	0.61	cps
Bismuth	209-1	8436040	8382664	8445402	8421369	0.40	cps
Bismuth	209-2	3130858	3083906	3075075	3096613	0.97	cps
Bromine	81-1	5621	5681	5534	5612	1.31	cps
Cadmium	108-1	143	160	120	141	14.24	cps
Cadmium	106-1	5608	5888	6155	5884	4.65	cps
Cadmium	111-1	2305	2066	2190	2187	5.47	cps
Calcium	43-1	8829	8543	8683	8685	1.65	cps
Calcium	44-1	136749	139506	136308	137521	1.26	cps
Carbon	12-1	2102675	2103699	2099099	2101824	0.11	cps
Carbon	12-2	14267	14177	13977	14140	1.05	cps
Chlorine	35-1	390437	381493	375433	382454	1.97	cps
Chlorine	35-2	1343	1310	1317	1323	1.33	cps
Chromium	52-2	1297	1257	1303	1286	1.96	cps
Cobalt	59-2	1663	1597	1740	1667	4.30	cps
Copper	63-2	4347	4147	4234	4243	2.36	cps
Dysprosium	156-1	107	123	140	123	13.51	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	50	77	80	69	23.87	cps
Erbium	164-2	20	27	27	24	15.75	cps
Gadolinium	160-1	30	23	37	30	22.23	cps
Gadolinium	160-2	3	10	7	7	50.03	cps
Holmium	165-1	13305274	13217355	13534207	13352279	1.23	cps
Holmium	165-2	4307173	4181843	4215018	4234678	1.53	cps
Indium	115-1	10372075	10395537	10438375	10401996	0.32	cps
Indium	115-2	892027	881443	862198	878556	1.72	cps
Iron	54-2	3307	3154	2954	3138	5.65	cps
Iron	56-2	58566	58553	57800	58306	0.75	cps
Iron	57-2	1410	1480	1303	1398	6.36	cps
Krypton	83-1	133	80	123	112	25.26	cps
Lead	206-1	4828	5054	5108	4997	2.98	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4467	4227	4391	4362	2.81	cps
Lead	208-1	19659	20063	20307	20010	1.63	cps
Lithium	6-1	5317348	5301270	5349994	5322870	0.47	cps
Magnesium	24-2	33044	32269	32897	32737	1.26	cps
Manganese	55-2	857	1077	870	934	13.20	cps
Molybdenum	94-1	4184	4044	4391	4206	4.15	cps
Molybdenum	95-1	2370	2544	2204	2372	7.17	cps
Molybdenum	96-1	3254	3090	3027	3124	3.75	cps
Molybdenum	97-1	1490	1333	1430	1418	5.58	cps
Molybdenum	98-1	3867	3934	3884	3895	0.89	cps
Neodymium	150-1	17	23	17	19	20.36	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1213	1230	1247	1230	1.35	cps
Phosphorus	31-2	53	50	57	53	6.25	cps
Potassium	39-2	15942	15689	15528	15720	1.33	cps
Rhodium	103-1	9385490	9469188	9717674	9524118	1.81	cps
Rhodium	103-2	3385480	3359821	3335685	3360329	0.74	cps
Scandium	45-1	7285292	7346076	7326386	7319251	0.42	cps
Scandium	45-2	114438	111676	110219	112111	1.91	cps
Selenium	82-1	740	1053	937	910	17.40	cps
Selenium	77-2	23	23	7	18	54.11	cps
Selenium	78-2	33	63	47	48	31.46	cps
Silicon	28-1	275011	274899	273812	274574	0.24	cps
Silver	107-1	5828	5778	5955	5854	1.56	cps
Silver	109-1	5234	5301	5655	5397	4.18	cps
Sodium	23-2	78228	78268	79931	78809	1.23	cps
Strontium	86-1	1723	1787	1743	1751	1.85	cps
Strontium	88-1	13026	13467	13160	13217	1.71	cps
Sulfur	34-1	272169	276097	275008	274425	0.74	cps
Terbium	159-1	13461018	13487273	13694564	13547618	0.94	cps
Terbium	159-2	4202042	4167953	3997968	4122655	2.65	cps
Thallium	203-1	5188	4964	4934	5029	2.75	cps
Thallium	205-1	12229	11625	12259	12038	2.97	cps
Tin	118-1	5078	5088	4994	5053	1.01	cps
Titanium	47-1	847	877	933	886	4.97	cps
Uranium	238-1	17568	17855	17808	17744	0.87	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:01:12	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	530	627	650	602	10.56	cps
Ytterbium	172-1	80	87	90	86	5.95	cps
Ytterbium	172-2	33	40	40	38	10.19	cps
Ytterbium	176-1	1870	1830	1677	1792	5.69	cps
Ytterbium	176-2	187	257	233	226	15.80	cps
Yttrium	89-1	18532284	18569668	18857293	18653082	0.95	cps
Yttrium	89-2	1112040	1103766	1082178	1099328	1.40	cps
Zinc	66-2	450	447	490	462	5.22	cps
Zirconium	90-1	8042	7846	7669	7852	2.38	cps
Zirconium	91-1	1823	1813	1757	1798	2.00	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1040	1163	1223	1142	8.18	cps
Antimony	121-1	20051	20295	20409	20252	0.90	cps
Arsenic	75-2	190	190	147	176	14.25	cps
Barium	135-1	26209	26533	26349	26363	0.62	cps
Barium	137-1	45483	46389	46178	46017	1.03	cps
Beryllium	9-1	3774	3731	3949	3818	3.02	cps
Bismuth	209-1	8260491	8683690	8387687	8443956	2.57	cps
Bismuth	209-2	3066363	3086646	3056763	3069924	0.50	cps
Bromine	81-1	5648	5598	5845	5697	2.29	cps
Cadmium	108-1	267	250	250	256	3.76	cps
Cadmium	106-1	6365	6061	6151	6193	2.52	cps
Cadmium	111-1	3790	3804	3669	3754	1.98	cps
Calcium	43-1	20144	20107	20191	20148	0.21	cps
Calcium	44-1	313311	315375	315835	314840	0.43	cps
Carbon	12-1	2110109	2071934	2045669	2075904	1.56	cps
Carbon	12-2	14177	13820	14114	14037	1.36	cps
Chlorine	35-1	319689	312449	309735	313958	1.64	cps
Chlorine	35-2	993	1103	1027	1041	5.42	cps
Chromium	52-2	4534	4624	4591	4583	0.99	cps
Cobalt	59-2	4054	4054	3961	4023	1.34	cps
Copper	63-2	7515	7555	7962	7678	3.22	cps
Dysprosium	156-1	127	93	77	99	25.75	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	63	67	63	64	2.99	cps
Erbium	164-2	33	23	17	24	34.31	cps
Gadolinium	160-1	30	23	47	33	36.07	cps
Gadolinium	160-2	13	10	10	11	17.30	cps
Holmium	165-1	13097719	13744333	13006972	13283008	3.03	cps
Holmium	165-2	4219968	4257059	4301613	4259547	0.96	cps
Indium	115-1	10310794	10585990	10212906	10369897	1.87	cps
Indium	115-2	872172	881901	887542	880538	0.88	cps
Iron	54-2	4858	4677	4811	4782	1.95	cps
Iron	56-2	84424	83948	83566	83979	0.51	cps
Iron	57-2	2154	2104	2167	2141	1.56	cps
Krypton	83-1	177	160	137	158	12.73	cps
Lead	206-1	10217	9757	9700	9892	2.87	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8616	8670	8440	8575	1.40	cps
Lead	208-1	39453	39197	38376	39009	1.44	cps
Lithium	6-1	5320081	5516188	5249509	5361926	2.58	cps
Magnesium	24-2	73581	74103	73745	73810	0.36	cps
Manganese	55-2	1027	1060	1087	1058	2.84	cps
Molybdenum	94-1	21193	21133	21620	21315	1.25	cps
Molybdenum	95-1	25918	25787	26014	25906	0.44	cps
Molybdenum	96-1	28279	29384	29014	28892	1.95	cps
Molybdenum	97-1	16296	16256	16176	16243	0.38	cps
Molybdenum	98-1	42572	42318	42231	42373	0.42	cps
Neodymium	150-1	27	20	17	21	24.12	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1803	1843	1837	1828	1.17	cps
Phosphorus	31-2	63	83	103	83	24.00	cps
Potassium	39-2	43375	43475	43790	43547	0.50	cps
Rhodium	103-1	9436550	9629684	9272648	9446294	1.89	cps
Rhodium	103-2	3353397	3375101	3368975	3365824	0.33	cps
Scandium	45-1	7134742	7544541	7139640	7272974	3.23	cps
Scandium	45-2	111149	113735	111921	112268	1.18	cps
Selenium	82-1	763	693	780	746	6.17	cps
Selenium	77-2	23	23	10	19	40.75	cps
Selenium	78-2	37	27	40	34	20.14	cps
Silicon	28-1	321798	318452	321610	320620	0.59	cps
Silver	107-1	12953	13116	13166	13079	0.85	cps
Silver	109-1	12416	12376	12633	12475	1.11	cps
Sodium	23-2	157617	157738	157692	157682	0.04	cps
Strontium	86-1	3921	3661	3667	3749	3.95	cps
Strontium	88-1	31145	31198	30513	30952	1.23	cps
Sulfur	34-1	277618	276625	279527	277923	0.53	cps
Terbium	159-1	13431135	14039914	13200363	13557138	3.20	cps
Terbium	159-2	4131931	4101310	4196896	4143379	1.18	cps
Thallium	203-1	11095	11649	11138	11294	2.73	cps
Thallium	205-1	26972	26784	26554	26770	0.78	cps
Tin	118-1	44121	44455	45221	44599	1.26	cps
Titanium	47-1	8373	8463	8189	8341	1.67	cps
Uranium	238-1	41055	41447	41624	41375	0.70	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:04:37	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7312	7372	7362	7349	0.44	cps
Ytterbium	172-1	97	73	87	86	13.69	cps
Ytterbium	172-2	30	27	33	30	11.10	cps
Ytterbium	176-1	1660	1783	1733	1726	3.59	cps
Ytterbium	176-2	243	273	200	239	15.43	cps
Yttrium	89-1	18494406	19136136	18389918	18673487	2.16	cps
Yttrium	89-2	1094463	1104334	1112597	1103798	0.82	cps
Zinc	66-2	1797	1803	1693	1765	3.50	cps
Zirconium	90-1	18556	18305	18749	18537	1.20	cps
Zirconium	91-1	4041	4071	3971	4027	1.27	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	860	680	767	769	11.71	cps
Antimony	121-1	19965	20172	20355	20164	0.97	cps
Arsenic	75-2	137	123	193	151	24.60	cps
Barium	135-1	26316	25250	25531	25699	2.15	cps
Barium	137-1	43938	44897	44720	44518	1.15	cps
Beryllium	9-1	3678	3826	3694	3733	2.19	cps
Bismuth	209-1	8081032	8309626	8190697	8193785	1.40	cps
Bismuth	209-2	3092165	3064963	3090923	3082684	0.50	cps
Bromine	81-1	5551	5511	5344	5469	2.01	cps
Cadmium	108-1	217	233	247	232	6.47	cps
Cadmium	106-1	6188	5951	5948	6029	2.28	cps
Cadmium	111-1	3736	3674	3744	3718	1.03	cps
Calcium	43-1	19113	19270	19043	19142	0.61	cps
Calcium	44-1	304892	308105	306767	306588	0.53	cps
Carbon	12-1	2103840	2099768	2068514	2090707	0.92	cps
Carbon	12-2	13873	13833	13897	13868	0.23	cps
Chlorine	35-1	236506	232524	227838	232289	1.87	cps
Chlorine	35-2	910	707	787	801	12.79	cps
Chromium	52-2	4167	4154	4391	4237	3.14	cps
Cobalt	59-2	4127	3924	3934	3995	2.87	cps
Copper	63-2	7382	7299	7349	7343	0.57	cps
Dysprosium	156-1	160	113	120	131	19.25	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	63	87	87	79	17.08	cps
Erbium	164-2	17	10	17	14	26.66	cps
Gadolinium	160-1	20	17	37	24	43.83	cps
Gadolinium	160-2	20	3	13	12	68.66	cps
Holmium	165-1	12823494	13085707	13006237	12971813	1.04	cps
Holmium	165-2	4269952	4220763	4202365	4231027	0.83	cps
Indium	115-1	10140445	10150647	10359991	10217027	1.21	cps
Indium	115-2	864170	870778	873390	869446	0.55	cps
Iron	54-2	4527	4367	4654	4516	3.18	cps
Iron	56-2	79071	80103	82678	80617	2.30	cps
Iron	57-2	2044	1920	2064	2009	3.86	cps
Krypton	83-1	97	163	127	129	25.91	cps
Lead	206-1	9373	9644	9423	9480	1.52	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8163	8433	8326	8307	1.64	cps
Lead	208-1	38083	37969	37541	37864	0.75	cps
Lithium	6-1	5201036	5345205	5322335	5289525	1.46	cps
Magnesium	24-2	71316	71457	72857	71877	1.19	cps
Manganese	55-2	1080	957	1183	1073	10.57	cps
Molybdenum	94-1	21433	21146	21036	21205	0.97	cps
Molybdenum	95-1	25961	25851	26141	25984	0.56	cps
Molybdenum	96-1	28269	28990	28426	28562	1.33	cps
Molybdenum	97-1	15419	15609	15999	15676	1.89	cps
Molybdenum	98-1	40689	41395	40957	41014	0.87	cps
Neodymium	150-1	13	13	20	16	24.76	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	1980	1830	1723	1845	6.99	cps
Phosphorus	31-2	103	80	97	93	12.88	cps
Potassium	39-2	41573	41533	42402	41836	1.17	cps
Rhodium	103-1	9150474	9205165	9349394	9235011	1.11	cps
Rhodium	103-2	3354167	3335580	3373123	3354290	0.56	cps
Scandium	45-1	7122349	7123261	7129240	7124950	0.05	cps
Scandium	45-2	110437	109325	111125	110296	0.82	cps
Selenium	82-1	737	753	863	784	8.78	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	67	23	23	38	66.24	cps
Silicon	28-1	317551	316988	316398	316979	0.18	cps
Silver	107-1	12829	12879	12666	12792	0.87	cps
Silver	109-1	11818	12045	12202	12022	1.60	cps
Sodium	23-2	152521	152645	154707	153291	0.80	cps
Strontium	86-1	3561	3664	3694	3639	1.92	cps
Strontium	88-1	30423	30607	31101	30710	1.14	cps
Sulfur	34-1	277600	278788	272407	276265	1.23	cps
Terbium	159-1	13177154	13330953	13373619	13293909	0.78	cps
Terbium	159-2	4099667	4066455	4086017	4084047	0.41	cps
Thallium	203-1	11035	10811	10938	10928	1.03	cps
Thallium	205-1	25879	26086	26293	26086	0.79	cps
Tin	118-1	43134	44646	44071	43950	1.74	cps
Titanium	47-1	7742	8099	7939	7927	2.26	cps
Uranium	238-1	40318	40057	39559	39978	0.96	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:11:25	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7385	7199	6998	7194	2.69	cps
Ytterbium	172-1	63	67	93	74	22.09	cps
Ytterbium	172-2	30	30	30	30	0.00	cps
Ytterbium	176-1	1630	1730	1647	1669	3.21	cps
Ytterbium	176-2	240	253	227	240	5.56	cps
Yttrium	89-1	18143164	18492515	18296549	18310743	0.96	cps
Yttrium	89-2	1082086	1088552	1096784	1089141	0.68	cps
Zinc	66-2	1710	1753	1753	1739	1.44	cps
Zirconium	90-1	18012	18219	18192	18141	0.62	cps
Zirconium	91-1	4077	3834	3991	3967	3.11	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	330	390	357	359	8.38	cps
Antimony	121-1	4154	4144	4314	4204	2.27	cps
Arsenic	75-2	73	87	80	80	8.34	cps
Barium	135-1	5271	5508	5575	5451	2.93	cps
Barium	137-1	9473	9664	9610	9582	1.02	cps
Beryllium	9-1	1675	1712	1750	1712	2.19	cps
Bismuth	209-1	8271044	8066549	8024587	8120727	1.62	cps
Bismuth	209-2	3202647	3249462	3063623	3171910	3.05	cps
Bromine	81-1	5531	5324	5534	5463	2.20	cps
Cadmium	108-1	110	117	113	113	2.94	cps
Cadmium	106-1	5454	5424	5541	5473	1.11	cps
Cadmium	111-1	2274	2073	2089	2145	5.20	cps
Calcium	43-1	8232	8523	8603	8453	2.30	cps
Calcium	44-1	135609	134121	135622	135117	0.64	cps
Carbon	12-1	2162837	2150415	2120780	2144677	1.01	cps
Carbon	12-2	14240	14367	14060	14223	1.08	cps
Chlorine	35-1	197978	196481	192718	195726	1.38	cps
Chlorine	35-2	673	667	630	657	3.55	cps
Chromium	52-2	1290	1303	1313	1302	0.90	cps
Cobalt	59-2	1640	1730	1657	1676	2.86	cps
Copper	63-2	4421	3924	4151	4165	5.97	cps
Dysprosium	156-1	87	90	67	81	15.56	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	90	67	93	83	17.44	cps
Erbium	164-2	7	20	23	17	52.90	cps
Gadolinium	160-1	30	23	40	31	26.97	cps
Gadolinium	160-2	3	7	7	6	34.70	cps
Holmium	165-1	13043355	12562806	12567214	12724459	2.17	cps
Holmium	165-2	4330724	4435403	4101196	4289108	3.99	cps
Indium	115-1	10236123	9747068	10010634	9997942	2.45	cps
Indium	115-2	889244	919988	856016	888416	3.60	cps
Iron	54-2	3097	3367	3224	3229	4.18	cps
Iron	56-2	56418	56140	56080	56212	0.32	cps
Iron	57-2	1413	1517	1500	1477	3.76	cps
Krypton	83-1	147	183	173	168	11.30	cps
Lead	206-1	4704	4754	4638	4699	1.25	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4004	3997	4324	4108	4.55	cps
Lead	208-1	18669	18919	19119	18902	1.19	cps
Lithium	6-1	5297013	5045337	5357662	5233337	3.16	cps
Magnesium	24-2	31811	31805	31758	31791	0.09	cps
Manganese	55-2	960	920	1000	960	4.17	cps
Molybdenum	94-1	4334	4157	4204	4232	2.16	cps
Molybdenum	95-1	2447	2220	2367	2345	4.90	cps
Molybdenum	96-1	2930	3054	2877	2954	3.07	cps
Molybdenum	97-1	1360	1457	1417	1411	3.44	cps
Molybdenum	98-1	3751	3747	3547	3682	3.16	cps
Neodymium	150-1	30	17	13	20	44.10	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1250	1250	1033	1178	10.62	cps
Phosphorus	31-2	70	47	43	53	27.24	cps
Potassium	39-2	15035	15185	14534	14918	2.28	cps
Rhodium	103-1	9271171	8951118	8979689	9067326	1.95	cps
Rhodium	103-2	3421133	3531978	3230090	3394401	4.50	cps
Scandium	45-1	7219974	6910228	7016219	7048807	2.23	cps
Scandium	45-2	111595	117408	107740	112248	4.34	cps
Selenium	82-1	773	827	813	804	3.45	cps
Selenium	77-2	17	13	17	16	12.40	cps
Selenium	78-2	50	57	33	47	25.76	cps
Silicon	28-1	268144	270847	268109	269033	0.58	cps
Silver	107-1	5775	5671	5448	5631	2.97	cps
Silver	109-1	5428	5251	5291	5323	1.74	cps
Sodium	23-2	76368	75383	74693	75482	1.12	cps
Strontium	86-1	1613	1680	1587	1627	2.96	cps
Strontium	88-1	13413	13150	13640	13401	1.83	cps
Sulfur	34-1	267942	268261	266821	267675	0.28	cps
Terbium	159-1	13394562	12728974	13173871	13099136	2.59	cps
Terbium	159-2	4201275	4343176	3968387	4170946	4.54	cps
Thallium	203-1	4531	4738	4734	4668	2.54	cps
Thallium	205-1	11095	11585	11458	11380	2.24	cps
Tin	118-1	5795	5778	5788	5787	0.14	cps
Titanium	47-1	733	850	813	799	7.47	cps
Uranium	238-1	16808	17622	17395	17275	2.43	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:14:48	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	497	487	543	509	5.94	cps
Ytterbium	172-1	87	67	73	76	13.48	cps
Ytterbium	172-2	13	20	27	20	33.35	cps
Ytterbium	176-1	1673	1760	1497	1643	8.17	cps
Ytterbium	176-2	173	190	230	198	14.72	cps
Yttrium	89-1	18371169	17479609	17939271	17930016	2.49	cps
Yttrium	89-2	1112535	1148434	1068233	1109734	3.62	cps
Zinc	66-2	370	437	437	414	9.29	cps
Zirconium	90-1	7782	7736	7692	7737	0.58	cps
Zirconium	91-1	1603	1770	1683	1686	4.95	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	380	397	390	389	2.16	cps
Antimony	121-1	4061	4024	4434	4173	5.44	cps
Arsenic	75-2	67	90	77	78	15.05	cps
Barium	135-1	5198	5418	5488	5368	2.82	cps
Barium	137-1	9003	9173	9443	9207	2.41	cps
Beryllium	9-1	1649	1700	1604	1651	2.92	cps
Bismuth	209-1	8118049	8232073	8191107	8180410	0.71	cps
Bismuth	209-2	3057946	3023451	3123821	3068406	1.66	cps
Bromine	81-1	5334	5611	5424	5457	2.59	cps
Cadmium	108-1	130	87	160	126	29.36	cps
Cadmium	106-1	5414	5458	5618	5497	1.95	cps
Cadmium	111-1	2069	2041	2175	2095	3.38	cps
Calcium	43-1	8332	8616	8473	8474	1.67	cps
Calcium	44-1	132255	133140	133833	133076	0.59	cps
Carbon	12-1	1970665	1912015	1905795	1929492	1.86	cps
Carbon	12-2	13246	12716	13033	12998	2.05	cps
Chlorine	35-1	172396	170063	169880	170780	0.82	cps
Chlorine	35-2	590	610	620	607	2.52	cps
Chromium	52-2	1207	1247	1197	1217	2.17	cps
Cobalt	59-2	1547	1547	1760	1618	7.61	cps
Copper	63-2	3964	3727	4031	3907	4.08	cps
Dysprosium	156-1	107	110	127	114	9.36	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	77	67	77	73	7.87	cps
Erbium	164-2	33	7	10	17	87.16	cps
Gadolinium	160-1	27	33	40	33	20.00	cps
Gadolinium	160-2	10	3	17	10	66.70	cps
Holmium	165-1	12899456	12775724	12837985	12837722	0.48	cps
Holmium	165-2	4174694	4224013	4312012	4236907	1.64	cps
Indium	115-1	10026638	10041145	9973951	10013912	0.35	cps
Indium	115-2	854002	865822	880534	866786	1.53	cps
Iron	54-2	3007	2937	3167	3037	3.88	cps
Iron	56-2	55450	54895	56244	55530	1.22	cps
Iron	57-2	1423	1373	1467	1421	3.29	cps
Krypton	83-1	90	133	117	113	19.29	cps
Lead	206-1	4534	4437	4578	4516	1.59	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3724	4007	3864	3865	3.67	cps
Lead	208-1	17311	17798	17835	17648	1.66	cps
Lithium	6-1	5343296	5147887	5279036	5256740	1.89	cps
Magnesium	24-2	31457	31394	31227	31359	0.38	cps
Manganese	55-2	1000	897	873	923	7.30	cps
Molybdenum	94-1	4191	4281	4021	4164	3.17	cps
Molybdenum	95-1	2214	2270	2444	2309	5.19	cps
Molybdenum	96-1	3060	2964	3034	3019	1.65	cps
Molybdenum	97-1	1433	1407	1327	1389	4.00	cps
Molybdenum	98-1	3681	3604	3684	3656	1.24	cps
Neodymium	150-1	17	10	13	13	25.01	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1250	1170	1210	1210	3.31	cps
Phosphorus	31-2	23	47	53	41	38.32	cps
Potassium	39-2	14921	14634	14531	14695	1.38	cps
Rhodium	103-1	9199378	9120842	9125448	9148556	0.48	cps
Rhodium	103-2	3300101	3312476	3330661	3314413	0.46	cps
Scandium	45-1	6989272	6933133	7053705	6992037	0.86	cps
Scandium	45-2	109446	110406	111283	110378	0.83	cps
Selenium	82-1	810	707	740	752	7.01	cps
Selenium	77-2	10	0	13	8	89.21	cps
Selenium	78-2	57	43	43	48	16.12	cps
Silicon	28-1	264228	264796	263733	264252	0.20	cps
Silver	107-1	5575	5414	5601	5530	1.83	cps
Silver	109-1	5331	5401	5241	5324	1.51	cps
Sodium	23-2	75383	74331	74727	74814	0.71	cps
Strontium	86-1	1727	1653	1567	1649	4.86	cps
Strontium	88-1	12879	12419	13126	12808	2.80	cps
Sulfur	34-1	262600	262203	263302	262702	0.21	cps
Terbium	159-1	13205313	13153926	13141233	13166824	0.26	cps
Terbium	159-2	4040962	4072550	4065269	4059593	0.41	cps
Thallium	203-1	4548	4758	4701	4669	2.33	cps
Thallium	205-1	10775	11198	10781	10918	2.22	cps
Tin	118-1	4664	4644	4541	4616	1.43	cps
Titanium	47-1	827	823	817	822	0.62	cps
Uranium	238-1	16961	16921	17185	17022	0.84	cps

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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4368-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:18:14	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	633	580	600	604	4.46	cps
Ytterbium	172-1	67	77	50	64	20.91	cps
Ytterbium	172-2	7	17	20	14	48.02	cps
Ytterbium	176-1	1610	1547	1547	1568	2.33	cps
Ytterbium	176-2	213	190	227	210	8.84	cps
Yttrium	89-1	18014581	17940751	17843763	17933031	0.48	cps
Yttrium	89-2	1071770	1079183	1089082	1080012	0.80	cps
Zinc	66-2	417	407	450	424	5.35	cps
Zirconium	90-1	7709	7459	7709	7625	1.89	cps
Zirconium	91-1	1637	1633	1717	1662	2.84	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	500	423	380	434	13.99	cps
Antimony	121-1	5294	5131	5014	5147	2.73	cps
Arsenic	75-2	97	80	67	81	18.53	cps
Barium	135-1	5204	5661	5648	5505	4.72	cps
Barium	137-1	9720	9363	9323	9469	2.31	cps
Beryllium	9-1	1860	1797	1879	1845	2.31	cps
Bismuth	209-1	8401016	8159152	8211101	8257090	1.54	cps
Bismuth	209-2	3067486	3079372	2998299	3048386	1.44	cps
Bromine	81-1	5448	5378	5284	5370	1.53	cps
Cadmium	108-1	160	160	170	163	3.53	cps
Cadmium	106-1	5705	5625	5354	5561	3.30	cps
Cadmium	111-1	2112	2260	2185	2186	3.37	cps
Calcium	43-1	8306	8609	8516	8477	1.83	cps
Calcium	44-1	132302	133280	135198	133593	1.10	cps
Carbon	12-1	2114420	2092367	2085545	2097444	0.72	cps
Carbon	12-2	14207	14124	14300	14210	0.62	cps
Chlorine	35-1	155259	155875	153756	154963	0.70	cps
Chlorine	35-2	530	513	550	531	3.46	cps
Chromium	52-2	1370	1463	1293	1376	6.19	cps
Cobalt	59-2	1913	1790	1643	1782	7.58	cps
Copper	63-2	4177	4124	4291	4197	2.03	cps
Dysprosium	156-1	103	137	123	121	13.86	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	70	80	57	69	16.99	cps
Erbium	164-2	20	17	23	20	16.65	cps
Gadolinium	160-1	20	37	47	34	39.11	cps
Gadolinium	160-2	13	7	3	8	65.47	cps
Holmium	165-1	12963462	12922304	12924196	12936654	0.18	cps
Holmium	165-2	4212506	4176579	4146987	4178690	0.79	cps
Indium	115-1	10409695	10112493	10035609	10185933	1.94	cps
Indium	115-2	857579	867685	841591	855618	1.54	cps
Iron	54-2	3154	3024	3097	3091	2.11	cps
Iron	56-2	56846	57894	58876	57872	1.75	cps
Iron	57-2	1517	1347	1487	1450	6.26	cps
Krypton	83-1	113	103	123	113	8.83	cps
Lead	206-1	4918	5321	5224	5154	4.09	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4344	4391	4357	4364	0.55	cps
Lead	208-1	20110	20587	20193	20296	1.25	cps
Lithium	6-1	5190665	5213472	5059860	5154666	1.61	cps
Magnesium	24-2	32018	31618	31604	31747	0.74	cps
Manganese	55-2	907	817	937	887	7.04	cps
Molybdenum	94-1	11248	11245	11468	11320	1.13	cps
Molybdenum	95-1	12703	12622	12362	12562	1.42	cps
Molybdenum	96-1	14244	14211	13920	14125	1.26	cps
Molybdenum	97-1	7806	7779	7732	7772	0.48	cps
Molybdenum	98-1	20432	20238	19951	20207	1.20	cps
Neodymium	150-1	23	17	20	20	16.65	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1210	1270	1237	1239	2.43	cps
Phosphorus	31-2	53	50	37	47	18.89	cps
Potassium	39-2	14501	14928	14504	14644	1.68	cps
Rhodium	103-1	9306607	9089438	9193504	9196516	1.18	cps
Rhodium	103-2	3310813	3342633	3299909	3317785	0.67	cps
Scandium	45-1	7074912	7061242	7023418	7053191	0.38	cps
Scandium	45-2	110480	108636	108532	109216	1.00	cps
Selenium	82-1	893	867	840	867	3.08	cps
Selenium	77-2	10	13	23	16	44.60	cps
Selenium	78-2	43	53	43	47	12.37	cps
Silicon	28-1	266865	266476	266771	266704	0.08	cps
Silver	107-1	5798	5745	5861	5801	1.01	cps
Silver	109-1	5541	5394	5424	5453	1.42	cps
Sodium	23-2	75655	75464	74539	75219	0.79	cps
Strontium	86-1	2327	2314	2367	2336	1.19	cps
Strontium	88-1	18312	18272	18980	18521	2.15	cps
Sulfur	34-1	269293	269736	268927	269319	0.15	cps
Terbium	159-1	13117806	13072276	13143881	13111321	0.28	cps
Terbium	159-2	4044192	4086802	4005706	4045566	1.00	cps
Thallium	203-1	5585	5815	5388	5596	3.82	cps
Thallium	205-1	13550	13247	13070	13289	1.83	cps
Tin	118-1	6328	6612	6348	6429	2.46	cps
Titanium	47-1	4021	3957	4024	4001	0.94	cps
Uranium	238-1	25661	26145	25915	25907	0.93	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT3-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:25:02	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	750	703	503	652	20.09	cps
Ytterbium	172-1	57	83	57	66	23.48	cps
Ytterbium	172-2	27	23	30	27	12.51	cps
Ytterbium	176-1	1673	1597	1680	1650	2.81	cps
Ytterbium	176-2	227	210	200	212	6.35	cps
Yttrium	89-1	18214659	18103954	18041078	18119897	0.49	cps
Yttrium	89-2	1072880	1084809	1056778	1071489	1.31	cps
Zinc	66-2	390	447	493	443	11.67	cps
Zirconium	90-1	11298	10684	11138	11040	2.88	cps
Zirconium	91-1	2730	2430	2500	2554	6.15	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1918026	1911475	1910520	1913340	0.21	cps
Antimony	121-1	4771410	4835543	4818768	4808573	0.69	cps
Arsenic	75-2	73922	74961	73631	74171	0.94	cps
Barium	135-1	6239775	6283355	6312917	6278682	0.59	cps
Barium	137-1	10680084	10624204	10740336	10681541	0.54	cps
Beryllium	9-1	1651768	1656885	1662954	1657202	0.34	cps
Bismuth	209-1	6494518	6651246	6462621	6536128	1.54	cps
Bismuth	209-2	2311998	2375168	2392805	2359990	1.80	cps
Bromine	81-1	5254	5528	5278	5353	2.83	cps
Cadmium	108-1	89944	91427	91618	90996	1.01	cps
Cadmium	106-1	134804	134730	135359	134964	0.25	cps
Cadmium	111-1	1060487	1081899	1073632	1072006	1.01	cps
Calcium	43-1	8663445	8802095	8775835	8747125	0.84	cps
Calcium	44-1	140571045	140716635	141402871	140896850	0.32	cps
Carbon	12-1	2295145	2311407	2325308	2310620	0.65	cps
Carbon	12-2	18835	18462	18295	18531	1.49	cps
Chlorine	35-1	145708	147156	148809	147224	1.05	cps
Chlorine	35-2	567	570	510	549	6.14	cps
Chromium	52-2	870381	866791	865306	867493	0.30	cps
Cobalt	59-2	1681034	1676860	1700855	1686250	0.76	cps
Copper	63-2	11988536	11815649	11860896	11888361	0.75	cps
Dysprosium	156-1	393	447	437	426	6.66	cps
Dysprosium	156-2	57	83	77	72	19.21	cps
Erbium	164-1	280	287	257	274	5.74	cps
Erbium	164-2	90	103	73	89	16.91	cps
Gadolinium	160-1	163	270	210	214	24.94	cps
Gadolinium	160-2	90	70	67	76	16.70	cps
Holmium	165-1	11278558	11704761	11340249	11441189	2.01	cps
Holmium	165-2	3596219	3596902	3741406	3644842	2.29	cps
Indium	115-1	8298988	8467970	8222070	8329676	1.51	cps
Indium	115-2	695388	698124	724832	706114	2.30	cps
Iron	54-2	9025032	9053272	8986665	9021656	0.37	cps
Iron	56-2	166345948	166066061	166348588	166253532	0.10	cps
Iron	57-2	4273281	4168261	4199481	4213674	1.28	cps
Krypton	83-1	133	203	173	170	20.66	cps
Lead	206-1	19862177	20013618	19917832	19931209	0.38	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16891600	17363750	17249121	17168157	1.43	cps
Lead	208-1	77876294	79375512	79167686	78806497	1.03	cps
Lithium	6-1	4374017	4342852	4250266	4322379	1.49	cps
Magnesium	24-2	33129490	33028640	32809400	32989176	0.50	cps
Manganese	55-2	3894331	3846840	3890113	3877094	0.68	cps
Molybdenum	94-1	17100627	17354565	17428956	17294716	1.00	cps
Molybdenum	95-1	24766396	24884520	25273149	24974689	1.06	cps
Molybdenum	96-1	27217609	27423955	27274229	27305264	0.39	cps
Molybdenum	97-1	15369976	15402902	15475403	15416094	0.35	cps
Molybdenum	98-1	40160685	40680016	40599671	40480124	0.69	cps
Neodymium	150-1	700	763	760	741	4.81	cps
Neodymium	150-2	43	43	40	42	4.55	cps
Nickel	60-2	417358	417040	417506	417301	0.06	cps
Phosphorus	31-2	16296	15362	16129	15929	3.13	cps
Potassium	39-2	9143518	9196571	9070234	9136775	0.69	cps
Rhodium	103-1	7225482	7290480	7247953	7254639	0.46	cps
Rhodium	103-2	2533881	2530941	2639265	2568029	2.40	cps
Scandium	45-1	6084581	6202697	6146867	6144715	0.96	cps
Scandium	45-2	95544	95766	97759	96357	1.27	cps
Selenium	82-1	71900	71998	72058	71985	0.11	cps
Selenium	77-2	1053	1130	1017	1067	5.42	cps
Selenium	78-2	3717	3470	3570	3586	3.46	cps
Silicon	28-1	25757233	26126316	26016607	25966719	0.73	cps
Silver	107-1	5909868	5903946	5970752	5928188	0.62	cps
Silver	109-1	5594184	5611810	5615907	5607301	0.21	cps
Sodium	23-2	66259242	66250962	65366631	65958945	0.78	cps
Strontium	86-1	1767669	1787967	1798923	1784853	0.89	cps
Strontium	88-1	15332134	15080751	15117581	15176822	0.89	cps
Sulfur	34-1	819540	820639	825873	822018	0.41	cps
Terbium	159-1	11646248	11981136	11521895	11716426	2.03	cps
Terbium	159-2	3461880	3499217	3679512	3546870	3.28	cps
Thallium	203-1	5125314	5153108	5109365	5129262	0.43	cps
Thallium	205-1	12140856	12171885	12119729	12144157	0.22	cps
Tin	118-1	4079903	4188427	4153784	4140705	1.34	cps
Titanium	47-1	7547460	7648503	7643896	7613286	0.75	cps
Uranium	238-1	19970223	20261096	20395003	20208774	1.07	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:28:24	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	687743	686902	681804	685483	0.47	cps
Ytterbium	172-1	337	313	347	332	5.15	cps
Ytterbium	172-2	107	123	103	111	9.65	cps
Ytterbium	176-1	24860	24837	24797	24831	0.13	cps
Ytterbium	176-2	7606	7596	7599	7600	0.07	cps
Yttrium	89-1	15661457	15785813	15332994	15593421	1.50	cps
Yttrium	89-2	926617	932445	963385	940816	2.10	cps
Zinc	66-2	1206980	1203566	1202032	1204193	0.21	cps
Zirconium	90-1	8656641	8679395	8672255	8669430	0.13	cps
Zirconium	91-1	1967091	1977638	1969220	1971316	0.28	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	113	80	143	112	28.23	cps
Antimony	121-1	1407	1370	1120	1299	12.01	cps
Arsenic	75-2	3	13	10	9	57.30	cps
Barium	135-1	827	683	593	701	16.79	cps
Barium	137-1	1380	1223	1090	1231	11.79	cps
Beryllium	9-1	642	556	521	573	10.88	cps
Bismuth	209-1	7294752	7354676	7316564	7321997	0.41	cps
Bismuth	209-2	2733023	2725434	2713706	2724055	0.36	cps
Bromine	81-1	5298	5414	5471	5394	1.64	cps
Cadmium	108-1	40	37	57	44	24.11	cps
Cadmium	106-1	5074	5041	4871	4995	2.18	cps
Cadmium	111-1	1164	1096	1038	1099	5.72	cps
Calcium	43-1	853	770	667	763	12.25	cps
Calcium	44-1	13463	10978	10551	11664	13.48	cps
Carbon	12-1	2054944	2057224	2034700	2048956	0.61	cps
Carbon	12-2	13713	13727	13400	13613	1.36	cps
Chlorine	35-1	141163	140144	139410	140239	0.63	cps
Chlorine	35-2	500	423	507	477	9.72	cps
Chromium	52-2	517	430	463	470	9.30	cps
Cobalt	59-2	177	303	187	222	31.69	cps
Copper	63-2	2174	2097	2144	2138	1.81	cps
Dysprosium	156-1	137	103	93	111	20.42	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	30	53	57	47	31.14	cps
Erbium	164-2	20	27	17	21	24.12	cps
Gadolinium	160-1	33	40	43	39	13.09	cps
Gadolinium	160-2	7	17	10	11	45.82	cps
Holmium	165-1	11388002	11434504	11303664	11375390	0.58	cps
Holmium	165-2	3749921	3746282	3744324	3746843	0.08	cps
Indium	115-1	8948821	9135691	9012720	9032411	1.05	cps
Indium	115-2	760340	759746	778066	766051	1.36	cps
Iron	54-2	813	753	650	739	11.18	cps
Iron	56-2	13290	13383	12479	13050	3.81	cps
Iron	57-2	457	310	323	363	22.33	cps
Krypton	83-1	143	140	137	140	2.38	cps
Lead	206-1	2730	2120	2070	2307	15.93	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2180	1743	1954	1959	11.15	cps
Lead	208-1	10548	8548	8681	9259	12.08	cps
Lithium	6-1	4681043	4567850	4594309	4614401	1.28	cps
Magnesium	24-2	1647	1677	1650	1658	0.99	cps
Manganese	55-2	393	437	420	417	5.25	cps
Molybdenum	94-1	1693	1367	1170	1410	18.75	cps
Molybdenum	95-1	2034	1550	1333	1639	21.87	cps
Molybdenum	96-1	2307	1713	1720	1913	17.81	cps
Molybdenum	97-1	1193	923	857	991	17.99	cps
Molybdenum	98-1	3274	2447	2267	2663	20.17	cps
Neodymium	150-1	27	33	30	30	11.10	cps
Neodymium	150-2	0	7	10	6	91.64	cps
Nickel	60-2	830	820	687	779	10.27	cps
Phosphorus	31-2	27	27	20	24	15.75	cps
Potassium	39-2	5251	5204	5038	5164	2.17	cps
Rhodium	103-1	8222345	8230826	8119061	8190744	0.76	cps
Rhodium	103-2	2934730	2919678	2957064	2937157	0.64	cps
Scandium	45-1	6259060	6284098	6172171	6238443	0.94	cps
Scandium	45-2	95571	98460	98759	97597	1.80	cps
Selenium	82-1	-10	-23	-37	-23	-57.15	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	0	10	7	86.60	cps
Silicon	28-1	267199	266082	259917	264399	1.48	cps
Silver	107-1	947	710	683	780	18.58	cps
Silver	109-1	790	723	573	696	15.95	cps
Sodium	23-2	19957	19750	19290	19666	1.74	cps
Strontium	86-1	283	333	260	292	12.82	cps
Strontium	88-1	1317	1153	947	1139	16.28	cps
Sulfur	34-1	265726	265600	262573	264633	0.67	cps
Terbium	159-1	11632576	11665794	11634716	11644362	0.16	cps
Terbium	159-2	3629621	3579748	3639658	3616342	0.89	cps
Thallium	203-1	840	777	717	778	7.93	cps
Thallium	205-1	1770	1623	1370	1588	12.75	cps
Tin	118-1	1463	1527	1517	1502	2.27	cps
Titanium	47-1	583	450	393	476	20.51	cps
Uranium	238-1	1587	1437	1057	1360	20.09	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:31:17	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	37	30	34	11.18	cps
Ytterbium	172-1	63	67	47	59	18.19	cps
Ytterbium	172-2	20	23	23	22	8.65	cps
Ytterbium	176-1	1490	1523	1447	1487	2.59	cps
Ytterbium	176-2	140	197	227	188	23.44	cps
Yttrium	89-1	16228123	16108059	15779728	16038637	1.45	cps
Yttrium	89-2	948874	952411	965078	955454	0.89	cps
Zinc	66-2	280	210	237	242	14.59	cps
Zirconium	90-1	1180	1013	1063	1086	7.88	cps
Zirconium	91-1	310	203	220	244	23.47	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	453	303	370	376	20.01	cps
Antimony	121-1	4601	4347	4494	4481	2.84	cps
Arsenic	75-2	83	63	77	74	13.68	cps
Barium	135-1	5458	5364	5508	5443	1.34	cps
Barium	137-1	9463	9613	9547	9541	0.79	cps
Beryllium	9-1	1822	1776	1704	1767	3.39	cps
Bismuth	209-1	8291430	8039695	8086817	8139314	1.64	cps
Bismuth	209-2	3018050	3046257	3016434	3026913	0.55	cps
Bromine	81-1	5651	5638	5464	5585	1.87	cps
Cadmium	108-1	110	157	140	136	17.45	cps
Cadmium	106-1	5988	5615	5711	5771	3.36	cps
Cadmium	111-1	2391	2017	2211	2206	8.48	cps
Calcium	43-1	8262	8079	8126	8156	1.17	cps
Calcium	44-1	130761	132070	131746	131525	0.52	cps
Carbon	12-1	2118046	2114957	2082828	2105277	0.93	cps
Carbon	12-2	14194	14037	13713	13981	1.75	cps
Chlorine	35-1	139932	140884	138868	139895	0.72	cps
Chlorine	35-2	483	587	510	527	10.18	cps
Chromium	52-2	1120	1290	1190	1200	7.12	cps
Cobalt	59-2	1533	1517	1650	1567	4.64	cps
Copper	63-2	3847	4164	3971	3994	4.00	cps
Dysprosium	156-1	90	110	140	113	22.21	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	83	80	60	74	16.95	cps
Erbium	164-2	13	13	33	20	57.74	cps
Gadolinium	160-1	20	30	27	26	19.92	cps
Gadolinium	160-2	7	10	17	11	45.82	cps
Holmium	165-1	12984436	12646629	12654949	12762005	1.51	cps
Holmium	165-2	4162836	4121348	4122808	4135664	0.57	cps
Indium	115-1	10098334	10017757	9973495	10029862	0.63	cps
Indium	115-2	845794	845453	848301	846516	0.18	cps
Iron	54-2	3154	3057	3140	3117	1.68	cps
Iron	56-2	55892	55307	54580	55260	1.19	cps
Iron	57-2	1350	1377	1340	1356	1.40	cps
Krypton	83-1	123	123	133	127	4.56	cps
Lead	206-1	4811	4367	4738	4639	5.12	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4004	4071	4024	4033	0.85	cps
Lead	208-1	18455	18212	18539	18402	0.92	cps
Lithium	6-1	5198782	5111089	5133698	5147856	0.88	cps
Magnesium	24-2	30692	31367	31046	31035	1.09	cps
Manganese	55-2	863	880	1083	942	13.00	cps
Molybdenum	94-1	4287	3877	4161	4108	5.11	cps
Molybdenum	95-1	2487	2347	2444	2426	2.96	cps
Molybdenum	96-1	3237	3020	2947	3068	4.92	cps
Molybdenum	97-1	1583	1443	1517	1515	4.62	cps
Molybdenum	98-1	3994	3854	3891	3913	1.86	cps
Neodymium	150-1	27	33	17	26	32.81	cps
Neodymium	150-2	7	3	7	6	34.70	cps
Nickel	60-2	1197	1263	1163	1208	4.22	cps
Phosphorus	31-2	57	23	53	44	41.31	cps
Potassium	39-2	14814	14627	14995	14812	1.24	cps
Rhodium	103-1	9191801	8967159	9023380	9060780	1.29	cps
Rhodium	103-2	3265288	3198900	3274950	3246379	1.28	cps
Scandium	45-1	6944319	6990816	6941119	6958751	0.40	cps
Scandium	45-2	106497	107327	107081	106968	0.40	cps
Selenium	82-1	827	880	823	843	3.77	cps
Selenium	77-2	13	7	3	8	65.47	cps
Selenium	78-2	33	40	47	40	16.68	cps
Silicon	28-1	263434	263903	262899	263412	0.19	cps
Silver	107-1	5661	5488	5845	5665	3.15	cps
Silver	109-1	5511	5121	5061	5231	4.67	cps
Sodium	23-2	74405	74113	73715	74078	0.47	cps
Strontium	86-1	1563	1533	1653	1583	3.94	cps
Strontium	88-1	12295	12723	12459	12492	1.72	cps
Sulfur	34-1	271280	272026	270211	271172	0.34	cps
Terbium	159-1	12978367	13005421	13040489	13008092	0.24	cps
Terbium	159-2	3997567	4015304	3976563	3996478	0.49	cps
Thallium	203-1	4674	4841	4658	4724	2.15	cps
Thallium	205-1	11562	11432	11425	11473	0.67	cps
Tin	118-1	4894	4601	4704	4733	3.14	cps
Titanium	47-1	770	797	843	803	4.62	cps
Uranium	238-1	17221	16864	17078	17055	1.05	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P3391-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT3-2024-06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:34:39	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	537	503	510	517	3.41	cps
Ytterbium	172-1	73	57	63	64	13.01	cps
Ytterbium	172-2	20	20	17	19	10.18	cps
Ytterbium	176-1	1563	1690	1577	1610	4.32	cps
Ytterbium	176-2	210	187	180	192	8.19	cps
Yttrium	89-1	18263638	17784290	17573653	17873861	1.98	cps
Yttrium	89-2	1046903	1059777	1058490	1055057	0.67	cps
Zinc	66-2	393	437	403	411	5.52	cps
Zirconium	90-1	7312	7929	7529	7590	4.12	cps
Zirconium	91-1	1750	1643	1710	1701	3.17	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	33	50	30	38	28.37	cps
Antimony	121-1	237	233	230	233	1.43	cps
Arsenic	75-2	0	0	0	0	0.00	cps
Barium	135-1	267	210	180	219	20.11	cps
Barium	137-1	440	370	323	378	15.54	cps
Beryllium	9-1	250	265	274	263	4.57	cps
Bismuth	209-1	8144689	7932552	8211453	8096231	1.80	cps
Bismuth	209-2	3024259	2962602	2974113	2986991	1.10	cps
Bromine	81-1	5474	5238	5194	5302	2.84	cps
Cadmium	108-1	53	43	27	41	32.76	cps
Cadmium	106-1	5318	5124	5141	5194	2.06	cps
Cadmium	111-1	1073	1061	1060	1065	0.68	cps
Calcium	43-1	413	380	393	396	4.24	cps
Calcium	44-1	5648	5761	5645	5685	1.17	cps
Carbon	12-1	2070670	2077013	2034609	2060764	1.11	cps
Carbon	12-2	14277	13823	13726	13942	2.11	cps
Chlorine	35-1	134181	134972	134689	134614	0.30	cps
Chlorine	35-2	507	473	433	471	7.79	cps
Chromium	52-2	463	513	480	486	5.24	cps
Cobalt	59-2	137	147	137	140	4.12	cps
Copper	63-2	1593	1727	1630	1650	4.17	cps
Dysprosium	156-1	97	97	83	92	8.35	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	93	63	60	72	25.43	cps
Erbium	164-2	13	23	17	18	28.64	cps
Gadolinium	160-1	20	27	37	28	30.20	cps
Gadolinium	160-2	0	7	7	4	86.60	cps
Holmium	165-1	12618235	12522787	12903369	12681464	1.56	cps
Holmium	165-2	4133115	4102193	4027365	4087558	1.33	cps
Indium	115-1	10007781	9828784	9912721	9916428	0.90	cps
Indium	115-2	841520	835710	837905	838379	0.35	cps
Iron	54-2	413	400	427	413	3.23	cps
Iron	56-2	6715	6332	6562	6536	2.95	cps
Iron	57-2	150	177	187	171	11.07	cps
Krypton	83-1	127	180	90	132	34.23	cps
Lead	206-1	993	893	1000	962	6.21	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	930	737	913	860	12.46	cps
Lead	208-1	3987	3867	4140	3998	3.43	cps
Lithium	6-1	5118371	5105496	5050157	5091342	0.71	cps
Magnesium	24-2	390	420	517	442	14.97	cps
Manganese	55-2	253	253	250	252	0.76	cps
Molybdenum	94-1	263	310	310	294	9.15	cps
Molybdenum	95-1	287	163	217	222	27.83	cps
Molybdenum	96-1	317	390	357	354	10.36	cps
Molybdenum	97-1	107	110	147	121	18.33	cps
Molybdenum	98-1	377	407	337	373	9.41	cps
Neodymium	150-1	20	17	30	22	31.22	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	813	820	743	792	5.36	cps
Phosphorus	31-2	43	37	37	39	9.89	cps
Potassium	39-2	4474	4084	4151	4236	4.93	cps
Rhodium	103-1	8984417	8919836	8961459	8955237	0.37	cps
Rhodium	103-2	3268229	3243042	3181590	3230954	1.38	cps
Scandium	45-1	6777460	6781418	6882187	6813688	0.87	cps
Scandium	45-2	107857	105715	105067	106213	1.37	cps
Selenium	82-1	0	-33	-13	-16	-107.86	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	7	3	4	43.40	cps
Silicon	28-1	254439	256111	255628	255393	0.34	cps
Silver	107-1	273	183	137	198	35.12	cps
Silver	109-1	153	117	117	129	16.43	cps
Sodium	23-2	15378	15422	14864	15221	2.04	cps
Strontium	86-1	260	207	213	227	12.82	cps
Strontium	88-1	573	573	627	591	5.21	cps
Sulfur	34-1	262148	260168	261639	261318	0.39	cps
Terbium	159-1	12920162	12784985	12738493	12814547	0.74	cps
Terbium	159-2	4003771	3986107	3899900	3963259	1.40	cps
Thallium	203-1	380	367	320	356	8.86	cps
Thallium	205-1	883	687	800	790	12.50	cps
Tin	118-1	1200	1207	1267	1225	3.00	cps
Titanium	47-1	127	117	120	121	4.20	cps
Uranium	238-1	580	447	473	500	14.11	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:38:03	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	0	10	6	91.64	cps
Ytterbium	172-1	63	103	50	72	38.43	cps
Ytterbium	172-2	20	27	30	26	19.92	cps
Ytterbium	176-1	1490	1753	1723	1656	8.71	cps
Ytterbium	176-2	167	180	183	177	4.99	cps
Yttrium	89-1	17835588	17619343	17996818	17817250	1.06	cps
Yttrium	89-2	1062785	1051011	1048074	1053957	0.74	cps
Zinc	66-2	177	180	177	178	1.08	cps
Zirconium	90-1	627	550	567	581	6.94	cps
Zirconium	91-1	103	150	160	138	21.95	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1633	1580	1750	1655	5.26	cps
Antimony	121-1	39570	39711	39614	39632	0.18	cps
Arsenic	75-2	317	367	350	344	7.39	cps
Barium	135-1	51932	51885	51374	51730	0.60	cps
Barium	137-1	89715	88765	89832	89437	0.65	cps
Beryllium	9-1	7461	7491	7293	7415	1.44	cps
Bismuth	209-1	7989016	8019838	7967458	7992104	0.33	cps
Bismuth	209-2	3024496	3000862	2948981	2991446	1.29	cps
Bromine	81-1	5221	5201	5404	5275	2.13	cps
Cadmium	108-1	533	537	483	518	5.77	cps
Cadmium	106-1	6095	6175	6038	6103	1.13	cps
Cadmium	111-1	6227	6314	6244	6261	0.74	cps
Calcium	43-1	38257	38796	37997	38350	1.06	cps
Calcium	44-1	606342	615577	617728	613216	0.99	cps
Carbon	12-1	2108341	2095655	2097645	2100547	0.32	cps
Carbon	12-2	14334	14190	14097	14207	0.84	cps
Chlorine	35-1	944798	1036117	1077443	1019453	6.66	cps
Chlorine	35-2	3901	4317	4144	4121	5.08	cps
Chromium	52-2	8052	7902	7832	7929	1.42	cps
Cobalt	59-2	7239	7619	7475	7444	2.58	cps
Copper	63-2	13770	13807	13960	13846	0.73	cps
Dysprosium	156-1	130	117	127	124	5.57	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	67	57	80	68	17.27	cps
Erbium	164-2	13	13	13	13	0.00	cps
Gadolinium	160-1	47	37	30	38	22.21	cps
Gadolinium	160-2	3	0	7	3	100.05	cps
Holmium	165-1	12516634	12573587	12552044	12547422	0.23	cps
Holmium	165-2	4155115	4036047	4045208	4078790	1.62	cps
Indium	115-1	9969251	9937967	9781394	9896204	1.02	cps
Indium	115-2	843948	836400	831120	837156	0.77	cps
Iron	54-2	32156	32360	32260	32259	0.32	cps
Iron	56-2	594977	603972	592598	597182	1.00	cps
Iron	57-2	15242	15458	14581	15094	3.03	cps
Krypton	83-1	97	107	117	107	9.37	cps
Lead	206-1	19668	20653	20463	20261	2.58	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16734	16851	17418	17001	2.15	cps
Lead	208-1	77200	79021	80899	79040	2.34	cps
Lithium	6-1	5244397	5118851	5132717	5165322	1.33	cps
Magnesium	24-2	138712	138443	136425	137860	0.91	cps
Manganese	55-2	2057	1920	1917	1965	4.07	cps
Molybdenum	94-1	41986	42418	42501	42302	0.65	cps
Molybdenum	95-1	50478	51967	50816	51087	1.53	cps
Molybdenum	96-1	56712	56307	56758	56592	0.44	cps
Molybdenum	97-1	32170	31803	31984	31986	0.57	cps
Molybdenum	98-1	83415	81789	83083	82762	1.04	cps
Neodymium	150-1	27	13	37	26	45.82	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	2677	2720	2890	2763	4.08	cps
Phosphorus	31-2	140	110	110	120	14.43	cps
Potassium	39-2	80959	80436	80154	80516	0.51	cps
Rhodium	103-1	9049831	8840309	8820323	8903488	1.43	cps
Rhodium	103-2	3253264	3171281	3192354	3205633	1.33	cps
Scandium	45-1	6957989	6801544	6804547	6854693	1.31	cps
Scandium	45-2	107001	107501	104932	106478	1.28	cps
Selenium	82-1	1560	1753	1593	1636	6.32	cps
Selenium	77-2	0	40	20	20	100.00	cps
Selenium	78-2	73	60	103	79	28.14	cps
Silicon	28-1	448092	447335	448301	447910	0.11	cps
Silver	107-1	24996	25534	25480	25337	1.17	cps
Silver	109-1	23517	24402	24786	24235	2.69	cps
Sodium	23-2	294591	294708	293715	294338	0.18	cps
Strontium	86-1	7035	7425	7205	7222	2.71	cps
Strontium	88-1	59894	60671	60755	60440	0.78	cps
Sulfur	34-1	268320	267925	269432	268559	0.29	cps
Terbium	159-1	12993164	12762718	12876390	12877424	0.89	cps
Terbium	159-2	4001089	3956471	3886944	3948168	1.46	cps
Thallium	203-1	21414	22169	21611	21732	1.80	cps
Thallium	205-1	52489	51907	52355	52250	0.58	cps
Tin	118-1	87121	88748	88010	87960	0.93	cps
Titanium	47-1	19777	20004	19991	19924	0.64	cps
Uranium	238-1	81598	83203	82578	82460	0.98	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 16:46:01	DataFile Name :	042LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14764	14598	14297	14553	1.63	cps
Ytterbium	172-1	77	87	77	80	7.22	cps
Ytterbium	172-2	23	33	37	31	22.31	cps
Ytterbium	176-1	1763	1803	1613	1727	5.80	cps
Ytterbium	176-2	223	227	233	228	2.24	cps
Yttrium	89-1	17721265	17712433	17386799	17606832	1.08	cps
Yttrium	89-2	1059588	1048832	1039579	1049333	0.95	cps
Zinc	66-2	3387	3520	3400	3436	2.14	cps
Zirconium	90-1	35786	36357	36812	36318	1.42	cps
Zirconium	91-1	7892	7842	8252	7996	2.80	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	353	350	397	367	7.10	cps
Antimony	121-1	3814	4067	3921	3934	3.23	cps
Arsenic	75-2	103	60	70	78	29.17	cps
Barium	135-1	5081	4908	5094	5028	2.07	cps
Barium	137-1	8609	8786	9026	8807	2.38	cps
Beryllium	9-1	1535	1475	1504	1504	1.99	cps
Bismuth	209-1	8014424	7975843	7836548	7942272	1.18	cps
Bismuth	209-2	2996348	2943304	3024515	2988056	1.38	cps
Bromine	81-1	5061	5118	5194	5124	1.31	cps
Cadmium	108-1	120	130	117	122	5.68	cps
Cadmium	106-1	5525	5128	5488	5380	4.08	cps
Cadmium	111-1	2038	1915	1979	1977	3.11	cps
Calcium	43-1	7866	7682	7876	7808	1.39	cps
Calcium	44-1	127085	125861	126164	126370	0.50	cps
Carbon	12-1	1887707	1857354	1850119	1865060	1.07	cps
Carbon	12-2	12902	12796	12899	12866	0.47	cps
Chlorine	35-1	113507	111885	111941	112444	0.82	cps
Chlorine	35-2	377	357	397	377	5.31	cps
Chromium	52-2	1243	1237	1150	1210	4.30	cps
Cobalt	59-2	1390	1520	1523	1478	5.15	cps
Copper	63-2	3711	3957	4077	3915	4.78	cps
Dysprosium	156-1	53	110	83	82	34.48	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	60	50	37	49	23.94	cps
Erbium	164-2	20	23	20	21	9.11	cps
Gadolinium	160-1	50	23	30	34	40.30	cps
Gadolinium	160-2	3	20	7	10	88.20	cps
Holmium	165-1	12364746	12298408	12112947	12258701	1.06	cps
Holmium	165-2	4079307	4066802	4011479	4052529	0.89	cps
Indium	115-1	9627314	9599885	9479055	9568751	0.82	cps
Indium	115-2	819581	815927	818432	817980	0.23	cps
Iron	54-2	2837	2807	2830	2825	0.56	cps
Iron	56-2	58434	52108	51476	54006	7.12	cps
Iron	57-2	1300	1383	1327	1337	3.18	cps
Krypton	83-1	150	107	117	124	18.23	cps
Lead	206-1	3927	4091	3977	3998	2.09	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3631	3424	3584	3546	3.06	cps
Lead	208-1	16238	16488	16398	16374	0.77	cps
Lithium	6-1	5085965	5105319	5083492	5091592	0.23	cps
Magnesium	24-2	28972	30114	29303	29463	2.00	cps
Manganese	55-2	700	790	853	781	9.86	cps
Molybdenum	94-1	3721	3744	3797	3754	1.05	cps
Molybdenum	95-1	1990	2254	2157	2134	6.24	cps
Molybdenum	96-1	2730	3004	2710	2815	5.82	cps
Molybdenum	97-1	1357	1367	1373	1366	0.61	cps
Molybdenum	98-1	3454	3394	3430	3426	0.88	cps
Neodymium	150-1	23	0	17	13	90.13	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1150	1117	1087	1118	2.83	cps
Phosphorus	31-2	43	43	60	49	19.69	cps
Potassium	39-2	13433	13496	13723	13551	1.13	cps
Rhodium	103-1	8717753	8659689	8719751	8699064	0.39	cps
Rhodium	103-2	3149525	3150977	3151415	3150639	0.03	cps
Scandium	45-1	6720283	6585395	6591528	6632402	1.15	cps
Scandium	45-2	103026	104013	102750	103263	0.64	cps
Selenium	82-1	757	673	717	716	5.83	cps
Selenium	77-2	20	7	17	14	48.02	cps
Selenium	78-2	53	37	47	46	18.41	cps
Silicon	28-1	248880	248175	245759	247605	0.66	cps
Silver	107-1	4864	5048	5244	5052	3.76	cps
Silver	109-1	4891	4771	4918	4860	1.61	cps
Sodium	23-2	68081	69149	68315	68515	0.82	cps
Strontium	86-1	1540	1617	1527	1561	3.11	cps
Strontium	88-1	12125	11718	12022	11955	1.77	cps
Sulfur	34-1	260180	262468	264368	262339	0.80	cps
Terbium	159-1	12615101	12277910	12407141	12433384	1.37	cps
Terbium	159-2	3909554	3903860	3916014	3909809	0.16	cps
Thallium	203-1	4417	4361	4504	4427	1.63	cps
Thallium	205-1	11081	10654	10438	10725	3.05	cps
Tin	118-1	4437	4517	4594	4516	1.74	cps
Titanium	47-1	830	707	813	783	8.54	cps
Uranium	238-1	16337	16444	16684	16488	1.08	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT4-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:49:25	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	603	567	553	574	4.51	cps
Ytterbium	172-1	40	93	43	59	50.73	cps
Ytterbium	172-2	20	43	27	30	40.05	cps
Ytterbium	176-1	1577	1620	1560	1586	1.95	cps
Ytterbium	176-2	230	263	207	233	12.21	cps
Yttrium	89-1	17313330	16967071	17080292	17120231	1.03	cps
Yttrium	89-2	1010785	1013026	1020234	1014682	0.49	cps
Zinc	66-2	400	387	427	404	5.04	cps
Zirconium	90-1	7122	7239	6998	7120	1.69	cps
Zirconium	91-1	1563	1700	1587	1617	4.52	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	333	353	320	336	5.00	cps
Antimony	121-1	3921	4051	3904	3958	2.03	cps
Arsenic	75-2	70	73	57	67	13.22	cps
Barium	135-1	5128	5164	4958	5083	2.17	cps
Barium	137-1	8740	8589	8926	8752	1.93	cps
Beryllium	9-1	1547	1559	1574	1560	0.84	cps
Bismuth	209-1	7715685	7853865	7723580	7764377	1.00	cps
Bismuth	209-2	2906247	2808853	2894814	2869971	1.85	cps
Bromine	81-1	5231	5268	5154	5218	1.11	cps
Cadmium	108-1	107	160	110	126	23.79	cps
Cadmium	106-1	5418	5238	5074	5243	3.28	cps
Cadmium	111-1	2126	1959	1981	2022	4.48	cps
Calcium	43-1	7595	7936	7535	7689	2.81	cps
Calcium	44-1	124472	124231	125041	124581	0.33	cps
Carbon	12-1	1877705	1854480	1817205	1849796	1.65	cps
Carbon	12-2	12909	12465	12008	12461	3.61	cps
Chlorine	35-1	107307	106656	106115	106692	0.56	cps
Chlorine	35-2	317	393	367	359	10.85	cps
Chromium	52-2	1157	1253	1190	1200	4.09	cps
Cobalt	59-2	1390	1510	1537	1479	5.28	cps
Copper	63-2	3994	4134	4211	4113	2.67	cps
Dysprosium	156-1	73	70	100	81	20.27	cps
Dysprosium	156-2	10	0	3	4	114.60	cps
Erbium	164-1	93	80	40	71	39.03	cps
Erbium	164-2	10	20	37	22	60.63	cps
Gadolinium	160-1	23	33	53	37	41.66	cps
Gadolinium	160-2	0	10	3	4	114.60	cps
Holmium	165-1	12141434	12293559	11961868	12132287	1.37	cps
Holmium	165-2	3925642	3861822	3954088	3913851	1.21	cps
Indium	115-1	9384132	9604470	9347679	9445427	1.47	cps
Indium	115-2	796636	779154	803348	793046	1.57	cps
Iron	54-2	2810	2850	2894	2851	1.46	cps
Iron	56-2	51553	51910	55857	53107	4.50	cps
Iron	57-2	1263	1273	1290	1276	1.06	cps
Krypton	83-1	140	83	150	124	28.89	cps
Lead	206-1	4304	4094	3957	4118	4.24	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3364	3464	3427	3418	1.48	cps
Lead	208-1	16141	16011	16044	16065	0.42	cps
Lithium	6-1	5059381	5126395	5072829	5086201	0.70	cps
Magnesium	24-2	30054	30171	29810	30012	0.61	cps
Manganese	55-2	767	807	810	794	3.04	cps
Molybdenum	94-1	3717	3877	3724	3773	2.40	cps
Molybdenum	95-1	2000	2207	2177	2128	5.25	cps
Molybdenum	96-1	2734	2650	2660	2681	1.70	cps
Molybdenum	97-1	1200	1353	1337	1297	6.49	cps
Molybdenum	98-1	3404	3430	3390	3408	0.60	cps
Neodymium	150-1	10	13	7	10	33.30	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1073	1080	1137	1097	3.17	cps
Phosphorus	31-2	27	30	60	39	47.20	cps
Potassium	39-2	13687	13323	13126	13379	2.13	cps
Rhodium	103-1	8577364	8662557	8602773	8614231	0.51	cps
Rhodium	103-2	3053399	2987676	3074228	3038434	1.49	cps
Scandium	45-1	6564876	6620664	6482577	6556039	1.06	cps
Scandium	45-2	99955	99304	101448	100235	1.10	cps
Selenium	82-1	693	777	697	722	6.53	cps
Selenium	77-2	3	13	13	10	57.75	cps
Selenium	78-2	37	63	40	47	31.13	cps
Silicon	28-1	251128	250603	249416	250383	0.35	cps
Silver	107-1	4984	5078	5278	5113	2.93	cps
Silver	109-1	4694	4901	5074	4890	3.89	cps
Sodium	23-2	67971	68218	67729	67973	0.36	cps
Strontium	86-1	1613	1583	1650	1616	2.07	cps
Strontium	88-1	11762	12055	11899	11905	1.23	cps
Sulfur	34-1	258420	256935	257242	257532	0.30	cps
Terbium	159-1	12275208	12640342	12371818	12429123	1.52	cps
Terbium	159-2	3791997	3707031	3845374	3781467	1.85	cps
Thallium	203-1	4274	4237	4311	4274	0.86	cps
Thallium	205-1	10361	10421	10204	10329	1.08	cps
Tin	118-1	4357	4261	4291	4303	1.15	cps
Titanium	47-1	720	777	817	771	6.30	cps
Uranium	238-1	16681	16431	16667	16593	0.85	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	P4776-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT4-2024-08	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:52:47	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	530	570	560	553	3.76	cps
Ytterbium	172-1	73	63	70	69	7.39	cps
Ytterbium	172-2	43	17	33	31	43.29	cps
Ytterbium	176-1	1630	1600	1700	1643	3.12	cps
Ytterbium	176-2	183	170	257	203	22.95	cps
Yttrium	89-1	16863439	17020162	16795676	16893092	0.68	cps
Yttrium	89-2	987047	975001	1002325	988125	1.39	cps
Zinc	66-2	430	397	403	410	4.30	cps
Zirconium	90-1	7415	6888	7152	7152	3.68	cps
Zirconium	91-1	1640	1617	1623	1627	0.74	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30	57	43	43	30.77	cps
Antimony	121-1	63	117	90	90	29.63	cps
Arsenic	75-2	7	3	0	3	100.05	cps
Barium	135-1	63	97	107	89	25.53	cps
Barium	137-1	183	167	140	163	13.38	cps
Beryllium	9-1	159	156	149	155	3.37	cps
Bismuth	209-1	7795485	7793843	7780729	7790019	0.10	cps
Bismuth	209-2	2930255	2955230	2955979	2947155	0.50	cps
Bromine	81-1	4981	4904	4898	4928	0.94	cps
Cadmium	108-1	27	40	43	37	24.04	cps
Cadmium	106-1	5234	5308	5068	5203	2.36	cps
Cadmium	111-1	1058	1070	1013	1047	2.87	cps
Calcium	43-1	267	320	290	292	9.15	cps
Calcium	44-1	4594	4694	4674	4654	1.14	cps
Carbon	12-1	1982790	2007081	1974985	1988285	0.84	cps
Carbon	12-2	13520	14077	13443	13680	2.53	cps
Chlorine	35-1	103537	104181	103527	103748	0.36	cps
Chlorine	35-2	450	387	323	387	16.38	cps
Chromium	52-2	453	453	447	451	0.85	cps
Cobalt	59-2	100	93	137	110	21.21	cps
Copper	63-2	2017	2177	2207	2134	4.79	cps
Dysprosium	156-1	80	90	63	78	17.32	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	40	67	53	53	25.00	cps
Erbium	164-2	23	33	7	21	63.80	cps
Gadolinium	160-1	40	23	37	33	26.47	cps
Gadolinium	160-2	13	3	20	12	68.66	cps
Holmium	165-1	12318041	12140386	12117539	12191989	0.90	cps
Holmium	165-2	4016042	3975533	4071937	4021171	1.20	cps
Indium	115-1	9493713	9508802	9558303	9520273	0.35	cps
Indium	115-2	815748	816633	826960	819780	0.76	cps
Iron	54-2	343	637	453	478	31.04	cps
Iron	56-2	5771	5408	5601	5593	3.25	cps
Iron	57-2	130	120	137	129	6.51	cps
Krypton	83-1	160	117	150	142	15.95	cps
Lead	206-1	727	630	553	637	13.64	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	617	567	513	566	9.14	cps
Lead	208-1	2683	2587	2317	2529	7.51	cps
Lithium	6-1	5089137	5033568	5155212	5092639	1.20	cps
Magnesium	24-2	553	507	503	521	5.36	cps
Manganese	55-2	157	173	133	154	13.01	cps
Molybdenum	94-1	293	237	247	259	11.68	cps
Molybdenum	95-1	113	153	150	139	15.98	cps
Molybdenum	96-1	270	250	323	281	13.48	cps
Molybdenum	97-1	73	120	90	94	25.04	cps
Molybdenum	98-1	207	190	250	216	14.37	cps
Neodymium	150-1	7	0	7	4	86.60	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	760	817	737	771	5.34	cps
Phosphorus	31-2	17	37	40	31	40.56	cps
Potassium	39-2	3607	3671	3704	3661	1.34	cps
Rhodium	103-1	8744290	8654232	8664816	8687779	0.57	cps
Rhodium	103-2	3152395	3109181	3128119	3129898	0.69	cps
Scandium	45-1	6515783	6564596	6600777	6560385	0.65	cps
Scandium	45-2	102123	101955	102821	102299	0.45	cps
Selenium	82-1	-43	-40	-60	-48	-22.43	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	0	3	1	173.21	cps
Silicon	28-1	244966	243566	243563	244032	0.33	cps
Silver	107-1	133	100	127	120	14.70	cps
Silver	109-1	47	50	63	53	16.53	cps
Sodium	23-2	11731	12179	12199	12036	2.19	cps
Strontium	86-1	173	197	257	209	20.58	cps
Strontium	88-1	573	480	573	542	9.94	cps
Sulfur	34-1	252152	251512	253356	252340	0.37	cps
Terbium	159-1	12432653	12537984	12326379	12432339	0.85	cps
Terbium	159-2	3930959	3856250	3869188	3885466	1.03	cps
Thallium	203-1	213	220	210	214	2.37	cps
Thallium	205-1	537	457	523	506	8.48	cps
Tin	118-1	1187	1027	1050	1088	7.95	cps
Titanium	47-1	117	127	123	122	4.17	cps
Uranium	238-1	380	417	527	441	17.30	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 17:58:05	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	10	7	6	91.64	cps
Ytterbium	172-1	77	90	73	80	11.02	cps
Ytterbium	172-2	10	30	23	21	48.24	cps
Ytterbium	176-1	1580	1530	1553	1555	1.61	cps
Ytterbium	176-2	220	180	190	197	10.58	cps
Yttrium	89-1	16994274	17253709	17024701	17090895	0.83	cps
Yttrium	89-2	1014750	1022609	1028862	1022073	0.69	cps
Zinc	66-2	140	150	163	151	7.75	cps
Zirconium	90-1	553	553	440	516	12.69	cps
Zirconium	91-1	113	117	97	109	9.84	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1710	1693	1607	1670	3.32	cps
Antimony	121-1	39032	38791	39209	39011	0.54	cps
Arsenic	75-2	330	337	303	323	5.45	cps
Barium	135-1	50420	50855	50972	50749	0.57	cps
Barium	137-1	87162	86648	85883	86564	0.74	cps
Beryllium	9-1	7131	7226	7140	7165	0.73	cps
Bismuth	209-1	7992241	7928271	7926161	7948891	0.47	cps
Bismuth	209-2	2864755	3006617	2990395	2953922	2.63	cps
Bromine	81-1	5034	5218	5228	5160	2.11	cps
Cadmium	108-1	483	497	403	461	10.95	cps
Cadmium	106-1	5961	5848	5791	5867	1.48	cps
Cadmium	111-1	6265	5933	5970	6056	3.00	cps
Calcium	43-1	36433	37191	37034	36886	1.09	cps
Calcium	44-1	585374	593599	588461	589145	0.71	cps
Carbon	12-1	2087668	2093359	2078541	2086522	0.36	cps
Carbon	12-2	14424	13917	14340	14227	1.91	cps
Chlorine	35-1	896791	989150	1042521	976154	7.55	cps
Chlorine	35-2	3741	3877	4044	3887	3.91	cps
Chromium	52-2	7719	7625	7679	7674	0.61	cps
Cobalt	59-2	7109	6765	7169	7014	3.10	cps
Copper	63-2	14030	14227	13990	14083	0.90	cps
Dysprosium	156-1	67	93	63	74	22.09	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	70	53	40	54	27.61	cps
Erbium	164-2	7	23	13	14	58.06	cps
Gadolinium	160-1	50	37	27	38	30.98	cps
Gadolinium	160-2	0	7	27	11	124.89	cps
Holmium	165-1	12421791	12231445	12259031	12304089	0.84	cps
Holmium	165-2	3892023	4103560	4021860	4005815	2.66	cps
Indium	115-1	9773065	9730938	9629629	9711210	0.76	cps
Indium	115-2	800483	837734	834060	824093	2.49	cps
Iron	54-2	31531	31882	31111	31508	1.23	cps
Iron	56-2	582883	585453	580686	583008	0.41	cps
Iron	57-2	14491	14881	14734	14702	1.34	cps
Krypton	83-1	133	143	100	126	18.07	cps
Lead	206-1	18527	18380	18523	18477	0.45	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15589	15506	15609	15568	0.35	cps
Lead	208-1	72854	72266	72449	72523	0.41	cps
Lithium	6-1	5065234	5107990	5080039	5084421	0.43	cps
Magnesium	24-2	133383	144900	132229	136837	5.12	cps
Manganese	55-2	1627	2034	1890	1850	11.15	cps
Molybdenum	94-1	40238	41465	41211	40971	1.58	cps
Molybdenum	95-1	49598	50076	49240	49638	0.85	cps
Molybdenum	96-1	55065	55078	55226	55123	0.16	cps
Molybdenum	97-1	29959	30924	31269	30717	2.21	cps
Molybdenum	98-1	80454	79197	81253	80301	1.29	cps
Neodymium	150-1	20	13	17	17	20.01	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	2750	2727	2780	2753	0.97	cps
Phosphorus	31-2	110	103	133	116	13.64	cps
Potassium	39-2	77644	77841	76957	77481	0.60	cps
Rhodium	103-1	8767265	8697402	8719647	8728105	0.41	cps
Rhodium	103-2	3073440	3229075	3153340	3151952	2.47	cps
Scandium	45-1	6677589	6677561	6633983	6663044	0.38	cps
Scandium	45-2	100049	104466	104436	102984	2.47	cps
Selenium	82-1	1493	1603	1590	1562	3.84	cps
Selenium	77-2	27	30	10	22	48.22	cps
Selenium	78-2	77	103	113	98	19.38	cps
Silicon	28-1	434904	437981	438103	436996	0.41	cps
Silver	107-1	25093	26335	26502	25977	2.96	cps
Silver	109-1	23794	24332	24028	24051	1.12	cps
Sodium	23-2	283170	283304	279436	281970	0.78	cps
Strontium	86-1	6835	6645	7019	6833	2.73	cps
Strontium	88-1	58800	60099	60068	59655	1.24	cps
Sulfur	34-1	259109	256962	259390	258487	0.51	cps
Terbium	159-1	12661285	12607540	12674830	12647885	0.28	cps
Terbium	159-2	3821158	3970048	3886816	3892674	1.92	cps
Thallium	203-1	21558	21598	21308	21488	0.73	cps
Thallium	205-1	50555	52181	51967	51568	1.71	cps
Tin	118-1	84961	86410	85820	85730	0.85	cps
Titanium	47-1	17918	18539	18382	18279	1.77	cps
Uranium	238-1	80035	80728	81927	80897	1.18	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:01:29	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14357	14377	14017	14251	1.42	cps
Ytterbium	172-1	60	57	117	78	43.35	cps
Ytterbium	172-2	10	37	37	28	55.43	cps
Ytterbium	176-1	1673	1673	1700	1682	0.92	cps
Ytterbium	176-2	217	273	247	246	11.55	cps
Yttrium	89-1	17275337	17215371	17139764	17210157	0.39	cps
Yttrium	89-2	992172	1041911	1041114	1025066	2.78	cps
Zinc	66-2	3090	2880	3004	2991	3.53	cps
Zirconium	90-1	34790	35522	34329	34880	1.72	cps
Zirconium	91-1	7626	7862	7559	7682	2.08	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	60	33	37	43	33.53	cps
Antimony	121-1	50	90	87	76	29.38	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	100	97	110	102	6.79	cps
Barium	137-1	187	147	123	152	21.04	cps
Beryllium	9-1	165	142	151	153	7.42	cps
Bismuth	209-1	7991049	8087618	7743536	7940734	2.23	cps
Bismuth	209-2	3001532	3033031	2984206	3006256	0.82	cps
Bromine	81-1	5361	4964	5321	5215	4.19	cps
Cadmium	108-1	23	37	30	30	22.23	cps
Cadmium	106-1	5478	5304	5271	5351	2.07	cps
Cadmium	111-1	1116	1062	1077	1085	2.58	cps
Calcium	43-1	327	343	300	323	6.76	cps
Calcium	44-1	5048	5151	4944	5048	2.05	cps
Carbon	12-1	1973283	1986044	1962835	1974054	0.59	cps
Carbon	12-2	13600	13426	13550	13525	0.66	cps
Chlorine	35-1	164561	155165	147367	155698	5.53	cps
Chlorine	35-2	563	500	523	529	6.06	cps
Chromium	52-2	653	510	483	549	16.66	cps
Cobalt	59-2	100	97	123	107	13.62	cps
Copper	63-2	2390	2357	2354	2367	0.86	cps
Dysprosium	156-1	97	63	100	87	23.40	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	47	73	60	60	22.22	cps
Erbium	164-2	13	13	23	17	34.65	cps
Gadolinium	160-1	30	40	7	26	66.92	cps
Gadolinium	160-2	17	3	20	13	66.16	cps
Holmium	165-1	12368126	12512796	12035002	12305308	1.99	cps
Holmium	165-2	4050695	4075705	4027051	4051150	0.60	cps
Indium	115-1	9625028	9748344	9276264	9549879	2.56	cps
Indium	115-2	823936	841197	821764	828966	1.28	cps
Iron	54-2	360	393	413	389	6.93	cps
Iron	56-2	6255	6125	6368	6249	1.95	cps
Iron	57-2	157	173	157	162	5.93	cps
Krypton	83-1	140	137	113	130	11.17	cps
Lead	206-1	747	707	747	733	3.15	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	713	583	713	670	11.20	cps
Lead	208-1	3020	2730	2943	2898	5.19	cps
Lithium	6-1	5183768	5072954	5008090	5088271	1.75	cps
Magnesium	24-2	520	540	507	522	3.21	cps
Manganese	55-2	187	210	197	198	5.92	cps
Molybdenum	94-1	303	273	347	308	11.98	cps
Molybdenum	95-1	133	153	133	140	8.25	cps
Molybdenum	96-1	287	283	257	276	5.97	cps
Molybdenum	97-1	127	120	97	114	13.76	cps
Molybdenum	98-1	233	190	260	228	15.51	cps
Neodymium	150-1	3	7	3	4	43.40	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	787	893	817	832	6.61	cps
Phosphorus	31-2	37	20	27	28	30.20	cps
Potassium	39-2	3824	3751	3664	3746	2.14	cps
Rhodium	103-1	8810278	8874147	8451887	8712104	2.61	cps
Rhodium	103-2	3198725	3244670	3145989	3196461	1.54	cps
Scandium	45-1	6738570	6678642	6501580	6639597	1.86	cps
Scandium	45-2	105094	104469	102572	104045	1.26	cps
Selenium	82-1	-23	-13	-40	-26	-52.72	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	3	2	86.60	cps
Silicon	28-1	244114	244566	245097	244592	0.20	cps
Silver	107-1	227	243	207	226	8.14	cps
Silver	109-1	167	137	157	153	9.96	cps
Sodium	23-2	11885	11765	11755	11802	0.61	cps
Strontium	86-1	200	213	207	207	3.23	cps
Strontium	88-1	527	530	517	524	1.32	cps
Sulfur	34-1	257290	256873	257182	257115	0.08	cps
Terbium	159-1	12761630	12721249	12346197	12609692	1.82	cps
Terbium	159-2	3983004	3982585	3948606	3971398	0.50	cps
Thallium	203-1	323	260	253	279	13.85	cps
Thallium	205-1	690	663	677	677	1.97	cps
Tin	118-1	1207	1107	1100	1138	5.25	cps
Titanium	47-1	103	133	127	121	13.01	cps
Uranium	238-1	437	447	447	443	1.30	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:04:51	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	3	3	2	86.60	cps
Ytterbium	172-1	100	33	47	60	58.80	cps
Ytterbium	172-2	20	33	17	23	37.78	cps
Ytterbium	176-1	1723	1593	1653	1657	3.93	cps
Ytterbium	176-2	187	233	197	206	11.95	cps
Yttrium	89-1	17398871	17194483	16793176	17128843	1.80	cps
Yttrium	89-2	1028719	1052623	1026862	1036068	1.39	cps
Zinc	66-2	187	193	173	184	5.52	cps
Zirconium	90-1	500	560	553	538	6.12	cps
Zirconium	91-1	130	97	140	122	18.56	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	382620	386011	387321	385318	0.63	cps
Antimony	121-1	5062345	5203707	5232086	5166046	1.76	cps
Arsenic	75-2	81323	82244	81842	81803	0.56	cps
Barium	135-1	6566403	6530926	6612601	6569976	0.62	cps
Barium	137-1	11165272	11344427	11316308	11275336	0.85	cps
Beryllium	9-1	1768799	1751858	1753332	1757996	0.53	cps
Bismuth	209-1	7384892	7505404	7629219	7506505	1.63	cps
Bismuth	209-2	2840667	2792709	2815831	2816402	0.85	cps
Bromine	81-1	5551	5361	5318	5410	2.30	cps
Cadmium	108-1	100003	101362	102488	101284	1.23	cps
Cadmium	106-1	145403	149125	150733	148420	1.84	cps
Cadmium	111-1	1180251	1192162	1209606	1194006	1.24	cps
Calcium	43-1	1877837	1859480	1878994	1872103	0.58	cps
Calcium	44-1	29192490	29457660	29657416	29435855	0.79	cps
Carbon	12-1	2192348	2250791	2255392	2232844	1.57	cps
Carbon	12-2	16516	16219	16226	16320	1.04	cps
Chlorine	35-1	130828	130568	133596	131664	1.27	cps
Chlorine	35-2	493	457	427	459	7.28	cps
Chromium	52-2	932165	940824	936409	936466	0.46	cps
Cobalt	59-2	1848634	1907533	1825943	1860703	2.26	cps
Copper	63-2	13550183	13572719	13587575	13570159	0.14	cps
Dysprosium	156-1	250	223	223	232	6.63	cps
Dysprosium	156-2	53	27	23	34	47.73	cps
Erbium	164-1	133	120	107	120	11.11	cps
Erbium	164-2	40	43	30	38	18.36	cps
Gadolinium	160-1	120	90	87	99	18.56	cps
Gadolinium	160-2	23	37	30	30	22.23	cps
Holmium	165-1	12174768	12361201	12402140	12312703	0.98	cps
Holmium	165-2	4090427	4166419	4195456	4150767	1.31	cps
Indium	115-1	9159233	9211584	9365368	9245395	1.16	cps
Indium	115-2	806543	816548	811802	811631	0.62	cps
Iron	54-2	2015828	2039531	2014682	2023347	0.69	cps
Iron	56-2	36014859	36846966	36525839	36462555	1.15	cps
Iron	57-2	871287	879932	873512	874910	0.51	cps
Krypton	83-1	153	150	143	149	3.42	cps
Lead	206-1	21394016	21763824	21691134	21616324	0.91	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18459033	18735500	18779811	18658114	0.93	cps
Lead	208-1	84802486	86486493	85840837	85709939	0.99	cps
Lithium	6-1	4834466	4814299	4916661	4855142	1.12	cps
Magnesium	24-2	7139006	7205048	7205353	7183136	0.53	cps
Manganese	55-2	4179941	4230939	4196166	4202349	0.62	cps
Molybdenum	94-1	17739605	17996115	17955919	17897213	0.77	cps
Molybdenum	95-1	25667944	25995146	26170968	25944686	0.98	cps
Molybdenum	96-1	28018517	28492050	28627810	28379459	1.13	cps
Molybdenum	97-1	15814874	16195333	16211325	16073844	1.40	cps
Molybdenum	98-1	41386089	41848054	42625796	41953313	1.49	cps
Neodymium	150-1	693	727	640	687	6.37	cps
Neodymium	150-2	40	30	10	27	57.28	cps
Nickel	60-2	470518	476126	475591	474078	0.65	cps
Phosphorus	31-2	17250	17537	16683	17157	2.53	cps
Potassium	39-2	1966276	1958928	1923064	1949423	1.19	cps
Rhodium	103-1	8087918	8200308	8335101	8207776	1.51	cps
Rhodium	103-2	3089560	3051404	3047641	3062868	0.76	cps
Scandium	45-1	6559754	6548357	6661491	6589867	0.95	cps
Scandium	45-2	105862	105987	106699	106183	0.42	cps
Selenium	82-1	77872	79920	79709	79167	1.42	cps
Selenium	77-2	1100	1153	1220	1158	5.19	cps
Selenium	78-2	4114	4001	3807	3974	3.90	cps
Silicon	28-1	23263035	23352582	23343828	23319815	0.21	cps
Silver	107-1	6608196	6680558	6744842	6677865	1.02	cps
Silver	109-1	6200012	6306971	6383575	6296852	1.46	cps
Sodium	23-2	14036339	14164959	13987599	14062966	0.65	cps
Strontium	86-1	1809933	1888445	1856870	1851749	2.13	cps
Strontium	88-1	15800606	16000073	16078989	15959889	0.90	cps
Sulfur	34-1	842918	855464	859055	852479	0.99	cps
Terbium	159-1	12442608	12413486	12565800	12473965	0.65	cps
Terbium	159-2	4036089	3939244	3982256	3985863	1.22	cps
Thallium	203-1	5497605	5612946	5536228	5548927	1.06	cps
Thallium	205-1	12895706	13097676	13202785	13065389	1.19	cps
Tin	118-1	4364887	4426859	4424250	4405332	0.80	cps
Titanium	47-1	7774296	7783439	7987074	7848270	1.53	cps
Uranium	238-1	20831928	21532775	20942194	21102299	1.79	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:08:16	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	719795	722230	724223	722083	0.31	cps
Ytterbium	172-1	157	127	160	148	12.42	cps
Ytterbium	172-2	50	57	50	52	7.37	cps
Ytterbium	176-1	24927	24980	26189	25365	2.81	cps
Ytterbium	176-2	7856	8053	7769	7892	1.84	cps
Yttrium	89-1	16894918	16817419	17107331	16939889	0.89	cps
Yttrium	89-2	1053065	1059579	1050177	1054274	0.46	cps
Zinc	66-2	1378128	1389181	1368370	1378559	0.76	cps
Zirconium	90-1	8929939	8980064	8978296	8962766	0.32	cps
Zirconium	91-1	1989411	2036997	2057972	2028127	1.73	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	53	63	83	67	22.91	cps
Antimony	121-1	163	243	270	226	24.61	cps
Arsenic	75-2	10	7	0	6	91.64	cps
Barium	135-1	270	247	247	254	5.30	cps
Barium	137-1	320	407	423	383	14.47	cps
Beryllium	9-1	245	245	240	243	1.19	cps
Bismuth	209-1	8030392	7917659	7908160	7952070	0.86	cps
Bismuth	209-2	2974567	3024673	2981229	2993490	0.91	cps
Bromine	81-1	5181	5294	5381	5285	1.90	cps
Cadmium	108-1	47	50	40	46	11.18	cps
Cadmium	106-1	5534	5491	5484	5503	0.49	cps
Cadmium	111-1	1124	1113	1102	1113	0.99	cps
Calcium	43-1	343	457	347	382	16.87	cps
Calcium	44-1	5101	4938	4931	4990	1.93	cps
Carbon	12-1	2068200	2017405	2017909	2034505	1.43	cps
Carbon	12-2	13917	13466	14030	13804	2.16	cps
Chlorine	35-1	106031	106632	107740	106801	0.81	cps
Chlorine	35-2	337	390	320	349	10.48	cps
Chromium	52-2	377	497	527	467	17.01	cps
Cobalt	59-2	140	110	123	124	12.08	cps
Copper	63-2	2000	2160	2044	2068	4.00	cps
Dysprosium	156-1	43	87	100	77	38.65	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	47	47	70	54	24.74	cps
Erbium	164-2	20	13	13	16	24.76	cps
Gadolinium	160-1	23	43	30	32	31.61	cps
Gadolinium	160-2	10	13	3	9	57.30	cps
Holmium	165-1	12565341	12416318	12385151	12455603	0.77	cps
Holmium	165-2	4084756	4078679	4043361	4068932	0.55	cps
Indium	115-1	9905536	9814867	9734788	9818397	0.87	cps
Indium	115-2	824431	827330	820919	824227	0.39	cps
Iron	54-2	337	430	390	386	12.15	cps
Iron	56-2	5471	5461	5431	5454	0.38	cps
Iron	57-2	123	147	153	141	11.16	cps
Krypton	83-1	157	123	117	132	16.21	cps
Lead	206-1	823	877	947	882	7.01	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	840	707	720	756	9.72	cps
Lead	208-1	3624	3474	3420	3506	3.01	cps
Lithium	6-1	5050032	5045118	4993118	5029423	0.63	cps
Magnesium	24-2	440	543	490	491	10.52	cps
Manganese	55-2	273	217	290	260	14.79	cps
Molybdenum	94-1	363	380	243	329	22.67	cps
Molybdenum	95-1	350	300	237	296	19.22	cps
Molybdenum	96-1	363	383	357	368	3.77	cps
Molybdenum	97-1	123	190	143	152	22.47	cps
Molybdenum	98-1	470	393	353	406	14.62	cps
Neodymium	150-1	30	13	17	20	44.10	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	743	800	687	743	7.62	cps
Phosphorus	31-2	30	17	23	23	28.56	cps
Potassium	39-2	3777	3924	3684	3795	3.19	cps
Rhodium	103-1	8888571	8831568	8830334	8850158	0.38	cps
Rhodium	103-2	3161252	3173084	3192354	3175563	0.49	cps
Scandium	45-1	6844223	6720928	6737573	6767575	0.99	cps
Scandium	45-2	103039	103509	102908	103152	0.31	cps
Selenium	82-1	20	3	-17	2	827.04	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	0	0	0	0.00	cps
Silicon	28-1	254458	252912	253125	253498	0.33	cps
Silver	107-1	233	180	180	198	15.57	cps
Silver	109-1	127	83	67	92	33.58	cps
Sodium	23-2	13450	13213	12979	13214	1.78	cps
Strontium	86-1	233	223	217	224	3.74	cps
Strontium	88-1	607	607	557	590	4.89	cps
Sulfur	34-1	266046	264145	263492	264561	0.50	cps
Terbium	159-1	12699925	12810026	12724150	12744700	0.45	cps
Terbium	159-2	3948332	3933313	3926872	3936172	0.28	cps
Thallium	203-1	340	293	283	306	9.90	cps
Thallium	205-1	650	800	773	741	10.80	cps
Tin	118-1	1127	1350	1243	1240	9.01	cps
Titanium	47-1	133	93	140	122	20.65	cps
Uranium	238-1	537	503	473	504	6.28	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:16:48	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	13	0	7	99.98	cps
Ytterbium	172-1	47	67	63	59	18.19	cps
Ytterbium	172-2	57	30	13	33	65.58	cps
Ytterbium	176-1	1693	1580	1710	1661	4.26	cps
Ytterbium	176-2	237	223	240	233	3.78	cps
Yttrium	89-1	17515809	17355039	17287179	17386009	0.68	cps
Yttrium	89-2	1020231	1021782	1021802	1021272	0.09	cps
Zinc	66-2	160	150	200	170	15.56	cps
Zirconium	90-1	647	613	557	606	7.51	cps
Zirconium	91-1	123	103	150	126	18.65	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1972043	1934193	1919545	1941927	1.40	cps
Antimony	121-1	4806328	4854717	4868720	4843255	0.68	cps
Arsenic	75-2	74553	74844	74177	74525	0.45	cps
Barium	135-1	6249850	6310389	6209461	6256567	0.81	cps
Barium	137-1	10703976	10722715	10676763	10701151	0.22	cps
Beryllium	9-1	1699284	1677388	1676553	1684408	0.77	cps
Bismuth	209-1	6405981	6518479	6511365	6478608	0.97	cps
Bismuth	209-2	2456157	2417734	2431914	2435268	0.80	cps
Bromine	81-1	5234	5211	5044	5163	2.01	cps
Cadmium	108-1	91363	92407	91863	91878	0.57	cps
Cadmium	106-1	133020	136254	136288	135187	1.39	cps
Cadmium	111-1	1059498	1071604	1074751	1068618	0.75	cps
Calcium	43-1	8781282	8790557	8836150	8802663	0.33	cps
Calcium	44-1	140700965	142262155	140893398	141285506	0.60	cps
Carbon	12-1	2140801	2189837	2201202	2177280	1.47	cps
Carbon	12-2	17073	17247	17380	17234	0.89	cps
Chlorine	35-1	107162	107670	108553	107795	0.65	cps
Chlorine	35-2	390	420	410	407	3.76	cps
Chromium	52-2	875615	865279	874910	871934	0.66	cps
Cobalt	59-2	1683794	1680672	1685292	1683253	0.14	cps
Copper	63-2	12043061	11979362	11755096	11925840	1.27	cps
Dysprosium	156-1	383	377	387	382	1.33	cps
Dysprosium	156-2	53	53	80	62	24.75	cps
Erbium	164-1	320	337	310	322	4.18	cps
Erbium	164-2	107	90	97	98	8.58	cps
Gadolinium	160-1	263	290	213	256	15.23	cps
Gadolinium	160-2	57	100	80	79	27.49	cps
Holmium	165-1	11154293	11377312	11347743	11293116	1.07	cps
Holmium	165-2	3775467	3737748	3789672	3767629	0.71	cps
Indium	115-1	8107459	8363522	8093419	8188133	1.86	cps
Indium	115-2	718911	715840	728757	721170	0.94	cps
Iron	54-2	9174617	9101940	9118802	9131786	0.42	cps
Iron	56-2	169761351	166976184	167760248	168165927	0.85	cps
Iron	57-2	4310229	4266120	4283162	4286504	0.52	cps
Krypton	83-1	213	187	153	184	16.30	cps
Lead	206-1	20018733	20464262	20140822	20207939	1.14	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17083879	17341750	17426831	17284153	1.03	cps
Lead	208-1	79049203	80072998	79961548	79694583	0.70	cps
Lithium	6-1	4452905	4565325	4461658	4493296	1.39	cps
Magnesium	24-2	33513009	33164615	32660025	33112549	1.30	cps
Manganese	55-2	3966989	3882893	3947415	3932432	1.12	cps
Molybdenum	94-1	17486039	17746964	17469540	17567514	0.89	cps
Molybdenum	95-1	25360323	25645140	25308417	25437960	0.71	cps
Molybdenum	96-1	27550415	27483565	27259625	27431202	0.56	cps
Molybdenum	97-1	15611302	15758691	15653443	15674478	0.48	cps
Molybdenum	98-1	40401763	41296149	41035741	40911217	1.12	cps
Neodymium	150-1	757	753	787	766	2.40	cps
Neodymium	150-2	63	40	37	47	31.13	cps
Nickel	60-2	422558	422718	415668	420315	0.96	cps
Phosphorus	31-2	16396	15919	15665	15993	2.32	cps
Potassium	39-2	9256858	9135795	9174050	9188901	0.67	cps
Rhodium	103-1	7088101	7101291	7095904	7095099	0.09	cps
Rhodium	103-2	2563251	2543420	2593793	2566821	0.99	cps
Scandium	45-1	5969622	6010393	6114811	6031609	1.24	cps
Scandium	45-2	97266	95773	97004	96681	0.82	cps
Selenium	82-1	71304	72789	72758	72283	1.17	cps
Selenium	77-2	1157	1080	1027	1088	6.01	cps
Selenium	78-2	3527	3610	3570	3569	1.17	cps
Silicon	28-1	25264600	25142804	25217875	25208426	0.24	cps
Silver	107-1	5930595	5962435	5988152	5960394	0.48	cps
Silver	109-1	5631731	5635282	5612484	5626499	0.22	cps
Sodium	23-2	66487807	66127921	65270867	65962198	0.95	cps
Strontium	86-1	1747363	1802764	1812728	1787618	1.97	cps
Strontium	88-1	15351208	15520304	15415989	15429167	0.55	cps
Sulfur	34-1	801740	800401	802709	801616	0.14	cps
Terbium	159-1	11475784	11660228	11583545	11573186	0.80	cps
Terbium	159-2	3592667	3637796	3693527	3641330	1.39	cps
Thallium	203-1	5155161	5210183	5201719	5189021	0.57	cps
Thallium	205-1	12178908	12250537	12309696	12246381	0.53	cps
Tin	118-1	4107198	4166225	4110428	4127951	0.80	cps
Titanium	47-1	7574780	7611913	7655818	7614170	0.53	cps
Uranium	238-1	20480140	20611095	20646221	20579152	0.43	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:29:27	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	691868	683475	686925	687422	0.61	cps
Ytterbium	172-1	320	280	350	317	11.09	cps
Ytterbium	172-2	110	107	147	121	18.33	cps
Ytterbium	176-1	24660	24780	24396	24612	0.80	cps
Ytterbium	176-2	7932	7842	7599	7791	2.21	cps
Yttrium	89-1	15361201	15448633	15733150	15514328	1.25	cps
Yttrium	89-2	949188	942843	963681	951904	1.12	cps
Zinc	66-2	1215891	1202210	1201903	1206668	0.66	cps
Zirconium	90-1	8790114	8765413	8936420	8830649	1.05	cps
Zirconium	91-1	2012226	1984745	2003780	2000250	0.70	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	33	40	23	32	26.04	cps
Antimony	121-1	523	477	447	482	8.01	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	487	470	450	469	3.92	cps
Barium	137-1	917	883	760	853	9.67	cps
Beryllium	9-1	520	486	507	505	3.38	cps
Bismuth	209-1	7556806	7731516	7736402	7674908	1.33	cps
Bismuth	209-2	2996821	2987005	2928738	2970854	1.24	cps
Bromine	81-1	5411	5361	5301	5358	1.03	cps
Cadmium	108-1	57	33	50	47	25.76	cps
Cadmium	106-1	5094	5381	5231	5235	2.74	cps
Cadmium	111-1	1063	1116	1078	1086	2.55	cps
Calcium	43-1	300	377	303	327	13.27	cps
Calcium	44-1	4818	4534	4537	4630	3.51	cps
Carbon	12-1	1454963	1381091	1387938	1407997	2.90	cps
Carbon	12-2	9573	9450	9420	9481	0.86	cps
Chlorine	35-1	99526	99535	101063	100041	0.88	cps
Chlorine	35-2	410	323	390	374	12.12	cps
Chromium	52-2	500	433	527	487	9.88	cps
Cobalt	59-2	150	207	123	160	26.60	cps
Copper	63-2	1970	2034	2044	2016	1.97	cps
Dysprosium	156-1	67	43	93	68	36.91	cps
Dysprosium	156-2	7	0	3	3	100.05	cps
Erbium	164-1	57	80	50	62	25.32	cps
Erbium	164-2	30	40	10	27	57.28	cps
Gadolinium	160-1	43	40	13	32	51.04	cps
Gadolinium	160-2	13	10	10	11	17.30	cps
Holmium	165-1	11739069	12077372	12068667	11961703	1.61	cps
Holmium	165-2	4094103	4065730	3969678	4043170	1.61	cps
Indium	115-1	9318369	9606443	9503023	9475945	1.54	cps
Indium	115-2	824287	830326	821995	825536	0.52	cps
Iron	54-2	507	477	450	478	5.93	cps
Iron	56-2	7956	7645	9357	8319	10.96	cps
Iron	57-2	177	197	203	192	7.22	cps
Krypton	83-1	140	180	120	147	20.83	cps
Lead	206-1	1443	1357	1340	1380	4.02	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1170	1177	1167	1171	0.43	cps
Lead	208-1	5644	5324	5184	5384	4.38	cps
Lithium	6-1	4865423	4940241	4969475	4925046	1.09	cps
Magnesium	24-2	467	450	343	420	15.93	cps
Manganese	55-2	367	340	293	333	11.14	cps
Molybdenum	94-1	453	457	453	454	0.42	cps
Molybdenum	95-1	503	320	397	407	22.64	cps
Molybdenum	96-1	557	560	467	528	10.03	cps
Molybdenum	97-1	270	230	213	238	12.25	cps
Molybdenum	98-1	627	553	583	588	6.27	cps
Neodymium	150-1	33	33	33	33	0.00	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	700	780	737	739	5.42	cps
Phosphorus	31-2	23	13	10	16	44.60	cps
Potassium	39-2	4277	4471	4601	4450	3.66	cps
Rhodium	103-1	8356216	8603815	8719699	8559910	2.17	cps
Rhodium	103-2	3136520	3164997	3175691	3159070	0.64	cps
Scandium	45-1	6245208	6539123	6588258	6457530	2.87	cps
Scandium	45-2	103227	103737	101267	102744	1.27	cps
Selenium	82-1	3	-77	-7	-27	-163.50	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	0	3	0	1	173.21	cps
Silicon	28-1	237782	238212	239585	238526	0.39	cps
Silver	107-1	260	247	230	246	6.12	cps
Silver	109-1	190	143	160	164	14.38	cps
Sodium	23-2	15028	15091	15141	15087	0.38	cps
Strontium	86-1	207	263	263	244	13.38	cps
Strontium	88-1	510	480	423	471	9.34	cps
Sulfur	34-1	245022	245530	244181	244911	0.28	cps
Terbium	159-1	11825505	12339343	12358781	12174543	2.48	cps
Terbium	159-2	3968588	3872874	3831815	3891092	1.80	cps
Thallium	203-1	350	373	400	374	6.68	cps
Thallium	205-1	917	987	837	913	8.22	cps
Tin	118-1	1370	1377	1407	1385	1.41	cps
Titanium	47-1	160	157	137	151	8.35	cps
Uranium	238-1	537	630	600	589	8.09	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:35:51	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	7	10	33.30	cps
Ytterbium	172-1	60	60	50	57	10.19	cps
Ytterbium	172-2	17	40	10	22	70.88	cps
Ytterbium	176-1	1493	1567	1537	1532	2.41	cps
Ytterbium	176-2	167	140	193	167	16.00	cps
Yttrium	89-1	16323516	17095851	16860593	16759986	2.36	cps
Yttrium	89-2	1028401	1030720	1016277	1025133	0.76	cps
Zinc	66-2	170	267	187	208	24.87	cps
Zirconium	90-1	653	673	597	641	6.20	cps
Zirconium	91-1	120	107	137	121	12.41	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	359305	356681	348939	354975	1.52	cps
Antimony	121-1	4723359	4865166	4795080	4794535	1.48	cps
Arsenic	75-2	76074	75517	75564	75719	0.41	cps
Barium	135-1	6028668	6116151	6012606	6052475	0.92	cps
Barium	137-1	10410305	10495051	10579690	10495016	0.81	cps
Beryllium	9-1	1599646	1637241	1619209	1618698	1.16	cps
Bismuth	209-1	6960207	6944337	7089866	6998137	1.14	cps
Bismuth	209-2	2365838	2622622	3083433	2690631	13.51	cps
Bromine	81-1	5374	5074	5284	5244	2.94	cps
Cadmium	108-1	92615	95440	93598	93885	1.53	cps
Cadmium	106-1	134537	136473	137685	136232	1.17	cps
Cadmium	111-1	1094393	1121352	1119240	1111662	1.35	cps
Calcium	43-1	1737283	1739529	1739324	1738712	0.07	cps
Calcium	44-1	27101096	27375959	27869121	27448725	1.42	cps
Carbon	12-1	2124794	2151637	2185748	2154060	1.42	cps
Carbon	12-2	16126	15845	15648	15873	1.51	cps
Chlorine	35-1	99757	100801	103869	101476	2.11	cps
Chlorine	35-2	357	450	360	389	13.62	cps
Chromium	52-2	872479	872442	853978	866300	1.23	cps
Cobalt	59-2	1725450	1730155	1708272	1721292	0.67	cps
Copper	63-2	12840304	12689954	12543721	12691326	1.17	cps
Dysprosium	156-1	160	150	187	166	11.45	cps
Dysprosium	156-2	20	33	17	23	37.78	cps
Erbium	164-1	87	167	140	131	31.07	cps
Erbium	164-2	20	33	47	33	40.01	cps
Gadolinium	160-1	70	70	83	74	10.34	cps
Gadolinium	160-2	13	37	30	27	45.08	cps
Holmium	165-1	11346384	11400307	11440602	11395764	0.41	cps
Holmium	165-2	3430233	3763110	4391957	3861767	12.65	cps
Indium	115-1	8612353	8650455	8617705	8626838	0.24	cps
Indium	115-2	669269	744754	876887	763637	13.76	cps
Iron	54-2	1898285	1890521	1869100	1885969	0.80	cps
Iron	56-2	34424694	33876845	33012988	33771509	2.11	cps
Iron	57-2	814253	815804	805026	811695	0.72	cps
Krypton	83-1	130	143	160	144	10.41	cps
Lead	206-1	19887201	20038760	20180483	20035482	0.73	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16944372	17016421	17197730	17052841	0.77	cps
Lead	208-1	78514962	79178450	79532868	79075426	0.65	cps
Lithium	6-1	4583490	4657630	4648960	4630026	0.88	cps
Magnesium	24-2	6629242	6599382	6506156	6578260	0.98	cps
Manganese	55-2	3971840	3910382	3801608	3894610	2.21	cps
Molybdenum	94-1	16452526	16815001	16926709	16731412	1.48	cps
Molybdenum	95-1	24005482	24826186	24746880	24526183	1.85	cps
Molybdenum	96-1	26286274	26368850	26553017	26402713	0.52	cps
Molybdenum	97-1	14677625	14931254	14957598	14855492	1.04	cps
Molybdenum	98-1	38478490	39027102	39081611	38862401	0.86	cps
Neodymium	150-1	630	643	600	624	3.55	cps
Neodymium	150-2	30	30	17	26	30.11	cps
Nickel	60-2	442189	443858	439538	441862	0.49	cps
Phosphorus	31-2	15715	15502	15301	15506	1.33	cps
Potassium	39-2	1841742	1813793	1781320	1812285	1.67	cps
Rhodium	103-1	7637227	7633056	7743204	7671162	0.81	cps
Rhodium	103-2	2545293	2791820	3266776	2867963	12.79	cps
Scandium	45-1	6152705	6241713	6211061	6201826	0.73	cps
Scandium	45-2	87327	96664	111811	98600	12.53	cps
Selenium	82-1	73381	74460	74474	74105	0.85	cps
Selenium	77-2	1050	1000	1133	1061	6.35	cps
Selenium	78-2	3651	3761	3761	3724	1.71	cps
Silicon	28-1	21245988	21621488	21627776	21498417	1.02	cps
Silver	107-1	6223700	6325088	6231798	6260195	0.90	cps
Silver	109-1	5815276	5972437	5883633	5890449	1.34	cps
Sodium	23-2	13035448	12907744	12984764	12975986	0.50	cps
Strontium	86-1	1691206	1771279	1755368	1739284	2.44	cps
Strontium	88-1	14654349	14897387	14905097	14818945	0.96	cps
Sulfur	34-1	775217	785373	798021	786204	1.45	cps
Terbium	159-1	11550925	11784235	11596964	11644041	1.06	cps
Terbium	159-2	3309140	3642924	4292190	3748085	13.34	cps
Thallium	203-1	5122676	5063745	5089975	5092132	0.58	cps
Thallium	205-1	12022460	12115819	12161399	12099893	0.59	cps
Tin	118-1	4061641	4099070	4054755	4071822	0.59	cps
Titanium	47-1	7178512	7234352	7390062	7267642	1.51	cps
Uranium	238-1	19529545	19723405	19579363	19610771	0.51	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:39:16	DataFile Name :	058LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	673651	677526	664596	671924	0.99	cps
Ytterbium	172-1	120	110	127	119	7.06	cps
Ytterbium	172-2	37	73	40	50	40.55	cps
Ytterbium	176-1	22088	23064	23678	22943	3.49	cps
Ytterbium	176-2	7599	7529	7352	7493	1.70	cps
Yttrium	89-1	15856387	15965184	15795319	15872297	0.54	cps
Yttrium	89-2	868417	958843	1120305	982522	12.99	cps
Zinc	66-2	1291089	1286835	1274732	1284219	0.66	cps
Zirconium	90-1	8321911	8392765	8431553	8382076	0.66	cps
Zirconium	91-1	1874156	1915144	1907916	1899072	1.15	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	47	50	40	46	11.18	cps
Antimony	121-1	473	347	480	433	17.34	cps
Arsenic	75-2	7	0	3	3	100.05	cps
Barium	135-1	470	440	453	454	3.31	cps
Barium	137-1	867	840	773	827	5.82	cps
Beryllium	9-1	485	447	462	465	4.06	cps
Bismuth	209-1	7947679	7843819	7752389	7847962	1.25	cps
Bismuth	209-2	2983496	2993628	3063564	3013562	1.45	cps
Bromine	81-1	5158	5268	5468	5298	2.97	cps
Cadmium	108-1	57	47	57	53	10.82	cps
Cadmium	106-1	5328	4884	5141	5118	4.35	cps
Cadmium	111-1	1139	1008	1052	1066	6.29	cps
Calcium	43-1	383	310	340	344	10.70	cps
Calcium	44-1	5388	5598	5388	5458	2.22	cps
Carbon	12-1	1945680	1946399	1927394	1939824	0.56	cps
Carbon	12-2	13129	13059	13056	13081	0.32	cps
Chlorine	35-1	93342	94086	92748	93392	0.72	cps
Chlorine	35-2	383	310	317	337	12.04	cps
Chromium	52-2	433	480	507	473	7.84	cps
Cobalt	59-2	170	153	183	169	8.90	cps
Copper	63-2	1893	2024	2174	2030	6.90	cps
Dysprosium	156-1	80	63	80	74	12.93	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	77	67	63	69	10.08	cps
Erbium	164-2	17	33	23	24	34.31	cps
Gadolinium	160-1	37	50	40	42	16.43	cps
Gadolinium	160-2	7	13	27	16	65.47	cps
Holmium	165-1	12448808	12295525	12097814	12280716	1.43	cps
Holmium	165-2	4062202	4047000	4096264	4068489	0.62	cps
Indium	115-1	9783497	9610715	9548870	9647694	1.26	cps
Indium	115-2	822256	825945	831658	826620	0.57	cps
Iron	54-2	423	423	430	426	0.90	cps
Iron	56-2	7149	8864	7215	7743	12.55	cps
Iron	57-2	137	143	157	146	7.00	cps
Krypton	83-1	157	140	160	152	7.04	cps
Lead	206-1	1463	1410	1280	1385	6.81	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1387	1230	1230	1282	7.05	cps
Lead	208-1	6041	5654	5551	5748	4.49	cps
Lithium	6-1	5138132	4913416	4973607	5008385	2.32	cps
Magnesium	24-2	333	417	373	374	11.13	cps
Manganese	55-2	350	397	427	391	9.88	cps
Molybdenum	94-1	467	470	450	462	2.32	cps
Molybdenum	95-1	453	427	420	433	4.07	cps
Molybdenum	96-1	757	573	490	607	22.49	cps
Molybdenum	97-1	280	293	250	274	8.09	cps
Molybdenum	98-1	850	683	710	748	11.97	cps
Neodymium	150-1	27	37	33	32	15.80	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	793	770	803	789	2.17	cps
Phosphorus	31-2	40	20	33	31	32.73	cps
Potassium	39-2	4374	4401	4197	4324	2.56	cps
Rhodium	103-1	8753518	8635515	8627225	8672086	0.81	cps
Rhodium	103-2	3147337	3194227	3157401	3166322	0.78	cps
Scandium	45-1	6669589	6625450	6513187	6602742	1.22	cps
Scandium	45-2	100485	102522	103580	102196	1.54	cps
Selenium	82-1	-70	-7	-50	-42	-76.69	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	7	0	2	173.21	cps
Silicon	28-1	248376	245969	247177	247174	0.49	cps
Silver	107-1	280	327	290	299	8.22	cps
Silver	109-1	183	210	183	192	8.01	cps
Sodium	23-2	15061	14774	14864	14900	0.98	cps
Strontium	86-1	293	270	253	272	7.38	cps
Strontium	88-1	680	700	613	664	6.83	cps
Sulfur	34-1	252371	250914	252922	252069	0.41	cps
Terbium	159-1	12625854	12556552	12442662	12541689	0.74	cps
Terbium	159-2	3895575	3926197	3983150	3934974	1.13	cps
Thallium	203-1	477	440	420	446	6.45	cps
Thallium	205-1	1110	1170	1023	1101	6.70	cps
Tin	118-1	1243	1317	1290	1283	2.89	cps
Titanium	47-1	180	163	187	177	6.80	cps
Uranium	238-1	750	677	610	679	10.31	cps

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:45:32	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	20	7	10	88.20	cps
Ytterbium	172-1	67	57	50	58	14.52	cps
Ytterbium	172-2	17	33	10	20	60.08	cps
Ytterbium	176-1	1550	1623	1547	1573	2.75	cps
Ytterbium	176-2	203	207	203	204	0.94	cps
Yttrium	89-1	17235963	17292836	17150948	17226583	0.41	cps
Yttrium	89-2	1020168	1019529	1032631	1024109	0.72	cps
Zinc	66-2	160	197	240	199	20.13	cps
Zirconium	90-1	650	643	607	633	3.68	cps
Zirconium	91-1	130	147	167	148	12.42	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	374448	373908	376460	374939	0.36	cps
Antimony	121-1	5038693	5097495	5062469	5066219	0.58	cps
Arsenic	75-2	79258	80139	79599	79665	0.56	cps
Barium	135-1	6403913	6471534	6427219	6434222	0.53	cps
Barium	137-1	10866487	10873964	10930912	10890454	0.32	cps
Beryllium	9-1	1715482	1719206	1746463	1727050	0.98	cps
Bismuth	209-1	7600313	7467937	7444796	7504349	1.12	cps
Bismuth	209-2	2807710	2823085	2818906	2816567	0.28	cps
Bromine	81-1	5531	5338	5494	5454	1.88	cps
Cadmium	108-1	98559	99056	100556	99390	1.05	cps
Cadmium	106-1	143792	146969	148296	146353	1.58	cps
Cadmium	111-1	1156987	1173243	1175043	1168424	0.85	cps
Calcium	43-1	1834912	1830370	1858362	1841215	0.82	cps
Calcium	44-1	29091775	29114352	29239950	29148692	0.27	cps
Carbon	12-1	2102270	2116840	2155255	2124788	1.29	cps
Carbon	12-2	15632	15582	15448	15554	0.61	cps
Chlorine	35-1	101922	102670	104930	103174	1.52	cps
Chlorine	35-2	367	430	327	374	13.92	cps
Chromium	52-2	912626	909293	911800	911240	0.19	cps
Cobalt	59-2	1798854	1811170	1811781	1807268	0.40	cps
Copper	63-2	13286109	13467788	13297073	13350323	0.76	cps
Dysprosium	156-1	197	207	197	200	2.89	cps
Dysprosium	156-2	10	10	13	11	17.30	cps
Erbium	164-1	93	117	107	106	11.09	cps
Erbium	164-2	47	33	23	34	34.00	cps
Gadolinium	160-1	87	97	127	103	20.14	cps
Gadolinium	160-2	27	27	20	24	15.75	cps
Holmium	165-1	12237764	12364710	12210563	12271012	0.67	cps
Holmium	165-2	3945185	4105297	3992269	4014250	2.05	cps
Indium	115-1	9208462	9215920	9251462	9225281	0.25	cps
Indium	115-2	792703	803028	796839	797523	0.65	cps
Iron	54-2	1994651	1985602	1969177	1983143	0.65	cps
Iron	56-2	35724109	35475857	35594870	35598279	0.35	cps
Iron	57-2	854131	852732	855402	854088	0.16	cps
Krypton	83-1	123	100	180	134	30.60	cps
Lead	206-1	20803341	21303068	21690425	21265611	2.09	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18049401	18183617	18350863	18194627	0.83	cps
Lead	208-1	83326725	83638368	84650160	83871751	0.82	cps
Lithium	6-1	4897224	4935066	4877964	4903418	0.59	cps
Magnesium	24-2	6947368	6859776	6966205	6924450	0.82	cps
Manganese	55-2	4113096	4114961	4092242	4106766	0.31	cps
Molybdenum	94-1	17585065	17742921	17828586	17718858	0.70	cps
Molybdenum	95-1	25249364	25719752	26042685	25670600	1.55	cps
Molybdenum	96-1	27350985	27717000	28190547	27752844	1.52	cps
Molybdenum	97-1	15720547	15944126	15857194	15840622	0.71	cps
Molybdenum	98-1	41135399	41563585	42079035	41592673	1.14	cps
Neodymium	150-1	707	697	810	738	8.50	cps
Neodymium	150-2	13	27	20	20	33.35	cps
Nickel	60-2	458177	461584	463590	461117	0.59	cps
Phosphorus	31-2	16760	16333	16837	16643	1.63	cps
Potassium	39-2	1878037	1872345	1945033	1898471	2.13	cps
Rhodium	103-1	8282164	8317912	8137049	8245708	1.16	cps
Rhodium	103-2	3032361	3042320	3012075	3028919	0.51	cps
Scandium	45-1	6638194	6574167	6547698	6586686	0.71	cps
Scandium	45-2	103005	104305	101814	103041	1.21	cps
Selenium	82-1	77124	78331	78566	78007	0.99	cps
Selenium	77-2	1223	1223	1127	1191	4.69	cps
Selenium	78-2	4097	3831	4127	4018	4.07	cps
Silicon	28-1	26656795	26775192	26663153	26698380	0.25	cps
Silver	107-1	6564785	6540074	6622854	6575904	0.65	cps
Silver	109-1	6109932	6277472	6289162	6225522	1.61	cps
Sodium	23-2	13699892	13613348	13822357	13711866	0.77	cps
Strontium	86-1	1836828	1832109	1840771	1836569	0.24	cps
Strontium	88-1	15729283	15849351	15748757	15775797	0.41	cps
Sulfur	34-1	828425	834101	839876	834134	0.69	cps
Terbium	159-1	12446107	12745837	12401773	12531239	1.49	cps
Terbium	159-2	3945905	3912857	3901378	3920047	0.59	cps
Thallium	203-1	5335980	5458768	5482575	5425774	1.45	cps
Thallium	205-1	12575553	12827579	13052056	12818396	1.86	cps
Tin	118-1	4242023	4317342	4354788	4304718	1.33	cps
Titanium	47-1	7738558	7780145	7759079	7759261	0.27	cps
Uranium	238-1	20579918	20811772	20816446	20736045	0.65	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:48:55	DataFile Name :	061LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	704304	708776	709524	707535	0.40	cps
Ytterbium	172-1	140	83	130	118	25.68	cps
Ytterbium	172-2	80	40	53	58	35.25	cps
Ytterbium	176-1	24212	24550	24429	24397	0.70	cps
Ytterbium	176-2	7962	7609	8286	7952	4.26	cps
Yttrium	89-1	17272853	17412275	16911546	17198891	1.50	cps
Yttrium	89-2	1030006	1038708	1035991	1034902	0.43	cps
Zinc	66-2	1348574	1358424	1355006	1354002	0.37	cps
Zirconium	90-1	8830172	8982026	8879461	8897220	0.87	cps
Zirconium	91-1	2024752	2008740	2021165	2018219	0.42	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1948693	1941389	1940165	1943416	0.24	cps
Antimony	121-1	4967540	4938486	4873056	4926361	0.98	cps
Arsenic	75-2	75507	75320	74459	75095	0.74	cps
Barium	135-1	6356766	6410116	6313867	6360250	0.76	cps
Barium	137-1	10862134	10922883	10862206	10882407	0.32	cps
Beryllium	9-1	1701105	1674789	1685824	1687239	0.78	cps
Bismuth	209-1	6744415	6662034	6580710	6662386	1.23	cps
Bismuth	209-2	2485389	2419502	2464495	2456462	1.37	cps
Bromine	81-1	5675	5668	5748	5697	0.78	cps
Cadmium	108-1	94840	95095	95299	95078	0.24	cps
Cadmium	106-1	139846	138365	138664	138959	0.56	cps
Cadmium	111-1	1094962	1092835	1088908	1092235	0.28	cps
Calcium	43-1	8849127	8928355	9003142	8926874	0.86	cps
Calcium	44-1	143823228	144192908	144134281	144050139	0.14	cps
Carbon	12-1	2174507	2222321	2175821	2190883	1.24	cps
Carbon	12-2	17170	17337	17477	17328	0.89	cps
Chlorine	35-1	101429	102644	103889	102654	1.20	cps
Chlorine	35-2	397	333	357	362	8.84	cps
Chromium	52-2	872612	872454	867290	870786	0.35	cps
Cobalt	59-2	1696098	1721422	1724796	1714105	0.92	cps
Copper	63-2	12141007	11962769	11817422	11973732	1.35	cps
Dysprosium	156-1	423	377	443	414	8.25	cps
Dysprosium	156-2	83	83	63	77	15.06	cps
Erbium	164-1	400	290	317	336	17.10	cps
Erbium	164-2	110	63	90	88	26.67	cps
Gadolinium	160-1	250	203	223	226	10.38	cps
Gadolinium	160-2	83	100	87	90	9.80	cps
Holmium	165-1	11775232	11634658	11496471	11635454	1.20	cps
Holmium	165-2	3846195	3787474	3781619	3805096	0.94	cps
Indium	115-1	8564656	8451568	8365289	8460504	1.18	cps
Indium	115-2	732199	721921	727665	727261	0.71	cps
Iron	54-2	9163872	9124301	9131718	9139964	0.23	cps
Iron	56-2	170465911	168336214	168168627	168990251	0.76	cps
Iron	57-2	4238054	4261517	4263722	4254431	0.33	cps
Krypton	83-1	207	177	153	179	14.94	cps
Lead	206-1	20512874	20583066	20532074	20542671	0.18	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17579605	17468575	17516328	17521503	0.32	cps
Lead	208-1	80793485	80987558	80787713	80856252	0.14	cps
Lithium	6-1	4571136	4523696	4424578	4506470	1.66	cps
Magnesium	24-2	33473158	32697135	32978954	33049749	1.19	cps
Manganese	55-2	3884472	3966421	3892862	3914585	1.15	cps
Molybdenum	94-1	17629709	17733086	17707998	17690265	0.30	cps
Molybdenum	95-1	25651830	25597045	25640838	25629904	0.11	cps
Molybdenum	96-1	27895707	27800877	27849188	27848591	0.17	cps
Molybdenum	97-1	15867904	15924932	15830801	15874546	0.30	cps
Molybdenum	98-1	41622418	41651297	41141762	41471825	0.69	cps
Neodymium	150-1	793	817	890	833	6.05	cps
Neodymium	150-2	40	63	47	50	24.03	cps
Nickel	60-2	418982	423573	416784	419780	0.83	cps
Phosphorus	31-2	15535	15812	16149	15832	1.94	cps
Potassium	39-2	9174843	9194857	9221873	9197191	0.26	cps
Rhodium	103-1	7485560	7388880	7297432	7390624	1.27	cps
Rhodium	103-2	2637568	2639755	2586512	2621278	1.15	cps
Scandium	45-1	6254022	6279902	6214009	6249311	0.53	cps
Scandium	45-2	96874	97430	98444	97583	0.82	cps
Selenium	82-1	72477	73083	73827	73129	0.92	cps
Selenium	77-2	910	1107	1130	1049	11.52	cps
Selenium	78-2	3517	3731	3761	3669	3.62	cps
Silicon	28-1	25478223	25295242	25651650	25475038	0.70	cps
Silver	107-1	6079451	6001422	6067406	6049426	0.69	cps
Silver	109-1	5749561	5690873	5694770	5711735	0.57	cps
Sodium	23-2	66459114	65695871	65739119	65964701	0.65	cps
Strontium	86-1	1840330	1817414	1802420	1820055	1.05	cps
Strontium	88-1	15680956	15745020	15498560	15641512	0.82	cps
Sulfur	34-1	821140	818966	818523	819543	0.17	cps
Terbium	159-1	11982641	11943584	11802133	11909452	0.80	cps
Terbium	159-2	3675096	3586408	3613215	3624907	1.25	cps
Thallium	203-1	5273746	5321614	5219623	5271661	0.97	cps
Thallium	205-1	12601971	12485307	12425116	12504132	0.72	cps
Tin	118-1	4223229	4243656	4173608	4213498	0.85	cps
Titanium	47-1	7771909	7829661	7711867	7771146	0.76	cps
Uranium	238-1	20489328	20783427	20799559	20690771	0.84	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:51:47	DataFile Name :	062CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	686961	693777	681901	687546	0.87	cps
Ytterbium	172-1	327	377	293	332	12.63	cps
Ytterbium	172-2	123	147	137	136	8.63	cps
Ytterbium	176-1	24880	25291	25551	25241	1.34	cps
Ytterbium	176-2	7809	7983	8026	7939	1.45	cps
Yttrium	89-1	16210311	16095593	15749218	16018374	1.50	cps
Yttrium	89-2	972616	955782	963331	963909	0.87	cps
Zinc	66-2	1207565	1204933	1203404	1205301	0.17	cps
Zirconium	90-1	8855645	8964980	8924922	8915182	0.62	cps
Zirconium	91-1	2044997	1995497	2031684	2024059	1.27	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	23	47	30	33	36.07	cps
Antimony	121-1	490	453	533	492	8.14	cps
Arsenic	75-2	0	0	13	4	173.21	cps
Barium	135-1	593	670	590	618	7.33	cps
Barium	137-1	1040	920	977	979	6.13	cps
Beryllium	9-1	629	577	559	588	6.16	cps
Bismuth	209-1	7393101	7727919	7656621	7592547	2.32	cps
Bismuth	209-2	2947010	2935992	2927851	2936951	0.33	cps
Bromine	81-1	5531	5224	5184	5313	3.57	cps
Cadmium	108-1	57	57	70	61	12.59	cps
Cadmium	106-1	5134	5284	5321	5247	1.89	cps
Cadmium	111-1	1034	1111	1075	1073	3.58	cps
Calcium	43-1	330	343	307	327	5.68	cps
Calcium	44-1	4888	4467	4651	4669	4.51	cps
Carbon	12-1	1488141	1461628	1439336	1463035	1.67	cps
Carbon	12-2	9587	9356	9466	9470	1.22	cps
Chlorine	35-1	93519	94871	95747	94713	1.19	cps
Chlorine	35-2	417	313	343	358	14.86	cps
Chromium	52-2	577	450	600	542	14.89	cps
Cobalt	59-2	147	177	183	169	11.57	cps
Copper	63-2	2214	2210	1923	2116	7.87	cps
Dysprosium	156-1	63	50	83	66	25.59	cps
Dysprosium	156-2	3	13	3	7	86.65	cps
Erbium	164-1	63	53	57	58	8.81	cps
Erbium	164-2	7	20	10	12	56.76	cps
Gadolinium	160-1	40	23	47	37	32.79	cps
Gadolinium	160-2	7	3	23	11	96.43	cps
Holmium	165-1	11575354	11982548	11923483	11827128	1.86	cps
Holmium	165-2	3989498	3968200	3960922	3972874	0.37	cps
Indium	115-1	9163019	9471269	9513493	9382593	2.04	cps
Indium	115-2	803903	801731	808431	804688	0.42	cps
Iron	54-2	433	497	467	466	6.81	cps
Iron	56-2	7489	7345	7385	7406	1.00	cps
Iron	57-2	190	123	157	157	21.28	cps
Krypton	83-1	160	183	140	161	13.46	cps
Lead	206-1	1690	1607	1680	1659	2.74	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1377	1530	1473	1460	5.31	cps
Lead	208-1	6531	6677	6487	6565	1.52	cps
Lithium	6-1	4730716	4957112	4983654	4890494	2.84	cps
Magnesium	24-2	460	460	440	453	2.55	cps
Manganese	55-2	407	407	390	401	2.40	cps
Molybdenum	94-1	377	377	477	410	14.08	cps
Molybdenum	95-1	453	467	417	446	5.81	cps
Molybdenum	96-1	527	553	540	540	2.47	cps
Molybdenum	97-1	203	220	257	227	12.04	cps
Molybdenum	98-1	670	630	593	631	6.08	cps
Neodymium	150-1	40	37	27	34	20.14	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	693	717	760	723	4.68	cps
Phosphorus	31-2	13	23	33	23	42.86	cps
Potassium	39-2	4561	4431	4667	4553	2.60	cps
Rhodium	103-1	8322171	8454460	8647211	8474614	1.93	cps
Rhodium	103-2	3121083	3077938	3055307	3084776	1.08	cps
Scandium	45-1	6250471	6492850	6412951	6385424	1.93	cps
Scandium	45-2	98488	99401	99921	99270	0.73	cps
Selenium	82-1	-13	-63	-37	-38	-66.23	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	7	0	0	2	173.21	cps
Silicon	28-1	241198	238615	238575	239463	0.63	cps
Silver	107-1	290	283	243	272	9.27	cps
Silver	109-1	197	187	223	202	9.37	cps
Sodium	23-2	15995	15678	15348	15674	2.07	cps
Strontium	86-1	210	207	207	208	0.93	cps
Strontium	88-1	483	557	503	514	7.37	cps
Sulfur	34-1	250185	250921	247259	249455	0.78	cps
Terbium	159-1	12027102	12180104	12141046	12116084	0.66	cps
Terbium	159-2	3796468	3871469	3889280	3852405	1.28	cps
Thallium	203-1	523	493	477	498	4.75	cps
Thallium	205-1	1110	1213	1137	1153	4.65	cps
Tin	118-1	1277	1467	1393	1379	6.95	cps
Titanium	47-1	160	100	140	133	22.91	cps
Uranium	238-1	543	487	490	507	6.28	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 18:58:02	DataFile Name :	064CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	20	14	35.26	cps
Ytterbium	172-1	47	70	50	56	22.71	cps
Ytterbium	172-2	13	17	13	14	13.35	cps
Ytterbium	176-1	1617	1610	1633	1620	0.74	cps
Ytterbium	176-2	223	157	183	188	17.87	cps
Yttrium	89-1	16264504	16753029	16690251	16569261	1.60	cps
Yttrium	89-2	1004150	1001256	996073	1000493	0.41	cps
Zinc	66-2	260	240	183	228	17.46	cps
Zirconium	90-1	583	613	600	599	2.51	cps
Zirconium	91-1	163	197	123	161	22.79	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	40	27	30	32	21.53	cps
Antimony	121-1	327	373	340	347	6.93	cps
Arsenic	75-2	7	3	0	3	100.05	cps
Barium	135-1	403	470	383	419	10.83	cps
Barium	137-1	773	690	757	740	5.96	cps
Beryllium	9-1	482	482	507	491	2.94	cps
Bismuth	209-1	7716447	7663676	7405394	7595172	2.19	cps
Bismuth	209-2	2900432	2867632	2854721	2874262	0.82	cps
Bromine	81-1	5011	5411	5524	5316	5.08	cps
Cadmium	108-1	50	43	27	40	30.04	cps
Cadmium	106-1	5481	5148	5061	5230	4.24	cps
Cadmium	111-1	1131	1063	1027	1074	4.94	cps
Calcium	43-1	330	250	277	286	14.27	cps
Calcium	44-1	4504	4254	4064	4274	5.16	cps
Carbon	12-1	1502570	1473159	1434075	1469935	2.34	cps
Carbon	12-2	9627	9396	9713	9579	1.71	cps
Chlorine	35-1	93932	95589	95023	94848	0.89	cps
Chlorine	35-2	383	343	370	366	5.57	cps
Chromium	52-2	490	500	470	487	3.14	cps
Cobalt	59-2	147	150	177	158	10.42	cps
Copper	63-2	1943	1940	2060	1981	3.45	cps
Dysprosium	156-1	80	83	50	71	25.82	cps
Dysprosium	156-2	10	0	3	4	114.60	cps
Erbium	164-1	50	73	47	57	25.64	cps
Erbium	164-2	3	23	17	14	70.51	cps
Gadolinium	160-1	33	27	20	27	24.99	cps
Gadolinium	160-2	10	7	0	6	91.64	cps
Holmium	165-1	12079686	11877237	11571313	11842746	2.16	cps
Holmium	165-2	3940142	3863873	3944501	3916172	1.16	cps
Indium	115-1	9507147	9368231	9107804	9327727	2.17	cps
Indium	115-2	799788	796102	797807	797899	0.23	cps
Iron	54-2	520	407	440	456	12.79	cps
Iron	56-2	7095	7135	7015	7082	0.86	cps
Iron	57-2	193	210	183	196	6.89	cps
Krypton	83-1	130	183	103	139	29.33	cps
Lead	206-1	1360	1403	1400	1388	1.74	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1147	1200	1227	1191	3.42	cps
Lead	208-1	5477	5611	5424	5504	1.75	cps
Lithium	6-1	4937674	4924319	4776728	4879574	1.83	cps
Magnesium	24-2	437	387	393	406	6.69	cps
Manganese	55-2	427	333	347	369	13.69	cps
Molybdenum	94-1	310	287	310	302	4.46	cps
Molybdenum	95-1	293	230	250	258	12.56	cps
Molybdenum	96-1	407	433	330	390	13.76	cps
Molybdenum	97-1	130	163	123	139	15.43	cps
Molybdenum	98-1	397	387	393	392	1.30	cps
Neodymium	150-1	27	7	23	19	56.72	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	820	683	790	764	9.40	cps
Phosphorus	31-2	17	13	17	16	12.40	cps
Potassium	39-2	4561	4171	4607	4446	5.39	cps
Rhodium	103-1	8530424	8369198	8160267	8353296	2.22	cps
Rhodium	103-2	3084799	3048464	3052594	3061952	0.65	cps
Scandium	45-1	6530225	6414340	6243664	6396076	2.25	cps
Scandium	45-2	98796	98615	98675	98695	0.09	cps
Selenium	82-1	-3	-63	23	-14	-307.28	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	0	3	3	100.05	cps
Silicon	28-1	236289	235523	237566	236459	0.44	cps
Silver	107-1	213	180	170	188	12.09	cps
Silver	109-1	123	117	147	129	12.22	cps
Sodium	23-2	14724	14601	14504	14610	0.76	cps
Strontium	86-1	187	217	217	207	8.38	cps
Strontium	88-1	497	457	480	478	4.21	cps
Sulfur	34-1	250456	254550	247144	250717	1.48	cps
Terbium	159-1	12260920	12086269	12022061	12123083	1.02	cps
Terbium	159-2	3822946	3848531	3777580	3816352	0.94	cps
Thallium	203-1	370	430	443	414	9.43	cps
Thallium	205-1	1053	1067	1037	1052	1.43	cps
Tin	118-1	3056	1393	1267	1906	52.41	cps
Titanium	47-1	113	133	123	123	8.11	cps
Uranium	238-1	430	480	480	463	6.23	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BL	Instrumnet Name :	P8
Client Sample ID :	PB166173BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:01:26	DataFile Name :	065CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	0	3	3	100.05	cps
Ytterbium	172-1	53	60	67	60	11.12	cps
Ytterbium	172-2	23	23	27	24	7.89	cps
Ytterbium	176-1	1550	1523	1493	1522	1.86	cps
Ytterbium	176-2	193	170	213	192	11.28	cps
Yttrium	89-1	16762634	16600055	16188946	16517212	1.79	cps
Yttrium	89-2	993271	985125	991213	989870	0.43	cps
Zinc	66-2	257	200	237	231	12.44	cps
Zirconium	90-1	503	603	540	549	9.22	cps
Zirconium	91-1	147	113	110	123	16.44	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	363159	361659	347835	357551	2.36	cps
Antimony	121-1	4913412	4970988	5008252	4964217	0.96	cps
Arsenic	75-2	75906	77837	74291	76011	2.34	cps
Barium	135-1	6163711	6309797	6310963	6261491	1.35	cps
Barium	137-1	10664898	10856646	10708363	10743302	0.94	cps
Beryllium	9-1	1653149	1706153	1738398	1699233	2.53	cps
Bismuth	209-1	7370918	7025564	7057813	7151432	2.67	cps
Bismuth	209-2	2731584	2700480	2633205	2688423	1.87	cps
Bromine	81-1	5281	5388	5268	5312	1.24	cps
Cadmium	108-1	96404	96082	97857	96781	0.98	cps
Cadmium	106-1	141004	141543	144025	142191	1.13	cps
Cadmium	111-1	1123520	1145862	1143684	1137689	1.08	cps
Calcium	43-1	1752714	1777653	1785992	1772120	0.98	cps
Calcium	44-1	28062062	28288009	28323766	28224612	0.50	cps
Carbon	12-1	2154668	2199096	2206331	2186698	1.28	cps
Carbon	12-2	15685	16109	15722	15839	1.48	cps
Chlorine	35-1	100385	102899	104124	102469	1.86	cps
Chlorine	35-2	323	333	447	368	18.63	cps
Chromium	52-2	878436	878926	846383	867915	2.15	cps
Cobalt	59-2	1753742	1764910	1686330	1734994	2.45	cps
Copper	63-2	12869408	12887339	12469353	12742034	1.85	cps
Dysprosium	156-1	207	207	243	219	9.67	cps
Dysprosium	156-2	17	33	7	19	71.30	cps
Erbium	164-1	113	123	150	129	14.70	cps
Erbium	164-2	37	43	27	36	23.58	cps
Gadolinium	160-1	103	93	93	97	5.98	cps
Gadolinium	160-2	37	30	30	32	11.95	cps
Holmium	165-1	12068501	11416120	11647698	11710773	2.82	cps
Holmium	165-2	3970786	3911825	3792923	3891845	2.33	cps
Indium	115-1	9049235	8523351	8787367	8786651	2.99	cps
Indium	115-2	768865	752750	745007	755541	1.61	cps
Iron	54-2	1929689	1908900	1807994	1882194	3.46	cps
Iron	56-2	34307895	34282277	33201305	33930493	1.86	cps
Iron	57-2	828107	826387	790230	814908	2.62	cps
Krypton	83-1	147	163	143	151	7.09	cps
Lead	206-1	20680604	20674426	20686033	20680354	0.03	cps

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17610533	17843389	18015069	17822997	1.14	cps
Lead	208-1	81466721	82267151	82552868	82095580	0.69	cps
Lithium	6-1	4818034	4733805	4722661	4758167	1.10	cps
Magnesium	24-2	6859215	6624081	6429053	6637449	3.25	cps
Manganese	55-2	4001320	3968301	3808212	3925944	2.63	cps
Molybdenum	94-1	17363494	17222072	17356361	17313976	0.46	cps
Molybdenum	95-1	24854324	25308270	25050967	25071187	0.91	cps
Molybdenum	96-1	27011155	27204947	27488204	27234768	0.88	cps
Molybdenum	97-1	15328598	15345581	15557670	15410616	0.83	cps
Molybdenum	98-1	39572527	40347825	40773669	40231341	1.51	cps
Neodymium	150-1	747	707	667	707	5.66	cps
Neodymium	150-2	7	20	30	19	61.96	cps
Nickel	60-2	443470	447985	428187	439881	2.36	cps
Phosphorus	31-2	15999	15649	15582	15743	1.42	cps
Potassium	39-2	1869867	1827245	1782083	1826398	2.40	cps
Rhodium	103-1	8032879	7649358	7779770	7820669	2.49	cps
Rhodium	103-2	2952916	2881032	2809288	2881078	2.49	cps
Scandium	45-1	6403253	6097015	6119583	6206617	2.75	cps
Scandium	45-2	100918	98733	95508	98386	2.77	cps
Selenium	82-1	75120	75030	77232	75794	1.64	cps
Selenium	77-2	1070	1173	1107	1117	4.69	cps
Selenium	78-2	3704	3801	3701	3735	1.52	cps
Silicon	28-1	22147898	22418234	22404166	22323433	0.68	cps
Silver	107-1	6363838	6431594	6510591	6435341	1.14	cps
Silver	109-1	6021965	6049606	6109368	6060313	0.74	cps
Sodium	23-2	13408986	13215343	12689695	13104675	2.84	cps
Strontium	86-1	1752680	1770714	1783563	1768986	0.88	cps
Strontium	88-1	15163572	15231141	15510659	15301790	1.20	cps
Sulfur	34-1	800873	815257	813371	809834	0.97	cps
Terbium	159-1	12268028	11691778	11762658	11907488	2.64	cps
Terbium	159-2	3812289	3707378	3670169	3729945	1.98	cps
Thallium	203-1	5255451	5322357	5323608	5300472	0.74	cps
Thallium	205-1	12454647	12518456	12532871	12501991	0.33	cps
Tin	118-1	4172011	4223264	4272051	4222442	1.18	cps
Titanium	47-1	7451290	7564324	7553854	7523156	0.83	cps
Uranium	238-1	20220420	20316854	20532254	20356509	0.78	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166173BS	Instrumnet Name :	P8
Client Sample ID :	PB166173BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:04:49	DataFile Name :	066LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	681483	682717	654931	673044	2.33	cps
Ytterbium	172-1	100	137	180	139	28.83	cps
Ytterbium	172-2	60	33	53	49	28.39	cps
Ytterbium	176-1	24166	23865	24516	24182	1.35	cps
Ytterbium	176-2	7612	7566	7142	7440	3.48	cps
Yttrium	89-1	16523297	15841009	15929083	16097797	2.31	cps
Yttrium	89-2	987294	981541	961179	976671	1.40	cps
Zinc	66-2	1296193	1308289	1255534	1286672	2.15	cps
Zirconium	90-1	8649709	8746261	8725725	8707232	0.58	cps
Zirconium	91-1	1949492	1965100	1980039	1964877	0.78	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6878	7179	7045	7034	2.14	cps
Antimony	121-1	1610	1690	1483	1595	6.54	cps
Arsenic	75-2	97	107	80	94	14.27	cps
Barium	135-1	62838	62265	62657	62587	0.47	cps
Barium	137-1	106850	107398	107832	107360	0.46	cps
Beryllium	9-1	1025	992	834	950	10.77	cps
Bismuth	209-1	7649057	7644679	7607290	7633675	0.30	cps
Bismuth	209-2	2896391	2899486	2872915	2889597	0.50	cps
Bromine	81-1	10421	11458	11855	11245	6.59	cps
Cadmium	108-1	110	107	107	108	1.78	cps
Cadmium	106-1	5074	5271	5318	5221	2.47	cps
Cadmium	111-1	1298	1436	1399	1378	5.20	cps
Calcium	43-1	361319	359853	362873	361348	0.42	cps
Calcium	44-1	6061288	5962038	5992842	6005389	0.85	cps
Carbon	12-1	2913535	3304446	3475168	3231050	8.91	cps
Carbon	12-2	25672	26227	27112	26337	2.76	cps
Chlorine	35-1	950002	1054571	1101477	1035350	7.49	cps
Chlorine	35-2	4201	4057	3997	4085	2.56	cps
Chromium	52-2	2297	2497	2234	2342	5.87	cps
Cobalt	59-2	65282	66672	65644	65866	1.09	cps
Copper	63-2	12512	12596	12232	12447	1.53	cps
Dysprosium	156-1	1573	1670	1630	1625	2.99	cps
Dysprosium	156-2	410	500	430	447	10.58	cps
Erbium	164-1	1533	1517	1580	1543	2.13	cps
Erbium	164-2	503	497	500	500	0.67	cps
Gadolinium	160-1	1550	1520	1610	1560	2.94	cps
Gadolinium	160-2	553	580	557	563	2.58	cps
Holmium	165-1	12241253	12112359	11947965	12100526	1.21	cps
Holmium	165-2	3862395	3910477	4079917	3950929	2.89	cps
Indium	115-1	9422912	9408263	9435896	9422357	0.15	cps
Indium	115-2	796900	803652	815483	805345	1.17	cps
Iron	54-2	23383	24207	23706	23765	1.75	cps
Iron	56-2	444604	443763	443245	443871	0.15	cps
Iron	57-2	11128	11188	11001	11106	0.86	cps
Krypton	83-1	143	87	117	116	24.53	cps
Lead	206-1	6195	5815	5645	5885	4.79	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525·	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5081	4911	4621	4871	4.78	cps
Lead	208-1	24156	22828	22228	23071	4.28	cps
Lithium	6-1	5014131	4964321	4925895	4968116	0.89	cps
Magnesium	24-2	432270	427126	430912	430103	0.62	cps
Manganese	55-2	229885	228716	230518	229706	0.40	cps
Molybdenum	94-1	2917	2770	2780	2823	2.90	cps
Molybdenum	95-1	2890	2530	2247	2556	12.62	cps
Molybdenum	96-1	3177	2847	2624	2883	9.66	cps
Molybdenum	97-1	1603	1587	1397	1529	7.51	cps
Molybdenum	98-1	4681	3771	3584	4012	14.63	cps
Neodymium	150-1	2084	2104	2064	2084	0.96	cps
Neodymium	150-2	540	453	490	494	8.80	cps
Nickel	60-2	10197	10481	10180	10286	1.64	cps
Phosphorus	31-2	47	57	20	41	46.11	cps
Potassium	39-2	74260	73653	73533	73815	0.53	cps
Rhodium	103-1	8501018	8348031	8431502	8426850	0.91	cps
Rhodium	103-2	3073580	3049129	3075943	3066217	0.48	cps
Scandium	45-1	6563445	6397007	6435883	6465445	1.35	cps
Scandium	45-2	99138	99568	101522	100076	1.27	cps
Selenium	82-1	13	53	80	49	68.64	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	22148911	22162167	21922556	22077878	0.61	cps
Silver	107-1	1080	873	727	893	19.87	cps
Silver	109-1	883	787	640	770	15.91	cps
Sodium	23-2	3974512	3823030	3916248	3904596	1.96	cps
Strontium	86-1	160448	163392	164447	162763	1.27	cps
Strontium	88-1	1507826	1505701	1501587	1505038	0.21	cps
Sulfur	34-1	855871	869246	859399	861505	0.80	cps
Terbium	159-1	12492272	12363495	12291038	12382269	0.82	cps
Terbium	159-2	3830684	3841103	3865903	3845897	0.47	cps
Thallium	203-1	1747	1423	1440	1537	11.85	cps
Thallium	205-1	3937	3614	3377	3643	7.72	cps
Tin	118-1	3804	3777	3547	3709	3.81	cps
Titanium	47-1	9767	9807	9377	9650	2.46	cps
Uranium	238-1	326228	331562	333585	330458	1.15	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04I-011525·	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:07:38	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1770	1623	1547	1647	6.89	cps
Ytterbium	172-1	523	450	453	476	8.71	cps
Ytterbium	172-2	217	223	180	207	11.29	cps
Ytterbium	176-1	1950	1870	1737	1852	5.82	cps
Ytterbium	176-2	323	280	353	319	11.56	cps
Yttrium	89-1	17069239	16956216	16703096	16909517	1.11	cps
Yttrium	89-2	996178	1001207	1020476	1005953	1.27	cps
Zinc	66-2	3611	3527	3517	3552	1.44	cps
Zirconium	90-1	4204	4341	4027	4191	3.75	cps
Zirconium	91-1	1070	893	990	984	8.99	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18292	17941	18816	18349	2.40	cps
Antimony	121-1	633	617	680	643	5.10	cps
Arsenic	75-2	137	107	127	123	12.39	cps
Barium	135-1	73126	72576	72898	72867	0.38	cps
Barium	137-1	126939	125936	125943	126272	0.46	cps
Beryllium	9-1	972	861	929	921	6.09	cps
Bismuth	209-1	7699580	7692074	7694303	7695319	0.05	cps
Bismuth	209-2	2913816	2893395	2961754	2922989	1.20	cps
Bromine	81-1	9960	10657	11108	10575	5.47	cps
Cadmium	108-1	87	83	117	96	19.21	cps
Cadmium	106-1	5198	5094	5124	5139	1.03	cps
Cadmium	111-1	1302	1161	1213	1225	5.84	cps
Calcium	43-1	405313	413467	410713	409831	1.01	cps
Calcium	44-1	6805009	6911185	6750751	6822315	1.20	cps
Carbon	12-1	3294790	3635153	3861998	3597314	7.94	cps
Carbon	12-2	28063	28331	29112	28502	1.91	cps
Chlorine	35-1	981414	1056721	1097416	1045184	5.63	cps
Chlorine	35-2	4004	4074	4061	4046	0.92	cps
Chromium	52-2	3487	3487	3320	3432	2.80	cps
Cobalt	59-2	73723	75338	75710	74923	1.41	cps
Copper	63-2	15592	15972	16243	15936	2.05	cps
Dysprosium	156-1	5661	5905	5991	5852	2.92	cps
Dysprosium	156-2	1800	1803	1743	1782	1.89	cps
Erbium	164-1	5274	5184	5261	5240	0.93	cps
Erbium	164-2	1670	1613	1733	1672	3.59	cps
Gadolinium	160-1	5508	5651	5768	5642	2.31	cps
Gadolinium	160-2	2234	2090	2180	2168	3.34	cps
Holmium	165-1	12128816	12302431	12076546	12169264	0.97	cps
Holmium	165-2	4007859	4023929	4044580	4025456	0.46	cps
Indium	115-1	9521111	9546195	9515308	9527538	0.17	cps
Indium	115-2	812116	821650	821630	818466	0.67	cps
Iron	54-2	50268	51422	50609	50766	1.17	cps
Iron	56-2	934210	932552	937206	934656	0.25	cps
Iron	57-2	23302	23853	23259	23472	1.41	cps
Krypton	83-1	147	133	87	122	25.78	cps
Lead	206-1	9293	9080	9047	9140	1.47	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7652	7249	7872	7591	4.17	cps
Lead	208-1	35940	35156	35749	35615	1.15	cps
Lithium	6-1	5082376	4912008	4905988	4966790	2.02	cps
Magnesium	24-2	506998	502591	504586	504725	0.44	cps
Manganese	55-2	251519	249908	251186	250871	0.34	cps
Molybdenum	94-1	2717	2620	2780	2706	2.98	cps
Molybdenum	95-1	1067	1010	993	1023	3.76	cps
Molybdenum	96-1	1453	1593	1437	1495	5.76	cps
Molybdenum	97-1	667	630	587	628	6.38	cps
Molybdenum	98-1	1573	1613	1657	1615	2.58	cps
Neodymium	150-1	7389	7269	7445	7368	1.22	cps
Neodymium	150-2	1720	1730	1617	1689	3.72	cps
Nickel	60-2	12449	12292	12536	12426	0.99	cps
Phosphorus	31-2	57	63	67	62	8.18	cps
Potassium	39-2	79403	79430	80161	79665	0.54	cps
Rhodium	103-1	8380408	8500479	8627555	8502814	1.45	cps
Rhodium	103-2	3100062	3123235	3071795	3098364	0.83	cps
Scandium	45-1	6550912	6599416	6451153	6533827	1.16	cps
Scandium	45-2	101938	101535	103589	102354	1.06	cps
Selenium	82-1	30	23	87	47	74.58	cps
Selenium	77-2	7	17	7	10	57.72	cps
Selenium	78-2	3	13	3	7	86.65	cps
Silicon	28-1	26669129	26733162	26789318	26730536	0.22	cps
Silver	107-1	333	273	227	278	19.25	cps
Silver	109-1	230	180	217	209	12.40	cps
Sodium	23-2	4232308	4179416	4182808	4198178	0.71	cps
Strontium	86-1	201525	199482	201821	200943	0.63	cps
Strontium	88-1	1880143	1835734	1855015	1856964	1.20	cps
Sulfur	34-1	966402	981101	972728	973410	0.76	cps
Terbium	159-1	12630731	12495681	12536081	12554164	0.55	cps
Terbium	159-2	3860976	3926343	3931379	3906233	1.01	cps
Thallium	203-1	1473	1477	1253	1401	9.14	cps
Thallium	205-1	3167	3200	3237	3202	1.09	cps
Tin	118-1	2057	2067	2070	2065	0.34	cps
Titanium	47-1	14414	15669	14764	14949	4.33	cps
Uranium	238-1	416349	411868	416682	414966	0.65	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:10:59	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3671	3571	3667	3636	1.56	cps
Ytterbium	172-1	1687	1670	1523	1627	5.53	cps
Ytterbium	172-2	607	660	700	656	7.14	cps
Ytterbium	176-1	2677	2364	2730	2590	7.65	cps
Ytterbium	176-2	607	597	700	634	8.98	cps
Yttrium	89-1	16863306	17078105	16777239	16906217	0.92	cps
Yttrium	89-2	1017338	1028677	1034127	1026714	0.83	cps
Zinc	66-2	1673	1913	1793	1793	6.69	cps
Zirconium	90-1	5708	5471	5811	5663	3.08	cps
Zirconium	91-1	1220	1267	1177	1221	3.69	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19266	19233	19376	19292	0.39	cps
Antimony	121-1	1270	1220	1453	1315	9.35	cps
Arsenic	75-2	130	127	163	140	14.48	cps
Barium	135-1	74708	75536	74919	75054	0.57	cps
Barium	137-1	127318	128408	130290	128672	1.17	cps
Beryllium	9-1	844	897	905	882	3.79	cps
Bismuth	209-1	7842177	7773009	7729952	7781713	0.73	cps
Bismuth	209-2	2898244	2968338	2943777	2936786	1.21	cps
Bromine	81-1	10314	11198	11345	10952	5.09	cps
Cadmium	108-1	73	47	67	62	22.30	cps
Cadmium	106-1	5351	5468	5184	5334	2.67	cps
Cadmium	111-1	1332	1288	1264	1294	2.69	cps
Calcium	43-1	419468	420920	422625	421005	0.38	cps
Calcium	44-1	6994709	6952876	6994103	6980563	0.34	cps
Carbon	12-1	3491043	3925629	4149880	3855517	8.69	cps
Carbon	12-2	30061	30101	30635	30266	1.06	cps
Chlorine	35-1	974693	1056365	1092600	1041219	5.80	cps
Chlorine	35-2	3977	4104	4054	4045	1.58	cps
Chromium	52-2	3524	3671	3687	3627	2.48	cps
Cobalt	59-2	76474	76558	78096	77042	1.19	cps
Copper	63-2	16039	15989	15966	15998	0.23	cps
Dysprosium	156-1	6048	6172	6065	6095	1.10	cps
Dysprosium	156-2	1710	1873	1860	1815	5.00	cps
Erbium	164-1	5254	5291	5525	5357	2.73	cps
Erbium	164-2	1757	1687	1673	1706	2.63	cps
Gadolinium	160-1	5555	5928	5678	5720	3.33	cps
Gadolinium	160-2	1940	2117	2080	2046	4.56	cps
Holmium	165-1	12580052	12338318	12209057	12375809	1.52	cps
Holmium	165-2	4077682	4056661	4041034	4058459	0.45	cps
Indium	115-1	9636609	9529461	9612265	9592778	0.59	cps
Indium	115-2	833904	826492	825603	828666	0.55	cps
Iron	54-2	53168	51512	53547	52743	2.05	cps
Iron	56-2	975110	971300	971124	972511	0.23	cps
Iron	57-2	24030	24798	24521	24450	1.59	cps
Krypton	83-1	167	110	120	132	22.88	cps
Lead	206-1	9137	8846	9177	9053	1.99	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7159	7372	7252	7261	1.47	cps
Lead	208-1	34308	34238	34809	34451	0.90	cps
Lithium	6-1	4982966	5016499	4969475	4989647	0.49	cps
Magnesium	24-2	520611	514866	516292	517256	0.58	cps
Manganese	55-2	255602	255321	254558	255160	0.21	cps
Molybdenum	94-1	2737	2784	2620	2714	3.10	cps
Molybdenum	95-1	837	943	1097	959	13.63	cps
Molybdenum	96-1	1543	1443	1360	1449	6.34	cps
Molybdenum	97-1	597	570	530	566	5.93	cps
Molybdenum	98-1	1557	1547	1593	1566	1.57	cps
Neodymium	150-1	7662	8006	8246	7971	3.68	cps
Neodymium	150-2	1800	1723	1697	1740	3.08	cps
Nickel	60-2	12562	12592	12766	12640	0.87	cps
Phosphorus	31-2	43	50	67	53	22.54	cps
Potassium	39-2	81605	81267	81750	81541	0.30	cps
Rhodium	103-1	8714398	8592588	8684732	8663906	0.73	cps
Rhodium	103-2	3152395	3116882	3135855	3135044	0.57	cps
Scandium	45-1	6647414	6653407	6537495	6612772	0.99	cps
Scandium	45-2	103979	105064	103409	104150	0.81	cps
Selenium	82-1	27	120	80	76	61.97	cps
Selenium	77-2	17	7	3	9	78.08	cps
Selenium	78-2	10	10	0	7	86.60	cps
Silicon	28-1	27363515	27698082	27919981	27660526	1.01	cps
Silver	107-1	257	307	230	264	14.72	cps
Silver	109-1	157	173	143	158	9.53	cps
Sodium	23-2	4173405	4232598	4304151	4236718	1.55	cps
Strontium	86-1	205328	209293	207348	207323	0.96	cps
Strontium	88-1	1918198	1968980	1872971	1920050	2.50	cps
Sulfur	34-1	995449	1004293	991645	997129	0.65	cps
Terbium	159-1	12633198	12725510	12618619	12659109	0.46	cps
Terbium	159-2	3934719	3896506	3929865	3920363	0.53	cps
Thallium	203-1	1367	1283	1333	1328	3.16	cps
Thallium	205-1	3160	3010	3047	3073	2.55	cps
Tin	118-1	1890	1877	1863	1877	0.71	cps
Titanium	47-1	15903	15966	15458	15776	1.75	cps
Uranium	238-1	424026	431763	427961	427916	0.90	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:14:17	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3734	3961	3861	3852	2.95	cps
Ytterbium	172-1	1707	1823	1633	1721	5.57	cps
Ytterbium	172-2	780	690	640	703	10.09	cps
Ytterbium	176-1	2610	2747	2590	2649	3.22	cps
Ytterbium	176-2	520	610	573	568	7.97	cps
Yttrium	89-1	17141952	17341273	17557831	17347019	1.20	cps
Yttrium	89-2	1042894	1039051	1048929	1043625	0.48	cps
Zinc	66-2	1853	1960	1890	1901	2.85	cps
Zirconium	90-1	6005	5908	6071	5995	1.37	cps
Zirconium	91-1	1273	1303	1340	1306	2.56	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3884	3757	3837	3826	1.67	cps
Antimony	121-1	430	410	460	433	5.81	cps
Arsenic	75-2	27	23	33	28	18.33	cps
Barium	135-1	14995	14928	15078	15001	0.50	cps
Barium	137-1	25577	26406	26005	25996	1.59	cps
Beryllium	9-1	484	505	532	507	4.82	cps
Bismuth	209-1	7834692	7843780	7903430	7860634	0.48	cps
Bismuth	209-2	2987793	2959960	2919355	2955703	1.16	cps
Bromine	81-1	7445	7102	7445	7331	2.71	cps
Cadmium	108-1	47	43	80	57	35.78	cps
Cadmium	106-1	5354	5008	5131	5164	3.40	cps
Cadmium	111-1	1122	1051	1080	1084	3.26	cps
Calcium	43-1	84466	83725	84167	84119	0.44	cps
Calcium	44-1	1435158	1408109	1423543	1422270	0.95	cps
Carbon	12-1	2671155	2644006	2624299	2646486	0.89	cps
Carbon	12-2	17994	18008	17764	17922	0.76	cps
Chlorine	35-1	333166	340009	339866	337681	1.16	cps
Chlorine	35-2	1283	1200	1143	1209	5.83	cps
Chromium	52-2	1053	1007	1007	1022	2.64	cps
Cobalt	59-2	15182	14638	15792	15204	3.80	cps
Copper	63-2	4894	4694	4784	4791	2.09	cps
Dysprosium	156-1	1247	1337	1227	1270	4.61	cps
Dysprosium	156-2	347	403	470	407	15.18	cps
Erbium	164-1	1080	1063	1060	1068	1.00	cps
Erbium	164-2	333	367	330	343	5.91	cps
Gadolinium	160-1	1163	1240	1103	1169	5.86	cps
Gadolinium	160-2	513	460	423	466	9.72	cps
Holmium	165-1	12287094	12363553	12144244	12264964	0.91	cps
Holmium	165-2	4085181	3955141	3992638	4010987	1.67	cps
Indium	115-1	9618983	9700581	9640228	9653264	0.44	cps
Indium	115-2	818317	821638	820934	820296	0.21	cps
Iron	54-2	11001	10421	10564	10662	2.84	cps
Iron	56-2	199684	197900	199265	198950	0.47	cps
Iron	57-2	5141	5028	4978	5049	1.66	cps
Krypton	83-1	180	137	123	147	20.20	cps
Lead	206-1	2664	2717	2794	2725	2.40	cps

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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2267	2470	2530	2422	5.70	cps
Lead	208-1	10712	11025	11242	10993	2.42	cps
Lithium	6-1	4883879	4957832	4861614	4901108	1.03	cps
Magnesium	24-2	102265	102903	103561	102910	0.63	cps
Manganese	55-2	51974	52506	51188	51889	1.28	cps
Molybdenum	94-1	750	863	840	818	7.32	cps
Molybdenum	95-1	470	457	477	468	2.18	cps
Molybdenum	96-1	740	773	597	703	13.35	cps
Molybdenum	97-1	367	300	307	324	11.32	cps
Molybdenum	98-1	693	797	723	738	7.21	cps
Neodymium	150-1	1530	1687	1653	1623	5.08	cps
Neodymium	150-2	333	377	340	350	6.67	cps
Nickel	60-2	3190	3250	3194	3212	1.05	cps
Phosphorus	31-2	17	47	30	31	48.31	cps
Potassium	39-2	19854	19396	19243	19498	1.63	cps
Rhodium	103-1	8772444	8728267	8680613	8727108	0.53	cps
Rhodium	103-2	3147302	3119892	3112524	3126573	0.59	cps
Scandium	45-1	6612931	6567880	6582406	6587739	0.35	cps
Scandium	45-2	101404	101435	101451	101430	0.02	cps
Selenium	82-1	-37	-10	-3	-17	-105.79	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	0	3	7	3	100.05	cps
Silicon	28-1	5519390	5611205	5573890	5568162	0.83	cps
Silver	107-1	187	140	227	184	23.52	cps
Silver	109-1	77	117	117	103	22.35	cps
Sodium	23-2	813259	810035	809888	811061	0.23	cps
Strontium	86-1	41702	41846	41588	41712	0.31	cps
Strontium	88-1	359194	360566	361632	360464	0.34	cps
Sulfur	34-1	423215	425880	426059	425051	0.37	cps
Terbium	159-1	12614213	12519943	12280830	12471662	1.38	cps
Terbium	159-2	3858549	3877363	3936872	3890928	1.05	cps
Thallium	203-1	607	580	597	594	2.27	cps
Thallium	205-1	1240	1413	1333	1329	6.53	cps
Tin	118-1	1423	1367	1460	1417	3.32	cps
Titanium	47-1	3274	3160	3752	3395	9.24	cps
Uranium	238-1	86235	86412	85857	86168	0.33	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:17:37	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	673	720	813	736	9.69	cps
Ytterbium	172-1	453	310	370	378	19.05	cps
Ytterbium	172-2	183	173	130	162	17.48	cps
Ytterbium	176-1	1767	1840	1897	1835	3.55	cps
Ytterbium	176-2	277	290	270	279	3.65	cps
Yttrium	89-1	17186770	17223200	17138794	17182921	0.25	cps
Yttrium	89-2	1021126	1020950	1026401	1022826	0.30	cps
Zinc	66-2	660	510	670	613	14.61	cps
Zirconium	90-1	1750	1573	1667	1663	5.31	cps
Zirconium	91-1	410	313	343	356	13.92	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	341694	336246	339420	339120	0.81	cps
Antimony	121-1	4553937	4554808	4526180	4544975	0.36	cps
Arsenic	75-2	190	140	187	172	16.23	cps
Barium	135-1	5473670	5418831	5430842	5441114	0.53	cps
Barium	137-1	9204327	9253335	9313657	9257106	0.59	cps
Beryllium	9-1	1502572	1532532	1517761	1517622	0.99	cps
Bismuth	209-1	7275227	7384872	7418430	7359510	1.02	cps
Bismuth	209-2	2774516	2761250	2782460	2772742	0.39	cps
Bromine	81-1	10554	11168	12025	11249	6.57	cps
Cadmium	108-1	92353	92806	93434	92864	0.58	cps
Cadmium	106-1	131058	130281	130517	130619	0.31	cps
Cadmium	111-1	1038314	1045731	1051799	1045281	0.65	cps
Calcium	43-1	2004834	1996020	2029293	2010049	0.86	cps
Calcium	44-1	32010635	32490753	32373728	32291705	0.78	cps
Carbon	12-1	3293692	3603594	3817959	3571748	7.38	cps
Carbon	12-2	28979	29964	30338	29760	2.36	cps
Chlorine	35-1	31117053	33042959	34449462	32869825	5.09	cps
Chlorine	35-2	124443	123474	125303	124407	0.74	cps
Chromium	52-2	785267	784684	786827	785592	0.14	cps
Cobalt	59-2	1685907	1631163	1659994	1659021	1.65	cps
Copper	63-2	12016233	12127645	12037414	12060431	0.49	cps
Dysprosium	156-1	5855	5898	5731	5828	1.48	cps
Dysprosium	156-2	1660	1633	1773	1689	4.40	cps
Erbium	164-1	4921	5081	5178	5060	2.56	cps
Erbium	164-2	1580	1587	1643	1603	2.17	cps
Gadolinium	160-1	5104	5038	5361	5168	3.30	cps
Gadolinium	160-2	2044	2007	2007	2019	1.05	cps
Holmium	165-1	12151810	12220444	12175153	12182469	0.29	cps
Holmium	165-2	4039020	4022765	4036010	4032598	0.21	cps
Indium	115-1	9340895	9273177	9309588	9307887	0.36	cps
Indium	115-2	801197	792273	793398	795623	0.61	cps
Iron	54-2	1684705	1696626	1688965	1690099	0.36	cps
Iron	56-2	30832137	30727654	30465376	30675056	0.62	cps
Iron	57-2	728677	730112	733922	730904	0.37	cps
Krypton	83-1	140	127	163	143	12.95	cps
Lead	206-1	19509642	19810301	19599940	19639961	0.79	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16606731	16583621	16843341	16677898	0.86	cps
Lead	208-1	76230489	76969244	77570973	76923568	0.87	cps
Lithium	6-1	4779847	4942568	4907480	4876632	1.76	cps
Magnesium	24-2	6608099	6585885	6534768	6576251	0.57	cps
Manganese	55-2	4055652	4023565	4020895	4033370	0.48	cps
Molybdenum	94-1	24117915	24771339	24615180	24501478	1.39	cps
Molybdenum	95-1	37848205	38381510	38104778	38111498	0.70	cps
Molybdenum	96-1	40587454	41822385	41412477	41274105	1.52	cps
Molybdenum	97-1	23482870	23678235	23509832	23556979	0.45	cps
Molybdenum	98-1	61221286	62395187	61713847	61776774	0.95	cps
Neodymium	150-1	7649	7696	7876	7740	1.55	cps
Neodymium	150-2	1577	1650	1633	1620	2.37	cps
Nickel	60-2	416626	413679	416729	415678	0.42	cps
Phosphorus	31-2	63	63	53	60	9.62	cps
Potassium	39-2	1654136	1645217	1648503	1649286	0.27	cps
Rhodium	103-1	8248622	8310422	8204618	8254554	0.64	cps
Rhodium	103-2	3064041	3010290	2974374	3016235	1.50	cps
Scandium	45-1	6534407	6567403	6536386	6546065	0.28	cps
Scandium	45-2	106359	102747	104023	104376	1.76	cps
Selenium	82-1	69294	69961	70018	69757	0.58	cps
Selenium	77-2	1100	947	1183	1077	11.15	cps
Selenium	78-2	3510	3347	3357	3405	2.69	cps
Silicon	28-1	25107800	25711290	25390708	25403266	1.19	cps
Silver	107-1	4443042	3238050	3944976	3875356	15.62	cps
Silver	109-1	4462505	3190759	4141315	3931526	16.82	cps
Sodium	23-2	15755930	15787506	15831514	15791650	0.24	cps
Strontium	86-1	2108217	2107701	2123779	2113232	0.43	cps
Strontium	88-1	18082023	18261816	18157618	18167152	0.50	cps
Sulfur	34-1	909072	929503	937035	925203	1.56	cps
Terbium	159-1	12834957	12594340	12568284	12665860	1.16	cps
Terbium	159-2	3944044	3855173	3841085	3880101	1.44	cps
Thallium	203-1	4848192	4891369	4793288	4844283	1.01	cps
Thallium	205-1	11129332	11167890	11341847	11213023	1.01	cps
Tin	118-1	3538652	3550755	3522377	3537261	0.40	cps
Titanium	47-1	8721927	8771722	8848474	8780708	0.73	cps
Uranium	238-1	19620049	19876246	19960714	19819003	0.90	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:20:58	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	638496	630107	636547	635050	0.69	cps
Ytterbium	172-1	1810	1823	1914	1849	3.04	cps
Ytterbium	172-2	667	743	630	680	8.50	cps
Ytterbium	176-1	23474	23271	23701	23482	0.92	cps
Ytterbium	176-2	7195	7379	7542	7372	2.35	cps
Yttrium	89-1	17085949	17168678	16979603	17078077	0.55	cps
Yttrium	89-2	1042122	1026658	1029832	1032871	0.79	cps
Zinc	66-2	1238058	1227279	1236396	1233911	0.47	cps
Zirconium	90-1	8090262	8191493	8099911	8127222	0.69	cps
Zirconium	91-1	1827011	1877055	1845959	1850008	1.37	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	343739	345236	345138	344704	0.24	cps
Antimony	121-1	4599944	4604351	4555216	4586504	0.59	cps
Arsenic	75-2	193	157	197	182	12.18	cps
Barium	135-1	5509577	5556080	5534585	5533414	0.42	cps
Barium	137-1	9333284	9365932	9609636	9436284	1.60	cps
Beryllium	9-1	1571798	1597461	1597917	1589059	0.94	cps
Bismuth	209-1	7619134	7377055	7438601	7478263	1.68	cps
Bismuth	209-2	2750034	2766888	2783622	2766848	0.61	cps
Bromine	81-1	10321	11278	11638	11079	6.15	cps
Cadmium	108-1	92930	96068	95477	94825	1.76	cps
Cadmium	106-1	130736	132057	132354	131716	0.65	cps
Cadmium	111-1	1040489	1052843	1062839	1052057	1.06	cps
Calcium	43-1	2031654	2109667	2070919	2070746	1.88	cps
Calcium	44-1	32500751	32854663	32748967	32701460	0.56	cps
Carbon	12-1	3454263	3729913	4001904	3728694	7.34	cps
Carbon	12-2	29934	30408	32292	30878	4.04	cps
Chlorine	35-1	32249272	34707892	35754199	34237121	5.26	cps
Chlorine	35-2	127899	129311	130848	129353	1.14	cps
Chromium	52-2	792728	790254	796854	793279	0.42	cps
Cobalt	59-2	1686286	1694824	1667692	1682934	0.82	cps
Copper	63-2	12121181	12118506	12075484	12105057	0.21	cps
Dysprosium	156-1	5781	5818	5795	5798	0.32	cps
Dysprosium	156-2	1720	1717	1820	1752	3.35	cps
Erbium	164-1	5044	5171	5224	5147	1.80	cps
Erbium	164-2	1607	1630	1713	1650	3.40	cps
Gadolinium	160-1	5291	5545	5501	5446	2.49	cps
Gadolinium	160-2	2057	2150	2070	2092	2.41	cps
Holmium	165-1	12632304	12230344	12238039	12366896	1.86	cps
Holmium	165-2	3964358	3972079	3977750	3971396	0.17	cps
Indium	115-1	9445648	9331414	9344479	9373847	0.67	cps
Indium	115-2	787814	788582	790195	788864	0.15	cps
Iron	54-2	1725217	1709894	1683223	1706111	1.25	cps
Iron	56-2	30785502	30721692	30568981	30692058	0.36	cps
Iron	57-2	734241	736086	731632	733986	0.30	cps
Krypton	83-1	197	170	150	172	13.60	cps
Lead	206-1	19555263	19924147	19572221	19683877	1.06	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16886017	17207436	16961567	17018340	0.99	cps
Lead	208-1	77849807	78893353	78449263	78397474	0.67	cps
Lithium	6-1	5021997	4856732	4944884	4941204	1.67	cps
Magnesium	24-2	6656107	6658044	6567202	6627118	0.78	cps
Manganese	55-2	4024845	3984099	4021669	4010204	0.57	cps
Molybdenum	94-1	24493572	25000527	25041530	24845210	1.23	cps
Molybdenum	95-1	38128539	38943158	38714143	38595280	1.09	cps
Molybdenum	96-1	41449178	42131694	42127126	41902666	0.94	cps
Molybdenum	97-1	23599510	23901261	23865036	23788603	0.69	cps
Molybdenum	98-1	61886776	62091616	63251042	62409811	1.18	cps
Neodymium	150-1	7756	7936	7902	7865	1.22	cps
Neodymium	150-2	1573	1767	1797	1712	7.08	cps
Nickel	60-2	419606	417194	418728	418509	0.29	cps
Phosphorus	31-2	63	37	47	49	27.55	cps
Potassium	39-2	1666873	1697928	1658432	1674411	1.24	cps
Rhodium	103-1	8399559	8264020	8225543	8296374	1.10	cps
Rhodium	103-2	3003044	2999631	2947735	2983470	1.04	cps
Scandium	45-1	6796982	6616566	6646516	6686688	1.45	cps
Scandium	45-2	104241	104093	104469	104268	0.18	cps
Selenium	82-1	70028	69887	71013	70309	0.87	cps
Selenium	77-2	1117	1083	1057	1086	2.77	cps
Selenium	78-2	3440	3320	3697	3486	5.52	cps
Silicon	28-1	25700604	26398932	26542813	26214116	1.72	cps
Silver	107-1	2384416	2319689	3642806	2782304	26.81	cps
Silver	109-1	3039478	2801117	3200355	3013650	6.67	cps
Sodium	23-2	16068985	16169965	15933001	16057317	0.74	cps
Strontium	86-1	2100859	2174431	2160456	2145249	1.82	cps
Strontium	88-1	17987638	18360773	18352897	18233769	1.17	cps
Sulfur	34-1	916752	937525	943464	932580	1.50	cps
Terbium	159-1	12873507	12531746	12399416	12601556	1.94	cps
Terbium	159-2	3872418	3900831	3851523	3874924	0.64	cps
Thallium	203-1	4850146	4913124	4889180	4884150	0.65	cps
Thallium	205-1	11460379	11507282	11557395	11508352	0.42	cps
Tin	118-1	3526442	3586427	3600713	3571194	1.10	cps
Titanium	47-1	8819856	9013634	8998027	8943839	1.20	cps
Uranium	238-1	20080774	20436084	20425934	20314264	1.00	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:24:47	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	642725	647962	642760	644482	0.47	cps
Ytterbium	172-1	1677	1807	1813	1766	4.36	cps
Ytterbium	172-2	667	700	560	642	11.39	cps
Ytterbium	176-1	23691	23765	24660	24039	2.24	cps
Ytterbium	176-2	7659	7385	7669	7571	2.13	cps
Yttrium	89-1	17402834	17056641	17101690	17187055	1.10	cps
Yttrium	89-2	1020913	1022452	1026994	1023453	0.31	cps
Zinc	66-2	1236433	1240167	1241071	1239224	0.20	cps
Zirconium	90-1	8149377	8166021	8286501	8200633	0.91	cps
Zirconium	91-1	1843347	1867884	1891256	1867496	1.28	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	339130	339984	338554	339223	0.21	cps
Antimony	121-1	4525505	4585746	4558006	4556419	0.66	cps
Arsenic	75-2	217	163	213	198	15.11	cps
Barium	135-1	5444144	5445058	5528078	5472427	0.88	cps
Barium	137-1	9266799	9271009	9511124	9349644	1.50	cps
Beryllium	9-1	1594285	1573457	1587474	1585072	0.67	cps
Bismuth	209-1	7432991	7382938	7559230	7458386	1.22	cps
Bismuth	209-2	2787427	2752873	2780409	2773570	0.66	cps
Bromine	81-1	10357	10951	11688	10999	6.06	cps
Cadmium	108-1	91893	93551	93548	92997	1.03	cps
Cadmium	106-1	129897	132266	133115	131759	1.27	cps
Cadmium	111-1	1047325	1060035	1064928	1057429	0.86	cps
Calcium	43-1	2058361	2038302	2024949	2040537	0.82	cps
Calcium	44-1	31779713	31755691	32493911	32009772	1.31	cps
Carbon	12-1	3434812	3756096	3946797	3712568	6.97	cps
Carbon	12-2	29206	29059	29820	29362	1.38	cps
Chlorine	35-1	33482358	35746295	36431959	35220204	4.38	cps
Chlorine	35-2	128938	129170	130676	129595	0.73	cps
Chromium	52-2	787378	794606	796583	792856	0.61	cps
Cobalt	59-2	1686046	1701246	1668276	1685189	0.98	cps
Copper	63-2	12132910	12153066	12135342	12140439	0.09	cps
Dysprosium	156-1	5391	5501	5398	5430	1.14	cps
Dysprosium	156-2	1723	1617	1620	1653	3.67	cps
Erbium	164-1	4781	4888	4698	4789	1.99	cps
Erbium	164-2	1537	1527	1613	1559	3.04	cps
Gadolinium	160-1	5094	5034	4821	4983	2.88	cps
Gadolinium	160-2	1823	1987	1940	1917	4.39	cps
Holmium	165-1	12410037	12445447	12170580	12342022	1.21	cps
Holmium	165-2	4072916	3994042	3929816	3998925	1.79	cps
Indium	115-1	9278351	9265664	9370921	9304979	0.62	cps
Indium	115-2	789262	793461	788317	790347	0.35	cps
Iron	54-2	1698985	1722707	1695774	1705822	0.86	cps
Iron	56-2	30818785	30389968	30807010	30671921	0.80	cps
Iron	57-2	730773	730951	729834	730519	0.08	cps
Krypton	83-1	187	157	203	182	12.98	cps
Lead	206-1	19798084	19802923	19683863	19761623	0.34	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16865204	17000043	16969912	16945053	0.42	cps
Lead	208-1	78033982	78277621	78185832	78165812	0.16	cps
Lithium	6-1	4981703	4985094	5051076	5005958	0.78	cps
Magnesium	24-2	6664213	6645249	6708232	6672564	0.48	cps
Manganese	55-2	3969138	3996738	3938804	3968227	0.73	cps
Molybdenum	94-1	24643035	24885148	24783517	24770567	0.49	cps
Molybdenum	95-1	38340634	39044042	38770791	38718489	0.92	cps
Molybdenum	96-1	41745859	42133854	41786984	41888899	0.51	cps
Molybdenum	97-1	23788960	24016943	23595839	23800580	0.89	cps
Molybdenum	98-1	62198116	62745171	62667647	62536978	0.47	cps
Neodymium	150-1	7382	7312	7792	7495	3.46	cps
Neodymium	150-2	1517	1617	1503	1546	4.01	cps
Nickel	60-2	418939	419349	420667	419652	0.22	cps
Phosphorus	31-2	63	53	57	58	8.81	cps
Potassium	39-2	1699920	1665093	1631589	1665534	2.05	cps
Rhodium	103-1	8307954	8333049	8245529	8295511	0.54	cps
Rhodium	103-2	2949380	2967198	2999998	2972192	0.86	cps
Scandium	45-1	6631302	6700283	6651639	6661075	0.53	cps
Scandium	45-2	103697	104547	103398	103881	0.57	cps
Selenium	82-1	71147	71063	69451	70554	1.35	cps
Selenium	77-2	1003	970	1030	1001	3.00	cps
Selenium	78-2	3430	3340	3564	3445	3.26	cps
Silicon	28-1	24200564	24426720	24241593	24289626	0.50	cps
Silver	107-1	6270368	8809100	3948131	6342533	38.33	cps
Silver	109-1	4350500	5149050	5311018	4936856	10.42	cps
Sodium	23-2	15834568	15876138	15854677	15855128	0.13	cps
Strontium	86-1	2126003	2115254	2149752	2130336	0.83	cps
Strontium	88-1	18263918	18263017	18215641	18247525	0.15	cps
Sulfur	34-1	1032756	1047259	1044555	1041523	0.74	cps
Terbium	159-1	12771893	12675047	12506796	12651246	1.06	cps
Terbium	159-2	3877692	3877874	3885721	3880429	0.12	cps
Thallium	203-1	4899989	4904386	4885564	4896646	0.20	cps
Thallium	205-1	11416841	11516815	11554749	11496135	0.62	cps
Tin	118-1	3585681	3583055	3593117	3587284	0.15	cps
Titanium	47-1	8786254	8895324	8916068	8865882	0.79	cps
Uranium	238-1	19801995	20289389	20226618	20106001	1.32	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1109-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL1-MW04S-011525	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:27:37	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	642395	640310	640814	641173	0.17	cps
Ytterbium	172-1	1687	1717	1707	1703	0.90	cps
Ytterbium	172-2	657	683	667	669	2.01	cps
Ytterbium	176-1	24289	23862	23725	23958	1.23	cps
Ytterbium	176-2	7652	7656	7399	7569	1.95	cps
Yttrium	89-1	17185602	17171803	17200191	17185865	0.08	cps
Yttrium	89-2	1022548	1029936	1022411	1024965	0.42	cps
Zinc	66-2	1238588	1246029	1239216	1241277	0.33	cps
Zirconium	90-1	8185463	8365524	8282706	8277897	1.09	cps
Zirconium	91-1	1866044	1892553	1876493	1878363	0.71	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1914206	1885811	1872495	1890838	1.13	cps
Antimony	121-1	4822002	4837373	4865432	4841602	0.45	cps
Arsenic	75-2	73564	72391	72703	72886	0.83	cps
Barium	135-1	6254045	6155859	6270089	6226665	0.99	cps
Barium	137-1	10592426	10668664	10649302	10636797	0.37	cps
Beryllium	9-1	1662048	1675183	1670960	1669397	0.40	cps
Bismuth	209-1	6563725	6584423	6465435	6537861	0.97	cps
Bismuth	209-2	2381209	2379440	2403324	2387991	0.56	cps
Bromine	81-1	6412	6241	6582	6412	2.65	cps
Cadmium	108-1	91625	91803	92303	91910	0.38	cps
Cadmium	106-1	135981	135534	135019	135511	0.36	cps
Cadmium	111-1	1071515	1069950	1076083	1072516	0.30	cps
Calcium	43-1	8750301	8778125	8832169	8786865	0.47	cps
Calcium	44-1	141445405	141753681	141850475	141683187	0.15	cps
Carbon	12-1	2499549	2516381	2498450	2504793	0.40	cps
Carbon	12-2	18829	18512	18769	18703	0.90	cps
Chlorine	35-1	1869718	1738146	1640555	1749473	6.57	cps
Chlorine	35-2	4848	4301	4547	4565	6.00	cps
Chromium	52-2	851249	843818	842270	845779	0.57	cps
Cobalt	59-2	1651909	1640664	1675168	1655914	1.06	cps
Copper	63-2	11697651	11648983	11750769	11699134	0.44	cps
Dysprosium	156-1	367	440	393	400	9.28	cps
Dysprosium	156-2	57	60	73	63	13.92	cps
Erbium	164-1	273	263	293	277	5.52	cps
Erbium	164-2	90	97	80	89	9.44	cps
Gadolinium	160-1	217	260	200	226	13.73	cps
Gadolinium	160-2	87	67	77	77	13.04	cps
Holmium	165-1	11403227	11515462	11243993	11387561	1.20	cps
Holmium	165-2	3665765	3683257	3758455	3702492	1.33	cps
Indium	115-1	8366339	8276768	8345219	8329442	0.56	cps
Indium	115-2	706041	697873	705221	703045	0.64	cps
Iron	54-2	8986380	8810852	8956888	8918040	1.05	cps
Iron	56-2	164959368	163836841	164796154	164530788	0.37	cps
Iron	57-2	4167698	4160312	4165622	4164544	0.09	cps
Krypton	83-1	220	193	180	198	10.30	cps
Lead	206-1	20055325	19929911	19947833	19977689	0.34	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17236438	17034006	17033052	17101165	0.69	cps
Lead	208-1	78888897	78577892	78416289	78627693	0.31	cps
Lithium	6-1	4471758	4436900	4434782	4447813	0.47	cps
Magnesium	24-2	32436905	32028919	32279907	32248577	0.64	cps
Manganese	55-2	3916402	3815922	3846587	3859637	1.33	cps
Molybdenum	94-1	17532139	17456519	17405776	17464812	0.36	cps
Molybdenum	95-1	25245420	25200189	25088330	25177980	0.32	cps
Molybdenum	96-1	27640445	27530118	27439646	27536736	0.37	cps
Molybdenum	97-1	15489948	15576571	15520307	15528942	0.28	cps
Molybdenum	98-1	40871794	40569887	40131409	40524363	0.92	cps
Neodymium	150-1	853	790	793	812	4.39	cps
Neodymium	150-2	30	57	40	42	31.91	cps
Nickel	60-2	412316	405043	407327	408229	0.91	cps
Phosphorus	31-2	15992	15445	15415	15617	2.08	cps
Potassium	39-2	8987960	8858410	8974199	8940190	0.80	cps
Rhodium	103-1	7241610	7236866	7235545	7238007	0.04	cps
Rhodium	103-2	2579861	2555392	2528543	2554599	1.00	cps
Scandium	45-1	6192943	6109731	6039024	6113899	1.26	cps
Scandium	45-2	94907	93693	94277	94292	0.64	cps
Selenium	82-1	71050	71619	72336	71668	0.90	cps
Selenium	77-2	1123	987	1040	1050	6.56	cps
Selenium	78-2	3580	3510	3490	3527	1.34	cps
Silicon	28-1	24919519	24987007	24988455	24964994	0.16	cps
Silver	107-1	5921182	5924746	5963916	5936615	0.40	cps
Silver	109-1	5640180	5601231	5641527	5627646	0.41	cps
Sodium	23-2	64760437	63927336	63901797	64196523	0.76	cps
Strontium	86-1	1776025	1768490	1799471	1781329	0.91	cps
Strontium	88-1	15350858	15197498	15269138	15272498	0.50	cps
Sulfur	34-1	808979	807355	802924	806419	0.39	cps
Terbium	159-1	11742495	11647154	11570599	11653416	0.74	cps
Terbium	159-2	3599821	3505841	3605423	3570362	1.57	cps
Thallium	203-1	5150802	5166243	5108681	5141909	0.58	cps
Thallium	205-1	12301390	12042303	12058274	12133989	1.20	cps
Tin	118-1	4170289	4153074	4130536	4151300	0.48	cps
Titanium	47-1	7588265	7622244	7548521	7586343	0.49	cps
Uranium	238-1	20293533	20282090	20183887	20253170	0.30	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV05	Instrumnet Name :	P8
Client Sample ID :	CCV05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:30:30	DataFile Name :	074CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	673510	667037	663682	668076	0.75	cps
Ytterbium	172-1	340	337	273	317	11.86	cps
Ytterbium	172-2	110	147	120	126	15.10	cps
Ytterbium	176-1	24900	24740	24770	24803	0.34	cps
Ytterbium	176-2	7362	7659	7716	7579	2.51	cps
Yttrium	89-1	15680799	15583597	15602824	15622407	0.33	cps
Yttrium	89-2	933590	929995	935780	933121	0.31	cps
Zinc	66-2	1176361	1175127	1174763	1175417	0.07	cps
Zirconium	90-1	8737143	8767488	8723409	8742680	0.26	cps
Zirconium	91-1	2003290	1991048	1971371	1988570	0.81	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	43	93	73	36.08	cps
Antimony	121-1	1393	1463	1253	1370	7.81	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	1013	957	883	951	6.85	cps
Barium	137-1	1720	1620	1630	1657	3.32	cps
Beryllium	9-1	949	882	805	879	8.19	cps
Bismuth	209-1	7532728	7665885	7257129	7485247	2.79	cps
Bismuth	209-2	2630327	2801757	3405773	2945952	13.83	cps
Bromine	81-1	5925	5838	5538	5767	3.52	cps
Cadmium	108-1	97	60	120	92	32.80	cps
Cadmium	106-1	5311	5024	4894	5077	4.20	cps
Cadmium	111-1	1158	1076	1025	1086	6.18	cps
Calcium	43-1	467	547	447	487	10.87	cps
Calcium	44-1	7739	6875	7118	7244	6.15	cps
Carbon	12-1	1646276	1607754	1611165	1621732	1.31	cps
Carbon	12-2	10644	10177	10394	10405	2.25	cps
Chlorine	35-1	768523	727676	700946	732382	4.65	cps
Chlorine	35-2	2314	2174	2077	2188	5.44	cps
Chromium	52-2	477	417	497	463	8.99	cps
Cobalt	59-2	190	207	233	210	10.41	cps
Copper	63-2	2304	2397	2334	2345	2.03	cps
Dysprosium	156-1	67	70	127	88	38.42	cps
Dysprosium	156-2	0	3	17	7	132.33	cps
Erbium	164-1	60	60	60	60	0.00	cps
Erbium	164-2	13	13	13	13	0.00	cps
Gadolinium	160-1	47	30	23	33	36.07	cps
Gadolinium	160-2	10	17	3	10	66.70	cps
Holmium	165-1	11996782	11903978	11115559	11672106	4.15	cps
Holmium	165-2	3623391	3809160	4501993	3978181	11.64	cps
Indium	115-1	9441945	9346459	8846610	9211671	3.47	cps
Indium	115-2	732627	780582	932156	815122	12.78	cps
Iron	54-2	660	593	823	692	17.10	cps
Iron	56-2	11505	11181	11441	11376	1.51	cps
Iron	57-2	250	300	283	278	9.17	cps
Krypton	83-1	147	160	143	150	5.88	cps
Lead	206-1	2584	2654	2760	2666	3.34	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2330	2310	2097	2246	5.76	cps
Lead	208-1	10915	10602	10335	10617	2.74	cps
Lithium	6-1	4860446	4862438	4674428	4799104	2.25	cps
Magnesium	24-2	1060	1003	1093	1052	4.32	cps
Manganese	55-2	630	493	523	549	13.09	cps
Molybdenum	94-1	1037	927	913	959	7.06	cps
Molybdenum	95-1	1493	1167	1027	1229	19.49	cps
Molybdenum	96-1	1640	1367	1303	1437	12.45	cps
Molybdenum	97-1	683	710	733	709	3.53	cps
Molybdenum	98-1	1967	1860	1600	1809	10.43	cps
Neodymium	150-1	47	87	63	66	30.65	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	797	803	830	810	2.18	cps
Phosphorus	31-2	20	10	13	14	35.26	cps
Potassium	39-2	5258	4994	4824	5025	4.35	cps
Rhodium	103-1	8474550	8491947	8099579	8355359	2.65	cps
Rhodium	103-2	2835139	3008977	3570222	3138113	12.24	cps
Scandium	45-1	6418214	6552077	6056890	6342393	4.04	cps
Scandium	45-2	90568	96477	115670	100905	13.01	cps
Selenium	82-1	-20	-57	-23	-33	-60.82	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	7	3	3	100.05	cps
Silicon	28-1	256830	255191	251156	254392	1.15	cps
Silver	107-1	1903	1617	1323	1615	17.96	cps
Silver	109-1	1547	1490	1267	1435	10.32	cps
Sodium	23-2	19723	19226	19466	19472	1.28	cps
Strontium	86-1	287	293	337	306	8.88	cps
Strontium	88-1	970	817	950	912	9.14	cps
Sulfur	34-1	245979	246510	245713	246067	0.16	cps
Terbium	159-1	12111346	12124999	11377252	11871199	3.60	cps
Terbium	159-2	3524965	3762671	4438069	3908568	12.12	cps
Thallium	203-1	1020	1023	870	971	9.02	cps
Thallium	205-1	2447	2300	2264	2337	4.15	cps
Tin	118-1	1607	1490	1463	1520	5.02	cps
Titanium	47-1	303	310	343	319	6.72	cps
Uranium	238-1	1070	977	1053	1033	4.82	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB05	Instrumnet Name :	P8
Client Sample ID :	CCB05	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:34:06	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	23	23	24	7.89	cps
Ytterbium	172-1	63	53	47	54	15.40	cps
Ytterbium	172-2	17	30	37	28	36.66	cps
Ytterbium	176-1	1537	1543	1563	1548	0.90	cps
Ytterbium	176-2	173	147	227	182	22.35	cps
Yttrium	89-1	16687175	16619611	15762442	16356409	3.15	cps
Yttrium	89-2	914579	972913	1229956	1039150	16.15	cps
Zinc	66-2	287	310	360	319	11.75	cps
Zirconium	90-1	1050	880	847	926	11.79	cps
Zirconium	91-1	213	187	223	208	9.12	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	47	33	37	39	17.85	cps
Antimony	121-1	527	603	467	532	12.87	cps
Arsenic	75-2	10	3	3	6	69.34	cps
Barium	135-1	683	560	570	604	11.33	cps
Barium	137-1	883	993	983	953	6.38	cps
Beryllium	9-1	615	621	616	617	0.54	cps
Bismuth	209-1	7606899	7624059	7569862	7600273	0.36	cps
Bismuth	209-2	2910997	2961459	2891937	2921464	1.23	cps
Bromine	81-1	5514	5411	5428	5451	1.02	cps
Cadmium	108-1	110	53	93	86	34.04	cps
Cadmium	106-1	5484	5014	5044	5181	5.08	cps
Cadmium	111-1	1117	1042	1037	1065	4.18	cps
Calcium	43-1	347	270	330	316	12.78	cps
Calcium	44-1	5161	4854	4604	4873	5.72	cps
Carbon	12-1	1652842	1568043	1549831	1590239	3.46	cps
Carbon	12-2	11041	10154	10284	10493	4.57	cps
Chlorine	35-1	484327	464348	448641	465772	3.84	cps
Chlorine	35-2	1400	1393	1530	1441	5.35	cps
Chromium	52-2	480	443	460	461	3.98	cps
Cobalt	59-2	133	193	197	174	20.43	cps
Copper	63-2	1950	2054	2004	2002	2.58	cps
Dysprosium	156-1	67	50	87	68	27.09	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	53	50	83	62	29.50	cps
Erbium	164-2	20	13	20	18	21.66	cps
Gadolinium	160-1	37	43	20	33	36.05	cps
Gadolinium	160-2	20	0	13	11	91.66	cps
Holmium	165-1	12008720	11841919	11780337	11876992	0.99	cps
Holmium	165-2	4021417	3956138	3949267	3975607	1.00	cps
Indium	115-1	9249984	9377406	9297179	9308190	0.69	cps
Indium	115-2	801503	806011	804829	804114	0.29	cps
Iron	54-2	397	450	403	417	6.97	cps
Iron	56-2	7242	6605	6765	6871	4.82	cps
Iron	57-2	180	163	183	176	6.10	cps
Krypton	83-1	147	137	153	146	5.76	cps
Lead	206-1	2117	1934	1787	1946	8.50	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1577	1707	1510	1598	6.26	cps
Lead	208-1	7574	7674	7278	7509	2.75	cps
Lithium	6-1	4861218	4859872	4833747	4851612	0.32	cps
Magnesium	24-2	457	497	383	446	12.90	cps
Manganese	55-2	430	447	370	416	9.70	cps
Molybdenum	94-1	527	447	477	483	8.36	cps
Molybdenum	95-1	517	377	363	419	20.28	cps
Molybdenum	96-1	603	463	577	548	13.57	cps
Molybdenum	97-1	273	270	213	252	13.37	cps
Molybdenum	98-1	803	657	643	701	12.66	cps
Neodymium	150-1	33	40	20	31	32.73	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	753	677	813	748	9.16	cps
Phosphorus	31-2	20	10	27	19	44.42	cps
Potassium	39-2	4714	4617	4811	4714	2.05	cps
Rhodium	103-1	8385396	8391322	8382545	8386421	0.05	cps
Rhodium	103-2	3108043	3119385	3160166	3129198	0.88	cps
Scandium	45-1	6430522	6429750	6346103	6402125	0.76	cps
Scandium	45-2	98712	99682	98618	99004	0.60	cps
Selenium	82-1	-7	-27	-53	-29	-81.04	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	241363	239575	238579	239839	0.59	cps
Silver	107-1	710	547	590	616	13.75	cps
Silver	109-1	520	477	490	496	4.48	cps
Sodium	23-2	16656	16703	16870	16743	0.67	cps
Strontium	86-1	283	247	247	259	8.18	cps
Strontium	88-1	800	657	687	714	10.58	cps
Sulfur	34-1	241420	242127	243940	242496	0.54	cps
Terbium	159-1	12109587	12117202	12055515	12094101	0.28	cps
Terbium	159-2	3765445	3856907	3855794	3826048	1.37	cps
Thallium	203-1	687	623	730	680	7.89	cps
Thallium	205-1	1663	1570	1600	1611	2.96	cps
Tin	118-1	1287	1300	1307	1298	0.78	cps
Titanium	47-1	147	183	110	147	25.00	cps
Uranium	238-1	710	593	560	621	12.68	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BL	Instrumnet Name :	P8
Client Sample ID :	PB166152BL	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:37:31	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	0	23	12	95.78	cps
Ytterbium	172-1	63	73	53	63	15.79	cps
Ytterbium	172-2	17	30	20	22	31.22	cps
Ytterbium	176-1	1467	1473	1573	1505	3.97	cps
Ytterbium	176-2	183	207	163	184	11.76	cps
Yttrium	89-1	17059618	16747782	16735793	16847731	1.09	cps
Yttrium	89-2	1000171	1005444	1002810	1002809	0.26	cps
Zinc	66-2	227	233	207	222	6.25	cps
Zirconium	90-1	597	580	537	571	5.42	cps
Zirconium	91-1	153	123	117	131	14.90	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	359658	357994	361434	359695	0.48	cps
Antimony	121-1	4985257	5052784	5036223	5024755	0.70	cps
Arsenic	75-2	77679	77478	76965	77374	0.48	cps
Barium	135-1	6324462	6427918	6314853	6355744	0.99	cps
Barium	137-1	10798011	10866132	10898210	10854118	0.47	cps
Beryllium	9-1	1660737	1666701	1688202	1671880	0.86	cps
Bismuth	209-1	7368103	7245500	7260491	7291365	0.92	cps
Bismuth	209-2	2727997	2773550	2824129	2775225	1.73	cps
Bromine	81-1	5468	5791	5521	5593	3.10	cps
Cadmium	108-1	96736	98636	97209	97527	1.01	cps
Cadmium	106-1	141701	142726	144345	142924	0.93	cps
Cadmium	111-1	1141124	1169473	1166396	1158998	1.34	cps
Calcium	43-1	1780712	1841448	1819530	1813897	1.70	cps
Calcium	44-1	28357206	28874950	28578415	28603524	0.91	cps
Carbon	12-1	2174268	2196271	2257391	2209310	1.95	cps
Carbon	12-2	15802	15525	15935	15754	1.33	cps
Chlorine	35-1	275862	274537	272528	274309	0.61	cps
Chlorine	35-2	903	930	900	911	1.80	cps
Chromium	52-2	880581	882036	887788	883468	0.43	cps
Cobalt	59-2	1766586	1789662	1777107	1777785	0.65	cps
Copper	63-2	12934115	12897939	12872866	12901640	0.24	cps
Dysprosium	156-1	247	227	223	232	5.43	cps
Dysprosium	156-2	27	17	17	20	28.86	cps
Erbium	164-1	147	127	170	148	14.67	cps
Erbium	164-2	33	70	47	50	37.12	cps
Gadolinium	160-1	130	107	70	102	29.59	cps
Gadolinium	160-2	47	27	37	37	27.27	cps
Holmium	165-1	12167256	12021319	12002916	12063831	0.75	cps
Holmium	165-2	3919140	3993931	3927415	3946829	1.04	cps
Indium	115-1	9200227	9038270	9024705	9087734	1.07	cps
Indium	115-2	772323	776857	779036	776072	0.44	cps
Iron	54-2	1899471	1921815	1928506	1916598	0.79	cps
Iron	56-2	34463410	34352475	34467089	34427658	0.19	cps
Iron	57-2	823540	822286	832054	825960	0.64	cps
Krypton	83-1	153	160	140	151	6.74	cps
Lead	206-1	20435697	20937431	21026411	20799846	1.53	cps

Reviewed By:Mohan
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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17627242	17996668	17979083	17867664	1.17	cps
Lead	208-1	80781253	82830071	82809602	82140309	1.43	cps
Lithium	6-1	4803281	4730466	4786410	4773386	0.80	cps
Magnesium	24-2	6656592	6605550	6770782	6677641	1.27	cps
Manganese	55-2	3930336	3990656	4043076	3988023	1.41	cps
Molybdenum	94-1	17382258	17541213	17540065	17487845	0.52	cps
Molybdenum	95-1	25073771	25331335	25235866	25213657	0.52	cps
Molybdenum	96-1	27004739	27816520	27362597	27394619	1.49	cps
Molybdenum	97-1	15392534	15736263	15593066	15573954	1.11	cps
Molybdenum	98-1	40307879	40889275	40250525	40482560	0.87	cps
Neodymium	150-1	690	723	720	711	2.58	cps
Neodymium	150-2	27	17	30	24	28.38	cps
Nickel	60-2	447094	448495	448875	448155	0.21	cps
Phosphorus	31-2	16056	15515	16196	15922	2.26	cps
Potassium	39-2	1827332	1831366	1888253	1848984	1.84	cps
Rhodium	103-1	8150118	8076396	8038023	8088179	0.70	cps
Rhodium	103-2	2957134	2907426	2925576	2930045	0.86	cps
Scandium	45-1	6496204	6333851	6403660	6411238	1.27	cps
Scandium	45-2	99618	100565	100364	100182	0.50	cps
Selenium	82-1	74963	76846	76411	76073	1.30	cps
Selenium	77-2	1150	1077	1087	1105	3.60	cps
Selenium	78-2	3704	3674	3557	3645	2.13	cps
Silicon	28-1	22763070	23165585	23331589	23086748	1.27	cps
Silver	107-1	6460035	6494580	6502366	6485660	0.35	cps
Silver	109-1	6131583	6156948	6172589	6153706	0.34	cps
Sodium	23-2	13208897	13157756	13371919	13246190	0.84	cps
Strontium	86-1	1759584	1799401	1814544	1791176	1.58	cps
Strontium	88-1	15387754	15634714	15428672	15483713	0.85	cps
Sulfur	34-1	804257	811123	813777	809719	0.61	cps
Terbium	159-1	12441465	12179886	12080774	12234042	1.52	cps
Terbium	159-2	3873987	3804460	3815209	3831219	0.98	cps
Thallium	203-1	5214776	5357832	5387855	5320154	1.74	cps
Thallium	205-1	12427704	12533864	12707042	12556203	1.12	cps
Tin	118-1	4263728	4307403	4333261	4301464	0.82	cps
Titanium	47-1	7502188	7568121	7471825	7514045	0.66	cps
Uranium	238-1	19953939	20343342	20278122	20191801	1.03	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	PB166152BS	Instrumnet Name :	P8
Client Sample ID :	PB166152BS	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 19:43:48	DataFile Name :	078LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	675680	680312	684171	680054	0.63	cps
Ytterbium	172-1	127	110	170	136	22.85	cps
Ytterbium	172-2	40	47	37	41	12.39	cps
Ytterbium	176-1	23641	23925	24680	24082	2.23	cps
Ytterbium	176-2	7586	7599	7479	7554	0.87	cps
Yttrium	89-1	16842140	16824311	16431687	16699379	1.39	cps
Yttrium	89-2	993538	1002660	1002331	999510	0.52	cps
Zinc	66-2	1305013	1309021	1313848	1309294	0.34	cps
Zirconium	90-1	8718778	8770044	8810328	8766383	0.52	cps
Zirconium	91-1	1975574	1999169	1986492	1987078	0.59	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	149168	148964	147890	148674	0.46	cps
Antimony	121-1	1907	1737	1730	1791	5.59	cps
Arsenic	75-2	107	107	143	119	17.81	cps
Barium	135-1	49470	49286	48971	49242	0.51	cps
Barium	137-1	84424	85581	85058	85021	0.68	cps
Beryllium	9-1	1400	1227	1246	1291	7.33	cps
Bismuth	209-1	7593003	7665338	7697919	7652086	0.70	cps
Bismuth	209-2	2897180	2907942	2847744	2884288	1.11	cps
Bromine	81-1	6228	6065	6245	6179	1.61	cps
Cadmium	108-1	343	343	417	368	11.51	cps
Cadmium	106-1	5898	6021	5961	5960	1.04	cps
Cadmium	111-1	1156	1147	1027	1110	6.48	cps
Calcium	43-1	2834	2717	2727	2759	2.34	cps
Calcium	44-1	45508	45729	45368	45535	0.40	cps
Carbon	12-1	1971995	2043992	2079202	2031729	2.69	cps
Carbon	12-2	14234	14604	14557	14465	1.39	cps
Chlorine	35-1	233117	229318	225449	229295	1.67	cps
Chlorine	35-2	893	743	840	826	9.21	cps
Chromium	52-2	17624	17367	17855	17615	1.38	cps
Cobalt	59-2	1417	1333	1463	1405	4.69	cps
Copper	63-2	18762	18622	18429	18605	0.90	cps
Dysprosium	156-1	22055	21424	22048	21842	1.66	cps
Dysprosium	156-2	6292	6352	6131	6258	1.82	cps
Erbium	164-1	18847	18673	18853	18791	0.54	cps
Erbium	164-2	6078	5875	5598	5850	4.12	cps
Gadolinium	160-1	19331	18823	18960	19038	1.38	cps
Gadolinium	160-2	7415	7222	7272	7303	1.38	cps
Holmium	165-1	12056894	11964421	11986882	12002732	0.40	cps
Holmium	165-2	3902294	3936836	3874143	3904424	0.80	cps
Indium	115-1	9486895	9345924	9342816	9391879	0.88	cps
Indium	115-2	801172	799401	789969	796847	0.76	cps
Iron	54-2	420003	417747	416148	417966	0.46	cps
Iron	56-2	8218260	8134934	8093463	8148886	0.78	cps
Iron	57-2	195342	196964	194558	195621	0.63	cps
Krypton	83-1	203	197	197	199	1.94	cps
Lead	206-1	37263	37578	37464	37435	0.43	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30142	30138	30559	30280	0.80	cps
Lead	208-1	143360	142564	144316	143413	0.61	cps
Lithium	6-1	4966022	4862115	4871297	4899811	1.17	cps
Magnesium	24-2	8342	8473	8182	8332	1.74	cps
Manganese	55-2	7202	7429	7625	7419	2.86	cps
Molybdenum	94-1	74106	73245	74897	74082	1.12	cps
Molybdenum	95-1	2717	2374	2300	2464	9.03	cps
Molybdenum	96-1	14878	14604	14691	14725	0.95	cps
Molybdenum	97-1	1667	1453	1543	1555	6.89	cps
Molybdenum	98-1	4134	4037	3240	3804	12.89	cps
Neodymium	150-1	27705	27428	27064	27399	1.17	cps
Neodymium	150-2	6305	6008	6098	6137	2.48	cps
Nickel	60-2	1537	1513	1590	1547	2.54	cps
Phosphorus	31-2	130	137	143	137	4.88	cps
Potassium	39-2	25409	24104	23993	24502	3.21	cps
Rhodium	103-1	8693300	8532266	8410578	8545381	1.66	cps
Rhodium	103-2	3098434	3099064	3036824	3078107	1.16	cps
Scandium	45-1	6652004	6593339	6675891	6640411	0.64	cps
Scandium	45-2	101434	99998	99646	100359	0.94	cps
Selenium	82-1	-3	-7	3	-2	-228.69	cps
Selenium	77-2	13	23	20	19	26.96	cps
Selenium	78-2	33	23	3	20	76.39	cps
Silicon	28-1	7517831	7537979	7554364	7536725	0.24	cps
Silver	107-1	1340	1160	1047	1182	12.51	cps
Silver	109-1	1090	840	790	907	17.73	cps
Sodium	23-2	31127	30829	31167	31041	0.59	cps
Strontium	86-1	3214	3094	2994	3100	3.55	cps
Strontium	88-1	26008	25844	25266	25706	1.51	cps
Sulfur	34-1	248005	245507	246507	246673	0.51	cps
Terbium	159-1	12534938	12296786	12247429	12359718	1.24	cps
Terbium	159-2	3879261	3863440	3760427	3834376	1.68	cps
Thallium	203-1	1567	1373	1483	1475	6.58	cps
Thallium	205-1	3924	3544	3547	3672	5.95	cps
Tin	118-1	1907	1843	2090	1947	6.58	cps
Titanium	47-1	40552	40247	39777	40192	0.97	cps
Uranium	238-1	46688	47307	46478	46824	0.92	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:46:38	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	16576	16530	15932	16346	2.20	cps
Ytterbium	172-1	5114	5054	4921	5030	1.97	cps
Ytterbium	172-2	2007	2020	1994	2007	0.66	cps
Ytterbium	176-1	5648	5725	5818	5730	1.49	cps
Ytterbium	176-2	1720	1890	1897	1836	5.46	cps
Yttrium	89-1	17194204	16716320	17064766	16991763	1.45	cps
Yttrium	89-2	1014028	1008371	999067	1007155	0.75	cps
Zinc	66-2	1693	1790	1533	1672	7.75	cps
Zirconium	90-1	200216	198927	198119	199087	0.53	cps
Zirconium	91-1	45233	45203	44497	44978	0.93	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	150418	148050	148900	149123	0.80	cps
Antimony	121-1	787	753	750	763	2.66	cps
Arsenic	75-2	117	180	150	149	21.28	cps
Barium	135-1	48098	48376	48185	48220	0.29	cps
Barium	137-1	83800	83053	83767	83540	0.51	cps
Beryllium	9-1	974	960	982	972	1.17	cps
Bismuth	209-1	7597225	7613662	7574729	7595205	0.26	cps
Bismuth	209-2	2862902	2894933	2913560	2890465	0.89	cps
Bromine	81-1	5868	5811	5791	5823	0.68	cps
Cadmium	108-1	357	343	320	340	5.46	cps
Cadmium	106-1	5508	5918	5625	5683	3.72	cps
Cadmium	111-1	989	1043	1021	1018	2.70	cps
Calcium	43-1	3470	3354	3364	3396	1.90	cps
Calcium	44-1	56045	56982	57812	56946	1.55	cps
Carbon	12-1	2017661	2072826	2102898	2064462	2.09	cps
Carbon	12-2	14704	14888	14267	14620	2.18	cps
Chlorine	35-1	188017	185904	183018	185646	1.35	cps
Chlorine	35-2	597	523	630	583	9.35	cps
Chromium	52-2	17494	17327	16900	17240	1.78	cps
Cobalt	59-2	1290	1333	1377	1333	3.25	cps
Copper	63-2	18098	17581	18185	17955	1.82	cps
Dysprosium	156-1	20880	21881	21070	21277	2.50	cps
Dysprosium	156-2	6191	6228	6295	6238	0.84	cps
Erbium	164-1	17902	18893	18553	18450	2.73	cps
Erbium	164-2	5621	5835	5481	5646	3.15	cps
Gadolinium	160-1	18763	19257	18673	18898	1.66	cps
Gadolinium	160-2	7125	7275	7075	7159	1.45	cps
Holmium	165-1	11849449	11789153	11800393	11812999	0.27	cps
Holmium	165-2	3908260	3890933	3916498	3905231	0.33	cps
Indium	115-1	9439469	9290969	9310952	9347130	0.86	cps
Indium	115-2	791532	792491	796596	793539	0.34	cps
Iron	54-2	417574	410085	411259	412973	0.98	cps
Iron	56-2	8105874	8084971	7925856	8038900	1.22	cps
Iron	57-2	192264	192415	190680	191786	0.50	cps
Krypton	83-1	187	183	170	180	4.90	cps
Lead	206-1	35325	35362	35930	35539	0.95	cps

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LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28799	29230	28551	28860	1.19	cps
Lead	208-1	136943	138256	137395	137531	0.48	cps
Lithium	6-1	4796906	4844451	4857431	4832929	0.66	cps
Magnesium	24-2	8379	8336	8182	8299	1.25	cps
Manganese	55-2	7052	7299	7132	7161	1.76	cps
Molybdenum	94-1	70939	72946	73087	72324	1.66	cps
Molybdenum	95-1	1550	1500	1353	1468	6.96	cps
Molybdenum	96-1	13977	13203	13260	13480	3.20	cps
Molybdenum	97-1	967	1030	840	946	10.23	cps
Molybdenum	98-1	2440	2180	2240	2287	5.95	cps
Neodymium	150-1	27639	27782	27652	27691	0.29	cps
Neodymium	150-2	6388	6308	6131	6276	2.09	cps
Nickel	60-2	1487	1577	1473	1512	3.72	cps
Phosphorus	31-2	150	163	147	153	5.75	cps
Potassium	39-2	23967	23700	23643	23770	0.73	cps
Rhodium	103-1	8416139	8429017	8387307	8410821	0.25	cps
Rhodium	103-2	3031293	3054642	2987571	3024502	1.13	cps
Scandium	45-1	6535488	6559276	6473903	6522889	0.68	cps
Scandium	45-2	100642	98363	99363	99456	1.15	cps
Selenium	82-1	-43	-27	-47	-39	-27.54	cps
Selenium	77-2	17	23	13	18	28.64	cps
Selenium	78-2	13	20	13	16	24.76	cps
Silicon	28-1	7389504	7596038	7466788	7484110	1.39	cps
Silver	107-1	577	680	510	589	14.54	cps
Silver	109-1	350	323	313	329	5.76	cps
Sodium	23-2	28979	29042	29563	29195	1.10	cps
Strontium	86-1	2967	2984	3257	3069	5.31	cps
Strontium	88-1	25396	25223	26128	25582	1.88	cps
Sulfur	34-1	240685	239282	238807	239591	0.41	cps
Terbium	159-1	12202860	12410332	12232851	12282015	0.91	cps
Terbium	159-2	3779150	3769441	3767270	3771954	0.17	cps
Thallium	203-1	1283	1337	1190	1270	5.85	cps
Thallium	205-1	2907	2710	2944	2854	4.40	cps
Tin	118-1	1817	1650	1683	1717	5.14	cps
Titanium	47-1	38585	38712	39552	38950	1.35	cps
Uranium	238-1	45168	45980	46346	45831	1.32	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:50:01	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	16066	15519	16136	15907	2.12	cps
Ytterbium	172-1	5204	5098	5301	5201	1.96	cps
Ytterbium	172-2	1934	1773	1820	1842	4.47	cps
Ytterbium	176-1	5528	5431	5605	5521	1.57	cps
Ytterbium	176-2	1710	1673	1590	1658	3.71	cps
Yttrium	89-1	16816548	16811975	17003682	16877402	0.65	cps
Yttrium	89-2	1005052	997692	1002624	1001789	0.37	cps
Zinc	66-2	1893	1947	1930	1923	1.42	cps
Zirconium	90-1	194198	197619	195226	195681	0.90	cps
Zirconium	91-1	43688	43253	43003	43315	0.80	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	29086	29914	29617	29539	1.42	cps
Antimony	121-1	397	380	387	388	2.16	cps
Arsenic	75-2	17	10	30	19	53.91	cps
Barium	135-1	10224	9960	9954	10046	1.53	cps
Barium	137-1	17391	17395	16804	17197	1.98	cps
Beryllium	9-1	552	552	561	555	0.91	cps
Bismuth	209-1	7551236	7606039	7502609	7553295	0.69	cps
Bismuth	209-2	2867554	2845989	2830930	2848158	0.65	cps
Bromine	81-1	5108	5394	5401	5301	3.16	cps
Cadmium	108-1	97	97	150	114	26.90	cps
Cadmium	106-1	5061	5014	4824	4967	2.52	cps
Cadmium	111-1	1041	992	927	987	5.83	cps
Calcium	43-1	883	883	900	889	1.08	cps
Calcium	44-1	13950	13833	13893	13892	0.42	cps
Carbon	12-1	1738451	1762560	1707297	1736103	1.60	cps
Carbon	12-2	11568	11661	11761	11664	0.83	cps
Chlorine	35-1	157398	158712	156290	157467	0.77	cps
Chlorine	35-2	500	653	533	562	14.34	cps
Chromium	52-2	3674	3801	3674	3716	1.97	cps
Cobalt	59-2	500	420	340	420	19.05	cps
Copper	63-2	4918	5011	5034	4988	1.24	cps
Dysprosium	156-1	4344	4421	4307	4357	1.33	cps
Dysprosium	156-2	1297	1093	1183	1191	8.55	cps
Erbium	164-1	3724	3554	3664	3647	2.36	cps
Erbium	164-2	1157	1220	1303	1227	6.00	cps
Gadolinium	160-1	3691	3601	3664	3652	1.27	cps
Gadolinium	160-2	1427	1380	1400	1402	1.67	cps
Holmium	165-1	11736076	11909047	11661840	11768987	1.08	cps
Holmium	165-2	3908685	3891691	3931165	3910513	0.51	cps
Indium	115-1	9338588	9277030	9210320	9275313	0.69	cps
Indium	115-2	791196	790509	798201	793302	0.54	cps
Iron	54-2	81739	82342	82489	82190	0.48	cps
Iron	56-2	1614183	1622733	1598869	1611928	0.75	cps
Iron	57-2	37740	38535	38325	38200	1.08	cps
Krypton	83-1	167	130	140	146	13.02	cps
Lead	206-1	8099	8286	8500	8295	2.41	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6972	6965	6909	6949	0.50	cps
Lead	208-1	31769	31959	32182	31970	0.65	cps
Lithium	6-1	4887009	4758240	4804387	4816545	1.35	cps
Magnesium	24-2	2134	2034	2130	2099	2.71	cps
Manganese	55-2	1750	1753	1757	1753	0.19	cps
Molybdenum	94-1	14354	14271	14424	14350	0.54	cps
Molybdenum	95-1	457	447	497	467	5.67	cps
Molybdenum	96-1	2834	2787	2810	2810	0.83	cps
Molybdenum	97-1	280	267	320	289	9.61	cps
Molybdenum	98-1	747	720	627	698	9.03	cps
Neodymium	150-1	5304	5444	5338	5362	1.36	cps
Neodymium	150-2	1313	1263	1227	1268	3.43	cps
Nickel	60-2	963	847	800	870	9.67	cps
Phosphorus	31-2	43	60	47	50	17.64	cps
Potassium	39-2	7879	8269	8126	8091	2.44	cps
Rhodium	103-1	8357571	8328496	8343807	8343292	0.17	cps
Rhodium	103-2	3021107	3002151	3048201	3023820	0.77	cps
Scandium	45-1	6358215	6388362	6274681	6340419	0.93	cps
Scandium	45-2	98883	98115	98706	98568	0.41	cps
Selenium	82-1	-53	-47	23	-26	-166.22	cps
Selenium	77-2	17	13	0	10	88.20	cps
Selenium	78-2	7	10	3	7	50.03	cps
Silicon	28-1	1668528	1643767	1655215	1655837	0.75	cps
Silver	107-1	273	243	257	258	5.83	cps
Silver	109-1	207	140	113	153	31.35	cps
Sodium	23-2	17741	17177	17577	17498	1.66	cps
Strontium	86-1	763	797	820	793	3.59	cps
Strontium	88-1	5618	5411	5548	5526	1.90	cps
Sulfur	34-1	226978	229269	225972	227406	0.74	cps
Terbium	159-1	12074391	12199469	11847536	12040466	1.48	cps
Terbium	159-2	3862637	3773931	3768912	3801827	1.39	cps
Thallium	203-1	560	660	640	620	8.53	cps
Thallium	205-1	1377	1423	1447	1416	2.52	cps
Tin	118-1	1347	1360	1337	1348	0.87	cps
Titanium	47-1	7465	7812	7782	7687	2.50	cps
Uranium	238-1	9713	9726	9883	9774	0.97	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	25
Date & Time Acquired :	2025-01-27 19:53:21	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3174	3250	3020	3148	3.72	cps
Ytterbium	172-1	973	1137	973	1028	9.18	cps
Ytterbium	172-2	430	337	360	376	12.93	cps
Ytterbium	176-1	2320	2224	2270	2271	2.13	cps
Ytterbium	176-2	447	497	580	508	13.27	cps
Yttrium	89-1	16550928	16471982	16374452	16465787	0.54	cps
Yttrium	89-2	995264	982371	988409	988681	0.65	cps
Zinc	66-2	497	467	530	498	6.37	cps
Zirconium	90-1	38563	38757	40151	39157	2.21	cps
Zirconium	91-1	8506	8269	8703	8493	2.56	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	196775	198234	199289	198099	0.64	cps
Antimony	121-1	833499	842783	840346	838876	0.57	cps
Arsenic	75-2	133	100	133	122	15.75	cps
Barium	135-1	1021464	1036781	1035746	1031330	0.83	cps
Barium	137-1	1866485	1903449	1873744	1881226	1.04	cps
Beryllium	9-1	285978	289544	292057	289193	1.06	cps
Bismuth	209-1	7491449	7425467	7426424	7447780	0.51	cps
Bismuth	209-2	2801126	2864380	2848985	2838164	1.16	cps
Bromine	81-1	5868	5911	5961	5914	0.79	cps
Cadmium	108-1	18493	18512	18496	18500	0.06	cps
Cadmium	106-1	30514	30504	30290	30436	0.42	cps
Cadmium	111-1	204577	207363	208900	206947	1.06	cps
Calcium	43-1	305029	303447	306937	305137	0.57	cps
Calcium	44-1	5076360	4994303	5060704	5043789	0.86	cps
Carbon	12-1	1915971	1958144	2003504	1959206	2.23	cps
Carbon	12-2	13833	14247	14247	14109	1.69	cps
Chlorine	35-1	5673675	6069758	6330087	6024507	5.49	cps
Chlorine	35-2	23679	23042	24317	23679	2.69	cps
Chromium	52-2	168465	167393	168418	168092	0.36	cps
Cobalt	59-2	300309	298932	299177	299472	0.25	cps
Copper	63-2	2495740	2446515	2461163	2467806	1.02	cps
Dysprosium	156-1	19985	19678	19778	19814	0.79	cps
Dysprosium	156-2	5374	5788	5865	5676	4.65	cps
Erbium	164-1	16744	16981	17385	17037	1.90	cps
Erbium	164-2	5331	5368	5284	5328	0.78	cps
Gadolinium	160-1	16674	17261	17111	17015	1.79	cps
Gadolinium	160-2	6505	6772	6942	6740	3.27	cps
Holmium	165-1	11904639	11798116	11719344	11807366	0.79	cps
Holmium	165-2	3910920	4002299	3978083	3963767	1.19	cps
Indium	115-1	9314161	9121462	9187679	9207767	1.06	cps
Indium	115-2	781010	797137	793386	790511	1.07	cps
Iron	54-2	672341	675762	683062	677055	0.81	cps
Iron	56-2	13151261	13221714	13192574	13188516	0.27	cps
Iron	57-2	312576	314363	314744	313894	0.37	cps
Krypton	83-1	197	160	150	169	14.55	cps
Lead	206-1	3925638	4042907	3986112	3984886	1.47	cps

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On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3392504	3465351	3443681	3433845	1.09	cps
Lead	208-1	15475229	15823192	15600564	15632995	1.13	cps
Lithium	6-1	4775184	4825525	4844566	4815092	0.74	cps
Magnesium	24-2	1194287	1225435	1238885	1219536	1.88	cps
Manganese	55-2	692285	694678	694595	693853	0.20	cps
Molybdenum	94-1	4775697	4806366	4820908	4800990	0.48	cps
Molybdenum	95-1	7446322	7429554	7346338	7407405	0.72	cps
Molybdenum	96-1	8020768	8013579	8002739	8012362	0.11	cps
Molybdenum	97-1	4577080	4553287	4629265	4586544	0.85	cps
Molybdenum	98-1	11985322	12004109	11944103	11977845	0.26	cps
Neodymium	150-1	24606	25377	25331	25105	1.72	cps
Neodymium	150-2	5538	5905	5605	5682	3.44	cps
Nickel	60-2	82658	83996	82883	83179	0.86	cps
Phosphorus	31-2	130	130	120	127	4.56	cps
Potassium	39-2	307214	310181	306779	308058	0.60	cps
Rhodium	103-1	8321197	8168435	8274604	8254745	0.95	cps
Rhodium	103-2	2932385	3025552	3000156	2986031	1.61	cps
Scandium	45-1	6539221	6376418	6416207	6443949	1.32	cps
Scandium	45-2	100146	100549	100279	100325	0.20	cps
Selenium	82-1	13260	13410	13520	13397	0.98	cps
Selenium	77-2	227	223	207	219	4.90	cps
Selenium	78-2	623	717	670	670	6.97	cps
Silicon	28-1	6735234	6705454	6890076	6776921	1.46	cps
Silver	107-1	445291	488761	517171	483741	7.48	cps
Silver	109-1	448573	492529	584141	508414	13.60	cps
Sodium	23-2	2353389	2339352	2363806	2352182	0.52	cps
Strontium	86-1	347019	348817	351392	349076	0.63	cps
Strontium	88-1	3225570	3174155	3214323	3204683	0.84	cps
Sulfur	34-1	237205	235494	236239	236313	0.36	cps
Terbium	159-1	12316877	12175063	12103839	12198593	0.89	cps
Terbium	159-2	3753218	3813074	3858914	3808402	1.39	cps
Thallium	203-1	889373	892246	903341	894987	0.82	cps
Thallium	205-1	2279431	2284228	2307118	2290259	0.65	cps
Tin	118-1	651972	659044	660885	657300	0.72	cps
Titanium	47-1	1776443	1750539	1767790	1764924	0.75	cps
Uranium	238-1	3838167	3874300	3841935	3851467	0.52	cps

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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:56:44	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	136284	136887	136284	136485	0.25	cps
Ytterbium	172-1	4901	4664	4734	4766	2.55	cps
Ytterbium	172-2	1920	1867	1877	1888	1.50	cps
Ytterbium	176-1	9287	9577	9267	9377	1.85	cps
Ytterbium	176-2	3084	2954	3064	3034	2.31	cps
Yttrium	89-1	16689906	16521241	16523955	16578367	0.58	cps
Yttrium	89-2	993549	1011503	1008099	1004384	0.95	cps
Zinc	66-2	243830	244972	244537	244446	0.24	cps
Zirconium	90-1	1783069	1786625	1785359	1785018	0.10	cps
Zirconium	91-1	368897	372003	375048	371983	0.83	cps

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	198298	200235	199183	199239	0.49	cps
Antimony	121-1	840522	853019	851098	848213	0.79	cps
Arsenic	75-2	133	113	103	117	13.10	cps
Barium	135-1	1031101	1036268	1038236	1035202	0.36	cps
Barium	137-1	1905505	1899953	1896563	1900674	0.24	cps
Beryllium	9-1	290978	291824	292930	291911	0.34	cps
Bismuth	209-1	7264693	7483241	7566755	7438229	2.10	cps
Bismuth	209-2	2838952	2901753	2806350	2849018	1.70	cps
Bromine	81-1	5675	5918	6251	5948	4.87	cps
Cadmium	108-1	19013	18716	18873	18867	0.79	cps
Cadmium	106-1	30414	30791	30246	30484	0.92	cps
Cadmium	111-1	207496	208785	210601	208961	0.75	cps
Calcium	43-1	302082	305585	308557	305408	1.06	cps
Calcium	44-1	5084540	5042285	5135258	5087361	0.92	cps
Carbon	12-1	1958210	2032462	2033469	2008047	2.15	cps
Carbon	12-2	14287	14344	14430	14354	0.50	cps
Chlorine	35-1	5820928	6380960	6595158	6265682	6.38	cps
Chlorine	35-2	24080	23669	24010	23920	0.92	cps
Chromium	52-2	169636	168826	169095	169186	0.24	cps
Cobalt	59-2	299126	300712	300920	300252	0.33	cps
Copper	63-2	2476957	2457601	2457114	2463891	0.46	cps
Dysprosium	156-1	19534	20028	19818	19794	1.25	cps
Dysprosium	156-2	5701	5735	5675	5703	0.53	cps
Erbium	164-1	17248	17144	17325	17239	0.52	cps
Erbium	164-2	5725	5591	5581	5632	1.42	cps
Gadolinium	160-1	17468	17462	17685	17538	0.73	cps
Gadolinium	160-2	6752	6822	6785	6786	0.52	cps
Holmium	165-1	11605382	12187165	12100366	11964305	2.62	cps
Holmium	165-2	3973557	3954513	3942765	3956945	0.39	cps
Indium	115-1	8878493	9275803	9288328	9147541	2.55	cps
Indium	115-2	794951	798276	792410	795213	0.37	cps
Iron	54-2	680784	678944	679781	679836	0.14	cps
Iron	56-2	13219770	13126694	13016921	13121128	0.77	cps
Iron	57-2	316425	315963	316655	316348	0.11	cps
Krypton	83-1	133	197	167	166	19.13	cps
Lead	206-1	4017411	3994670	4000709	4004263	0.29	cps

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Inst Id :P8
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LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3429015	3465642	3427692	3440783	0.63	cps
Lead	208-1	15667009	15695832	15789070	15717304	0.41	cps
Lithium	6-1	4738124	4766785	4924486	4809798	2.09	cps
Magnesium	24-2	1225213	1202001	1232541	1219918	1.31	cps
Manganese	55-2	698640	694275	695264	696060	0.33	cps
Molybdenum	94-1	4881129	4902933	4781278	4855113	1.34	cps
Molybdenum	95-1	7415944	7495135	7342838	7417972	1.03	cps
Molybdenum	96-1	7917909	7996225	8066629	7993588	0.93	cps
Molybdenum	97-1	4543145	4584897	4616036	4581359	0.80	cps
Molybdenum	98-1	11856784	12116466	12022846	11998698	1.10	cps
Neodymium	150-1	24950	25424	25127	25167	0.95	cps
Neodymium	150-2	5648	5728	5941	5772	2.63	cps
Nickel	60-2	82396	82538	82437	82457	0.09	cps
Phosphorus	31-2	120	113	157	130	17.95	cps
Potassium	39-2	307446	308665	307807	307973	0.20	cps
Rhodium	103-1	8021304	8266175	8408058	8231846	2.38	cps
Rhodium	103-2	3036842	2998563	3019374	3018260	0.63	cps
Scandium	45-1	6236661	6489005	6432038	6385901	2.07	cps
Scandium	45-2	101163	101773	99669	100868	1.07	cps
Selenium	82-1	13700	13687	13577	13655	0.50	cps
Selenium	77-2	277	210	213	233	16.10	cps
Selenium	78-2	717	613	733	688	9.45	cps
Silicon	28-1	6811717	6743538	6895846	6817034	1.12	cps
Silver	107-1	421868	665827	424616	504104	27.78	cps
Silver	109-1	409375	559961	564893	511409	17.29	cps
Sodium	23-2	2380258	2333956	2349623	2354612	1.00	cps
Strontium	86-1	354817	354197	355279	354764	0.15	cps
Strontium	88-1	3242475	3298261	3272078	3270938	0.85	cps
Sulfur	34-1	237042	236768	237716	237175	0.21	cps
Terbium	159-1	11777219	12119723	12453813	12116918	2.79	cps
Terbium	159-2	3826687	3838530	3805829	3823682	0.43	cps
Thallium	203-1	892370	887044	908609	896008	1.25	cps
Thallium	205-1	2250026	2245569	2273862	2256486	0.67	cps
Tin	118-1	656934	664465	669205	663535	0.93	cps
Titanium	47-1	1777731	1763578	1772562	1771290	0.40	cps
Uranium	238-1	3877354	3891613	3914520	3894495	0.48	cps

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Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 19:59:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	137368	135985	135514	136289	0.71	cps
Ytterbium	172-1	4534	4758	5151	4814	6.49	cps
Ytterbium	172-2	1730	1843	1827	1800	3.40	cps
Ytterbium	176-1	9263	9600	9680	9515	2.33	cps
Ytterbium	176-2	2994	2900	2984	2959	1.73	cps
Yttrium	89-1	16266296	16856777	16986807	16703293	2.30	cps
Yttrium	89-2	1015942	1018845	1011182	1015323	0.38	cps
Zinc	66-2	245027	243741	245399	244722	0.36	cps
Zirconium	90-1	1774796	1804027	1804977	1794600	0.96	cps
Zirconium	91-1	370810	374112	376473	373798	0.76	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	203465	203597	201732	202931	0.51	cps
Antimony	121-1	844345	853211	868422	855326	1.42	cps
Arsenic	75-2	100	117	120	112	9.55	cps
Barium	135-1	1038402	1039951	1056964	1045106	0.99	cps
Barium	137-1	1906981	1882064	1879961	1889669	0.80	cps
Beryllium	9-1	291275	290784	293318	291792	0.46	cps
Bismuth	209-1	7528017	7711854	7597244	7612372	1.22	cps
Bismuth	209-2	2823163	2913323	2900531	2879006	1.69	cps
Bromine	81-1	6085	5868	6191	6048	2.73	cps
Cadmium	108-1	18659	18906	19113	18893	1.20	cps
Cadmium	106-1	31389	30864	31309	31187	0.91	cps
Cadmium	111-1	206651	212036	211207	209964	1.38	cps
Calcium	43-1	305694	310360	311381	309145	0.98	cps
Calcium	44-1	5093821	5108447	5123961	5108743	0.30	cps
Carbon	12-1	2049014	2113412	2137563	2099996	2.18	cps
Carbon	12-2	15128	14928	15458	15171	1.77	cps
Chlorine	35-1	5618257	6245950	6526221	6130143	7.58	cps
Chlorine	35-2	24264	24684	23863	24270	1.69	cps
Chromium	52-2	170054	169106	169410	169523	0.29	cps
Cobalt	59-2	301830	302149	303235	302404	0.24	cps
Copper	63-2	2483386	2476054	2464725	2474722	0.38	cps
Dysprosium	156-1	19548	19978	20593	20040	2.62	cps
Dysprosium	156-2	5611	5838	5738	5729	1.98	cps
Erbium	164-1	16417	17325	17361	17034	3.14	cps
Erbium	164-2	5598	5541	5501	5547	0.88	cps
Gadolinium	160-1	17078	17134	18002	17405	2.98	cps
Gadolinium	160-2	6708	6852	6852	6804	1.22	cps
Holmium	165-1	12102754	12088851	12136952	12109519	0.20	cps
Holmium	165-2	3948159	4079880	4010242	4012760	1.64	cps
Indium	115-1	9341908	9451189	9341249	9378115	0.67	cps
Indium	115-2	792777	808821	808252	803283	1.13	cps
Iron	54-2	681602	686563	687754	685306	0.48	cps
Iron	56-2	13075360	13189196	13202436	13155664	0.53	cps
Iron	57-2	316355	319917	318839	318370	0.57	cps
Krypton	83-1	103	163	153	140	22.96	cps
Lead	206-1	3956111	4031418	4028822	4005450	1.07	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3483052	3467315	3516995	3489120	0.73	cps
Lead	208-1	15828021	15855697	15968471	15884063	0.47	cps
Lithium	6-1	4938780	4903004	4885559	4909114	0.55	cps
Magnesium	24-2	1249813	1226042	1230807	1235554	1.02	cps
Manganese	55-2	702596	697266	706883	702248	0.69	cps
Molybdenum	94-1	4977308	4909533	4902998	4929946	0.83	cps
Molybdenum	95-1	7480249	7529586	7506635	7505490	0.33	cps
Molybdenum	96-1	8052236	8134878	8112375	8099829	0.53	cps
Molybdenum	97-1	4704804	4662809	4650019	4672544	0.61	cps
Molybdenum	98-1	12237729	12098487	12117736	12151317	0.62	cps
Neodymium	150-1	25013	25721	26192	25642	2.31	cps
Neodymium	150-2	5911	5758	5811	5827	1.34	cps
Nickel	60-2	83832	83516	83751	83700	0.20	cps
Phosphorus	31-2	140	107	127	124	13.48	cps
Potassium	39-2	312101	311897	310487	311495	0.28	cps
Rhodium	103-1	8579554	8446083	8553642	8526426	0.83	cps
Rhodium	103-2	3004006	3067332	3072477	3047938	1.25	cps
Scandium	45-1	6510618	6640397	6510576	6553864	1.14	cps
Scandium	45-2	99947	103848	102452	102082	1.94	cps
Selenium	82-1	13633	13200	14084	13639	3.24	cps
Selenium	77-2	290	190	213	231	22.64	cps
Selenium	78-2	733	733	707	724	2.12	cps
Silicon	28-1	6821015	7317340	6867718	7002025	3.91	cps
Silver	107-1	1130798	1456970	1193030	1260266	13.74	cps
Silver	109-1	1090274	1105180	1077340	1090931	1.28	cps
Sodium	23-2	2427223	2393402	2352013	2390880	1.58	cps
Strontium	86-1	351607	360368	355128	355701	1.24	cps
Strontium	88-1	3317653	3284094	3314131	3305293	0.56	cps
Sulfur	34-1	237564	238587	238241	238130	0.22	cps
Terbium	159-1	12289678	12536715	12476842	12434412	1.04	cps
Terbium	159-2	3841432	3949044	3939901	3910126	1.53	cps
Thallium	203-1	892625	898364	905684	898891	0.73	cps
Thallium	205-1	2282081	2309834	2329964	2307293	1.04	cps
Tin	118-1	659528	668902	677828	668753	1.37	cps
Titanium	47-1	1761662	1802444	1761428	1775178	1.33	cps
Uranium	238-1	3926759	3984189	3912243	3941064	0.97	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	Q1079-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-SB04D-R-10-01	Dilution Factor :	5
Date & Time Acquired :	2025-01-27 20:03:54	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	136799	136705	137627	137044	0.37	cps
Ytterbium	172-1	4621	4914	4984	4840	3.98	cps
Ytterbium	172-2	1867	1813	1917	1866	2.77	cps
Ytterbium	176-1	9570	9370	9574	9505	1.23	cps
Ytterbium	176-2	2930	2820	3000	2917	3.11	cps
Yttrium	89-1	17083137	17210371	17155043	17149517	0.37	cps
Yttrium	89-2	1009509	1036517	1033590	1026539	1.44	cps
Zinc	66-2	246293	247011	247806	247037	0.31	cps
Zirconium	90-1	1787986	1823984	1819967	1810646	1.09	cps
Zirconium	91-1	373847	378909	377596	376784	0.70	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1888761	1929943	1899383	1906029	1.12	cps
Antimony	121-1	4786301	4874246	4826515	4829021	0.91	cps
Arsenic	75-2	73688	74120	73715	73841	0.33	cps
Barium	135-1	6204531	6204459	6278300	6229097	0.68	cps
Barium	137-1	10679072	10712910	10744865	10712283	0.31	cps
Beryllium	9-1	1631102	1626531	1641487	1633040	0.47	cps
Bismuth	209-1	6248842	6520082	6377973	6382299	2.13	cps
Bismuth	209-2	2435169	2438453	2438748	2437457	0.08	cps
Bromine	81-1	5651	5354	5508	5504	2.70	cps
Cadmium	108-1	90967	91924	92856	91916	1.03	cps
Cadmium	106-1	135891	134164	135608	135221	0.68	cps
Cadmium	111-1	1071050	1075543	1070336	1072309	0.26	cps
Calcium	43-1	8764003	8794482	8588673	8715719	1.27	cps
Calcium	44-1	140467001	140058281	139766715	140097332	0.25	cps
Carbon	12-1	2085975	2138843	2146219	2123679	1.55	cps
Carbon	12-2	16059	17140	16923	16707	3.42	cps
Chlorine	35-1	516924	488387	461494	488935	5.67	cps
Chlorine	35-2	1403	1487	1480	1457	3.18	cps
Chromium	52-2	858126	859550	847897	855191	0.74	cps
Cobalt	59-2	1664750	1681304	1668399	1671485	0.52	cps
Copper	63-2	11753393	11685037	11651102	11696511	0.45	cps
Dysprosium	156-1	400	423	447	423	5.51	cps
Dysprosium	156-2	87	70	70	76	12.74	cps
Erbium	164-1	250	367	283	300	20.03	cps
Erbium	164-2	77	100	77	84	15.95	cps
Gadolinium	160-1	250	273	213	246	12.32	cps
Gadolinium	160-2	107	110	80	99	16.63	cps
Holmium	165-1	11047053	11500549	11191264	11246289	2.06	cps
Holmium	165-2	3752655	3790411	3708767	3750611	1.09	cps
Indium	115-1	7954570	8292080	8098848	8115166	2.09	cps
Indium	115-2	710074	714816	704585	709825	0.72	cps
Iron	54-2	8940691	8990912	8968646	8966750	0.28	cps
Iron	56-2	165649791	165714641	166826598	166063676	0.40	cps
Iron	57-2	4231183	4204759	4249721	4228554	0.53	cps
Krypton	83-1	183	150	177	170	10.38	cps
Lead	206-1	20076453	19880473	20111786	20022904	0.62	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17326441	17094772	17247915	17223043	0.68	cps
Lead	208-1	79460225	78825225	79218580	79168010	0.40	cps
Lithium	6-1	4262046	4346369	4420488	4342967	1.83	cps
Magnesium	24-2	32527085	32097869	31966101	32197018	0.91	cps
Manganese	55-2	3873792	3904726	3843048	3873856	0.80	cps
Molybdenum	94-1	17518811	17388502	17355099	17420804	0.50	cps
Molybdenum	95-1	25075440	25152342	25205098	25144294	0.26	cps
Molybdenum	96-1	27383882	27184449	27370559	27312963	0.41	cps
Molybdenum	97-1	15478848	15444605	15427036	15450163	0.17	cps
Molybdenum	98-1	40671965	40334466	40408658	40471696	0.44	cps
Neodymium	150-1	727	807	823	786	6.58	cps
Neodymium	150-2	37	37	33	36	5.42	cps
Nickel	60-2	415227	413644	409847	412906	0.67	cps
Phosphorus	31-2	15829	15308	15302	15479	1.95	cps
Potassium	39-2	9067785	9089802	8938941	9032176	0.90	cps
Rhodium	103-1	6900146	7169035	7022164	7030449	1.92	cps
Rhodium	103-2	2532743	2589960	2546361	2556355	1.17	cps
Scandium	45-1	5748014	5980443	5951868	5893442	2.15	cps
Scandium	45-2	94293	93602	94136	94010	0.39	cps
Selenium	82-1	70969	71502	71408	71293	0.40	cps
Selenium	77-2	980	1033	970	994	3.42	cps
Selenium	78-2	3601	3554	3487	3547	1.61	cps
Silicon	28-1	24472530	24473008	24726195	24557244	0.60	cps
Silver	107-1	5934159	5916923	5927707	5926263	0.15	cps
Silver	109-1	5632605	5678637	5570440	5627227	0.96	cps
Sodium	23-2	64643089	64753112	64793752	64729985	0.12	cps
Strontium	86-1	1782427	1806846	1772952	1787408	0.98	cps
Strontium	88-1	15271491	15213118	15272876	15252495	0.22	cps
Sulfur	34-1	780972	782305	784199	782492	0.21	cps
Terbium	159-1	11221622	11522131	11353771	11365841	1.33	cps
Terbium	159-2	3602522	3560003	3562813	3575112	0.67	cps
Thallium	203-1	5144352	5124005	5100706	5123021	0.43	cps
Thallium	205-1	12170212	12287169	12202642	12220008	0.49	cps
Tin	118-1	4175684	4187681	4119816	4161061	0.87	cps
Titanium	47-1	7625441	7550210	7541234	7572295	0.61	cps
Uranium	238-1	20541969	20500884	20425650	20489501	0.29	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCV06	Instrumnet Name :	P8
Client Sample ID :	CCV06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:06:57	DataFile Name :	085CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	673484	677242	672538	674422	0.37	cps
Ytterbium	172-1	280	293	333	302	9.18	cps
Ytterbium	172-2	103	120	97	107	11.27	cps
Ytterbium	176-1	24419	24583	25147	24717	1.55	cps
Ytterbium	176-2	7626	7846	7499	7657	2.29	cps
Yttrium	89-1	14981538	15482053	15389884	15284492	1.74	cps
Yttrium	89-2	947502	942565	940037	943368	0.40	cps
Zinc	66-2	1192323	1195139	1190071	1192511	0.21	cps
Zirconium	90-1	8825203	8765220	8713664	8768029	0.64	cps
Zirconium	91-1	1943255	1974571	1981467	1966431	1.04	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100	93	83	92	9.10	cps
Antimony	121-1	1417	1360	1153	1310	10.58	cps
Arsenic	75-2	7	0	10	6	91.64	cps
Barium	135-1	1073	967	877	972	10.13	cps
Barium	137-1	1710	1487	1500	1566	8.00	cps
Beryllium	9-1	900	839	735	825	10.12	cps
Bismuth	209-1	7722916	7586182	7603127	7637408	0.98	cps
Bismuth	209-2	2633500	2888822	2882396	2801573	5.20	cps
Bromine	81-1	5328	5354	5571	5418	2.46	cps
Cadmium	108-1	63	70	90	74	18.64	cps
Cadmium	106-1	5354	5034	4974	5121	3.99	cps
Cadmium	111-1	1187	1088	1062	1112	5.92	cps
Calcium	43-1	637	593	600	610	3.83	cps
Calcium	44-1	10467	8863	8803	9378	10.07	cps
Carbon	12-1	1546957	1462273	1445646	1484959	3.66	cps
Carbon	12-2	10030	9680	9537	9749	2.60	cps
Chlorine	35-1	305267	295483	283520	294757	3.70	cps
Chlorine	35-2	860	897	983	913	6.93	cps
Chromium	52-2	450	530	480	487	8.31	cps
Cobalt	59-2	270	157	220	216	26.35	cps
Copper	63-2	2180	1917	2074	2057	6.44	cps
Dysprosium	156-1	80	77	100	86	14.75	cps
Dysprosium	156-2	3	0	10	4	114.60	cps
Erbium	164-1	60	47	33	47	28.58	cps
Erbium	164-2	7	23	17	16	53.90	cps
Gadolinium	160-1	27	53	30	37	39.62	cps
Gadolinium	160-2	13	7	3	8	65.47	cps
Holmium	165-1	12056747	11844931	11661509	11854396	1.67	cps
Holmium	165-2	3581590	4022359	3946884	3850278	6.12	cps
Indium	115-1	9448157	9379360	9319015	9382177	0.69	cps
Indium	115-2	727695	796824	790080	771533	4.94	cps
Iron	54-2	657	650	633	647	1.86	cps
Iron	56-2	11448	10841	16393	12894	23.62	cps
Iron	57-2	327	300	250	292	13.32	cps
Krypton	83-1	150	140	133	141	5.94	cps
Lead	206-1	2830	2634	2444	2636	7.34	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2320	2094	2060	2158	6.56	cps
Lead	208-1	11329	10188	9548	10355	8.71	cps
Lithium	6-1	4874573	4832724	4752053	4819783	1.29	cps
Magnesium	24-2	1347	1127	1020	1165	14.31	cps
Manganese	55-2	590	480	487	519	11.89	cps
Molybdenum	94-1	1313	1043	1060	1139	13.29	cps
Molybdenum	95-1	1667	1363	1317	1449	13.12	cps
Molybdenum	96-1	1984	1617	1483	1695	15.28	cps
Molybdenum	97-1	1133	750	827	903	22.46	cps
Molybdenum	98-1	2667	2160	2054	2294	14.29	cps
Neodymium	150-1	60	67	53	60	11.12	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	753	760	753	756	0.51	cps
Phosphorus	31-2	17	37	33	29	37.08	cps
Potassium	39-2	4864	4774	4734	4791	1.39	cps
Rhodium	103-1	8603589	8358388	8236422	8399467	2.23	cps
Rhodium	103-2	2817777	3056410	2988201	2954129	4.16	cps
Scandium	45-1	6378004	6373668	6247987	6333219	1.17	cps
Scandium	45-2	89417	98256	98336	95337	5.38	cps
Selenium	82-1	-43	-17	-10	-23	-75.60	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	241234	235540	234069	236948	1.60	cps
Silver	107-1	1370	1090	1037	1166	15.36	cps
Silver	109-1	1230	950	940	1040	15.83	cps
Sodium	23-2	19186	18215	17931	18444	3.57	cps
Strontium	86-1	300	287	330	306	7.26	cps
Strontium	88-1	1123	993	853	990	13.64	cps
Sulfur	34-1	234773	237052	235014	235613	0.53	cps
Terbium	159-1	12228028	12027845	11945161	12067012	1.21	cps
Terbium	159-2	3506717	3800428	3774350	3693832	4.40	cps
Thallium	203-1	980	943	853	926	7.04	cps
Thallium	205-1	2244	2130	1970	2115	6.50	cps
Tin	118-1	1747	1607	1460	1605	8.94	cps
Titanium	47-1	387	350	357	364	5.36	cps
Uranium	238-1	1407	1140	1277	1274	10.46	cps

Reviewed By:Mohan
On:1/28/2025 9:06:39 AM
Inst Id :P8
LB :LB134439

LB Number :	LB134439	Operator :	Jaswal
Lab Sample ID :	CCB06	Instrumnet Name :	P8
Client Sample ID :	CCB06	Dilution Factor :	1
Date & Time Acquired :	2025-01-27 20:09:50	DataFile Name :	086CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	50	23	33	36	37.90	cps
Ytterbium	172-1	57	83	60	67	21.79	cps
Ytterbium	172-2	13	30	27	23	37.81	cps
Ytterbium	176-1	1487	1620	1640	1582	5.27	cps
Ytterbium	176-2	210	183	157	183	14.54	cps
Yttrium	89-1	16977054	16555353	16449549	16660652	1.68	cps
Yttrium	89-2	899165	986087	983391	956215	5.17	cps
Zinc	66-2	267	283	277	276	3.04	cps
Zirconium	90-1	1150	1110	1043	1101	4.89	cps
Zirconium	91-1	257	240	207	234	10.86	cps

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166110

SOP ID : M7470A-Mercury-19

SDG No : N/A

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: 01/16/2025 **Time :** 14:40 **Temp :** 94 °C

End Digest Date: 01/16/2025 **Time :** 16:40 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84083
CCV	30mL	MP84085
CRA	30mL	MP84087
Blank Spike	0.48mL	MP84075
Matrix Spike	0.48mL	MP84075

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP83691
KMnO4 (5%)	4.5mL	MP83692
K2S2O8 (5%)	2.5mL	MP83693
Hydroxylamine HCL (12%)	2.0mL	MP83694
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	MP84076
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84078
2.5 ppb	S2.5	30mL	MP84079
5.0 ppb	S5.0	30mL	MP84080
7.5 ppb	S7.5	30mL	MP84081
10.0 ppb	S10.0	30mL	MP84082
ICV	ICV	30mL	MP84083
ICB	ICB	30mL	MP84084
CCV	CCV	30mL	MP84085
CCB	CCB	30mL	MP84086
CRI	CRI	30mL	MP84087
CHK STD	CHK STD	30mL	MP84088

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
1/16/2025 17:10	MB - Dig - Lab	MB - Metals Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166110

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166110BL	PBW110	30	30	<2	N/A	3-1
PB166110BS	LCS110	30	30	<2	MP84075	2
Q1092-01DUP	427DUP	30	30	<2	N/A	4
Q1092-01MS	427MS	30	30	<2	MP84075	5
Q1092-01MSD	427MSD	30	30	<2	MP84075	6
Q1092-01	427	30	30	<2	N/A	3
Q1094-03	3181	30	30	<2	N/A	7
Q1109-01	TAPIAL1-MW04I-011525-00-T3	30	30	<2	N/A	8
Q1109-02	TAPIAL1-MW04S-011525-00-T2	30	30	<2	N/A	9

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 011625_7470 **WorkList ID :** 186943 **Department :** Digestion **Date :** 01-16-2025 09:46:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	M11	01/15/2025	7470A
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	M11	01/15/2025	7470A
Q1092-01	427	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	M11	01/15/2025	7470A
Q1094-03	3181	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	N41	01/15/2025	7470A
					PSEG03	N41	01/15/2025	7470A

Date/Time 1/16/24 @ 14:20

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 1/16/24 @ 14:50

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166173

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 01/22/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 01/22/2025 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP84093
Spike Sol 2	1.00	MP84094
Spike Sol 3	1.00	MP84095
Spike Sol 4	1.00	MP84096
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6126
1:1 HCL	5.00	MP83499
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #50: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/22/25 13:10	SLG. met digestion	Mandi Cash
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166173

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166173BL	PBW173	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	8
PB166173BS	LCS173	<2	50	50	Colorless	Colorless	Clear	Clear	MP84093,MP84094,MP84095,M	9
Q1109-01	TAPIAL1-MW04I-011525-00 T3	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	10
Q1109-02	TAPIAL1-MW04S-011525-00 T2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	11
Q1109-02MS	TAPIAL1-MW04S-011525-00 T2MS	<2	50	50	Colorless	Colorless	Clear	Clear	MP84093,MP84094,MP84095,M	13
Q1109-02MSD	TAPIAL1-MW04S-011525-00 T2MSD	<2	50	50	Colorless	Colorless	Clear	Clear	MP84093,MP84094,MP84095,M	14
Q1109-02DUP	TAPIAL1-MW04S-011525-00 T2DUP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166173 **WorkList ID :** 187056 **Department :** Digestion **Date :** 01-22-2025 09:13:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1109-01	TAPIAL1-MW04I-011525-00-T3	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	WEST04	M11	01/15/2025	6020B
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	WEST04	M11	01/15/2025	6020B

Date/Time 01/22/25 9:35
Raw Sample Received by: SKD. met.div.
Raw Sample Relinquished by: J.C (SM)

Date/Time 01/22/25 10:35
Raw Sample Received by: J.C (SM)
Raw Sample Relinquished by: SKD. met.div.

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134324

Review By	jaswal	Review On	1/17/2025 7:45:29 PM
Supervise By	mohan	Supervise On	1/17/2025 7:46:34 PM

STD. NAME	STD REF.#
ICAL Standard	MP84076,MP84078,MP84079,MP84080,MP84081,MP84082
ICV Standard	MP84083
CCV Standard	MP84085
ICSA Standard	
CRI Standard	MP84087
LCS Standard	
Chk Standard	MP84084,MP84086,MP84088,MP84114

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/17/25 11:31		Mohan	OK
2	S0.2	S0.2	CAL2	01/17/25 11:34		Mohan	OK
3	S2.5	S2.5	CAL3	01/17/25 11:36		Mohan	OK
4	S5	S5	CAL4	01/17/25 11:38		Mohan	OK
5	S7.5	S7.5	CAL5	01/17/25 11:48		Mohan	OK
6	S10	S10	CAL6	01/17/25 11:51		Mohan	OK
7	ICV60	ICV60	ICV	01/17/25 11:58		Mohan	OK
8	ICB60	ICB60	ICB	01/17/25 12:00		Mohan	OK
9	CCV44	CCV44	CCV	01/17/25 12:03		Mohan	OK
10	CCB44	CCB44	CCB	01/17/25 12:05		Mohan	OK
11	CRA	CRA	CRDL	01/17/25 12:07		Mohan	OK
12	HighStd	HighStd	HIGH STD	01/17/25 12:09		Mohan	OK
13	ChkStd	ChkStd	SAM	01/17/25 12:12		Mohan	OK
14	PB166110BL	PB166110BL	MB	01/17/25 12:17		Mohan	OK
15	PB166110BS	PB166110BS	LCS	01/17/25 12:19		Mohan	OK
16	Q1092-01	427	SAM	01/17/25 12:21		Mohan	OK
17	Q1092-01DUP	427DUP	DUP	01/17/25 12:23		Mohan	OK
18	Q1092-01MS	427MS	MS	01/17/25 12:26		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134324

Review By	jaswal	Review On	1/17/2025 7:45:29 PM
Supervise By	mohan	Supervise On	1/17/2025 7:46:34 PM

STD. NAME	STD REF.#
ICAL Standard	MP84076,MP84078,MP84079,MP84080,MP84081,MP84082
ICV Standard	MP84083
CCV Standard	MP84085
ICSA Standard	
CRI Standard	MP84087
LCS Standard	
Chk Standard	MP84084,MP84086,MP84088,MP84114

19	Q1092-01MSD	427MSD	MSD	01/17/25 12:31		Mohan	OK
20	Q1094-03	3181	SAM	01/17/25 12:33		Mohan	OK
21	CCV45	CCV45	CCV	01/17/25 12:35		Mohan	OK
22	CCB45	CCB45	CCB	01/17/25 12:38		Mohan	OK
23	Q1109-01	TAPIAL1-MW04I-0115	SAM	01/17/25 12:40		Mohan	OK
24	Q1109-02	TAPIAL1-MW04S-011	SAM	01/17/25 12:42		Mohan	OK
25	Q1092-01L	427L	SD	01/17/25 12:44		Mohan	OK
26	Q1092-01A	427A	PS	01/17/25 12:47		Mohan	OK
27	CCV46	CCV46	CCV	01/17/25 12:49		Mohan	OK
28	CCB46	CCB46	CCB	01/17/25 12:51		Mohan	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134439

Review By	Jaswal	Review On	1/28/2025 9:05:47 AM
Supervise By	Mohan	Supervise On	1/28/2025 9:06:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84049
LCS Standard	
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	01/27/25 12:48		Jaswal	OK
2	S0	S0	CAL1	01/27/25 13:20		Jaswal	OK
3	S2	S2	CAL3	01/27/25 13:26		Jaswal	OK
4	S3	S3	CAL4	01/27/25 13:30		Jaswal	OK
5	S4	S4	CAL5	01/27/25 13:33		Jaswal	OK
6	S5	S5	CAL6	01/27/25 13:36		Jaswal	OK
7	S6	S6	CAL7	01/27/25 13:39		Jaswal	OK
8	S7	S7	CAL8	01/27/25 13:42		Jaswal	OK
9	S8	S8	CAL9	01/27/25 13:45		Jaswal	OK
10	ICV01	ICV01	ICV	01/27/25 15:30		Jaswal	OK
11	LLICV	LLICV	LLICV	01/27/25 15:35		Jaswal	OK
12	ICB01	ICB01	ICB	01/27/25 15:38		Jaswal	OK
13	ICSA01	ICSA01	ICSA	01/27/25 15:41		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	01/27/25 15:45		Jaswal	OK
15	CCV01	CCV01	CCV	01/27/25 15:48		Jaswal	OK
16	CCB01	CCB01	CCB	01/27/25 15:51		Jaswal	OK
17	CRI	CRI	CRDL	01/27/25 15:54		Jaswal	OK
18	P4368-01	LOD-MDL-SOIL-01-Q	SAM	01/27/25 15:57	Not Use	Jaswal	Not Ok

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134439

Review By	Jaswal	Review On	1/28/2025 9:05:47 AM
Supervise By	Mohan	Supervise On	1/28/2025 9:06:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84049
LCS Standard	
Chk Standard	MP84057,MP84056

19	P4368-03	MDL-SOIL-03-QT4-20	SAM	01/27/25 16:01	Not Use	Jaswal	Not Ok
20	P4368-07	LOD-MDL-WATER-01	SAM	01/27/25 16:04	Not Use	Jaswal	Not Ok
21	P4368-10	LOD-MDL-WATER-04	SAM	01/27/25 16:11	Not Use	Jaswal	Not Ok
22	P4368-09	MDL-WATER-03-QT4	SAM	01/27/25 16:14	Not Use	Jaswal	Not Ok
23	P4368-12	MDL-WATER-06-QT4	SAM	01/27/25 16:18	Not Use	Jaswal	Not Ok
24	P3391-02	MDL-WATER-QT3-20	SAM	01/27/25 16:25	Not Use	Jaswal	Not Ok
25	CCV02	CCV02	CCV	01/27/25 16:28		Jaswal	OK
26	CCB02	CCB02	CCB	01/27/25 16:31		Jaswal	OK
27	P3391-04	MDL-SOIL-QT3-2024	SAM	01/27/25 16:34	Not Use	Jaswal	Not Ok
28	PBW	PBW	SAM	01/27/25 16:38	Not Use	Jaswal	Not Ok
29	LCSW	LCSW	SAM	01/27/25 16:46	Not Use	Jaswal	Not Ok
30	P4776-02	MDL-WATER-QT4-20	SAM	01/27/25 17:49	Not Use	Jaswal	Not Ok
31	P4776-04	MDL-SOIL-QT4-2024	SAM	01/27/25 17:52	Not Use	Jaswal	Not Ok
32	PBS	PBS	LCS	01/27/25 17:58		Jaswal	Not Ok
33	LCSS	LCSS	SAM	01/27/25 18:01	Not Use	Jaswal	Not Ok
34	PBS 6020	PBS 6020	SAM	01/27/25 18:04		Jaswal	Not Ok
35	LCSS 6020-01	LCSS 6020-01	SAM	01/27/25 18:08	Not Use	Jaswal	Not Ok
36	PBW 6020	PBW 6020	SAM	01/27/25 18:16	Not Use	Jaswal	Not Ok
37	CCV03	CCV03	CCV	01/27/25 18:29		Jaswal	OK
38	CCB03	CCB03	CCB	01/27/25 18:35		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134439

Review By	Jaswal	Review On	1/28/2025 9:05:47 AM
Supervise By	Mohan	Supervise On	1/28/2025 9:06:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84049
LCS Standard	
Chk Standard	MP84057,MP84056

39	LCSS 6020	LCSS 6020	SAM	01/27/25 18:39	Not Use	Jaswal	Not Ok
40	PBW 200.8	PBW 200.8	SAM	01/27/25 18:45	Not Use	Jaswal	Not Ok
41	LCSW 200.8	LCSW 200.8	SAM	01/27/25 18:48	Not Use	Jaswal	Not Ok
42	CCV04	CCV04	CCV	01/27/25 18:51		Jaswal	OK
43	CCB04	CCB04	CCB	01/27/25 18:58		Jaswal	OK
44	PB166173BL	PB166173BL	MB	01/27/25 19:01		Jaswal	OK
45	PB166173BS	PB166173BS	LCS	01/27/25 19:04		Jaswal	OK
46	Q1109-01	TAPIAL1-MW04I-0115	SAM	01/27/25 19:07		Jaswal	OK
47	Q1109-02	TAPIAL1-MW04S-011	SAM	01/27/25 19:10		Jaswal	OK
48	Q1109-02DUP	TAPIAL1-MW04S-011	DUP	01/27/25 19:14		Jaswal	OK
49	Q1109-02L	TAPIAL1-MW04S-011	SD	01/27/25 19:17		Jaswal	OK
50	Q1109-02MS	TAPIAL1-MW04S-011	MS	01/27/25 19:20		Jaswal	OK
51	Q1109-02MSD	TAPIAL1-MW04S-011	MSD	01/27/25 19:24		Jaswal	OK
52	Q1109-02A	TAPIAL1-MW04S-011	PS	01/27/25 19:27		Jaswal	OK
53	CCV05	CCV05	CCV	01/27/25 19:30		Jaswal	OK
54	CCB05	CCB05	CCB	01/27/25 19:34		Jaswal	OK
55	PB166152BL	PB166152BL	MB	01/27/25 19:37		Jaswal	OK
56	PB166152BS	PB166152BS	LCS	01/27/25 19:43		Jaswal	OK
57	Q1079-01DL	TAPIAL3-SB04D-R-10	SAM	01/27/25 19:46		Jaswal	OK
58	Q1079-01DUPDL	TAPIAL3-SB04D-R-10	DUP	01/27/25 19:50		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134439

Review By	Jaswal	Review On	1/28/2025 9:05:47 AM
Supervise By	Mohan	Supervise On	1/28/2025 9:06:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84049
LCS Standard	
Chk Standard	MP84057,MP84056

59	Q1079-01LDL	TAPIAL3-SB04D-R-10	SD	01/27/25 19:53		Jaswal	OK
60	Q1079-01MSDL	TAPIAL3-SB04D-R-10	MS	01/27/25 19:56		Jaswal	OK
61	Q1079-01MSDDL	TAPIAL3-SB04D-R-10	MSD	01/27/25 19:59		Jaswal	OK
62	Q1079-01ADL	TAPIAL3-SB04D-R-10	PS	01/27/25 20:03		Jaswal	OK
63	CCV06	CCV06	CCV	01/27/25 20:06		Jaswal	OK
64	CCB06	CCB06	CCB	01/27/25 20:09		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1109

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB166110,PB166173,

Sequence ID/Qc Batch ID: LB134324,LB134439,

Standard ID :
MP83499,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP84051,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84075,MP84076,MP84078,MP84079,MP84080,MP84081,MP84082,MP84083,MP84084,MP84085,MP84086,MP84087,MP84088,MP84093,MP84094,MP84095,MP84096,MP84114,

Chemical ID :
M5062,M5288,M5295,M5298,M5304,M5472,M5476,M5496,M5497,M5498,M5513,M5516,M5519,M5532,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5817,M5819,M5873,M5874,M5882,M5960,M5961,M5962,M5976,M5977,M5978,M5981,M5983,M6021,M6023,M6025,M6028,M6030,M6032,M6055,M6121,M6126,M6127,M6128,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	MP83499	12/09/2024	01/30/2025	Eman Mughal	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84042	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84043	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M5496 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5298 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M6128 + 9.90000ml of M5497 + 9.90000ml of M5806 + 9.90000ml of M6127 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP84044	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84043 = 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
3949	S5(SFAM,6020,200.8)	MP84045	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84043 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP84046	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84043 = 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
3951	S3(SFAM, 6020,200.8)	MP84047	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84044 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP84048	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5298 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5806 + 2.50000ml of M6121 + 2.50000ml of M6127 + 225.25000ml of W3112 + 5.00000ml of M6126 = 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
3956	S2(SFAM,6020,200.8)	MP84049	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84048 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP84050	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84049 = 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
3958	ICV(SFAM)	MP84051	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M5295 + 98.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84052	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5298 + 12.45000ml of M5519 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M5806 + 24.95000ml of M6127 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M6128 + 4.95000ml of M5496 + 5.00000ml of M5976 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84053	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP84054	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84042 = 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
3962	MG 10PPM FOR TUNE	MP84055	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP84056	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84055 + 96.00000ml of MP84042 = 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
3903	ISS 3PPM	MP84057	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84042 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP84073	01/14/2025	01/31/2025	Janvi Patel	None	None	Mohan Bera 01/16/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5298 + 5.00000ml of M5497 + 5.00000ml of M5806 + 5.00000ml of M6127 + 79.00000ml of MP84042 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84075	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84076	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 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
1341	Hg 0.2 PPB STD	MP84078	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84079	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84075 = 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
1343	Hg 5.0 PPB STD	MP84080	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84081	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84075 = 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
1345	Hg 10.0 PPB STD	MP84082	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84083	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml 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
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84084	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84085	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84075 = 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
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84086	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP84087	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84075 = 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
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP84088	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3880	M&B SPIKE-1	MP84093	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 5.00000ml of M5472 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5802 + 5.00000ml of M5960 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M5983 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 30.00000ml of MP84042 = 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
3881	M&B SPIKE-2	MP84094	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 10.00000ml of M5977 + 12.50000ml of M5298 + 12.50000ml of M5519 + 12.50000ml of M6032 + 2.50000ml of M5799 + 5.00000ml of M5496 + 30.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3882	M&B SPIKE-3	MP84095	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 0.62500ml of M5513 + 12.50000ml of M5751 + 12.50000ml of M5819 + 12.50000ml of M6128 + 11.87500ml of MP84042 = 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
3900	M&B SPIKE-4	MP84096	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 6.25000ml of M5497 + 6.25000ml of M5516 + 6.25000ml of M6127 + 6.25000ml of MP84042 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84114	01/17/2025	01/18/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/17/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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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.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

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	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

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	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

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	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

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	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 / jaswal	03/30/2023 / mohan	M5532

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 #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

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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.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

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.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/03/2024 / kareem	06/11/2024 / kareem	M5960

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

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 #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

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	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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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.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

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.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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

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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.	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	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

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	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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

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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	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.

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Certified Reference Material CRM

M6032

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

					Lot #	
Part Number:	**57056**			**Solvent:**	24002546	Nitric Acid
Lot Number:	**010924**					
Description:	**Barium (Ba)**					
				2%	40.0 (mL)	Nitric Acid
Expiration Date:	010927					
Recommended Storage:	Ambient (20 °C)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	6UTB		5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

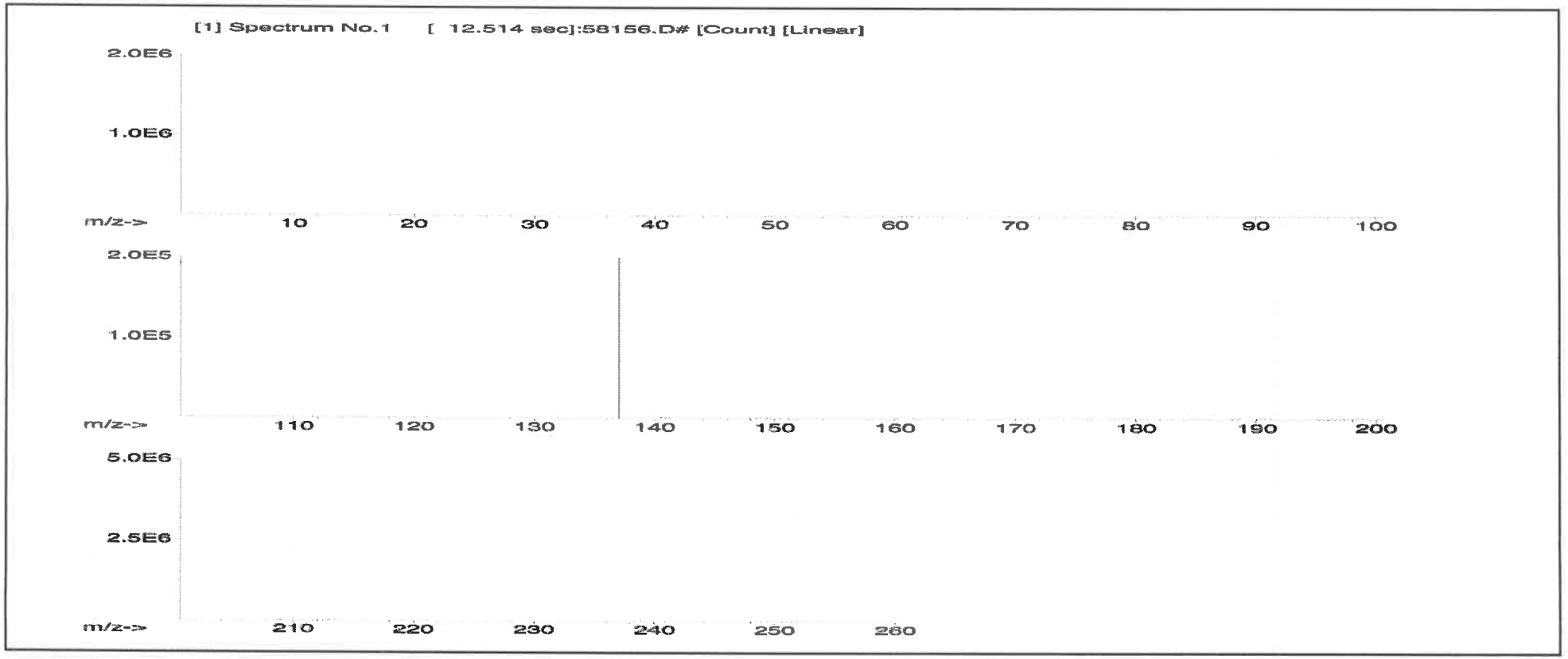
Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

535 of 648

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



Q1109-METALS

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6028

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

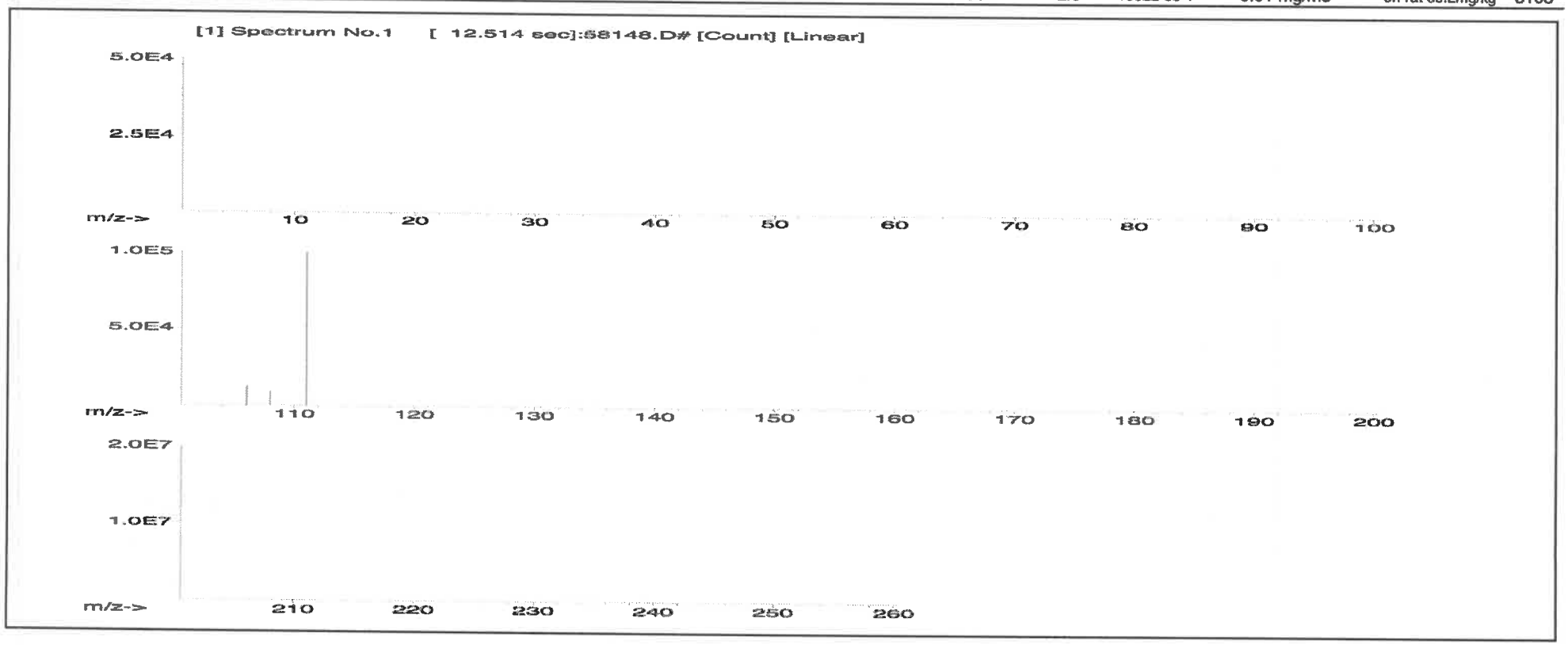
Weight shown below was diluted to (mL): 2000.07 ± 0.100 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 070124

Pedro Rentas
Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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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R: 8/15/24 M6025

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CERTIFIED WEIGHT REPORT:

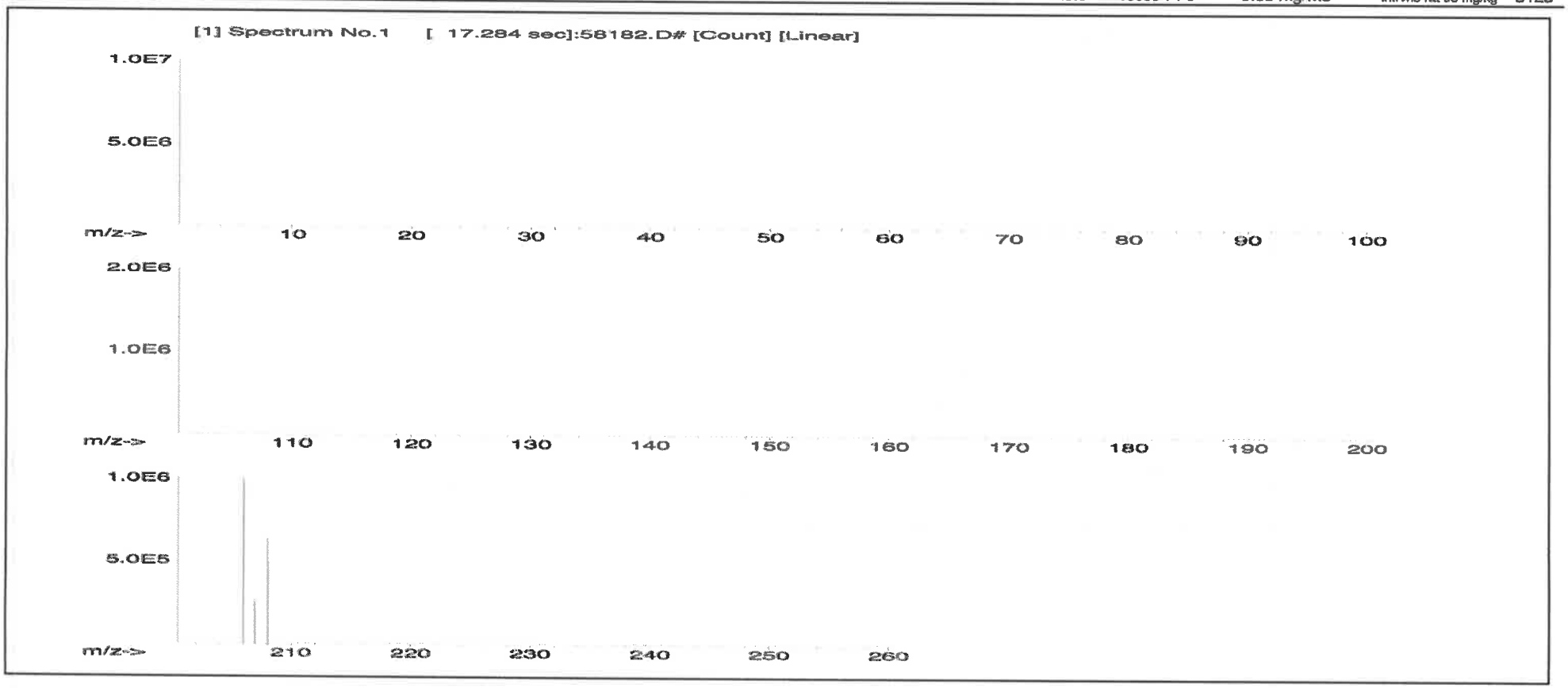
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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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M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5288 R: 07/21/2022

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

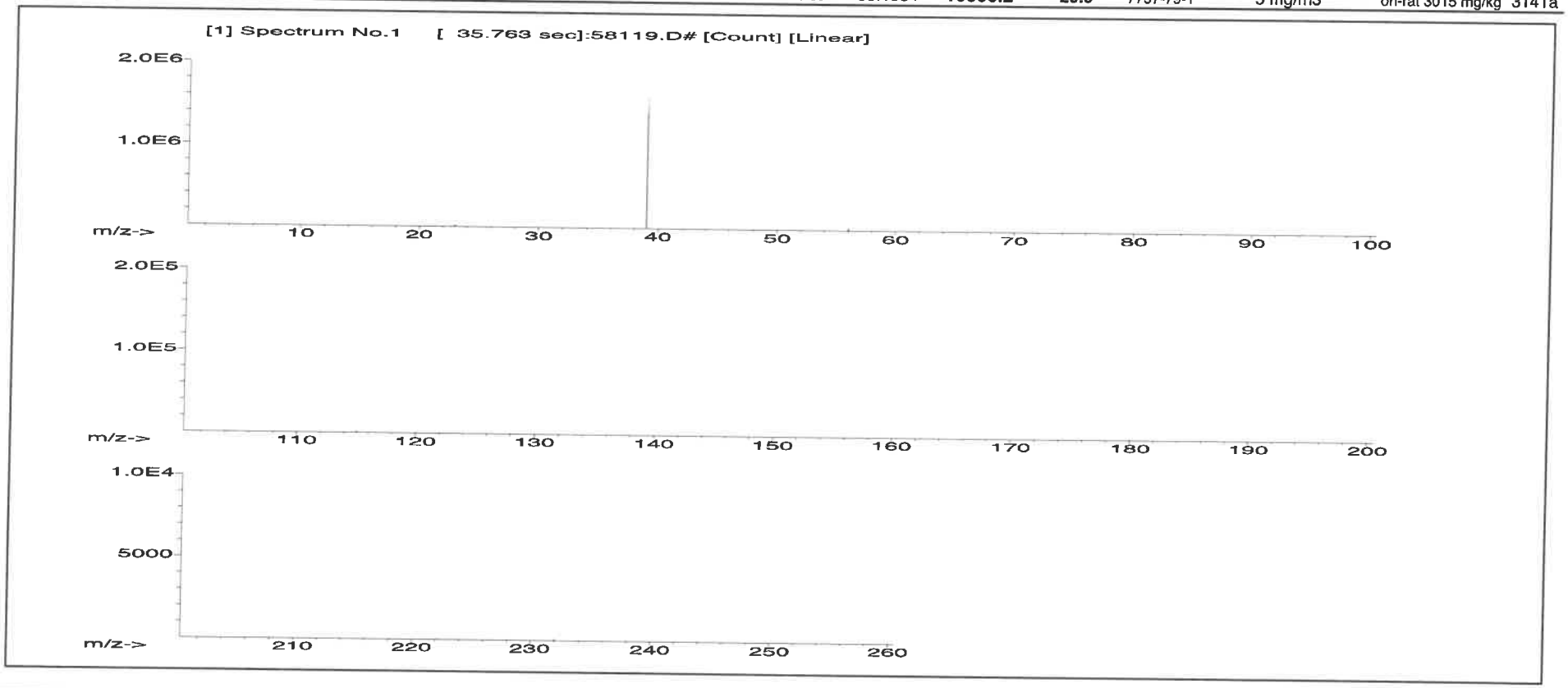
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
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:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

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	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

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 Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(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 Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

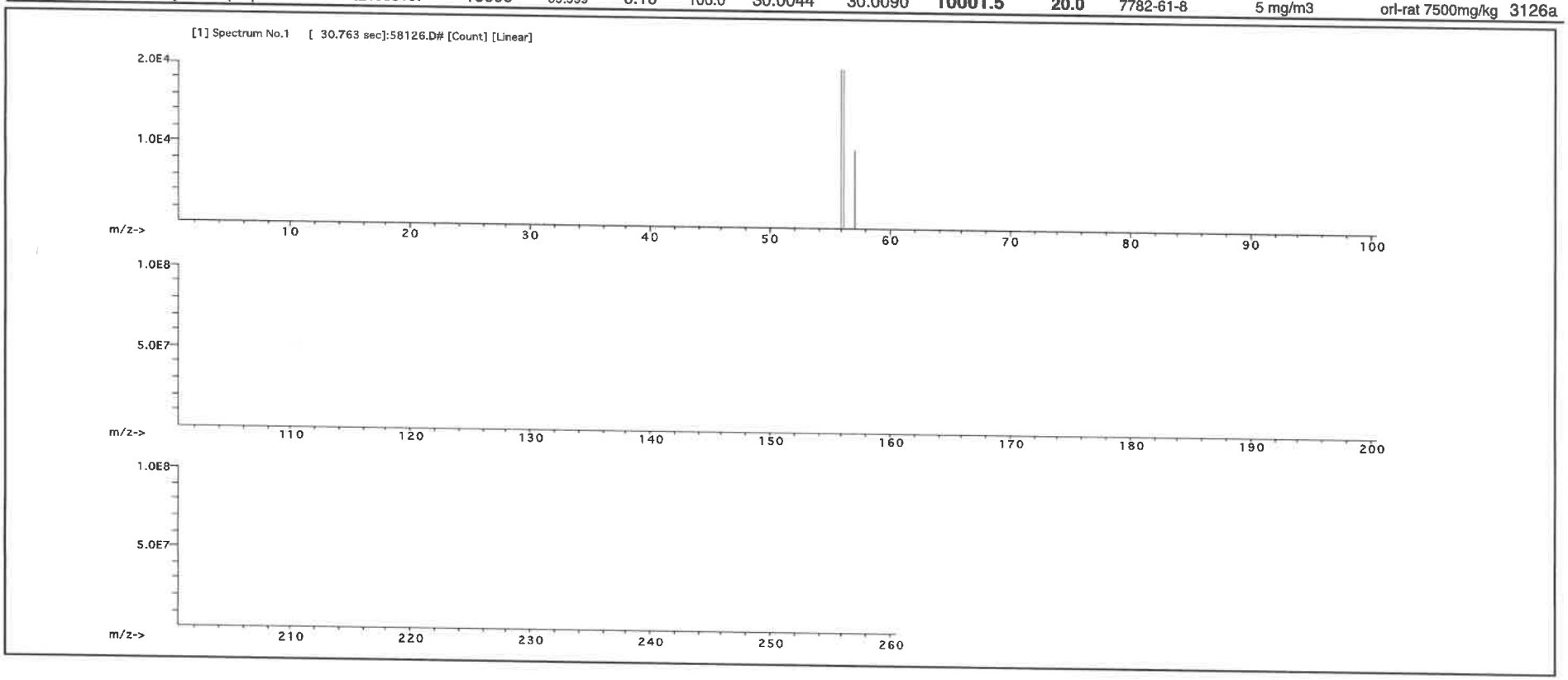
M5298

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Giovanni Esposito
Formulated By: Giovanni Esposito 020422
Reviewed By: Pedro L. Rentas 020422

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)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	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	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	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	<0.10	Ge	<0.10	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	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver, Aluminum,
Arsenic, Barium,
Beryllium, Calcium,
Cadmium, Cobalt,
Chromium, Copper,
Iron, Potassium,
Magnesium, Manganese,
Sodium, Nickel,
Lead, Antimony,
Selenium, Thallium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 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
As	ICP Assay	3103a	100818
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
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
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	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

- 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**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

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

October 20, 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

- **October 20, 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 Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5496 R 7/20/23

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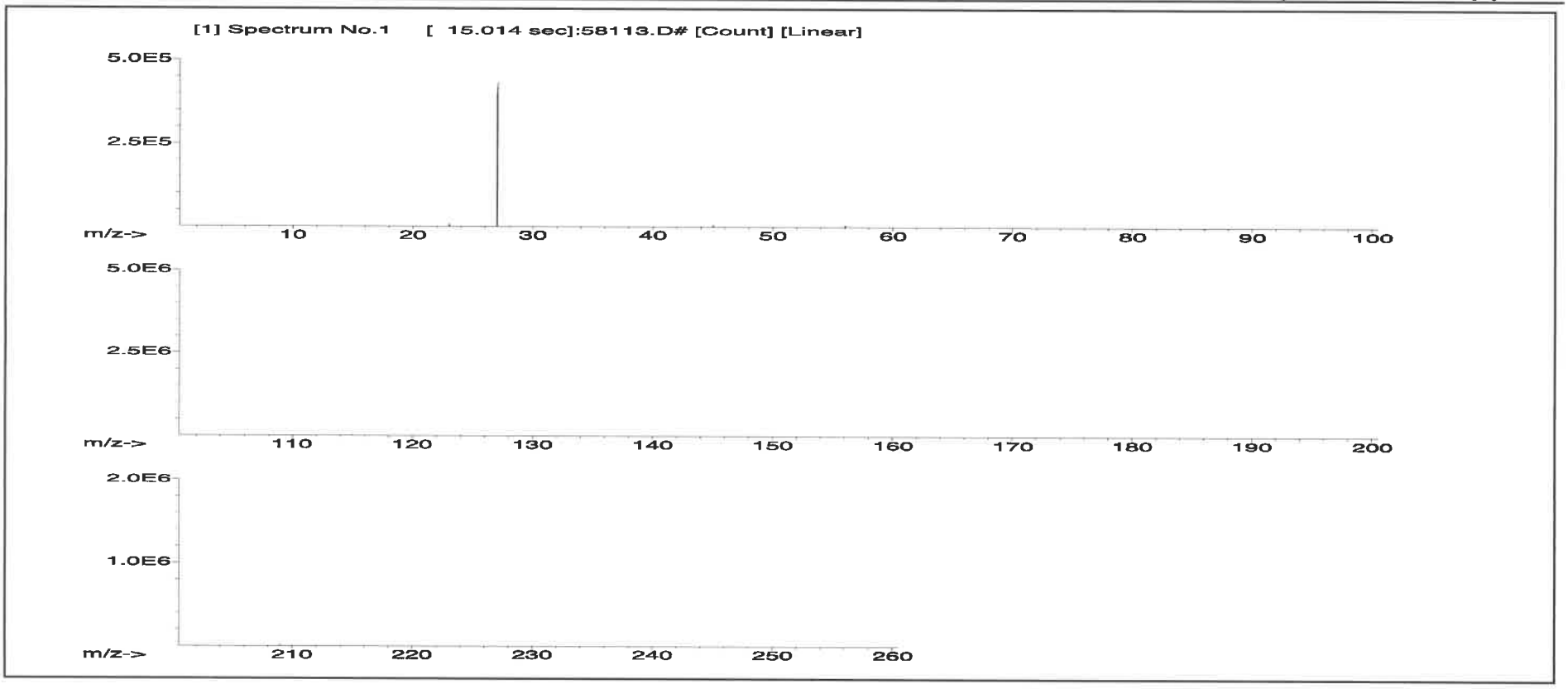
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**011623**	**Solvent:**	20510011	Nitric Acid	
Description:	**Aluminum (Al)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	011626				
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):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

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. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

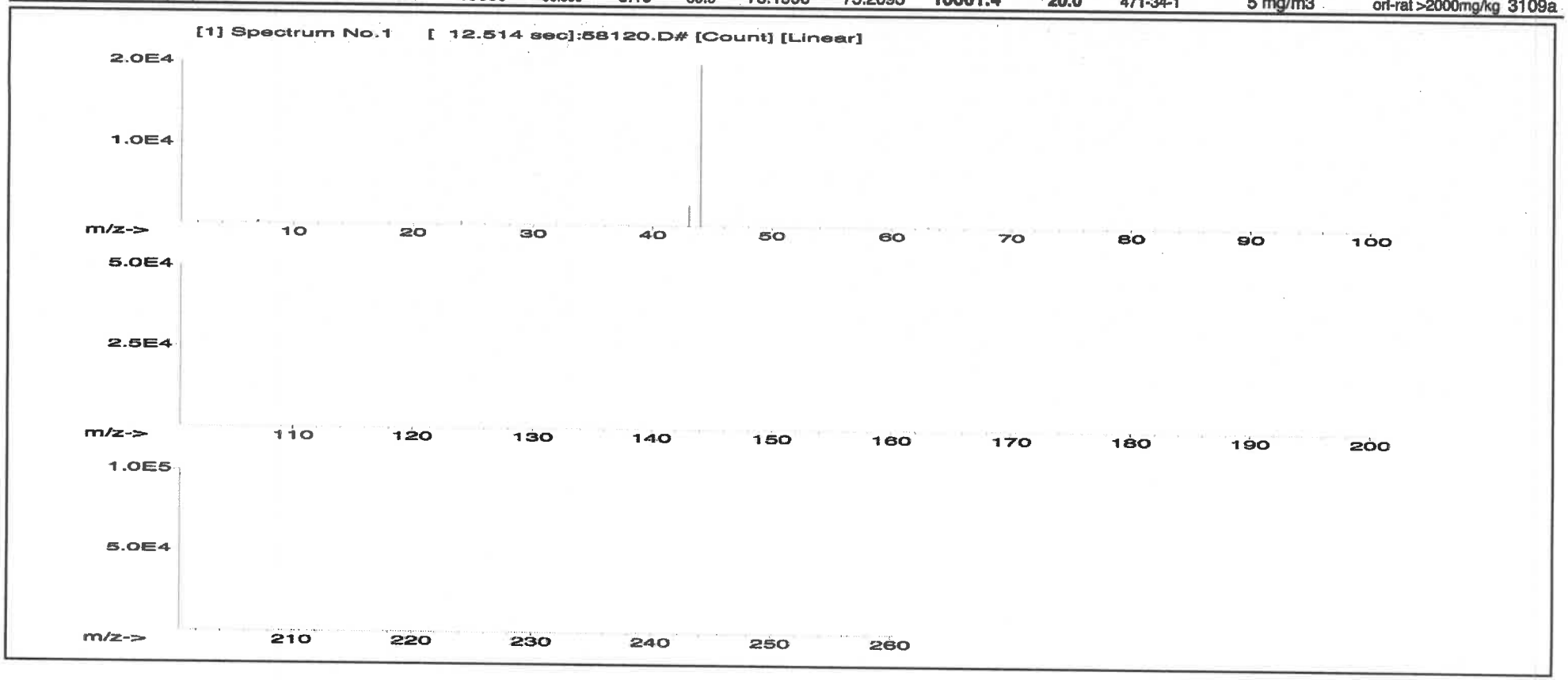
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

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	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<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

M5497 - M5498 R: 03/17/23 (BA)

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

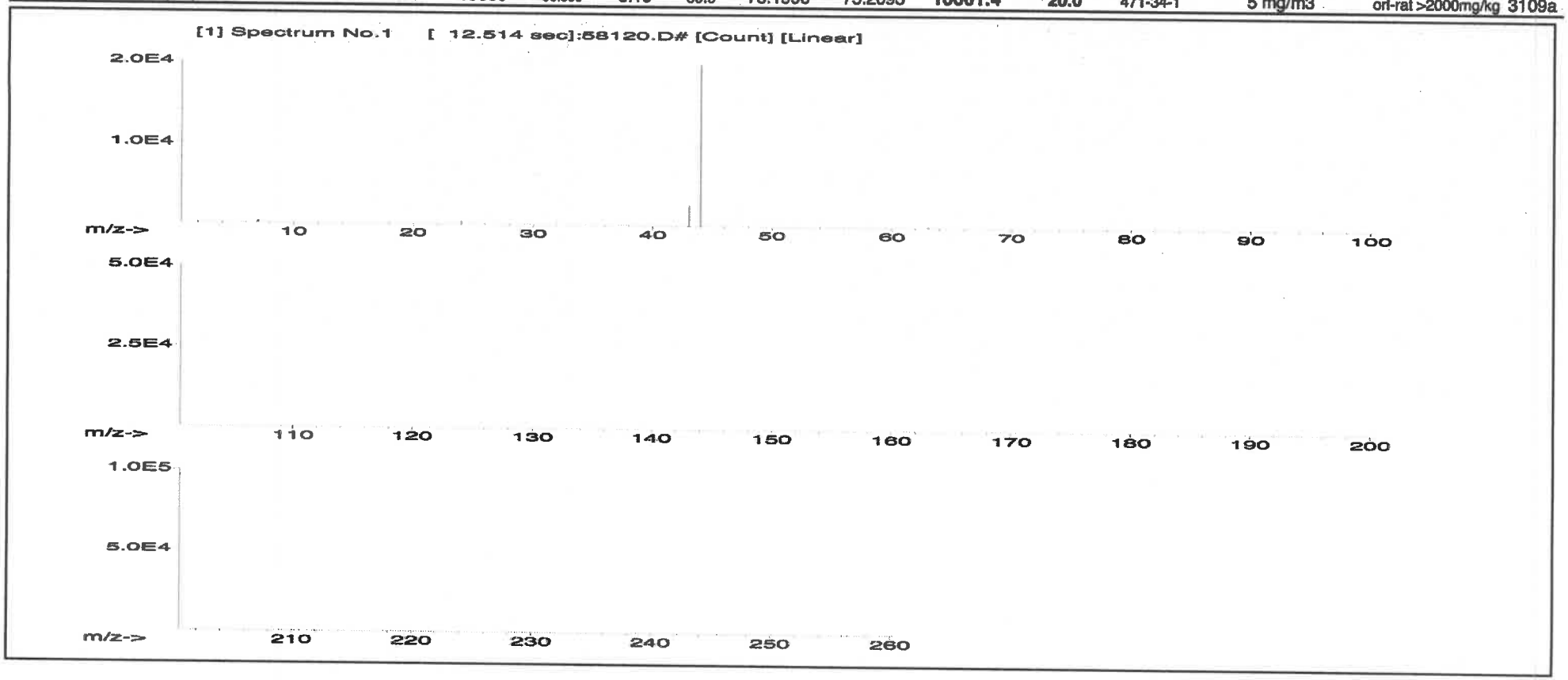
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

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	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<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

MS513 R:03/17/23 BE

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

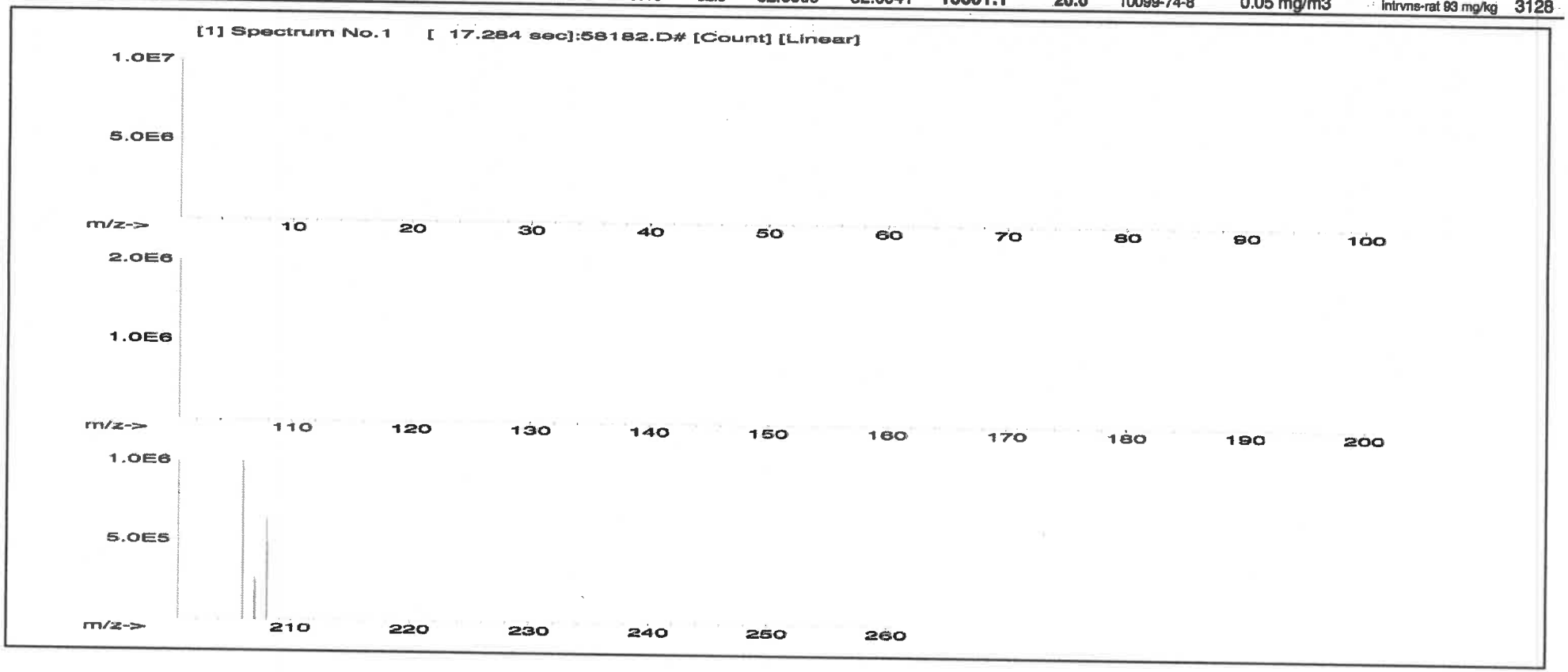
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

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	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



STD-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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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Q1109-METALS

Certified Reference Material CRM

M546 M517 R: 03/17/22 BH

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CERTIFIED WEIGHT REPORT:

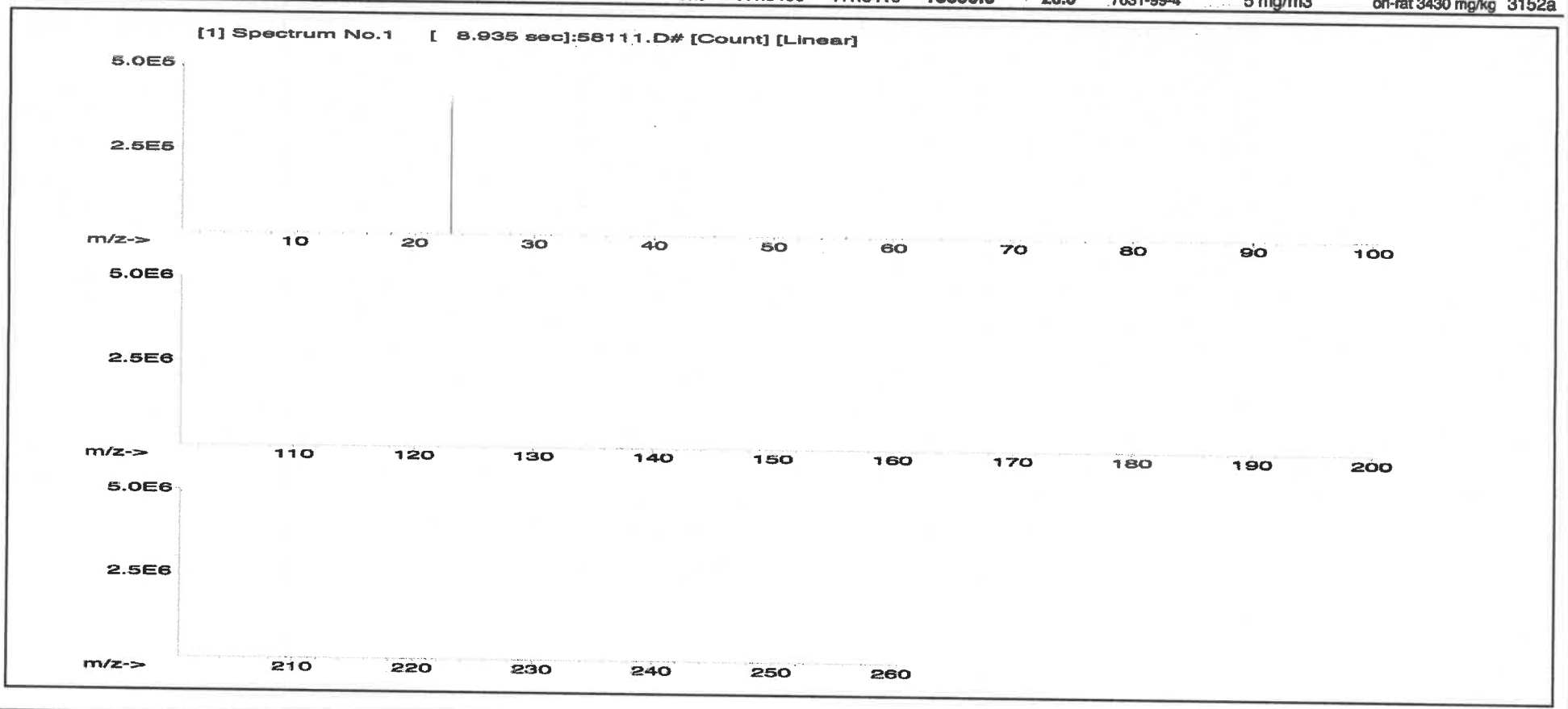
Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

Expiration Date: 022126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 5E-05 Balance Uncertainty 0.06 Flask Uncertainty

	Lot #	
Solvent:	21110221	Nitric Acid
2%	60.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	022123
Reviewed By:	Pedro L. Rentas	022123

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	111.5406	111.5410	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



562 of 648

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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	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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M519. M520 BH R:03/17/23

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CERTIFIED WEIGHT REPORT:

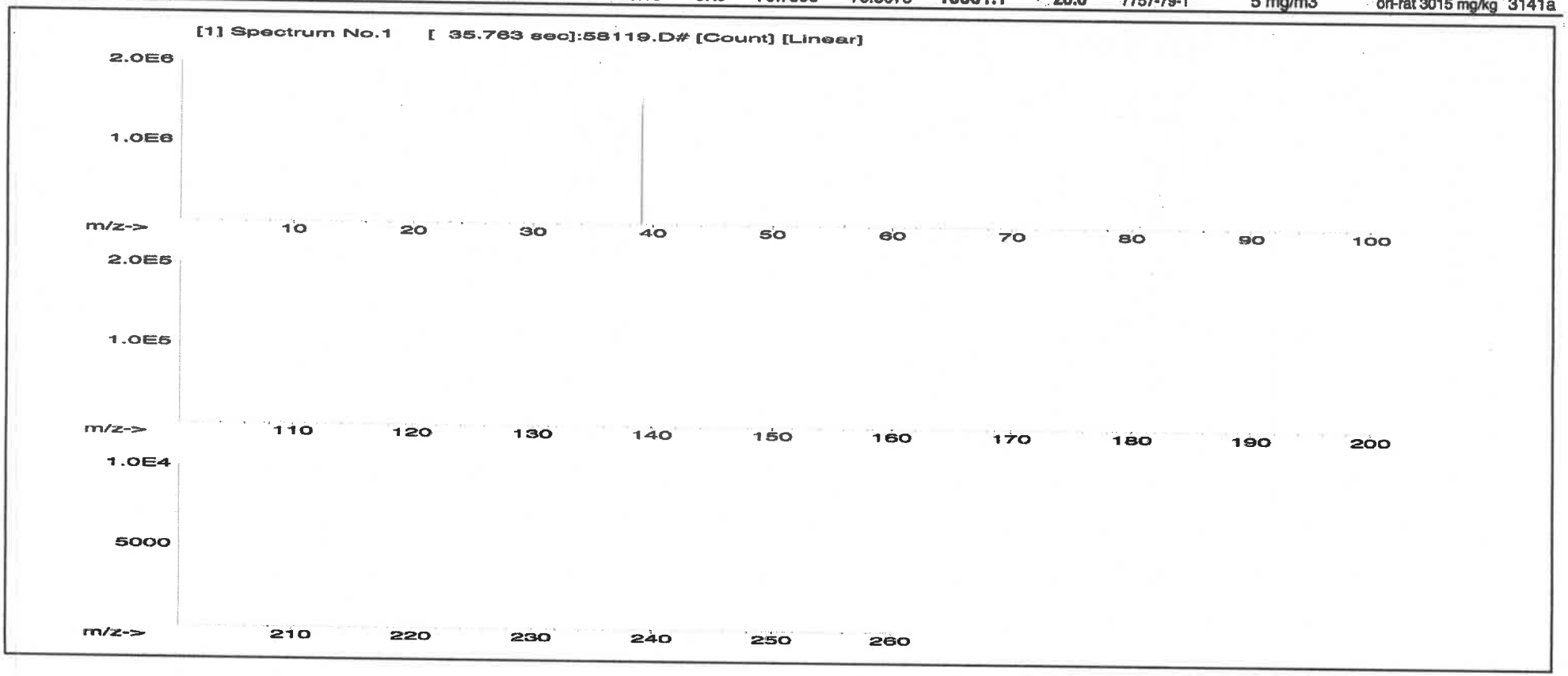
Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.06	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 120822
Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

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	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* 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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

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.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(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 Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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M5658 R ! 8/25/23

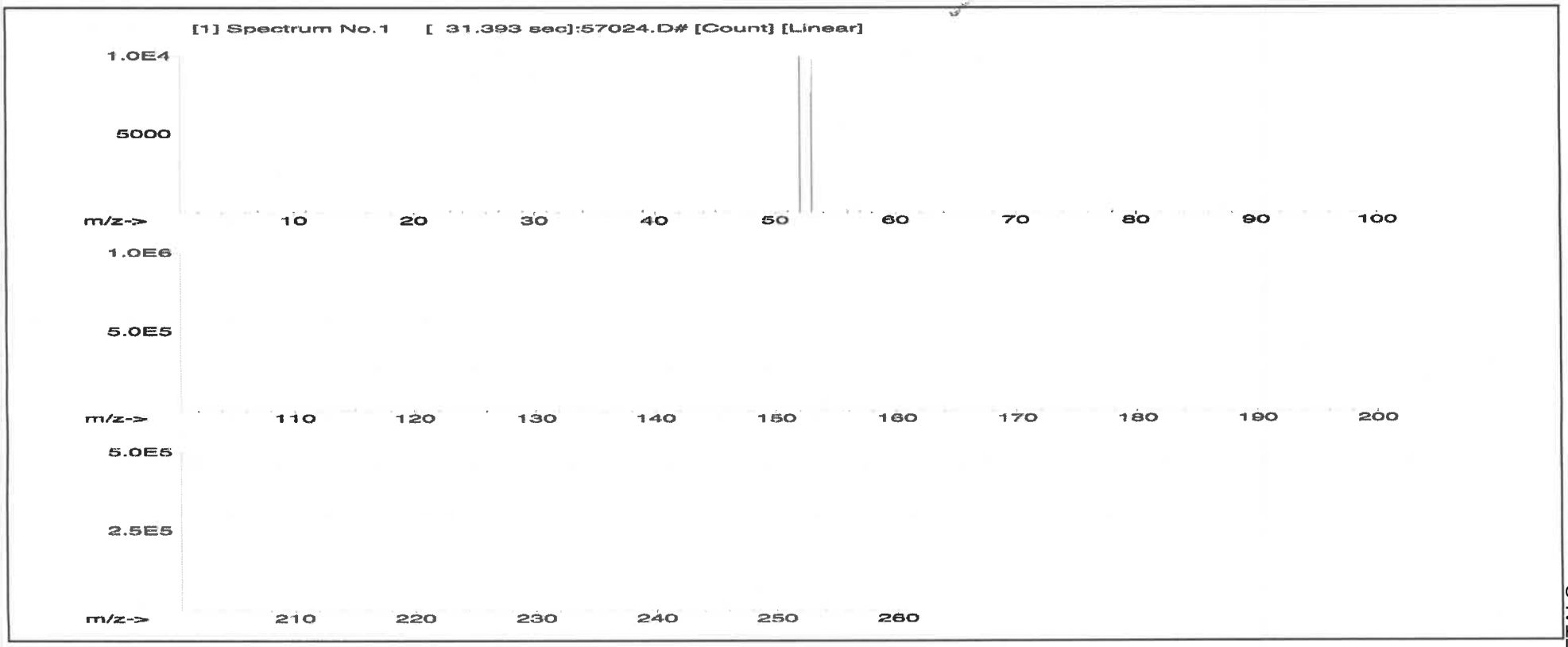
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CERTIFIED WEIGHT REPORT:

		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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R: 8/25/23 M5751

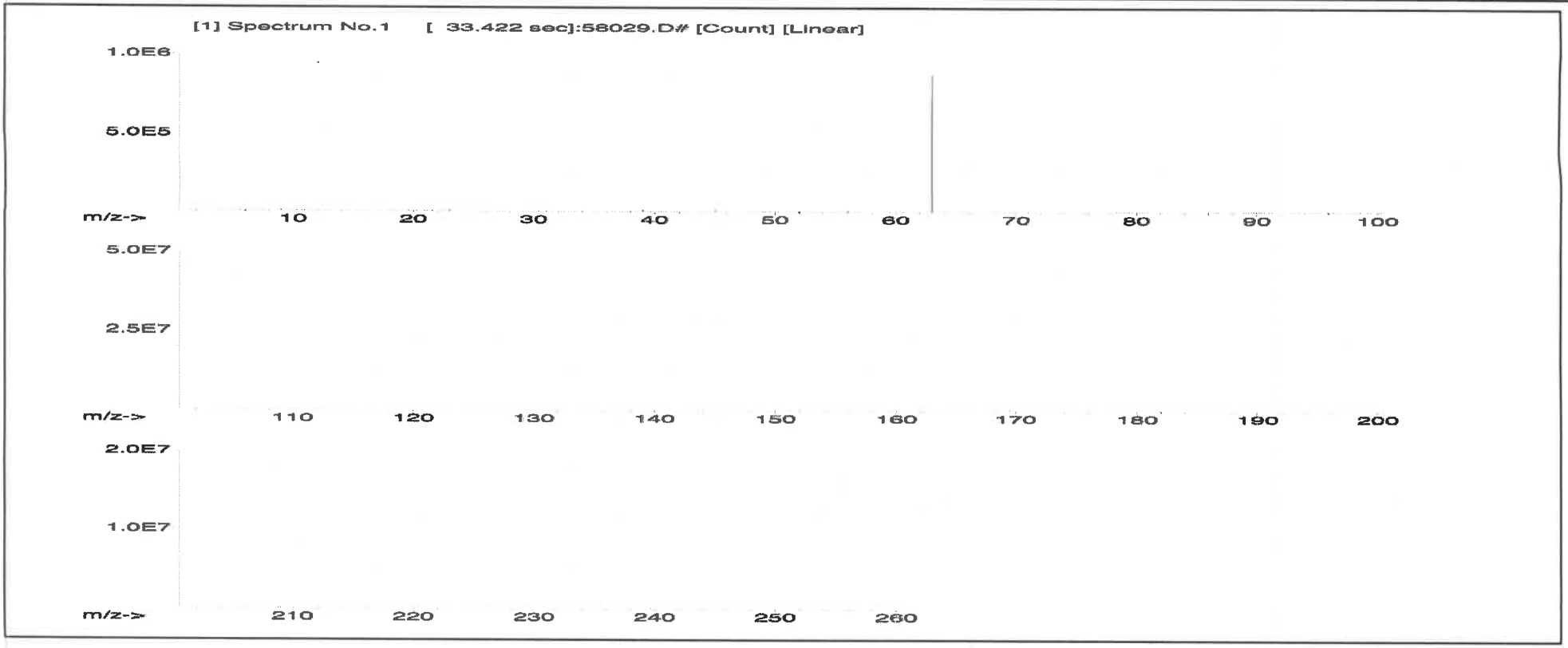
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CERTIFIED WEIGHT REPORT:

Part Number:	**58029**			**Lot #**	**Solvent:**	
Lot Number:	**071723**			21110221	Nitric Acid	
Description:	**Copper (Cu)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726					
Recommended Storage:	Ambient (20 °C)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	6UTB	5E-05	Balance Uncertainty			
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty			

Formulated By:	Benson Chan 071723
Reviewed By:	Pedro L. Rentas 071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 02/09/24 M5798

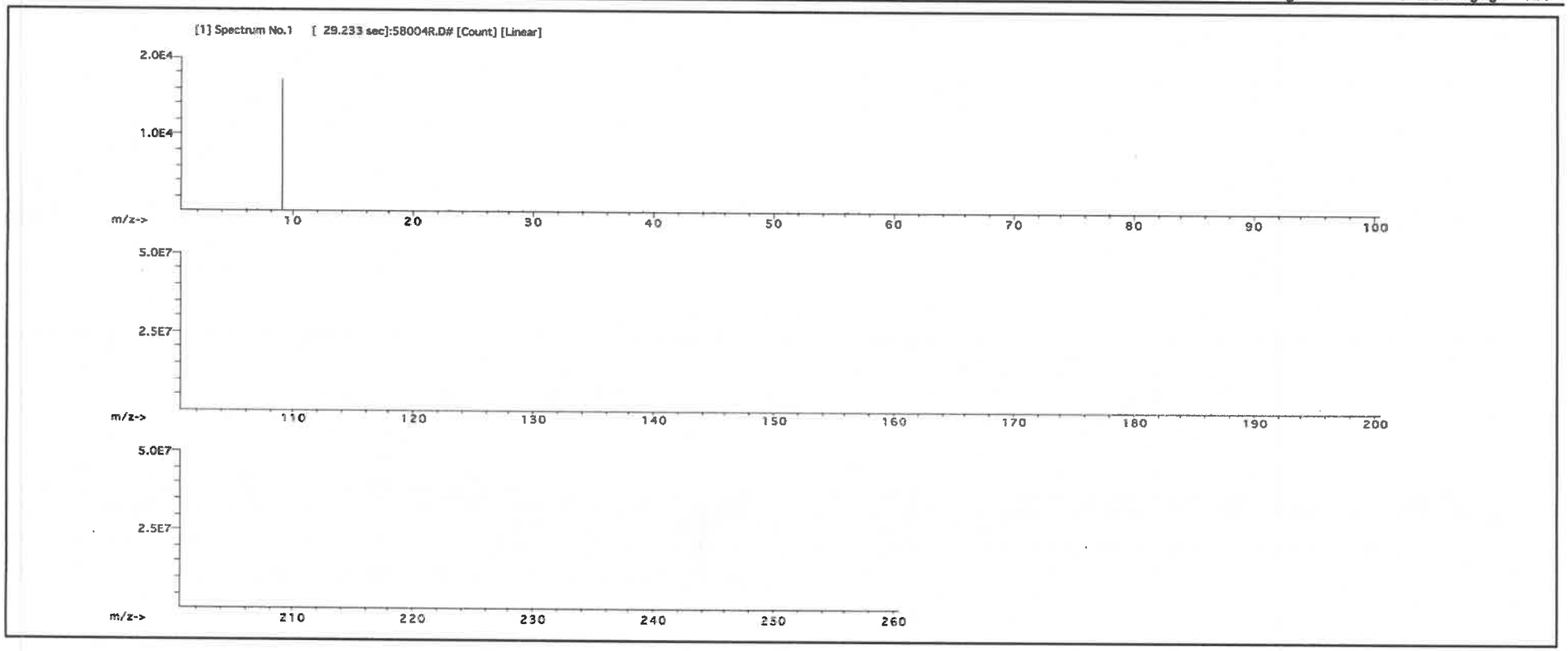
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CERTIFIED WEIGHT REPORT:

		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



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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
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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)

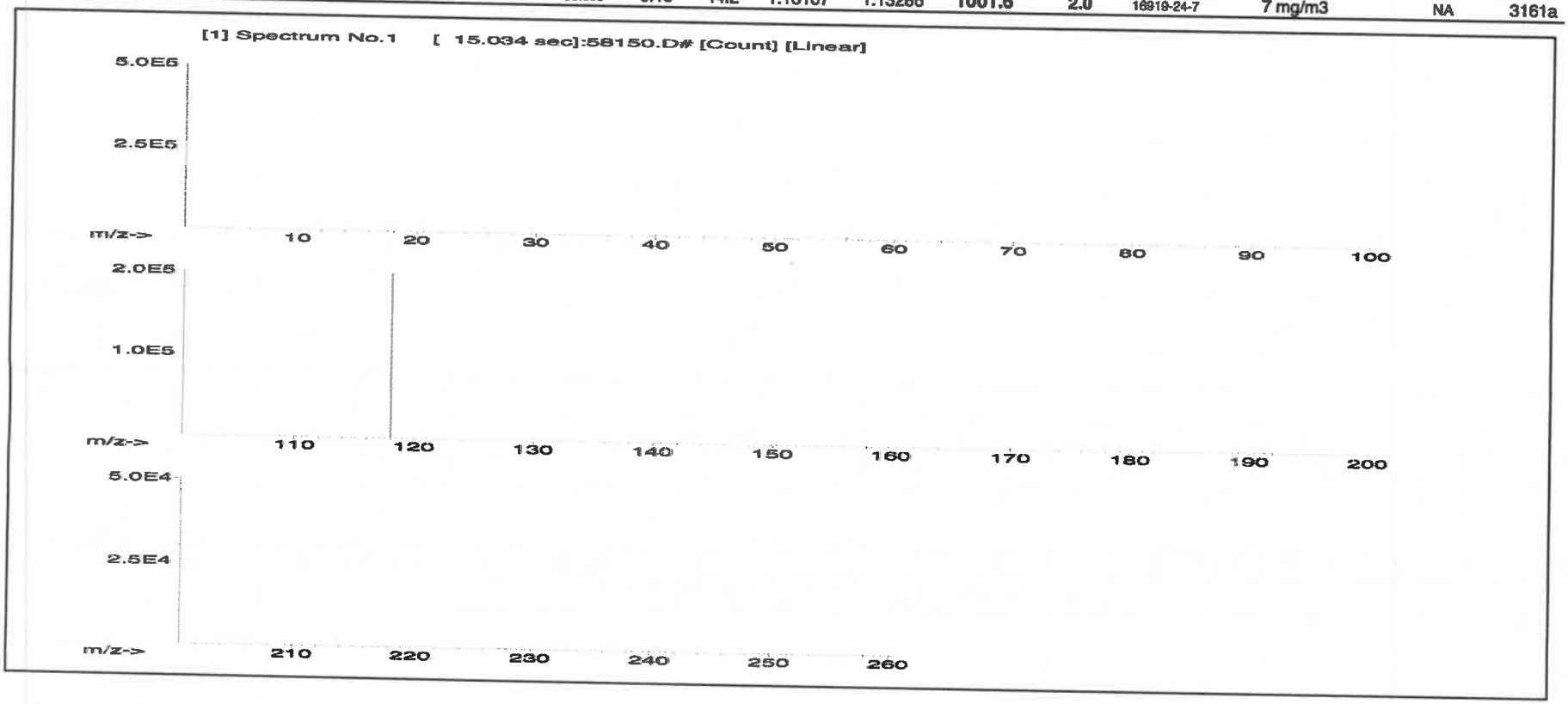
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5800 BH

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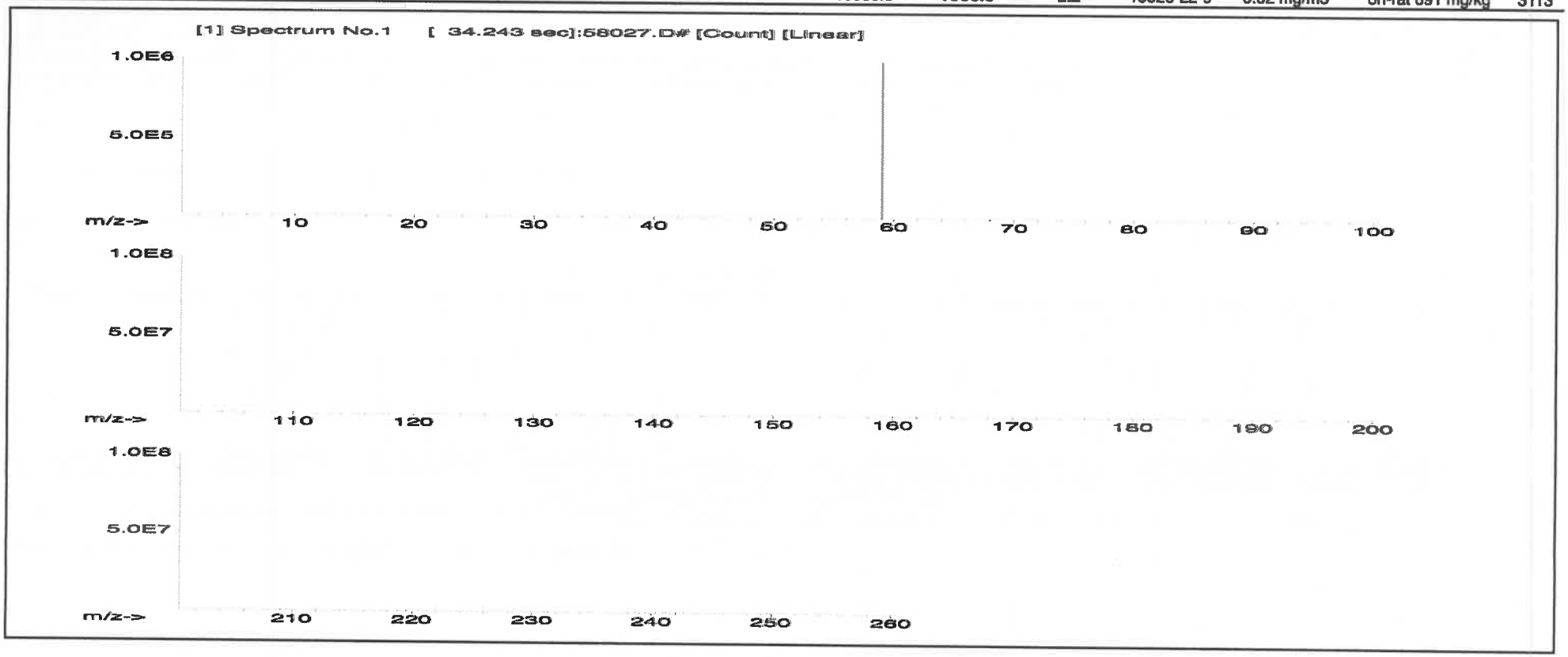
CERTIFIED WEIGHT REPORT:

		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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* 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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R: 02/09/24 M5801 BH

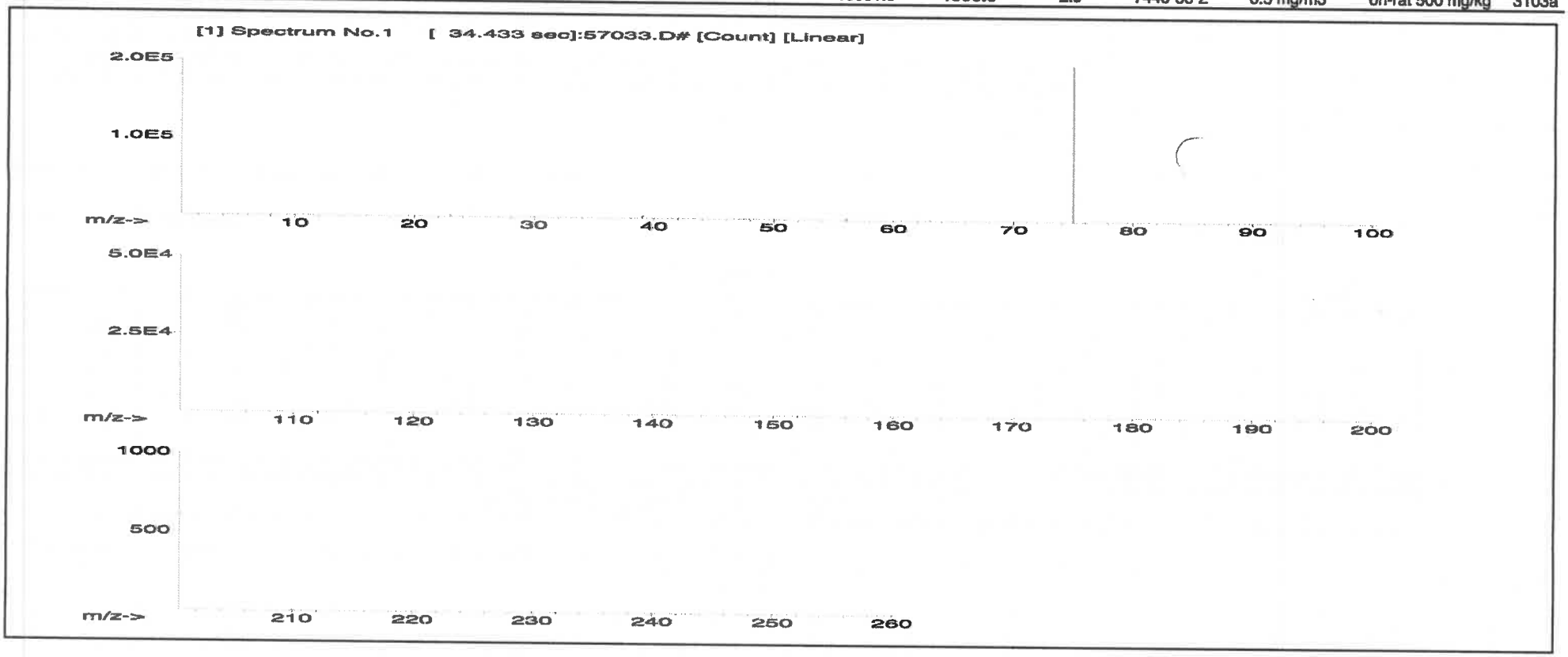
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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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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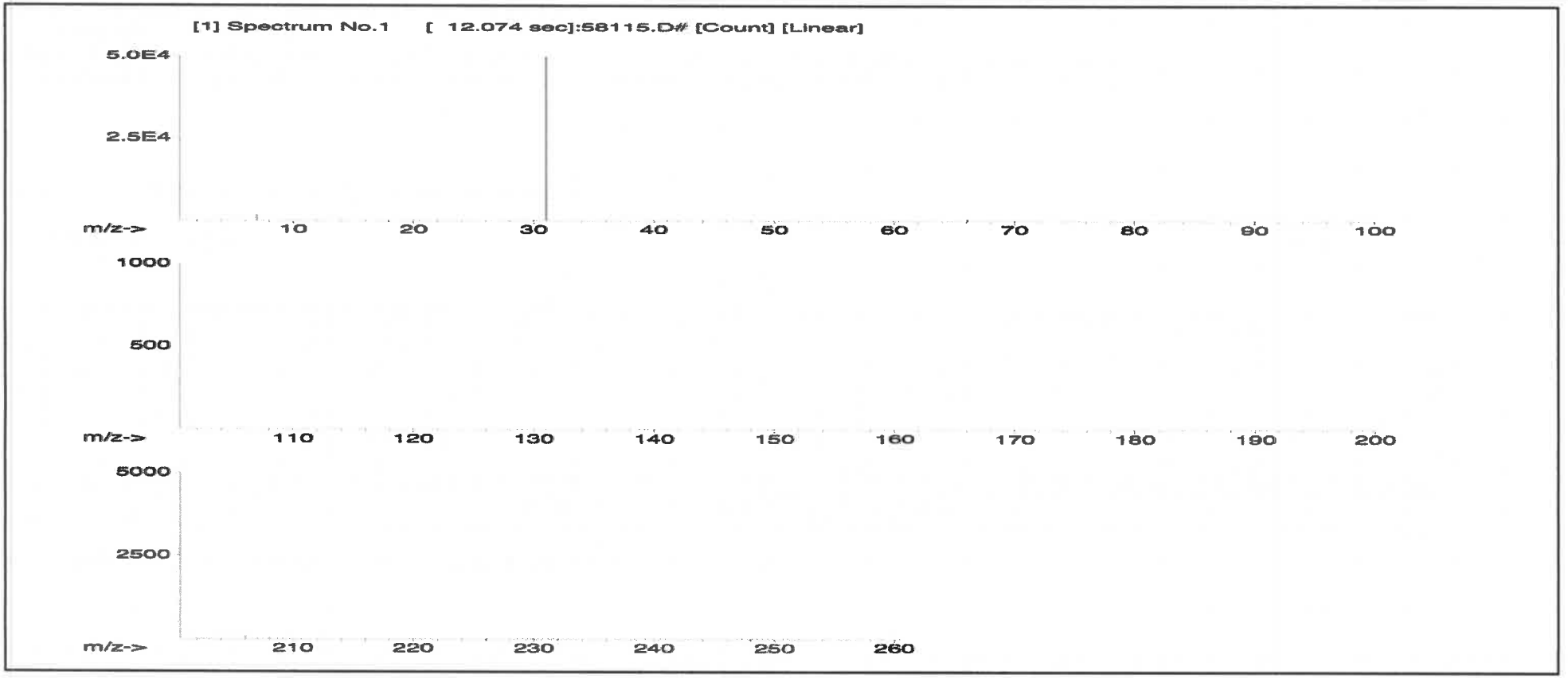
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CERTIFIED WEIGHT REPORT:

Part Number:	**57115**			**Lot #**	
Lot Number:	**041723**		**Solvent:**	21110221	Nitric Acid
Description:	**Phosphorous (P)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726				
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):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

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	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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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	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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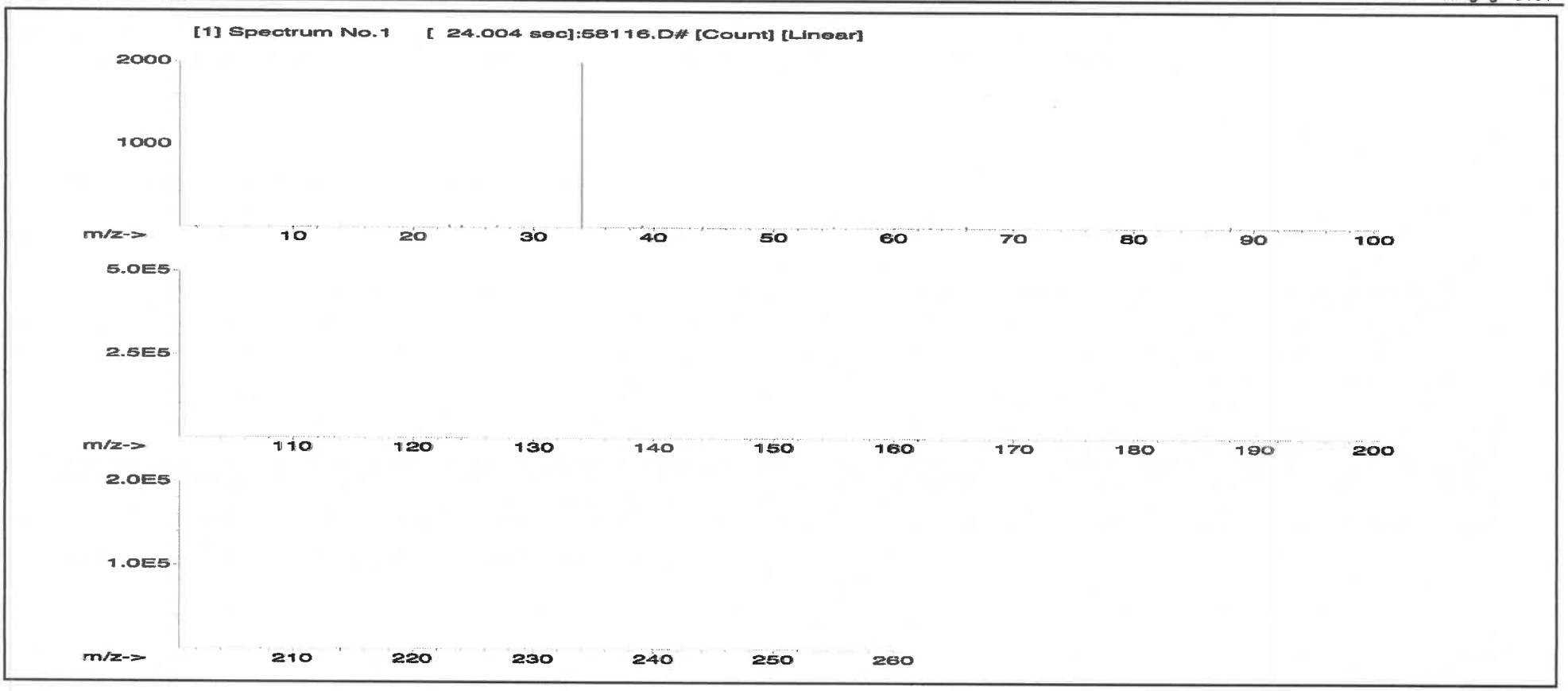
CERTIFIED WEIGHT REPORT:

Part Number:	**57116**			
Lot Number:	**071123**	**Solvent:**	071123	ASTM Type 1 Water
Description:	**Sulfur (S)**			
Expiration Date:	071126			
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):	1999.48	0.058	Flask Uncertainty	

Lot #

Formulated By:	Lawrence Barry	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 sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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Certified by:

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R: 02/09/24 M5819

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

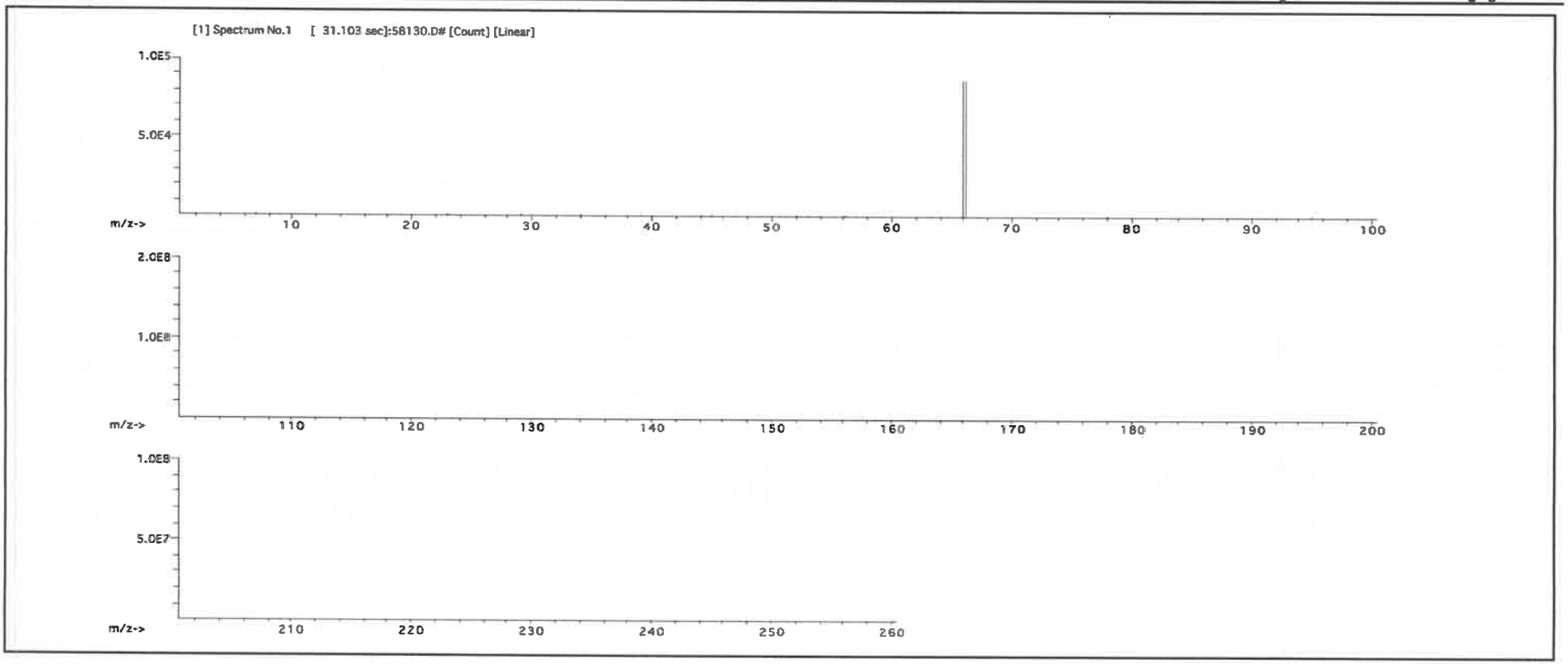
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

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	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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M5960 KK R. 6/11/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 041124
Description: Nickel (Ni)

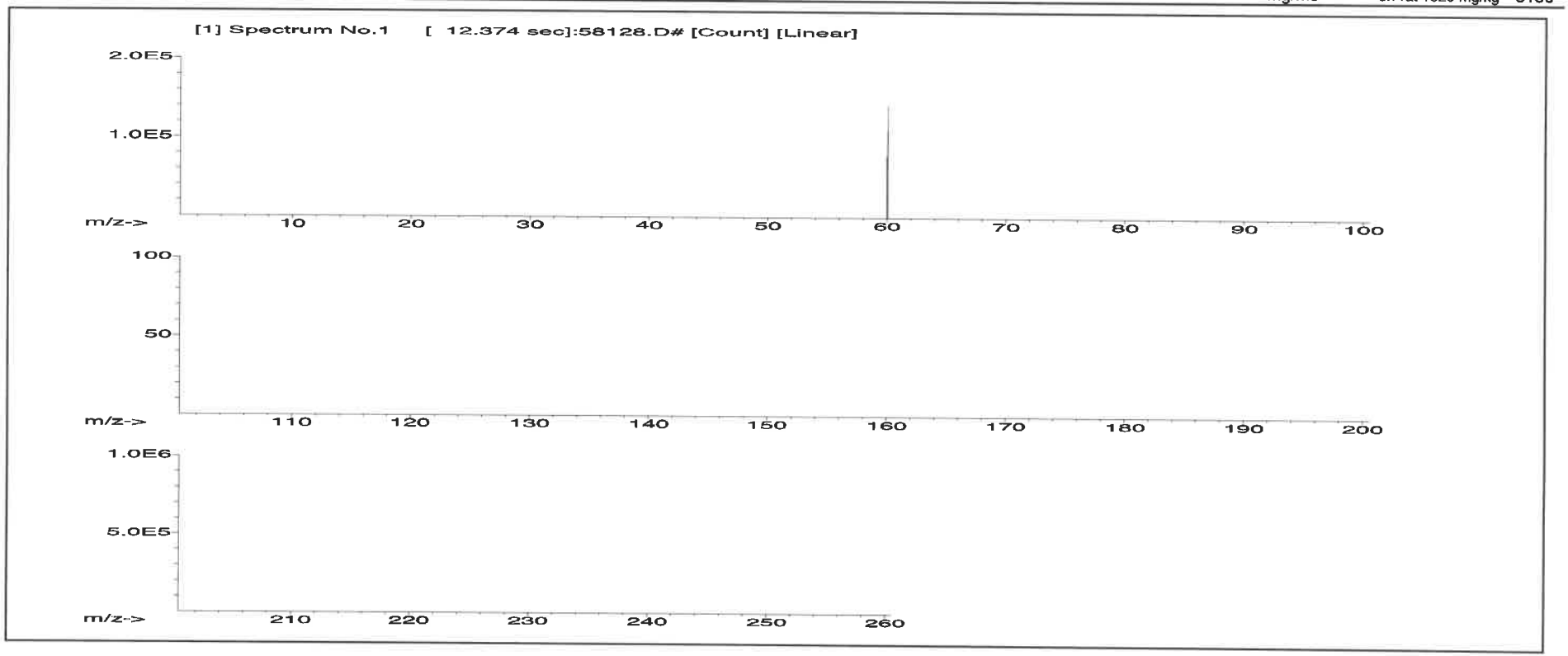
Expiration Date: 041127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 249.85

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

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. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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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	T	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).

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M5961 R: 6/11/24

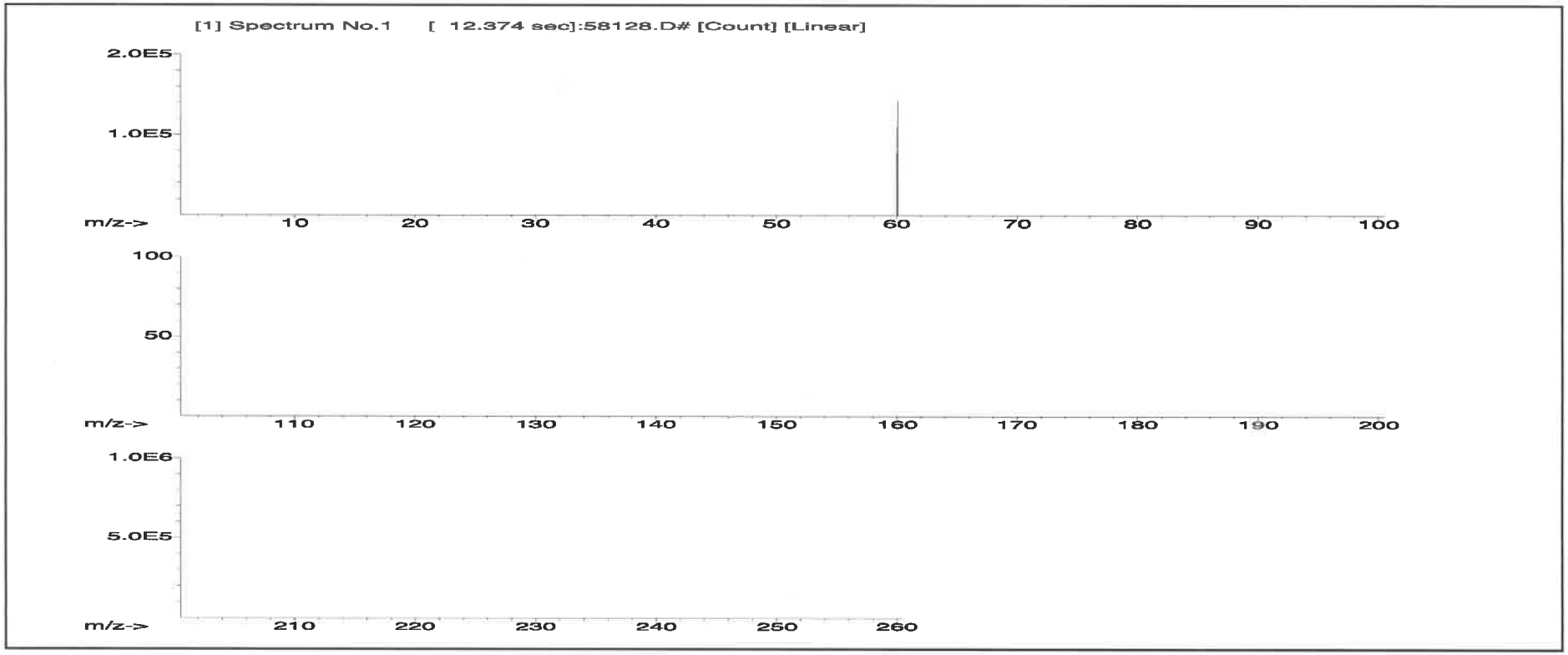
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number:	**57028**		**Lot #**		
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Nickel (Ni)**		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127				
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):	249.85	0.002	Flask Uncertainty		

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

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. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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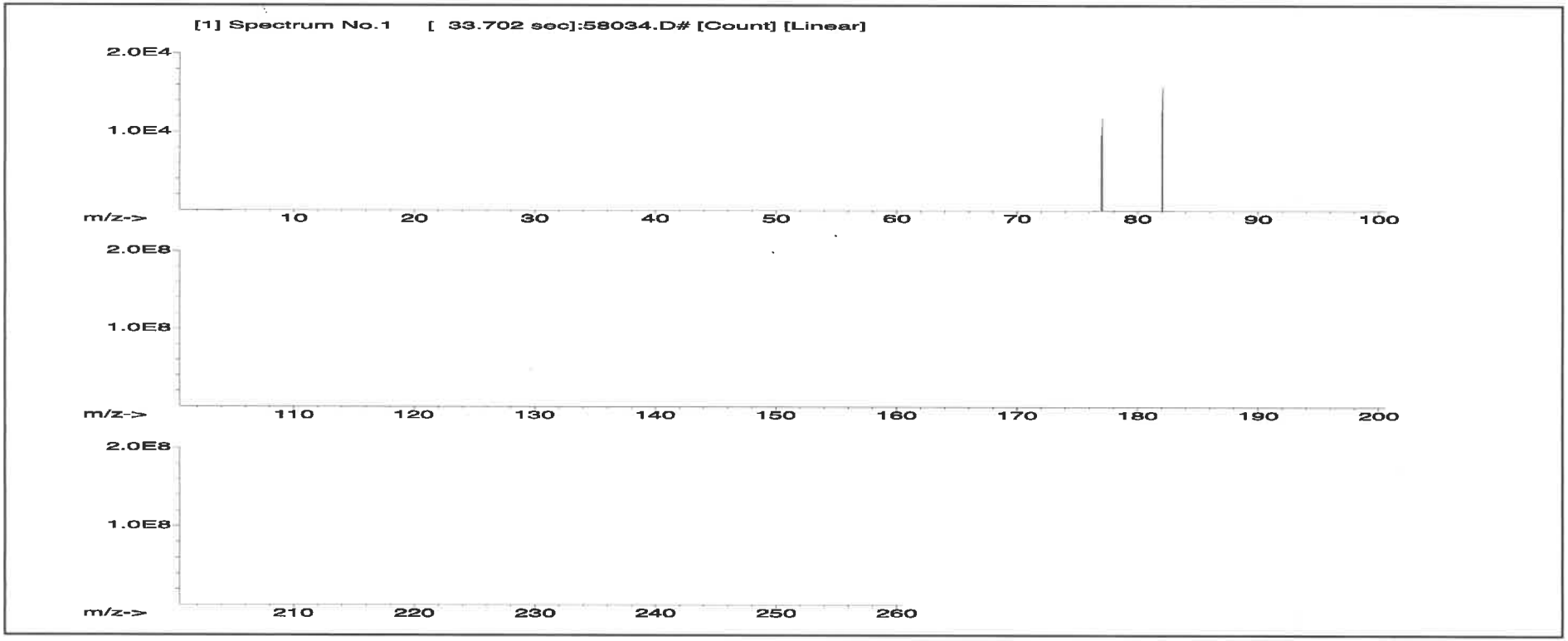
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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- 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	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

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 - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or 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 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

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

July 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

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- 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	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

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 - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or 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 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

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

July 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

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



MS978, MS979

INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

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info@inorganicventures.com

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:	CGT11
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, $X_{CRM/RM}$, 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 ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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:

$$X_{CRM/RM} = (\Sigma x_a)\,(1/n_{Char\,a})$$

X_a = mean of Assay Method A with $n_{Char\,a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char\,a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 for months in 1% 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57092**	24002546	Nitric Acid
Lot Number:	**060724**		
Description:	**Uranium (U)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	060727		
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	

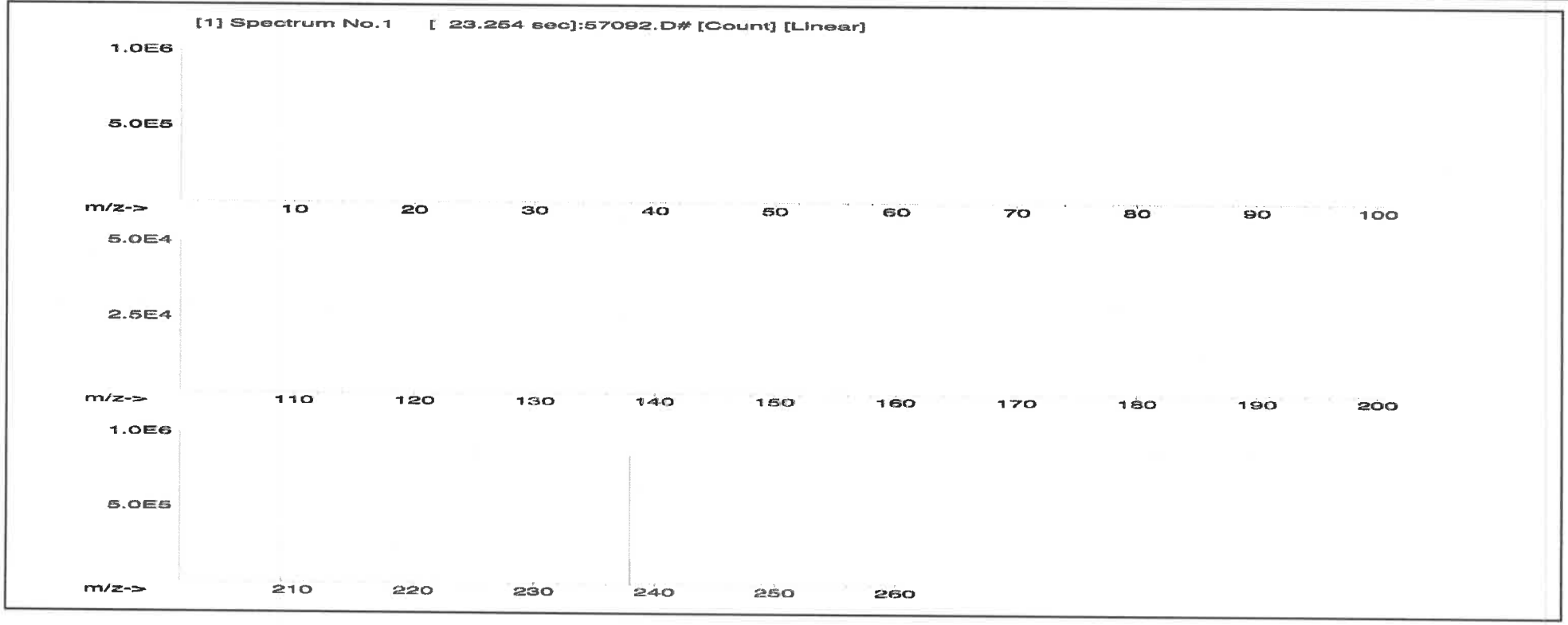
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

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. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



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	T
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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5983 R: 6/11/24

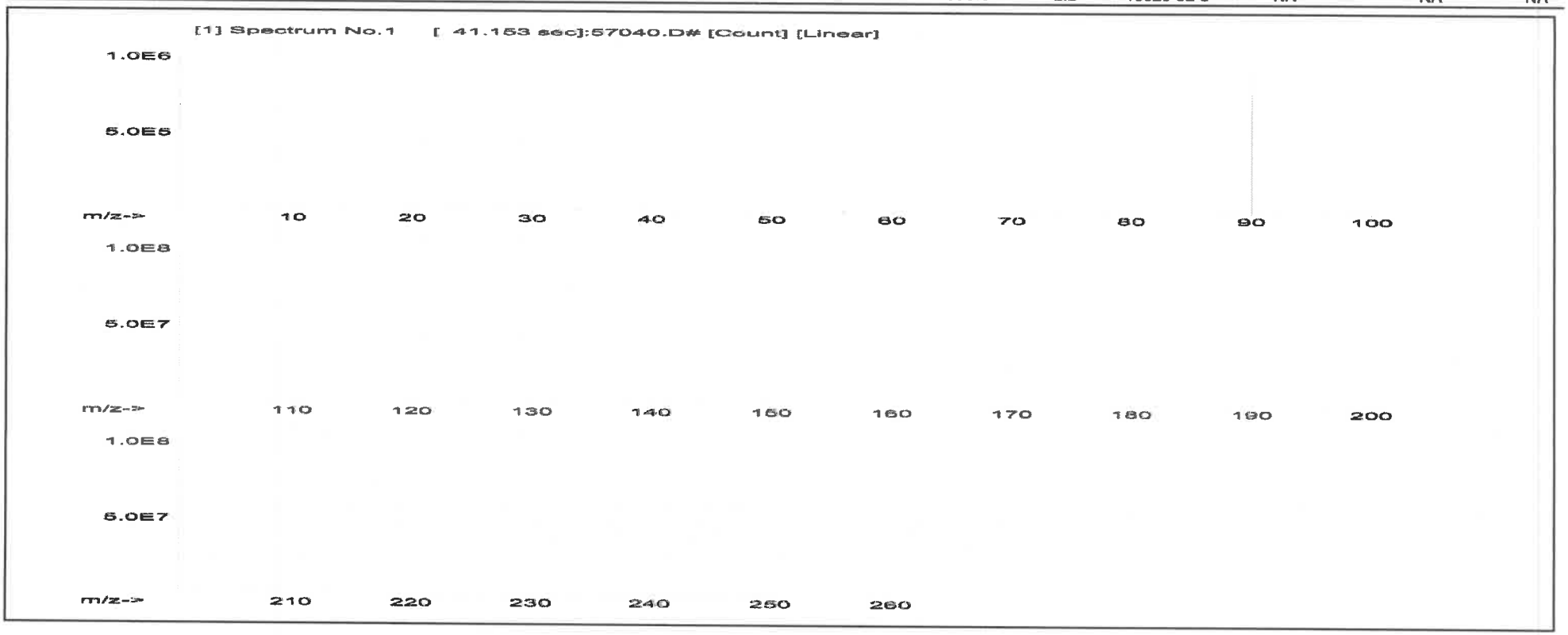
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57040**	21110221	Nitric Acid		
Lot Number:	**071423**				
Description:	**Zirconium (Zr)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	071426				
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	071423
Reviewed By:	Pedro L. Rentas	071423

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. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<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	T

(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
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Certificate of Analysis

R 18/19/24, M60055

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:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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

- June 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



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	1
ACS – Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

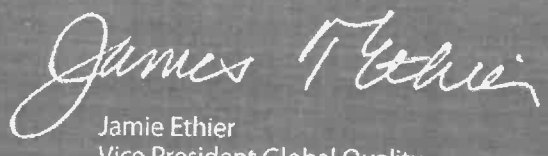
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

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

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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:

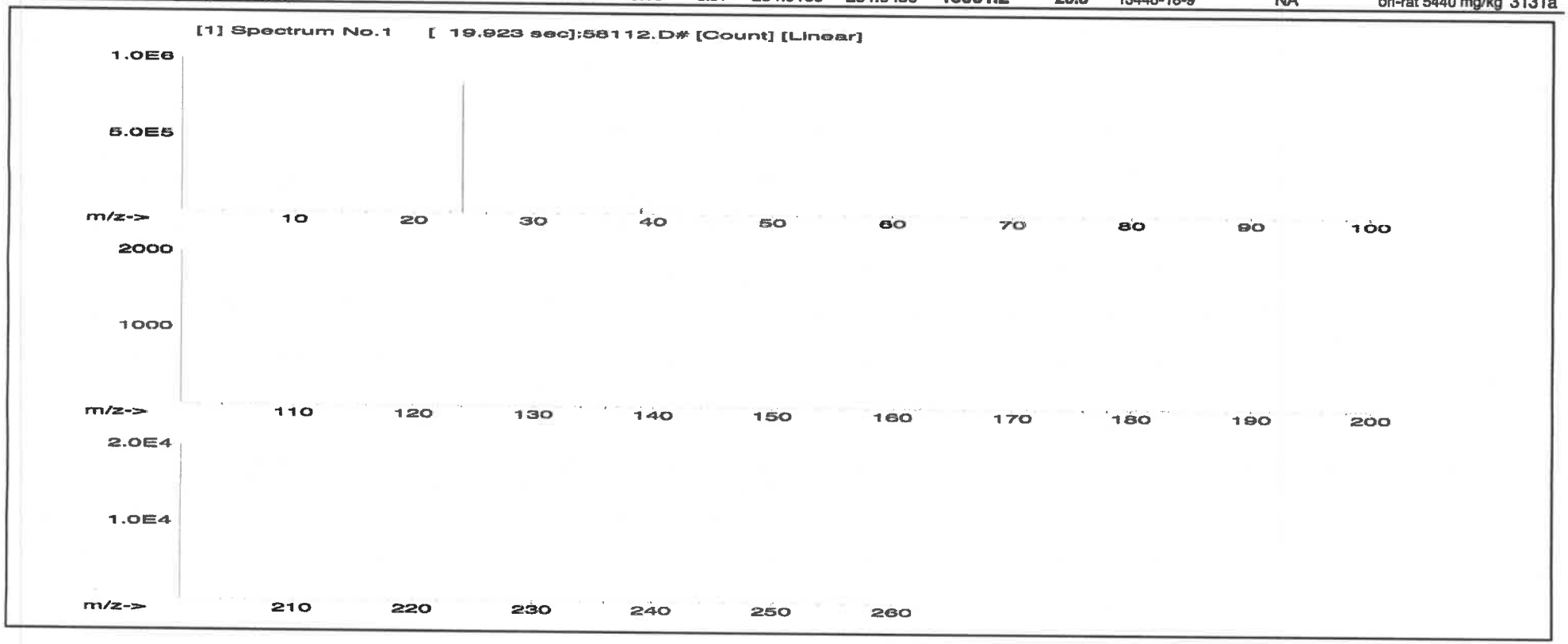
R -> 1/13/25
M 6127

Part Number:	**58112**		**Lot #**	
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
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):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

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	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Absolute Standards, Inc.
800-368-1131
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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	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:

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).

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**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**				
Description:	**Manganese (Mn)**		2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

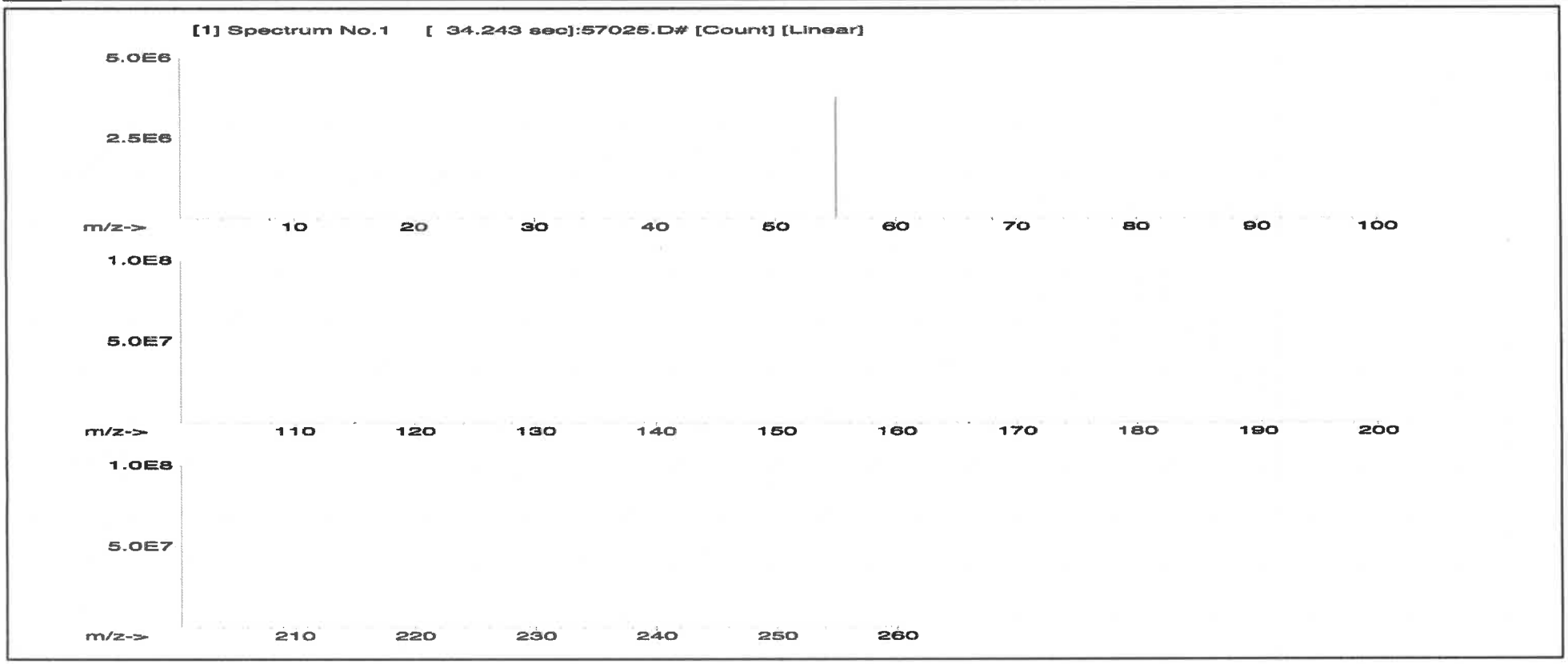
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information (Solvent Safety Info. On Attached pg.)** CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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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	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:

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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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

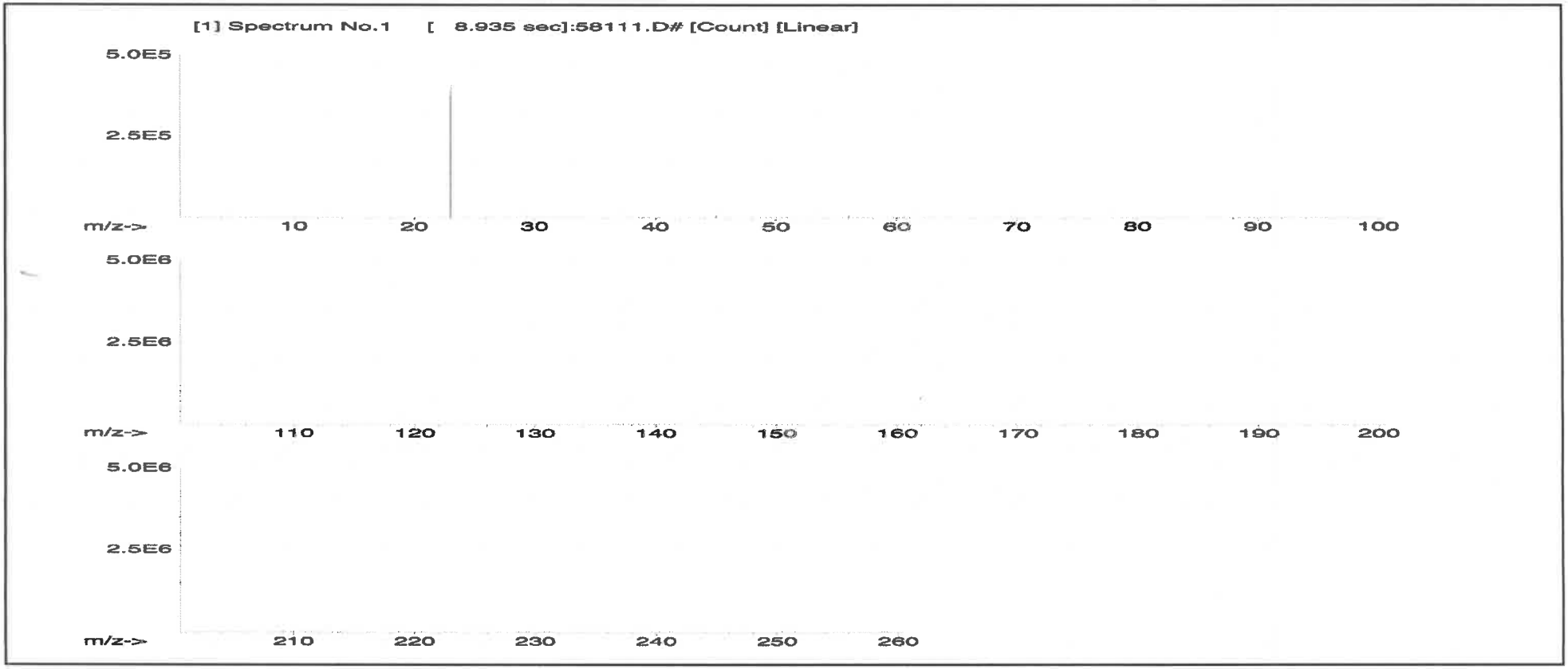
Weight shown below was diluted to (mL): 3000.4 | 0.06 Flask Uncertainty

	Lot #	
Solvent:	24002546	Nitric Acid
2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122223

Reviewed By: Pedro L. Rentas 122223

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	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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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	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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INORGANIC VENTURES™

Refine your results. Redefine your industry.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

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:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

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

- 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**

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 03, 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 03, 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 Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (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

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, 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*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. 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 the ICP-MS ICS 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-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (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.

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Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 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.

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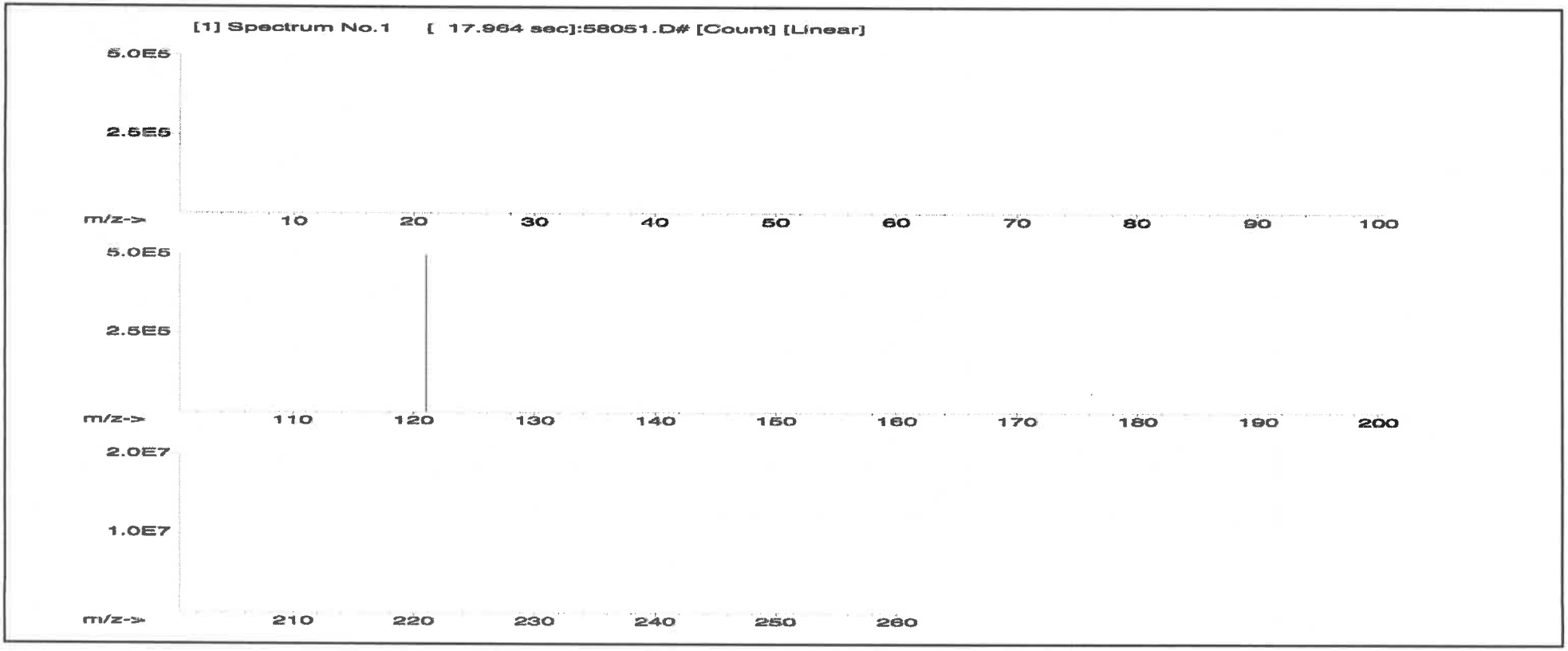
R: 01/03/24 M5802, M5803

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

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	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6030

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

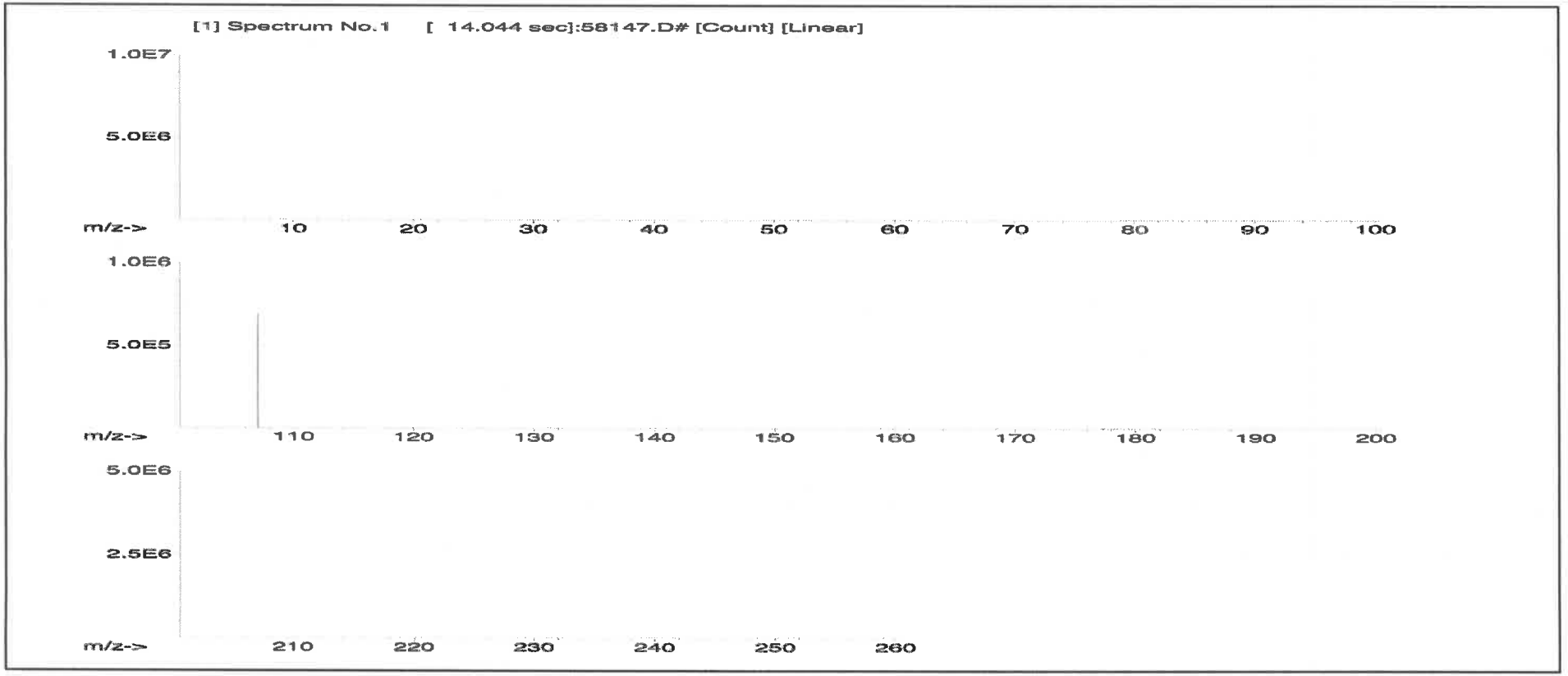
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/5/24 M6019

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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 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 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	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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 - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (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 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

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 03, 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

- **March 03, 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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Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

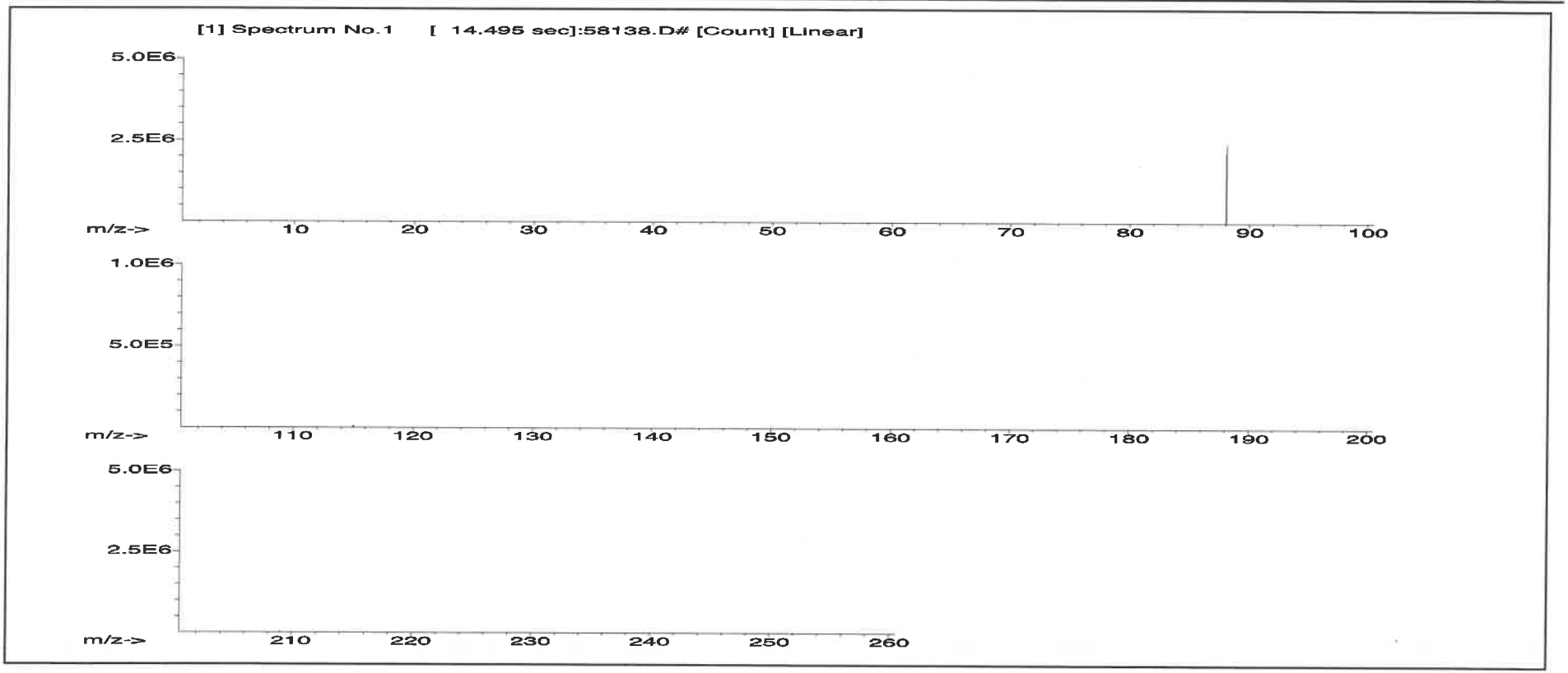
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**56138**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**082922**			
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid
Expiration Date:	082925			
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):	1000.12	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

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	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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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 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	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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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M6023

R ! 8/5/24

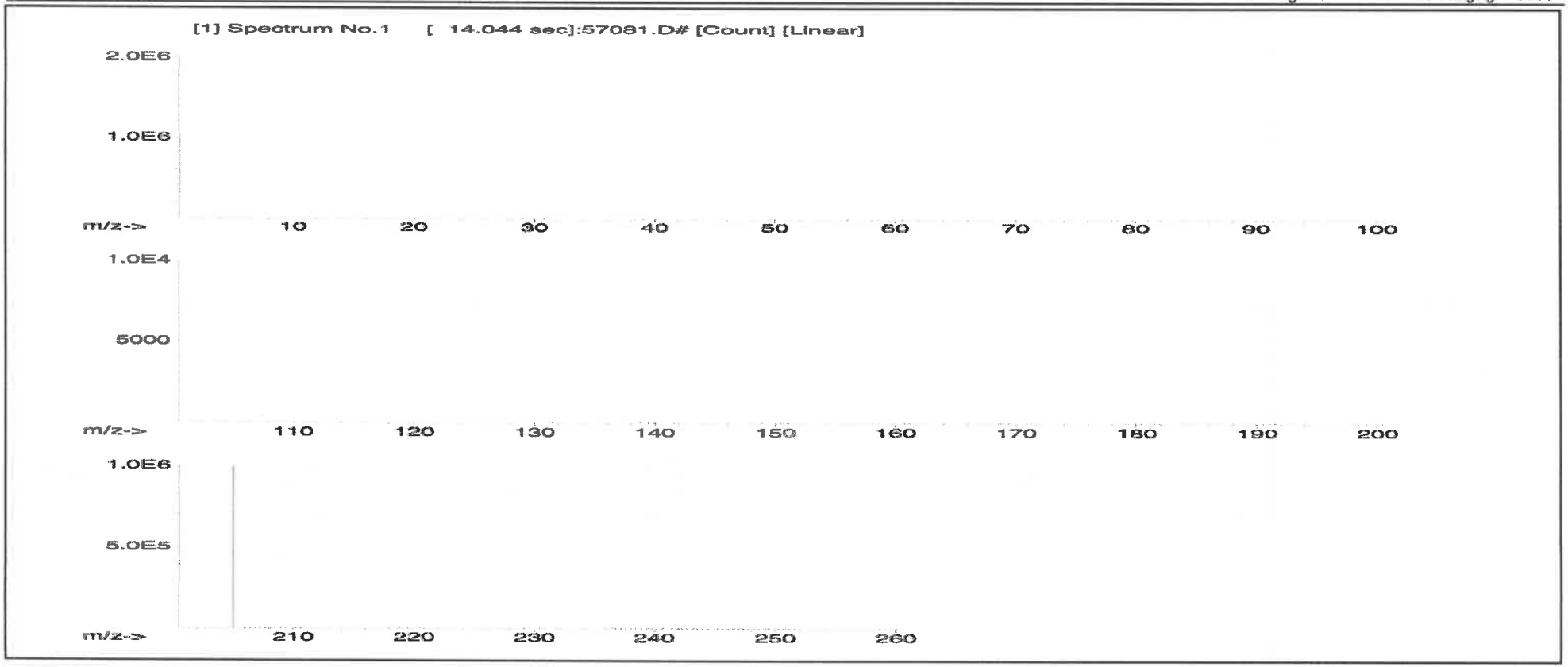
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CERTIFIED WEIGHT REPORT:

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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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:



* 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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Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

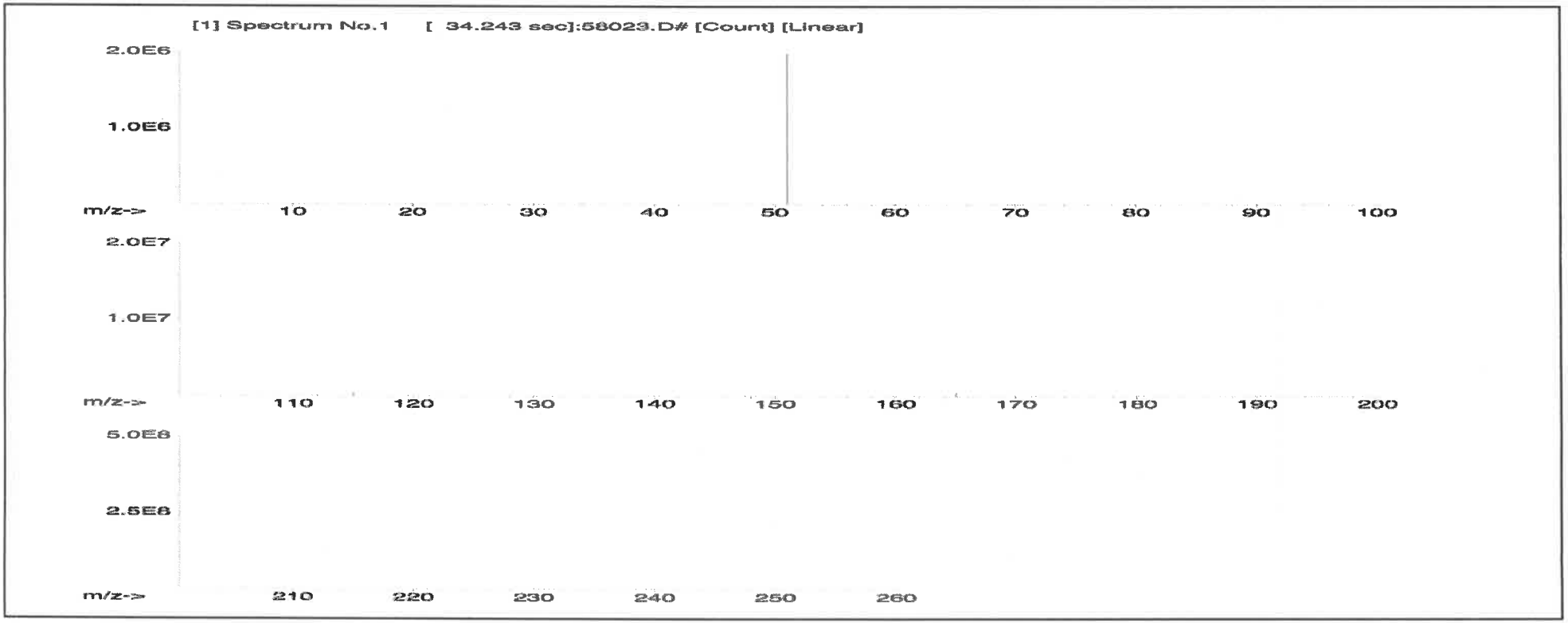
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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Certified Reference Material CRM

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
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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	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

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SHIPPING DOCUMENTS

Q1109

Weston COC ID
Weston_20250115_1527

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Matrix Codes	
SS -	Soil
SE -	Sediment
SO -	Solid
SL -	Sludge
GW -	Groundwater
W -	Water
SB -	Soil Boring
A -	Air
DS -	Drum Solids
DL -	Drum Liquids
L -	EP/TCLP Leachate
WI -	Wipe
X -	Other
F -	Fish

Analyses Requested:	TPH-DRO by EPA 8015D	Pesticides by EPA 8081B	SVOCs by EPA 8270E	Oil & Grease by EPA 1664A	Hardness by Calc by EPA 200.7	Anions by EPA 9056A	TOC by EPA 9060A/Lloyd Kahn	TPH-GRO by EPA 8015D	VOCs by EPA 8260D	Hex Chromium by EPA 7196A	Ammonia by SM4500-NH3 B&G	TAL Metals w Hg by 6020B/7470A
Container Type:	Amber	Amber	Amber	Glass	Plastic	Plastic	Vial	Vial	Vial	Plastic	Plastic	Plastic
Container Size:	1 L	1 L	1 L	1 L	1 L	1 L	40 mL	40 mL	40 mL	500 mL	500 mL	500 mL
Preservative:	Ice to 0-6 deg C	Ice to 0-6 deg C	Ice to 0-6 deg C	H2SO4	HNO3	Ice to 0-6 deg C	H2SO4	HCL	HCL	Ammonium Sulfate	H2SO4	HNO3

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected												Special Instructions/Comments
1	TAPIAL1-MW04I-011525-00-T3	g	GW	4	no	1/15/2025	12:20					X		X				X	
2	TAPIAL1-MW04S-011525-00-T2	g	GW	19	no	1/15/2025	12:20	X	X	X	X	X	X	X	X	X	X	X	X	
3	TAP-TB-01-011525	g	W	2	no	1/15/2025	15:35									X				
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Shipping Airbill Number: 771460519011, 771460519022 Temp 2.2°C Cooler Number: 1 + 2 of 2

	Relinquished By	Date	Time	Received By	Date	Time	Additional Comments
1.)	Clyn Hyt	1/15/25	1700		1-16-25	0932	QSM 6.0 Compliant
2.)							Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD
3.)							

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1109 WEST04
Client Name : Weston Solutions
Client Contact : Nathan Fretz
Invoice Name : Weston Solutions
Invoice Contact : Nathan Fretz

Order Date : 1/16/2025 11:32:00 AM
Project Name : Ft Meade Tipton Airfield Pa
Receive DateTime : 1/16/2025 9:32:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : SEDD 2A
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	01/15/2025	12:20					
					Gasoline Range Organics		8015D		10 Bus. Days

Relinguished By : [signature]
Date / Time : 1-16-25 1315

Received By : [signature]
Date / Time : 1-16-25 2:10 PM

Storage Area : VOA Refridgerator Room

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1109 WEST04
Client Name : Weston Solutions
Client Contact : Nathan Fretz
Invoice Name : Weston Solutions
Invoice Contact : Nathan Fretz

Order Date : 1/16/2025 11:32:00 AM
Project Name : Ft Meade Tipton Airfield Pa
Receive DateTime : 1/16/2025 9:32:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : SEDD 2A
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1109-02	TAPIAL1-MW04S-011525-00-T2	Water	01/15/2025	12:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1109-04	TAP-TB-01-011525	Water	01/15/2025	15:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days

stored in VOA ref #05

Relinquished By :
Date / Time : 12-16-25 1315

Received By :
Date / Time : 01/10/25 2:00 pm

Storage Area : VOA Refridgerator Room