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 : Q1588

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

Table Of Contents for Q1588

1) METALS DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 9

7) Chronicle 10

8) Hit Summary 11

9) Sample Data 12

- 9.1) TAPFTA-MW01D-031425-00-T1 13

10) METALS CALIBRATION DATA 14

- 10.1) Initial and Continuing Calibration Verification 15
- 10.2) CRDL Standard For AA & ICP 30
- 10.3) Initial and Continuing Calibration Blank Summary 32
- 10.4) Preparation Blank Summary 45
- 10.5) Interference Check Sample 47

11) METALS QC DATA 51

- 11.1) Matrix Spike Summary 52
- 11.2) Post Digest Spike Summary 56
- 11.3) Duplicate Sample Summary 58
- 11.4) Laboratory Control Sample Summary 62
- 11.5) Internal Standard Relative Intensity Summary8A 64
- 11.6) Internal Standard Relative Intensity Summary8B 72
- 11.7) ICP Serial Dilutions 80

12) METALS PREPARATION & INSTRUMENT DATA 82

13) PREPARATION & ANALYTICAL SUMMARY 83

- 13.1) Sample Preparation Summary 84
- 13.2) Analysis Run Log 86

14) METALS RAW DATA 90

- 14.1) METALS RAW DATA - ANALYTICAL 91
- 14.2) LB135071 91
- 14.3) LB135118 93
- 14.4) LB135143 288
- 14.5) LB135164 603
- 14.6) METALS RAW DATA - PREP 792

14.6.1) PB167196 792
14.6.2) PB167152 795
15) Analytical Runlogs 798
16) Standard Prep Logs 807
17) Shipping Document 953
17.1) Chain Of Custody 954
17.2) Lab Certificate 955

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

Cover Page

Order ID : Q1588

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

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1588-01	TAPFTA-MW01D-031425-00-T1

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: 3/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions
Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Project # N/A
Chemtech Project # Q1588
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
1 Water sample was received on 03/17/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL and TOC. 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 analysis met criteria for all samples.
The Matrix Spike (FRAC-TANK-FMI120MS) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike (TAPFTA-MW01D-031425-00-T1MS) analysis met criteria for all samples except for Arsenic, Barium, Calcium, Copper, Manganese, Potassium, Silver due to matrix interference.
The Matrix Spike Duplicate (FRAC-TANK-FMI120MSD) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike Duplicate (TAPFTA-MW01D-031425-00-T1MSD) analysis met criteria for all samples except for Arsenic, Copper, Manganese, Potassium, Silver, Zinc due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Calculations:
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:

Concentration or Result (µg/L) = C x DF

Where,

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

F. Additional Comments:

Internal standard 89Y(1&2) are out side of qc limit for samples Q1588-01 and it's QC set, so for these samples affacted parameters are reported from 5X dilutions.

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.

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

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1588 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.			✓
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 (FRAC-TANK-FMI120MS) analysis met criteria for all samples except for Mercury due to matrix interference. The Matrix Spike (TAPFTA-MW01D-031425-00-T1MS) analysis met criteria for all samples except for Arsenic, Barium, Calcium, Copper, Manganese, Potassium, Silver due to matrix interference. The Matrix Spike Duplicate (FRAC-TANK-FMI120MSD) analysis met criteria for all samples except for Mercury due to matrix interference. The Matrix Spike Duplicate (TAPFTA-MW01D-031425-00-T1MSD) analysis met criteria for all samples except for Arsenic, Copper, Manganese, Potassium, Silver, Zinc due to matrix interference.			
7.	Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
8.	Digestion Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

ADDITIONAL COMMENTS: nternal standard 89Y(1&2) are out side of qc limit for samples Q1588-01 and it's QC set, so for these samples affacted parameters are reported from 5X dilutions.

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,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1588

	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: MOHAMMAD AHMED **Date:** 03/28/2025

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

LAB CHRONICLE

OrderID:	Q1588	**OrderDate:**	3/17/2025 10:02:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	I41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1588-01	**TAPFTA-MW01D-0314 25-00-T1**	**Water**			**03/14/25**			**03/17/25**
			Mercury	7470A		03/18/25	03/18/25	
			Metals ICP-TAL	6020B		03/17/25	03/23/25	
			Metals ICP-TAL	6020B		03/17/25	03/24/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1588 **Order ID:** Q1588

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 :	**TAPFTA-MW01D-031425-00-T1**								
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Aluminum	2870		1.94	10.0	20.0	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Antimony	0.27	J	0.11	0.25	2.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Arsenic	2.55	JD	0.45	1.25	5.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Barium	58.2		0.21	1.25	10.0	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Beryllium	1.48		0.32	0.75	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Calcium	4350		45.7	190	500	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Chromium	24.7		0.21	0.75	2.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Cobalt	4.32		0.070	0.25	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Copper	18.3		0.30	1.50	2.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Iron	6310		7.81	25.0	50.0	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Lead	8.21		0.21	0.75	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Magnesium	893		19.5	190	500	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Manganese	81.9		0.43	0.75	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Nickel	11.2		0.27	0.75	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Potassium	1470		36.4	190	500	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Sodium	15300		128	190	500	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Thallium	0.14	J	0.060	0.50	1.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Vanadium	86.5		0.077	0.25	5.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Zinc	25.0		1.25	1.50	5.00	ug/L
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Hardness, Total	14500		194	1260	3310	ug/L

SAMPLE DATA

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:	03/14/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	03/17/25
Client Sample ID:	TAPFTA-MW01D-031425-00-T1	SDG No.:	Q1588
Lab Sample ID:	Q1588-01	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	2870		1	1.94	10.0	20.0	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-36-0	Antimony	0.27	J	1	0.11	0.25	2.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-38-2	Arsenic	2.55	JDN	5	0.45	1.25	5.00	ug/L	03/17/25 18:05	03/24/25 16:04	SW6020	3010A
7440-39-3	Barium	58.2	N	1	0.21	1.25	10.0	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-41-7	Beryllium	1.48		1	0.32	0.75	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-43-9	Cadmium	0.50	U	1	0.34	0.50	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-70-2	Calcium	4350	N	1	45.7	190	500	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-47-3	Chromium	24.7		1	0.21	0.75	2.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-48-4	Cobalt	4.32		1	0.070	0.25	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-50-8	Copper	18.3	N	1	0.30	1.50	2.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
Hardness	Hardness, Total	14500		1	194	1260	3310	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7439-89-6	Iron	6310		1	7.81	25.0	50.0	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7439-92-1	Lead	8.21		1	0.21	0.75	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7439-95-4	Magnesium	893		1	19.5	190	500	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7439-96-5	Manganese	81.9	N	1	0.43	0.75	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	03/18/25 08:35	03/18/25 14:28	SW7470A	
7440-02-0	Nickel	11.2		1	0.27	0.75	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-09-7	Potassium	1470	N	1	36.4	190	500	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	03/17/25 18:05	03/24/25 16:04	SW6020	3010A
7440-22-4	Silver	0.50	UN	1	0.060	0.50	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-23-5	Sodium	15300		1	128	190	500	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-28-0	Thallium	0.14	J	1	0.060	0.50	1.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-62-2	Vanadium	86.5		1	0.077	0.25	5.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A
7440-66-6	Zinc	25.0	N	1	1.25	1.50	5.00	ug/L	03/17/25 18:05	03/23/25 17:15	SW6020	3010A

Color Before:	Brown	Clarity Before:	Cloudy	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

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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
ICV47	Mercury	4.20	4.0	105	90 - 110	CV	03/18/2025	13:42	LB135071

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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
CCV23	Mercury	5.18	5.0	104	90 - 110	CV	03/18/2025	13:47	LB135071
CCV24	Mercury	4.71	5.0	94	90 - 110	CV	03/18/2025	14:17	LB135071
CCV25	Mercury	4.79	5.0	96	90 - 110	CV	03/18/2025	14:54	LB135071

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	496	500	99	90 - 110	P	03/20/2025	17:16	LB135118
	Antimony	194	200	97	90 - 110	P	03/20/2025	17:16	LB135118
	Arsenic	217	200	108	90 - 110	P	03/20/2025	17:16	LB135118
	Barium	97.0	100	97	90 - 110	P	03/20/2025	17:16	LB135118
	Beryllium	100	100	100	90 - 110	P	03/20/2025	17:16	LB135118
	Cadmium	104	100	104	90 - 110	P	03/20/2025	17:16	LB135118
	Calcium	1940	2000	97	90 - 110	P	03/20/2025	17:16	LB135118
	Chromium	100	100	100	90 - 110	P	03/20/2025	17:16	LB135118
	Cobalt	99.7	100	100	90 - 110	P	03/20/2025	17:16	LB135118
	Copper	92.6	100	93	90 - 110	P	03/20/2025	17:16	LB135118
	Iron	2120	2000	106	90 - 110	P	03/20/2025	17:16	LB135118
	Lead	194	200	97	90 - 110	P	03/20/2025	17:16	LB135118
	Magnesium	1150	1200	95	90 - 110	P	03/20/2025	17:16	LB135118
	Manganese	96.9	100	97	90 - 110	P	03/20/2025	17:16	LB135118
	Nickel	110	110	100	90 - 110	P	03/20/2025	17:16	LB135118
	Potassium	1920	2000	96	90 - 110	P	03/20/2025	17:16	LB135118
	Selenium	197	200	98	90 - 110	P	03/20/2025	17:16	LB135118
	Silver	49.8	50.0	100	90 - 110	P	03/20/2025	17:16	LB135118
	Sodium	1820	2000	91	90 - 110	P	03/20/2025	17:16	LB135118
	Thallium	211	210	100	90 - 110	P	03/20/2025	17:16	LB135118
	Vanadium	97.6	100	98	90 - 110	P	03/20/2025	17:16	LB135118
	Zinc	181	200	90	90 - 110	P	03/20/2025	17:16	LB135118

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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
LLICV01	Aluminum	18.9	20.0	95	80 - 120	P	03/20/2025	17:19	LB135118
	Antimony	2.14	2.0	107	80 - 120	P	03/20/2025	17:19	LB135118
	Arsenic	1.14	1.0	114	80 - 120	P	03/20/2025	17:19	LB135118
	Barium	9.92	10.0	99	80 - 120	P	03/20/2025	17:19	LB135118
	Beryllium	1.15	1.0	115	80 - 120	P	03/20/2025	17:19	LB135118
	Cadmium	1.19	1.0	119	80 - 120	P	03/20/2025	17:19	LB135118
	Calcium	531	500	106	80 - 120	P	03/20/2025	17:19	LB135118
	Chromium	2.04	2.0	102	80 - 120	P	03/20/2025	17:19	LB135118
	Cobalt	1.08	1.0	108	80 - 120	P	03/20/2025	17:19	LB135118
	Copper	1.85	2.0	92	80 - 120	P	03/20/2025	17:19	LB135118
	Iron	57.9	50.0	116	80 - 120	P	03/20/2025	17:19	LB135118
	Lead	1.04	1.0	104	80 - 120	P	03/20/2025	17:19	LB135118
	Magnesium	477	500	95	80 - 120	P	03/20/2025	17:19	LB135118
	Manganese	0.97	1.0	97	80 - 120	P	03/20/2025	17:19	LB135118
	Nickel	1.10	1.0	110	80 - 120	P	03/20/2025	17:19	LB135118
	Potassium	500	500	100	80 - 120	P	03/20/2025	17:19	LB135118
	Selenium	5.19	5.0	104	80 - 120	P	03/20/2025	17:19	LB135118
	Silver	1.06	1.0	106	80 - 120	P	03/20/2025	17:19	LB135118
	Sodium	472	500	94	80 - 120	P	03/20/2025	17:19	LB135118
	Thallium	0.92	1.0	92	80 - 120	P	03/20/2025	17:19	LB135118
	Vanadium	5.24	5.0	105	80 - 120	P	03/20/2025	17:19	LB135118
	Zinc	4.82	5.0	96	80 - 120	P	03/20/2025	17:19	LB135118

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	49500	50000	99	90 - 110	P	03/20/2025	17:49	LB135118
	Antimony	514	500	103	90 - 110	P	03/20/2025	17:49	LB135118
	Arsenic	497	500	100	90 - 110	P	03/20/2025	17:49	LB135118
	Barium	2590	2500	103	90 - 110	P	03/20/2025	17:49	LB135118
	Beryllium	517	500	103	90 - 110	P	03/20/2025	17:49	LB135118
	Cadmium	499	500	100	90 - 110	P	03/20/2025	17:49	LB135118
	Calcium	258000	250000	103	90 - 110	P	03/20/2025	17:49	LB135118
	Chromium	517	500	104	90 - 110	P	03/20/2025	17:49	LB135118
	Cobalt	512	500	102	90 - 110	P	03/20/2025	17:49	LB135118
	Copper	5010	5000	100	90 - 110	P	03/20/2025	17:49	LB135118
	Iron	133000	125000	106	90 - 110	P	03/20/2025	17:49	LB135118
	Lead	2600	2500	104	90 - 110	P	03/20/2025	17:49	LB135118
	Magnesium	254000	250000	101	90 - 110	P	03/20/2025	17:49	LB135118
	Manganese	5090	5000	102	90 - 110	P	03/20/2025	17:49	LB135118
	Nickel	495	500	99	90 - 110	P	03/20/2025	17:49	LB135118
	Potassium	127000	125000	101	90 - 110	P	03/20/2025	17:49	LB135118
	Selenium	491	500	98	90 - 110	P	03/20/2025	17:49	LB135118
	Silver	489	500	98	90 - 110	P	03/20/2025	17:49	LB135118
	Sodium	250000	250000	100	90 - 110	P	03/20/2025	17:49	LB135118
	Thallium	516	500	103	90 - 110	P	03/20/2025	17:49	LB135118
	Vanadium	478	500	96	90 - 110	P	03/20/2025	17:49	LB135118
	Zinc	4860	5000	97	90 - 110	P	03/20/2025	17:49	LB135118
CCV02	Aluminum	50000	50000	100	90 - 110	P	03/20/2025	18:36	LB135118
	Antimony	506	500	101	90 - 110	P	03/20/2025	18:36	LB135118
	Arsenic	503	500	101	90 - 110	P	03/20/2025	18:36	LB135118
	Barium	2520	2500	101	90 - 110	P	03/20/2025	18:36	LB135118
	Beryllium	502	500	100	90 - 110	P	03/20/2025	18:36	LB135118
	Cadmium	487	500	98	90 - 110	P	03/20/2025	18:36	LB135118
	Calcium	251000	250000	100	90 - 110	P	03/20/2025	18:36	LB135118
	Chromium	514	500	103	90 - 110	P	03/20/2025	18:36	LB135118
	Cobalt	512	500	102	90 - 110	P	03/20/2025	18:36	LB135118
	Copper	5000	5000	100	90 - 110	P	03/20/2025	18:36	LB135118
	Iron	134000	125000	107	90 - 110	P	03/20/2025	18:36	LB135118
	Lead	2530	2500	101	90 - 110	P	03/20/2025	18:36	LB135118

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	252000	250000	101	90 - 110	P	03/20/2025	18:36	LB135118
	Manganese	5080	5000	102	90 - 110	P	03/20/2025	18:36	LB135118
	Nickel	496	500	99	90 - 110	P	03/20/2025	18:36	LB135118
	Potassium	127000	125000	101	90 - 110	P	03/20/2025	18:36	LB135118
	Selenium	491	500	98	90 - 110	P	03/20/2025	18:36	LB135118
	Silver	476	500	95	90 - 110	P	03/20/2025	18:36	LB135118
	Sodium	254000	250000	101	90 - 110	P	03/20/2025	18:36	LB135118
	Thallium	508	500	102	90 - 110	P	03/20/2025	18:36	LB135118
	Vanadium	477	500	96	90 - 110	P	03/20/2025	18:36	LB135118
	Zinc	4840	5000	97	90 - 110	P	03/20/2025	18:36	LB135118

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	493	500	99	90 - 110	P	03/23/2025	15:35	LB135143
	Antimony	195	200	97	90 - 110	P	03/23/2025	15:35	LB135143
	Arsenic	215	200	107	90 - 110	P	03/23/2025	15:35	LB135143
	Barium	96.7	100	97	90 - 110	P	03/23/2025	15:35	LB135143
	Beryllium	96.7	100	97	90 - 110	P	03/23/2025	15:35	LB135143
	Cadmium	105	100	105	90 - 110	P	03/23/2025	15:35	LB135143
	Calcium	1880	2000	94	90 - 110	P	03/23/2025	15:35	LB135143
	Chromium	96.5	100	96	90 - 110	P	03/23/2025	15:35	LB135143
	Cobalt	96.6	100	97	90 - 110	P	03/23/2025	15:35	LB135143
	Copper	99.4	100	99	90 - 110	P	03/23/2025	15:35	LB135143
	Iron	2040	2000	102	90 - 110	P	03/23/2025	15:35	LB135143
	Lead	207	200	103	90 - 110	P	03/23/2025	15:35	LB135143
	Magnesium	1110	1200	93	90 - 110	P	03/23/2025	15:35	LB135143
	Manganese	101	100	101	90 - 110	P	03/23/2025	15:35	LB135143
	Nickel	120	110	110	90 - 110	P	03/23/2025	15:35	LB135143
	Potassium	1890	2000	94	90 - 110	P	03/23/2025	15:35	LB135143
	Selenium	220	200	110	90 - 110	P	03/23/2025	15:35	LB135143
	Silver	47.9	50.0	96	90 - 110	P	03/23/2025	15:35	LB135143
	Sodium	1870	2000	93	90 - 110	P	03/23/2025	15:35	LB135143
	Thallium	207	210	99	90 - 110	P	03/23/2025	15:35	LB135143
	Vanadium	93.5	100	94	90 - 110	P	03/23/2025	15:35	LB135143
	Zinc	185	200	93	90 - 110	P	03/23/2025	15:35	LB135143

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	18.0	20.0	90	80 - 120	P	03/23/2025	15:47	LB135143
	Antimony	1.91	2.0	96	80 - 120	P	03/23/2025	15:47	LB135143
	Arsenic	1.16	1.0	116	80 - 120	P	03/23/2025	15:47	LB135143
	Barium	9.20	10.0	92	80 - 120	P	03/23/2025	15:47	LB135143
	Beryllium	1.03	1.0	103	80 - 120	P	03/23/2025	15:47	LB135143
	Cadmium	0.99	1.0	99	80 - 120	P	03/23/2025	15:47	LB135143
	Calcium	451	500	90	80 - 120	P	03/23/2025	15:47	LB135143
	Chromium	1.85	2.0	92	80 - 120	P	03/23/2025	15:47	LB135143
	Cobalt	0.97	1.0	97	80 - 120	P	03/23/2025	15:47	LB135143
	Copper	1.77	2.0	88	80 - 120	P	03/23/2025	15:47	LB135143
	Iron	54.4	50.0	109	80 - 120	P	03/23/2025	15:47	LB135143
	Lead	0.82	1.0	82	80 - 120	P	03/23/2025	15:47	LB135143
	Magnesium	441	500	88	80 - 120	P	03/23/2025	15:47	LB135143
	Manganese	0.81	1.0	81	80 - 120	P	03/23/2025	15:47	LB135143
	Nickel	0.89	1.0	89	80 - 120	P	03/23/2025	15:47	LB135143
	Potassium	463	500	93	80 - 120	P	03/23/2025	15:47	LB135143
	Selenium	5.09	5.0	102	80 - 120	P	03/23/2025	15:47	LB135143
	Silver	0.99	1.0	99	80 - 120	P	03/23/2025	15:47	LB135143
	Sodium	440	500	88	80 - 120	P	03/23/2025	15:47	LB135143
	Thallium	0.87	1.0	87	80 - 120	P	03/23/2025	15:47	LB135143
	Vanadium	4.50	5.0	90	80 - 120	P	03/23/2025	15:47	LB135143
	Zinc	4.30	5.0	86	80 - 120	P	03/23/2025	15:47	LB135143

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	49800	50000	100	90 - 110	P	03/23/2025	16:00	LB135143
	Antimony	504	500	101	90 - 110	P	03/23/2025	16:00	LB135143
	Arsenic	487	500	97	90 - 110	P	03/23/2025	16:00	LB135143
	Barium	2560	2500	103	90 - 110	P	03/23/2025	16:00	LB135143
	Beryllium	453	500	91	90 - 110	P	03/23/2025	16:00	LB135143
	Cadmium	457	500	91	90 - 110	P	03/23/2025	16:00	LB135143
	Calcium	246000	250000	98	90 - 110	P	03/23/2025	16:00	LB135143
	Chromium	503	500	100	90 - 110	P	03/23/2025	16:00	LB135143
	Cobalt	490	500	98	90 - 110	P	03/23/2025	16:00	LB135143
	Copper	5040	5000	101	90 - 110	P	03/23/2025	16:00	LB135143
	Iron	129000	125000	103	90 - 110	P	03/23/2025	16:00	LB135143
	Lead	2580	2500	103	90 - 110	P	03/23/2025	16:00	LB135143
	Magnesium	248000	250000	99	90 - 110	P	03/23/2025	16:00	LB135143
	Manganese	4980	5000	100	90 - 110	P	03/23/2025	16:00	LB135143
	Nickel	508	500	102	90 - 110	P	03/23/2025	16:00	LB135143
	Potassium	124000	125000	99	90 - 110	P	03/23/2025	16:00	LB135143
	Selenium	478	500	96	90 - 110	P	03/23/2025	16:00	LB135143
	Silver	457	500	91	90 - 110	P	03/23/2025	16:00	LB135143
	Sodium	244000	250000	98	90 - 110	P	03/23/2025	16:00	LB135143
	Thallium	527	500	105	90 - 110	P	03/23/2025	16:00	LB135143
	Vanadium	505	500	101	90 - 110	P	03/23/2025	16:00	LB135143
	Zinc	4890	5000	98	90 - 110	P	03/23/2025	16:00	LB135143
CCV02	Aluminum	50700	50000	101	90 - 110	P	03/23/2025	16:45	LB135143
	Antimony	502	500	100	90 - 110	P	03/23/2025	16:45	LB135143
	Arsenic	492	500	98	90 - 110	P	03/23/2025	16:45	LB135143
	Barium	2550	2500	102	90 - 110	P	03/23/2025	16:45	LB135143
	Beryllium	492	500	98	90 - 110	P	03/23/2025	16:45	LB135143
	Cadmium	457	500	91	90 - 110	P	03/23/2025	16:45	LB135143
	Calcium	250000	250000	100	90 - 110	P	03/23/2025	16:45	LB135143
	Chromium	505	500	101	90 - 110	P	03/23/2025	16:45	LB135143
	Cobalt	501	500	100	90 - 110	P	03/23/2025	16:45	LB135143
	Copper	5150	5000	103	90 - 110	P	03/23/2025	16:45	LB135143
	Iron	131000	125000	105	90 - 110	P	03/23/2025	16:45	LB135143
	Lead	2540	2500	102	90 - 110	P	03/23/2025	16:45	LB135143

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	252000	250000	101	90 - 110	P	03/23/2025	16:45	LB135143
	Manganese	5030	5000	101	90 - 110	P	03/23/2025	16:45	LB135143
	Nickel	516	500	103	90 - 110	P	03/23/2025	16:45	LB135143
	Potassium	128000	125000	102	90 - 110	P	03/23/2025	16:45	LB135143
	Selenium	477	500	95	90 - 110	P	03/23/2025	16:45	LB135143
	Silver	458	500	92	90 - 110	P	03/23/2025	16:45	LB135143
	Sodium	252000	250000	101	90 - 110	P	03/23/2025	16:45	LB135143
	Thallium	523	500	104	90 - 110	P	03/23/2025	16:45	LB135143
	Vanadium	516	500	103	90 - 110	P	03/23/2025	16:45	LB135143
	Zinc	5020	5000	100	90 - 110	P	03/23/2025	16:45	LB135143
CCV03	Aluminum	50800	50000	102	90 - 110	P	03/23/2025	17:31	LB135143
	Antimony	496	500	99	90 - 110	P	03/23/2025	17:31	LB135143
	Arsenic	481	500	96	90 - 110	P	03/23/2025	17:31	LB135143
	Barium	2530	2500	101	90 - 110	P	03/23/2025	17:31	LB135143
	Beryllium	486	500	97	90 - 110	P	03/23/2025	17:31	LB135143
	Cadmium	453	500	91	90 - 110	P	03/23/2025	17:31	LB135143
	Calcium	248000	250000	99	90 - 110	P	03/23/2025	17:31	LB135143
	Chromium	498	500	100	90 - 110	P	03/23/2025	17:31	LB135143
	Cobalt	495	500	99	90 - 110	P	03/23/2025	17:31	LB135143
	Copper	5140	5000	103	90 - 110	P	03/23/2025	17:31	LB135143
	Iron	131000	125000	105	90 - 110	P	03/23/2025	17:31	LB135143
	Lead	2550	2500	102	90 - 110	P	03/23/2025	17:31	LB135143
	Magnesium	253000	250000	101	90 - 110	P	03/23/2025	17:31	LB135143
	Manganese	5020	5000	100	90 - 110	P	03/23/2025	17:31	LB135143
	Nickel	514	500	103	90 - 110	P	03/23/2025	17:31	LB135143
	Potassium	126000	125000	101	90 - 110	P	03/23/2025	17:31	LB135143
	Selenium	476	500	95	90 - 110	P	03/23/2025	17:31	LB135143
	Silver	454	500	91	90 - 110	P	03/23/2025	17:31	LB135143
	Sodium	253000	250000	101	90 - 110	P	03/23/2025	17:31	LB135143
	Thallium	513	500	103	90 - 110	P	03/23/2025	17:31	LB135143
	Vanadium	511	500	102	90 - 110	P	03/23/2025	17:31	LB135143
	Zinc	4950	5000	99	90 - 110	P	03/23/2025	17:31	LB135143
CCV04	Aluminum	51000	50000	102	90 - 110	P	03/23/2025	18:20	LB135143
	Antimony	511	500	102	90 - 110	P	03/23/2025	18:20	LB135143

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	498	500	100	90 - 110	P	03/23/2025	18:20	LB135143
	Barium	2530	2500	101	90 - 110	P	03/23/2025	18:20	LB135143
	Beryllium	457	500	92	90 - 110	P	03/23/2025	18:20	LB135143
	Cadmium	494	500	99	90 - 110	P	03/23/2025	18:20	LB135143
	Calcium	247000	250000	99	90 - 110	P	03/23/2025	18:20	LB135143
	Chromium	501	500	100	90 - 110	P	03/23/2025	18:20	LB135143
	Cobalt	499	500	100	90 - 110	P	03/23/2025	18:20	LB135143
	Copper	5140	5000	103	90 - 110	P	03/23/2025	18:20	LB135143
	Iron	130000	125000	104	90 - 110	P	03/23/2025	18:20	LB135143
	Lead	2570	2500	103	90 - 110	P	03/23/2025	18:20	LB135143
	Magnesium	254000	250000	102	90 - 110	P	03/23/2025	18:20	LB135143
	Manganese	4980	5000	100	90 - 110	P	03/23/2025	18:20	LB135143
	Nickel	490	500	98	90 - 110	P	03/23/2025	18:20	LB135143
	Potassium	126000	125000	101	90 - 110	P	03/23/2025	18:20	LB135143
	Selenium	478	500	96	90 - 110	P	03/23/2025	18:20	LB135143
	Silver	469	500	94	90 - 110	P	03/23/2025	18:20	LB135143
	Sodium	250000	250000	100	90 - 110	P	03/23/2025	18:20	LB135143
	Thallium	521	500	104	90 - 110	P	03/23/2025	18:20	LB135143
	Vanadium	514	500	103	90 - 110	P	03/23/2025	18:20	LB135143
	Zinc	5020	5000	100	90 - 110	P	03/23/2025	18:20	LB135143

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	465	500	93	90 - 110	P	03/24/2025	15:23	LB135164
	Antimony	200	200	100	90 - 110	P	03/24/2025	15:23	LB135164
	Arsenic	201	200	101	90 - 110	P	03/24/2025	15:23	LB135164
	Barium	98.9	100	99	90 - 110	P	03/24/2025	15:23	LB135164
	Beryllium	102	100	102	90 - 110	P	03/24/2025	15:23	LB135164
	Cadmium	109	100	109	90 - 110	P	03/24/2025	15:23	LB135164
	Calcium	2210	2000	110	90 - 110	P	03/24/2025	15:23	LB135164
	Chromium	102	100	102	90 - 110	P	03/24/2025	15:23	LB135164
	Cobalt	101	100	101	90 - 110	P	03/24/2025	15:23	LB135164
	Copper	93.3	100	93	90 - 110	P	03/24/2025	15:23	LB135164
	Iron	2180	2000	109	90 - 110	P	03/24/2025	15:23	LB135164
	Lead	190	200	95	90 - 110	P	03/24/2025	15:23	LB135164
	Magnesium	1080	1200	90	90 - 110	P	03/24/2025	15:23	LB135164
	Manganese	90.4	100	90	90 - 110	P	03/24/2025	15:23	LB135164
	Nickel	103	110	93	90 - 110	P	03/24/2025	15:23	LB135164
	Potassium	1960	2000	98	90 - 110	P	03/24/2025	15:23	LB135164
	Selenium	213	200	106	90 - 110	P	03/24/2025	15:23	LB135164
	Silver	49.7	50.0	99	90 - 110	P	03/24/2025	15:23	LB135164
	Sodium	1860	2000	93	90 - 110	P	03/24/2025	15:23	LB135164
	Thallium	194	210	92	90 - 110	P	03/24/2025	15:23	LB135164
	Vanadium	96.5	100	96	90 - 110	P	03/24/2025	15:23	LB135164
	Zinc	187	200	94	90 - 110	P	03/24/2025	15:23	LB135164

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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
LLICV01	Aluminum	20.3	20.0	102	80 - 120	P	03/24/2025	15:32	LB135164
	Antimony	2.12	2.0	106	80 - 120	P	03/24/2025	15:32	LB135164
	Arsenic	1.01	1.0	101	80 - 120	P	03/24/2025	15:32	LB135164
	Barium	10.2	10.0	102	80 - 120	P	03/24/2025	15:32	LB135164
	Beryllium	1.02	1.0	102	80 - 120	P	03/24/2025	15:32	LB135164
	Cadmium	1.07	1.0	107	80 - 120	P	03/24/2025	15:32	LB135164
	Calcium	542	500	108	80 - 120	P	03/24/2025	15:32	LB135164
	Chromium	2.13	2.0	106	80 - 120	P	03/24/2025	15:32	LB135164
	Cobalt	1.08	1.0	108	80 - 120	P	03/24/2025	15:32	LB135164
	Copper	2.02	2.0	101	80 - 120	P	03/24/2025	15:32	LB135164
	Iron	58.6	50.0	117	80 - 120	P	03/24/2025	15:32	LB135164
	Lead	0.97	1.0	97	80 - 120	P	03/24/2025	15:32	LB135164
	Magnesium	505	500	101	80 - 120	P	03/24/2025	15:32	LB135164
	Manganese	1.01	1.0	101	80 - 120	P	03/24/2025	15:32	LB135164
	Nickel	0.98	1.0	98	80 - 120	P	03/24/2025	15:32	LB135164
	Potassium	527	500	105	80 - 120	P	03/24/2025	15:32	LB135164
	Selenium	5.82	5.0	116	80 - 120	P	03/24/2025	15:32	LB135164
	Silver	1.07	1.0	107	80 - 120	P	03/24/2025	15:32	LB135164
	Sodium	503	500	100	80 - 120	P	03/24/2025	15:32	LB135164
	Thallium	0.96	1.0	96	80 - 120	P	03/24/2025	15:32	LB135164
	Vanadium	5.21	5.0	104	80 - 120	P	03/24/2025	15:32	LB135164
	Zinc	5.08	5.0	102	80 - 120	P	03/24/2025	15:32	LB135164

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	47600	50000	95	90 - 110	P	03/24/2025	15:55	LB135164
	Antimony	503	500	100	90 - 110	P	03/24/2025	15:55	LB135164
	Arsenic	504	500	101	90 - 110	P	03/24/2025	15:55	LB135164
	Barium	2540	2500	102	90 - 110	P	03/24/2025	15:55	LB135164
	Beryllium	506	500	101	90 - 110	P	03/24/2025	15:55	LB135164
	Cadmium	488	500	98	90 - 110	P	03/24/2025	15:55	LB135164
	Calcium	249000	250000	99	90 - 110	P	03/24/2025	15:55	LB135164
	Chromium	506	500	101	90 - 110	P	03/24/2025	15:55	LB135164
	Cobalt	500	500	100	90 - 110	P	03/24/2025	15:55	LB135164
	Copper	4940	5000	99	90 - 110	P	03/24/2025	15:55	LB135164
	Iron	131000	125000	104	90 - 110	P	03/24/2025	15:55	LB135164
	Lead	2560	2500	102	90 - 110	P	03/24/2025	15:55	LB135164
	Magnesium	247000	250000	99	90 - 110	P	03/24/2025	15:55	LB135164
	Manganese	4970	5000	99	90 - 110	P	03/24/2025	15:55	LB135164
	Nickel	490	500	98	90 - 110	P	03/24/2025	15:55	LB135164
	Potassium	125000	125000	100	90 - 110	P	03/24/2025	15:55	LB135164
	Selenium	488	500	98	90 - 110	P	03/24/2025	15:55	LB135164
	Silver	514	500	103	90 - 110	P	03/24/2025	15:55	LB135164
	Sodium	244000	250000	98	90 - 110	P	03/24/2025	15:55	LB135164
	Thallium	511	500	102	90 - 110	P	03/24/2025	15:55	LB135164
	Vanadium	506	500	101	90 - 110	P	03/24/2025	15:55	LB135164
	Zinc	4760	5000	95	90 - 110	P	03/24/2025	15:55	LB135164
CCV02	Aluminum	47500	50000	95	90 - 110	P	03/24/2025	16:25	LB135164
	Antimony	510	500	102	90 - 110	P	03/24/2025	16:25	LB135164
	Arsenic	497	500	99	90 - 110	P	03/24/2025	16:25	LB135164
	Barium	2570	2500	103	90 - 110	P	03/24/2025	16:25	LB135164
	Beryllium	510	500	102	90 - 110	P	03/24/2025	16:25	LB135164
	Cadmium	495	500	99	90 - 110	P	03/24/2025	16:25	LB135164
	Calcium	250000	250000	100	90 - 110	P	03/24/2025	16:25	LB135164
	Chromium	503	500	101	90 - 110	P	03/24/2025	16:25	LB135164
	Cobalt	497	500	99	90 - 110	P	03/24/2025	16:25	LB135164
	Copper	4840	5000	97	90 - 110	P	03/24/2025	16:25	LB135164
	Iron	130000	125000	104	90 - 110	P	03/24/2025	16:25	LB135164
	Lead	2570	2500	103	90 - 110	P	03/24/2025	16:25	LB135164

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	252000	250000	101	90 - 110	P	03/24/2025	16:25	LB135164
	Manganese	5000	5000	100	90 - 110	P	03/24/2025	16:25	LB135164
	Nickel	485	500	97	90 - 110	P	03/24/2025	16:25	LB135164
	Potassium	124000	125000	99	90 - 110	P	03/24/2025	16:25	LB135164
	Selenium	486	500	97	90 - 110	P	03/24/2025	16:25	LB135164
	Silver	516	500	103	90 - 110	P	03/24/2025	16:25	LB135164
	Sodium	241000	250000	96	90 - 110	P	03/24/2025	16:25	LB135164
	Thallium	520	500	104	90 - 110	P	03/24/2025	16:25	LB135164
	Vanadium	501	500	100	90 - 110	P	03/24/2025	16:25	LB135164
	Zinc	4720	5000	94	90 - 110	P	03/24/2025	16:25	LB135164

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

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	0.19	0.2	97	40 - 160	CV	03/18/2025	13:51	LB135071
CRI	Aluminum	23.0	20.0	115	70 - 130	P	03/20/2025	17:59	LB135118
	Antimony	2.03	2.0	102	70 - 130	P	03/20/2025	17:59	LB135118
	Arsenic	1.23	1.0	123	70 - 130	P	03/20/2025	17:59	LB135118
	Barium	9.82	10.0	98	70 - 130	P	03/20/2025	17:59	LB135118
	Beryllium	1.08	1.0	108	70 - 130	P	03/20/2025	17:59	LB135118
	Cadmium	1.12	1.0	112	70 - 130	P	03/20/2025	17:59	LB135118
	Calcium	529	500	106	70 - 130	P	03/20/2025	17:59	LB135118
	Chromium	2.07	2.0	104	70 - 130	P	03/20/2025	17:59	LB135118
	Cobalt	1.08	1.0	108	50 - 150	P	03/20/2025	17:59	LB135118
	Copper	2.53	2.0	126	70 - 130	P	03/20/2025	17:59	LB135118
	Iron	64.3	50.0	129	70 - 130	P	03/20/2025	17:59	LB135118
	Lead	0.99	1.0	99	70 - 130	P	03/20/2025	17:59	LB135118
	Magnesium	493	500	99	70 - 130	P	03/20/2025	17:59	LB135118
	Manganese	1.19	1.0	119	50 - 150	P	03/20/2025	17:59	LB135118
	Nickel	1.17	1.0	117	70 - 130	P	03/20/2025	17:59	LB135118
	Potassium	510	500	102	70 - 130	P	03/20/2025	17:59	LB135118
	Selenium	5.15	5.0	103	70 - 130	P	03/20/2025	17:59	LB135118
	Silver	1.01	1.0	101	70 - 130	P	03/20/2025	17:59	LB135118
	Sodium	499	500	100	70 - 130	P	03/20/2025	17:59	LB135118
	Thallium	0.99	1.0	99	70 - 130	P	03/20/2025	17:59	LB135118
	Vanadium	5.00	5.0	100	70 - 130	P	03/20/2025	17:59	LB135118
	Zinc	5.02	5.0	100	50 - 150	P	03/20/2025	17:59	LB135118
CRI	Aluminum	17.7	20.0	88	70 - 130	P	03/23/2025	16:11	LB135143
	Antimony	1.92	2.0	96	70 - 130	P	03/23/2025	16:11	LB135143
	Arsenic	1.17	1.0	117	70 - 130	P	03/23/2025	16:11	LB135143
	Barium	8.95	10.0	90	70 - 130	P	03/23/2025	16:11	LB135143
	Beryllium	1.00	1.0	100	70 - 130	P	03/23/2025	16:11	LB135143
	Cadmium	0.91	1.0	91	70 - 130	P	03/23/2025	16:11	LB135143
	Calcium	458	500	92	70 - 130	P	03/23/2025	16:11	LB135143
	Chromium	1.82	2.0	91	70 - 130	P	03/23/2025	16:11	LB135143
	Cobalt	0.92	1.0	92	50 - 150	P	03/23/2025	16:11	LB135143
	Copper	2.06	2.0	103	70 - 130	P	03/23/2025	16:11	LB135143
	Iron	52.1	50.0	104	70 - 130	P	03/23/2025	16:11	LB135143
	Lead	0.79	1.0	79	70 - 130	P	03/23/2025	16:11	LB135143

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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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
CRI	Magnesium	438	500	88	70 - 130	P	03/23/2025	16:11	LB135143
	Manganese	0.84	1.0	84	50 - 150	P	03/23/2025	16:11	LB135143
	Nickel	0.86	1.0	86	70 - 130	P	03/23/2025	16:11	LB135143
	Potassium	456	500	91	70 - 130	P	03/23/2025	16:11	LB135143
	Selenium	5.46	5.0	109	70 - 130	P	03/23/2025	16:11	LB135143
	Silver	0.98	1.0	98	70 - 130	P	03/23/2025	16:11	LB135143
	Sodium	443	500	88	70 - 130	P	03/23/2025	16:11	LB135143
	Thallium	0.91	1.0	91	70 - 130	P	03/23/2025	16:11	LB135143
	Vanadium	4.48	5.0	90	70 - 130	P	03/23/2025	16:11	LB135143
	Zinc	4.52	5.0	90	50 - 150	P	03/23/2025	16:11	LB135143
CRI	Aluminum	20.0	20.0	100	70 - 130	P	03/24/2025	16:01	LB135164
	Antimony	2.11	2.0	106	70 - 130	P	03/24/2025	16:01	LB135164
	Arsenic	1.18	1.0	118	70 - 130	P	03/24/2025	16:01	LB135164
	Barium	10.0	10.0	100	70 - 130	P	03/24/2025	16:01	LB135164
	Beryllium	1.11	1.0	111	70 - 130	P	03/24/2025	16:01	LB135164
	Cadmium	1.05	1.0	105	70 - 130	P	03/24/2025	16:01	LB135164
	Calcium	527	500	105	70 - 130	P	03/24/2025	16:01	LB135164
	Chromium	2.12	2.0	106	70 - 130	P	03/24/2025	16:01	LB135164
	Cobalt	1.11	1.0	111	50 - 150	P	03/24/2025	16:01	LB135164
	Copper	2.45	2.0	122	70 - 130	P	03/24/2025	16:01	LB135164
	Iron	60.1	50.0	120	70 - 130	P	03/24/2025	16:01	LB135164
	Lead	0.90	1.0	90	70 - 130	P	03/24/2025	16:01	LB135164
	Magnesium	495	500	99	70 - 130	P	03/24/2025	16:01	LB135164
	Manganese	1.03	1.0	103	50 - 150	P	03/24/2025	16:01	LB135164
	Nickel	0.91	1.0	91	70 - 130	P	03/24/2025	16:01	LB135164
	Potassium	531	500	106	70 - 130	P	03/24/2025	16:01	LB135164
	Selenium	5.36	5.0	107	70 - 130	P	03/24/2025	16:01	LB135164
	Silver	1.06	1.0	106	70 - 130	P	03/24/2025	16:01	LB135164
	Sodium	499	500	100	70 - 130	P	03/24/2025	16:01	LB135164
	Thallium	1.00	1.0	100	70 - 130	P	03/24/2025	16:01	LB135164
	Vanadium	5.12	5.0	102	70 - 130	P	03/24/2025	16:01	LB135164
	Zinc	5.07	5.0	101	50 - 150	P	03/24/2025	16:01	LB135164

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB47	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	13:44	LB135071

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB23	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	13:49	LB135071
CCB24	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	14:19	LB135071
CCB25	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	14:56	LB135071

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/20/2025	17:27	LB135118
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/20/2025	17:27	LB135118
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	17:27	LB135118
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/20/2025	17:27	LB135118
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:27	LB135118
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	17:27	LB135118
	Calcium	500	+/-500	U	190	500	P	03/20/2025	17:27	LB135118
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/20/2025	17:27	LB135118
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	17:27	LB135118
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/20/2025	17:27	LB135118
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/20/2025	17:27	LB135118
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:27	LB135118
	Magnesium	500	+/-500	U	190	500	P	03/20/2025	17:27	LB135118
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:27	LB135118
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:27	LB135118
	Potassium	500	+/-500	U	190	500	P	03/20/2025	17:27	LB135118
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/20/2025	17:27	LB135118
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	17:27	LB135118
	Sodium	500	+/-500	U	190	500	P	03/20/2025	17:27	LB135118
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	17:27	LB135118
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/20/2025	17:27	LB135118
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/20/2025	17:27	LB135118

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	4.50	+/-20.0	J	10.0	20.0	P	03/20/2025	17:56	LB135118
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/20/2025	17:56	LB135118
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	17:56	LB135118
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/20/2025	17:56	LB135118
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:56	LB135118
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	17:56	LB135118
	Calcium	500	+/-500	U	190	500	P	03/20/2025	17:56	LB135118
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/20/2025	17:56	LB135118
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	17:56	LB135118
	Copper	0.70	+/-2.00	J	1.50	2.00	P	03/20/2025	17:56	LB135118
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/20/2025	17:56	LB135118
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:56	LB135118
	Magnesium	500	+/-500	U	190	500	P	03/20/2025	17:56	LB135118
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:56	LB135118
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	17:56	LB135118
	Potassium	500	+/-500	U	190	500	P	03/20/2025	17:56	LB135118
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/20/2025	17:56	LB135118
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	17:56	LB135118
	Sodium	500	+/-500	U	190	500	P	03/20/2025	17:56	LB135118
	Thallium	0.10	+/-1.00	J	0.50	1.00	P	03/20/2025	17:56	LB135118
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/20/2025	17:56	LB135118
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/20/2025	17:56	LB135118
CCB02	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	03/20/2025	18:45	LB135118
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/20/2025	18:45	LB135118
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	18:45	LB135118
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/20/2025	18:45	LB135118
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	18:45	LB135118
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	18:45	LB135118
	Calcium	500	+/-500	U	190	500	P	03/20/2025	18:45	LB135118
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/20/2025	18:45	LB135118
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/20/2025	18:45	LB135118
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/20/2025	18:45	LB135118
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/20/2025	18:45	LB135118
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	18:45	LB135118
	Magnesium	500	+/-500	U	190	500	P	03/20/2025	18:45	LB135118
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	18:45	LB135118
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/20/2025	18:45	LB135118
	Potassium	500	+/-500	U	190	500	P	03/20/2025	18:45	LB135118
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/20/2025	18:45	LB135118

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/20/2025	18:45	LB135118
	Sodium	500	+/-500	U	190	500	P	03/20/2025	18:45	LB135118
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/20/2025	18:45	LB135118
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/20/2025	18:45	LB135118
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/20/2025	18:45	LB135118

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	6.25	+/-20.0	J	10.0	20.0	P	03/23/2025	15:50	LB135143
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/23/2025	15:50	LB135143
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	15:50	LB135143
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/23/2025	15:50	LB135143
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	15:50	LB135143
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	15:50	LB135143
	Calcium	500	+/-500	U	190	500	P	03/23/2025	15:50	LB135143
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/23/2025	15:50	LB135143
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	15:50	LB135143
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/23/2025	15:50	LB135143
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/23/2025	15:50	LB135143
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	15:50	LB135143
	Magnesium	500	+/-500	U	190	500	P	03/23/2025	15:50	LB135143
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	15:50	LB135143
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	15:50	LB135143
	Potassium	500	+/-500	U	190	500	P	03/23/2025	15:50	LB135143
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/23/2025	15:50	LB135143
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	15:50	LB135143
	Sodium	500	+/-500	U	190	500	P	03/23/2025	15:50	LB135143
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	15:50	LB135143
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/23/2025	15:50	LB135143
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/23/2025	15:50	LB135143

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	5.68	+/-20.0	J	10.0	20.0	P	03/23/2025	16:04	LB135143
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/23/2025	16:04	LB135143
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	16:04	LB135143
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/23/2025	16:04	LB135143
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:04	LB135143
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	16:04	LB135143
	Calcium	500	+/-500	U	190	500	P	03/23/2025	16:04	LB135143
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/23/2025	16:04	LB135143
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	16:04	LB135143
	Copper	0.56	+/-2.00	J	1.50	2.00	P	03/23/2025	16:04	LB135143
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/23/2025	16:04	LB135143
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:04	LB135143
	Magnesium	500	+/-500	U	190	500	P	03/23/2025	16:04	LB135143
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:04	LB135143
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:04	LB135143
	Potassium	500	+/-500	U	190	500	P	03/23/2025	16:04	LB135143
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/23/2025	16:04	LB135143
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	16:04	LB135143
	Sodium	500	+/-500	U	190	500	P	03/23/2025	16:04	LB135143
	Thallium	0.070	+/-1.00	J	0.50	1.00	P	03/23/2025	16:04	LB135143
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/23/2025	16:04	LB135143
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/23/2025	16:04	LB135143
CCB02	Aluminum	5.87	+/-20.0	J	10.0	20.0	P	03/23/2025	16:53	LB135143
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/23/2025	16:53	LB135143
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	16:53	LB135143
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/23/2025	16:53	LB135143
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:53	LB135143
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	16:53	LB135143
	Calcium	500	+/-500	U	190	500	P	03/23/2025	16:53	LB135143
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/23/2025	16:53	LB135143
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	16:53	LB135143
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/23/2025	16:53	LB135143
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/23/2025	16:53	LB135143
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:53	LB135143
	Magnesium	500	+/-500	U	190	500	P	03/23/2025	16:53	LB135143
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:53	LB135143
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	16:53	LB135143
	Potassium	500	+/-500	U	190	500	P	03/23/2025	16:53	LB135143
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/23/2025	16:53	LB135143

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/23/2025	16:53	LB135143
	Sodium	500	+/-500	U	190	500	P	03/23/2025	16:53	LB135143
	Thallium	0.060	+/-1.00	J	0.50	1.00	P	03/23/2025	16:53	LB135143
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/23/2025	16:53	LB135143
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/23/2025	16:53	LB135143
CCB03	Aluminum	2.92	+/-20.0	J	10.0	20.0	P	03/23/2025	17:37	LB135143
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/23/2025	17:37	LB135143
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	17:37	LB135143
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/23/2025	17:37	LB135143
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	17:37	LB135143
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	17:37	LB135143
	Calcium	500	+/-500	U	190	500	P	03/23/2025	17:37	LB135143
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/23/2025	17:37	LB135143
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	17:37	LB135143
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/23/2025	17:37	LB135143
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/23/2025	17:37	LB135143
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	17:37	LB135143
	Magnesium	500	+/-500	U	190	500	P	03/23/2025	17:37	LB135143
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	17:37	LB135143
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	17:37	LB135143
	Potassium	500	+/-500	U	190	500	P	03/23/2025	17:37	LB135143
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/23/2025	17:37	LB135143
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	17:37	LB135143
	Sodium	500	+/-500	U	190	500	P	03/23/2025	17:37	LB135143
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	17:37	LB135143
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/23/2025	17:37	LB135143
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/23/2025	17:37	LB135143
CCB04	Aluminum	2.76	+/-20.0	J	10.0	20.0	P	03/23/2025	18:25	LB135143
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/23/2025	18:25	LB135143
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	18:25	LB135143
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/23/2025	18:25	LB135143
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	18:25	LB135143
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	18:25	LB135143
	Calcium	500	+/-500	U	190	500	P	03/23/2025	18:25	LB135143
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/23/2025	18:25	LB135143
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/23/2025	18:25	LB135143
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/23/2025	18:25	LB135143
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/23/2025	18:25	LB135143
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	18:25	LB135143

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/23/2025	18:25	LB135143
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	18:25	LB135143
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/23/2025	18:25	LB135143
	Potassium	500	+/-500	U	190	500	P	03/23/2025	18:25	LB135143
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/23/2025	18:25	LB135143
	Silver	0.070	+/-1.00	J	0.50	1.00	P	03/23/2025	18:25	LB135143
	Sodium	500	+/-500	U	190	500	P	03/23/2025	18:25	LB135143
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/23/2025	18:25	LB135143
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/23/2025	18:25	LB135143
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/23/2025	18:25	LB135143

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/24/2025	15:36	LB135164
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/24/2025	15:36	LB135164
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	15:36	LB135164
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/24/2025	15:36	LB135164
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:36	LB135164
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	15:36	LB135164
	Calcium	500	+/-500	U	190	500	P	03/24/2025	15:36	LB135164
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/24/2025	15:36	LB135164
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	15:36	LB135164
	Copper	2.00	+/-2.00	U	1.50	2.00	P	03/24/2025	15:36	LB135164
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/24/2025	15:36	LB135164
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:36	LB135164
	Magnesium	500	+/-500	U	190	500	P	03/24/2025	15:36	LB135164
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:36	LB135164
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:36	LB135164
	Potassium	500	+/-500	U	190	500	P	03/24/2025	15:36	LB135164
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/24/2025	15:36	LB135164
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	15:36	LB135164
	Sodium	500	+/-500	U	190	500	P	03/24/2025	15:36	LB135164
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	15:36	LB135164
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/24/2025	15:36	LB135164
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/24/2025	15:36	LB135164

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/24/2025	15:58	LB135164
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/24/2025	15:58	LB135164
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	15:58	LB135164
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/24/2025	15:58	LB135164
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:58	LB135164
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	15:58	LB135164
	Calcium	500	+/-500	U	190	500	P	03/24/2025	15:58	LB135164
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/24/2025	15:58	LB135164
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	15:58	LB135164
	Copper	0.61	+/-2.00	J	1.50	2.00	P	03/24/2025	15:58	LB135164
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/24/2025	15:58	LB135164
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:58	LB135164
	Magnesium	500	+/-500	U	190	500	P	03/24/2025	15:58	LB135164
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:58	LB135164
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	15:58	LB135164
	Potassium	500	+/-500	U	190	500	P	03/24/2025	15:58	LB135164
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/24/2025	15:58	LB135164
	Silver	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	15:58	LB135164
	Sodium	500	+/-500	U	190	500	P	03/24/2025	15:58	LB135164
	Thallium	0.060	+/-1.00	J	0.50	1.00	P	03/24/2025	15:58	LB135164
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/24/2025	15:58	LB135164
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/24/2025	15:58	LB135164
CCB02	Aluminum	2.32	+/-20.0	J	10.0	20.0	P	03/24/2025	16:28	LB135164
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	03/24/2025	16:28	LB135164
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	16:28	LB135164
	Barium	10.0	+/-10.0	U	1.25	10.0	P	03/24/2025	16:28	LB135164
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	16:28	LB135164
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	16:28	LB135164
	Calcium	500	+/-500	U	190	500	P	03/24/2025	16:28	LB135164
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	03/24/2025	16:28	LB135164
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	03/24/2025	16:28	LB135164
	Copper	0.35	+/-2.00	J	1.50	2.00	P	03/24/2025	16:28	LB135164
	Iron	50.0	+/-50.0	U	25.0	50.0	P	03/24/2025	16:28	LB135164
	Lead	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	16:28	LB135164
	Magnesium	500	+/-500	U	190	500	P	03/24/2025	16:28	LB135164
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	16:28	LB135164
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	03/24/2025	16:28	LB135164
	Potassium	500	+/-500	U	190	500	P	03/24/2025	16:28	LB135164
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	03/24/2025	16:28	LB135164

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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	03/24/2025	16:28	LB135164
	Sodium	500	+/-500	U	190	500	P	03/24/2025	16:28	LB135164
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	03/24/2025	16:28	LB135164
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	03/24/2025	16:28	LB135164
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	03/24/2025	16:28	LB135164

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

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

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167196BL		**WATER**		**Batch Number:**		**PB167196**		**Prep Date:**	**03/18/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	03/18/2025	14:01	LB135071

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167152BL		**WATER**		**Batch Number:**		**PB167152**		**Prep Date:**	**03/17/2025**	
	Aluminum	3.95	<20.0	J	10.0	20.0	P	03/20/2025	18:02	LB135118
	Antimony	2.00	<2.00	U	0.25	2.00	P	03/20/2025	18:02	LB135118
	Arsenic	1.00	<1.00	U	0.25	1.00	P	03/20/2025	18:02	LB135118
	Barium	10.0	<10.0	U	1.25	10.0	P	03/20/2025	18:02	LB135118
	Beryllium	1.00	<1.00	U	0.75	1.00	P	03/20/2025	18:02	LB135118
	Cadmium	1.00	<1.00	U	0.50	1.00	P	03/20/2025	18:02	LB135118
	Calcium	500	<500	U	190	500	P	03/20/2025	18:02	LB135118
	Chromium	2.00	<2.00	U	0.75	2.00	P	03/20/2025	18:02	LB135118
	Cobalt	1.00	<1.00	U	0.25	1.00	P	03/20/2025	18:02	LB135118
	Copper	0.42	<2.00	J	1.50	2.00	P	03/20/2025	18:02	LB135118
	Iron	50.0	<50.0	U	25.0	50.0	P	03/20/2025	18:02	LB135118
	Lead	1.00	<1.00	U	0.75	1.00	P	03/20/2025	18:02	LB135118
	Magnesium	500	<500	U	190	500	P	03/20/2025	18:02	LB135118
	Manganese	1.00	<1.00	U	0.75	1.00	P	03/20/2025	18:02	LB135118
	Nickel	1.00	<1.00	U	0.75	1.00	P	03/20/2025	18:02	LB135118
	Potassium	500	<500	U	190	500	P	03/20/2025	18:02	LB135118
	Selenium	5.00	<5.00	U	4.50	5.00	P	03/20/2025	18:02	LB135118
	Silver	1.00	<1.00	U	0.50	1.00	P	03/20/2025	18:02	LB135118
	Sodium	500	<500	U	190	500	P	03/20/2025	18:02	LB135118
	Thallium	0.080	<1.00	J	0.50	1.00	P	03/20/2025	18:02	LB135118
	Vanadium	5.00	<5.00	U	0.25	5.00	P	03/20/2025	18:02	LB135118
	Zinc	5.00	<5.00	U	1.50	5.00	P	03/20/2025	18:02	LB135118

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

ICS Source: EPA **Instrument ID:** P7

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	93400	100000	93	0	0	03/20/2025	17:40	LB135118
	Antimony	2.60	1.5	173	-2.5	5.5	03/20/2025	17:40	LB135118
	Arsenic	0.40	0.1	400	-1.9	2.1	03/20/2025	17:40	LB135118
	Barium	12.3	1.2	1025	-18.8	21.2	03/20/2025	17:40	LB135118
	Beryllium	0.28			-2	2	03/20/2025	17:40	LB135118
	Cadmium	0.16	0.7	23	-1.3	2.7	03/20/2025	17:40	LB135118
	Calcium	104000	100000	104	0	0	03/20/2025	17:40	LB135118
	Chromium	19.5	21.0	93	17	25	03/20/2025	17:40	LB135118
	Cobalt	1.22	1.0	122	-1	3	03/20/2025	17:40	LB135118
	Copper	12.0	8.0	150	4	12	03/20/2025	17:40	LB135118
	Iron	109000	100000	109	0	0	03/20/2025	17:40	LB135118
	Lead	4.79	4.0	120	2	6	03/20/2025	17:40	LB135118
	Magnesium	96500	100000	96	0	0	03/20/2025	17:40	LB135118
	Manganese	7.14	7.0	102	5	9	03/20/2025	17:40	LB135118
	Nickel	6.57	6.0	110	4	8	03/20/2025	17:40	LB135118
	Potassium	102000	100000	102	0	0	03/20/2025	17:40	LB135118
	Selenium	4.92	0.3	1640	-9.7	10	03/20/2025	17:40	LB135118
	Silver	0.030			-2	2	03/20/2025	17:40	LB135118
	Sodium	105000	100000	105	0	0	03/20/2025	17:40	LB135118
	Thallium	0.17			-2	2	03/20/2025	17:40	LB135118
	Vanadium	0.23	0.5	46	-9.5	10.5	03/20/2025	17:40	LB135118
	Zinc	17.7	11.0	161	1	21	03/20/2025	17:40	LB135118
ICSAB01	Aluminum	92800	100000	93	0	0	03/20/2025	17:43	LB135118
	Antimony	20.3	22.0	92	18	26	03/20/2025	17:43	LB135118
	Arsenic	20.7	19.0	109	16.2	21.9	03/20/2025	17:43	LB135118
	Barium	20.5	22.0	93	2	42	03/20/2025	17:43	LB135118
	Beryllium	19.4	19.0	102	16.2	21.9	03/20/2025	17:43	LB135118
	Cadmium	19.5	20.0	98	17	23	03/20/2025	17:43	LB135118
	Calcium	104000	100000	104	0	0	03/20/2025	17:43	LB135118
	Chromium	38.7	40.0	97	34	46	03/20/2025	17:43	LB135118
	Cobalt	20.5	20.0	102	17	23	03/20/2025	17:43	LB135118
	Copper	28.8	25.0	115	21	29	03/20/2025	17:43	LB135118
	Iron	110000	100000	110	0	0	03/20/2025	17:43	LB135118
	Lead	22.5	25.0	90	21.3	28.8	03/20/2025	17:43	LB135118
	Magnesium	96800	100000	97	0	0	03/20/2025	17:43	LB135118
	Manganese	25.8	27.0	96	23	31.1	03/20/2025	17:43	LB135118
	Nickel	26.4	24.0	110	20.4	27.6	03/20/2025	17:43	LB135118
	Potassium	103000	100000	103	0	0	03/20/2025	17:43	LB135118
	Selenium	23.6	19.0	124	9	29	03/20/2025	17:43	LB135118
	Silver	18.7	18.0	104	15.3	20.7	03/20/2025	17:43	LB135118
	Sodium	105000	100000	105	0	0	03/20/2025	17:43	LB135118
	Thallium	18.7	21.0	89	17.9	24.2	03/20/2025	17:43	LB135118

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

ICS Source: EPA **Instrument ID:** P7

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	19.6	19.0	103	9	29	03/20/2025	17:43	LB135118
	Zinc	28.3	29.0	98	19	39	03/20/2025	17:43	LB135118
ICSA01	Aluminum	88600	100000	89	0	0	03/23/2025	15:54	LB135143
	Antimony	1.01	1.5	67	-2.5	5.5	03/23/2025	15:54	LB135143
	Arsenic	0.53	0.1	530	-1.9	2.1	03/23/2025	15:54	LB135143
	Barium	1.24	1.2	103	-18.8	21.2	03/23/2025	15:54	LB135143
	Beryllium	0.27			-2	2	03/23/2025	15:54	LB135143
	Cadmium	0.24	0.7	34	-1.3	2.7	03/23/2025	15:54	LB135143
	Calcium	97400	100000	97	0	0	03/23/2025	15:54	LB135143
	Chromium	18.0	21.0	86	17	25	03/23/2025	15:54	LB135143
	Cobalt	1.12	1.0	112	-1	3	03/23/2025	15:54	LB135143
	Copper	10.1	8.0	126	4	12	03/23/2025	15:54	LB135143
	Iron	103000	100000	103	0	0	03/23/2025	15:54	LB135143
	Lead	3.83	4.0	96	2	6	03/23/2025	15:54	LB135143
	Magnesium	93300	100000	93	0	0	03/23/2025	15:54	LB135143
	Manganese	6.39	7.0	91	5	9	03/23/2025	15:54	LB135143
	Nickel	5.31	6.0	88	4	8	03/23/2025	15:54	LB135143
	Potassium	97000	100000	97	0	0	03/23/2025	15:54	LB135143
	Selenium	0.97	0.3	323	-9.7	10	03/23/2025	15:54	LB135143
	Silver	0.020			-2	2	03/23/2025	15:54	LB135143
	Sodium	99700	100000	100	0	0	03/23/2025	15:54	LB135143
	Thallium	0.10			-2	2	03/23/2025	15:54	LB135143
	Vanadium	0.18	0.5	36	-9.5	10.5	03/23/2025	15:54	LB135143
	Zinc	8.99	11.0	82	1	21	03/23/2025	15:54	LB135143
ICSAB01	Aluminum	91600	100000	92	0	0	03/23/2025	15:57	LB135143
	Antimony	19.3	22.0	88	18	26	03/23/2025	15:57	LB135143
	Arsenic	20.5	19.0	108	16.2	21.9	03/23/2025	15:57	LB135143
	Barium	19.4	22.0	88	2	42	03/23/2025	15:57	LB135143
	Beryllium	18.5	19.0	97	16.2	21.9	03/23/2025	15:57	LB135143
	Cadmium	19.0	20.0	95	17	23	03/23/2025	15:57	LB135143
	Calcium	95800	100000	96	0	0	03/23/2025	15:57	LB135143
	Chromium	37.2	40.0	93	34	46	03/23/2025	15:57	LB135143
	Cobalt	19.9	20.0	100	17	23	03/23/2025	15:57	LB135143
	Copper	27.8	25.0	111	21	29	03/23/2025	15:57	LB135143
	Iron	107000	100000	107	0	0	03/23/2025	15:57	LB135143
	Lead	22.3	25.0	89	21.3	28.8	03/23/2025	15:57	LB135143
	Magnesium	94200	100000	94	0	0	03/23/2025	15:57	LB135143
	Manganese	24.7	27.0	92	23	31.1	03/23/2025	15:57	LB135143
	Nickel	26.1	24.0	109	20.4	27.6	03/23/2025	15:57	LB135143
	Potassium	100000	100000	100	0	0	03/23/2025	15:57	LB135143
	Selenium	20.6	19.0	108	9	29	03/23/2025	15:57	LB135143
	Silver	17.1	18.0	95	15.3	20.7	03/23/2025	15:57	LB135143

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	101000	100000	101	0	0	03/23/2025	15:57	LB135143
	Thallium	18.1	21.0	86	17.9	24.2	03/23/2025	15:57	LB135143
	Vanadium	18.9	19.0	100	9	29	03/23/2025	15:57	LB135143
	Zinc	35.9	29.0	124	19	39	03/23/2025	15:57	LB135143
ICSA01	Aluminum	90700	100000	91	0	0	03/24/2025	15:44	LB135164
	Antimony	1.33	1.5	89	-2.5	5.5	03/24/2025	15:44	LB135164
	Arsenic	0.52	0.1	520	-1.9	2.1	03/24/2025	15:44	LB135164
	Barium	1.49	1.2	124	-18.8	21.2	03/24/2025	15:44	LB135164
	Beryllium	0.28			-2	2	03/24/2025	15:44	LB135164
	Cadmium	0.17	0.7	24	-1.3	2.7	03/24/2025	15:44	LB135164
	Calcium	101000	100000	101	0	0	03/24/2025	15:44	LB135164
	Chromium	20.6	21.0	98	17	25	03/24/2025	15:44	LB135164
	Cobalt	1.29	1.0	129	-1	3	03/24/2025	15:44	LB135164
	Copper	10.7	8.0	133	4	12	03/24/2025	15:44	LB135164
	Iron	108000	100000	108	0	0	03/24/2025	15:44	LB135164
	Lead	4.47	4.0	112	2	6	03/24/2025	15:44	LB135164
	Magnesium	93000	100000	93	0	0	03/24/2025	15:44	LB135164
	Manganese	7.32	7.0	105	5	9	03/24/2025	15:44	LB135164
	Nickel	5.95	6.0	99	4	8	03/24/2025	15:44	LB135164
	Potassium	99200	100000	99	0	0	03/24/2025	15:44	LB135164
	Selenium	0.58	0.3	193	-9.7	10	03/24/2025	15:44	LB135164
	Silver	0.030			-2	2	03/24/2025	15:44	LB135164
	Sodium	99100	100000	99	0	0	03/24/2025	15:44	LB135164
	Thallium	0.12			-2	2	03/24/2025	15:44	LB135164
	Vanadium	0.22	0.5	44	-9.5	10.5	03/24/2025	15:44	LB135164
	Zinc	13.5	11.0	123	1	21	03/24/2025	15:44	LB135164
ICSAB01	Aluminum	92000	100000	92	0	0	03/24/2025	15:49	LB135164
	Antimony	21.6	22.0	98	18	26	03/24/2025	15:49	LB135164
	Arsenic	20.7	19.0	109	16.2	21.9	03/24/2025	15:49	LB135164
	Barium	21.4	22.0	97	2	42	03/24/2025	15:49	LB135164
	Beryllium	21.1	19.0	111	16.2	21.9	03/24/2025	15:49	LB135164
	Cadmium	21.1	20.0	106	17	23	03/24/2025	15:49	LB135164
	Calcium	101000	100000	101	0	0	03/24/2025	15:49	LB135164
	Chromium	41.4	40.0	104	34	46	03/24/2025	15:49	LB135164
	Cobalt	21.8	20.0	109	17	23	03/24/2025	15:49	LB135164
	Copper	28.9	25.0	116	21	29	03/24/2025	15:49	LB135164
	Iron	109000	100000	109	0	0	03/24/2025	15:49	LB135164
	Lead	23.9	25.0	96	21.3	28.8	03/24/2025	15:49	LB135164
	Magnesium	93400	100000	93	0	0	03/24/2025	15:49	LB135164
	Manganese	25.6	27.0	95	23	31.1	03/24/2025	15:49	LB135164
	Nickel	26.0	24.0	108	20.4	27.6	03/24/2025	15:49	LB135164
	Potassium	99000	100000	99	0	0	03/24/2025	15:49	LB135164

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	21.2	19.0	112	9	29	03/24/2025	15:49	LB135164
	Silver	19.4	18.0	108	15.3	20.7	03/24/2025	15:49	LB135164
	Sodium	100000	100000	100	0	0	03/24/2025	15:49	LB135164
	Thallium	19.8	21.0	94	17.9	24.2	03/24/2025	15:49	LB135164
	Vanadium	20.3	19.0	107	9	29	03/24/2025	15:49	LB135164
	Zinc	29.3	29.0	101	19	39	03/24/2025	15:49	LB135164

METAL QC DATA

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588

contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588

matrix: Water **sample id:** Q1553-03 **client id:** FRAC-TANK-FMI120MS

Percent Solids for Sample: NA **Spiked ID:** Q1553-03MS **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	2.78		0.28		4.0	63	N	CV

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588

contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588

matrix: Water **sample id:** Q1553-03 **client id:** FRAC-TANK-FMI120MSD

Percent Solids for Sample: NA **Spiked ID:** Q1553-03MSD **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	2.87		0.28		4.0	65	N	CV

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588

contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588

matrix: Water **sample id:** Q1588-01 **client id:** TAPFTA-MW01D-031425-00-T1MS

Percent Solids for Sample: NA **Spiked ID:** Q1588-01MS **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	11700		2870		10000	89		P
Antimony	ug/L	85 - 117	477		0.27	J	500	95		P
Arsenic	ug/L	84 - 116	2.75	JD	2.55	JD	500	0	N	P
Barium	ug/L	86 - 114	2180		58.2		2500	85	N	P
Beryllium	ug/L	83 - 121	419		1.48		500	83		P
Cadmium	ug/L	87 - 115	438		1.00	U	500	88		P
Calcium	ug/L	87 - 118	47000		4350		50000	85	N	P
Chromium	ug/L	85 - 116	475		24.7		500	90		P
Cobalt	ug/L	86 - 115	460		4.32		500	91		P
Copper	ug/L	85 - 118	4140		18.3		5000	83	N	P
Iron	ug/L	87 - 118	29100		6310		25000	91		P
Lead	ug/L	88 - 115	2360		8.21		2500	94		P
Magnesium	ug/L	83 - 118	45400		893		50000	89		P
Manganese	ug/L	87 - 115	4250		81.9		5000	83	N	P
Nickel	ug/L	85 - 117	455		11.2		500	89		P
Potassium	ug/L	87 - 115	21700		1470		25000	81	N	P
Selenium	ug/L	80 - 120	495	D	25.0	UD	500	99		P
Silver	ug/L	85 - 116	64.2		1.00	U	500	13	N	P
Sodium	ug/L	85 - 117	59500		15300		50000	88		P
Thallium	ug/L	82 - 116	465		0.14	J	500	93		P
Vanadium	ug/L	86 - 115	570		86.5		500	97		P
Zinc	ug/L	83 - 119	4160		25.0		5000	83		P

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588

contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588

matrix: Water **sample id:** Q1588-01 **client id:** TAPFTA-MW01D-031425-00-T1MSD

Percent Solids for Sample: NA **Spiked ID:** Q1588-01MSD **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	11700		2870		10000	88		P
Antimony	ug/L	85 - 117	486		0.27	J	500	97		P
Arsenic	ug/L	84 - 116	3.25	JD	2.55	JD	500	0	N	P
Barium	ug/L	86 - 114	2200		58.2		2500	86		P
Beryllium	ug/L	83 - 121	422		1.48		500	84		P
Cadmium	ug/L	87 - 115	438		1.00	U	500	88		P
Calcium	ug/L	87 - 118	48000		4350		50000	87		P
Chromium	ug/L	85 - 116	476		24.7		500	90		P
Cobalt	ug/L	86 - 115	460		4.32		500	91		P
Copper	ug/L	85 - 118	4120		18.3		5000	82	N	P
Iron	ug/L	87 - 118	28600		6310		25000	89		P
Lead	ug/L	88 - 115	2410		8.21		2500	96		P
Magnesium	ug/L	83 - 118	45200		893		50000	89		P
Manganese	ug/L	87 - 115	4220		81.9		5000	83	N	P
Nickel	ug/L	85 - 117	455		11.2		500	89		P
Potassium	ug/L	87 - 115	21800		1470		25000	81	N	P
Selenium	ug/L	80 - 120	507	D	25.0	UD	500	101		P
Silver	ug/L	85 - 116	60.6		1.00	U	500	12	N	P
Sodium	ug/L	85 - 117	59500		15300		50000	88		P
Thallium	ug/L	82 - 116	468		0.14	J	500	94		P
Vanadium	ug/L	86 - 115	568		86.5		500	96		P
Zinc	ug/L	83 - 119	4130		25.0		5000	82	N	P

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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Level:** LOW **Client ID:** FRAC-TANK-FMI120A

Sample ID: Q1553-03 **Spiked ID:** Q1553-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.87		0.28		4.00	90		CV

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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Level:** LOW **Client ID:** TAPFTA-MW01D-031425-00-T1A

Sample ID: Q1588-01 **Spiked ID:** Q1588-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	2.80	JD	2.55	JD	500	0		P
Barium	ug/L	86 - 114	2200		58.2		2500	86		P
Calcium	ug/L	87 - 118	48000		4350		50000	87		P
Copper	ug/L	85 - 118	4170		18.3		5000	83		P
Manganese	ug/L	87 - 115	4180		81.9		5000	82		P
Potassium	ug/L	87 - 115	21600		1470		25000	81		P
Silver	ug/L	85 - 116	65.1		1.00	U	500	13		P
Zinc	ug/L	83 - 119	4220		25.0		5000	84		P

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Sample ID:** Q1553-03 **Client ID:** FRAC-TANK-FMI120DUP

Percent Solids for Sample: NA **Duplicate ID** Q1553-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.28		0.25		11		CV

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

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Sample ID:** Q1553-03MS **Client ID:** FRAC-TANK-FMI120MSD

Percent Solids for Sample: NA **Duplicate ID** Q1553-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.78		2.87		3		CV

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

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Sample ID:** Q1588-01 **Client ID:** TAPFTA-MW01D-031425-00-T1DUP

Percent Solids for Sample: NA **Duplicate ID** Q1588-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2870		3270		13		P
Antimony	ug/L	20	0.27	J	0.26	J	4		P
Arsenic	ug/L	20	2.55	JD	2.70	JD	6		P
Barium	ug/L	20	58.2		61.9		6		P
Beryllium	ug/L	20	1.48		1.51		2		P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	4350		4470		3		P
Chromium	ug/L	20	24.7		27.3		10		P
Cobalt	ug/L	20	4.32		4.44		3		P
Copper	ug/L	20	18.3		18.7		2		P
Iron	ug/L	20	6310		6900		9		P
Lead	ug/L	20	8.21		8.37		2		P
Magnesium	ug/L	20	893		924		3		P
Manganese	ug/L	20	81.9		83.6		2		P
Nickel	ug/L	20	11.2		11.8		5		P
Potassium	ug/L	20	1470		1500		2		P
Selenium	ug/L	20	25.0	UD	25.0	UD			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	15300		15500		1		P
Thallium	ug/L	20	0.14	J	0.12	J	15		P
Vanadium	ug/L	20	86.5		92.2		6		P
Zinc	ug/L	20	25.0		25.6		2		P

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

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Matrix: Water **Sample ID:** Q1588-01MS **Client ID:** TAPFTA-MW01D-031425-00-T1MSD

Percent Solids for Sample: NA **Duplicate ID** Q1588-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	11700		11700		0		P
Antimony	ug/L	20	477		486		2		P
Arsenic	ug/L	20	2.75	JD	3.25	JD	17		P
Barium	ug/L	20	2180		2200		1		P
Beryllium	ug/L	20	419		422		1		P
Cadmium	ug/L	20	438		438		0		P
Calcium	ug/L	20	47000		48000		2		P
Chromium	ug/L	20	475		476		0		P
Cobalt	ug/L	20	460		460		0		P
Copper	ug/L	20	4140		4120		0		P
Iron	ug/L	20	29100		28600		2		P
Lead	ug/L	20	2360		2410		2		P
Magnesium	ug/L	20	45400		45200		0		P
Manganese	ug/L	20	4250		4220		1		P
Nickel	ug/L	20	455		455		0		P
Potassium	ug/L	20	21700		21800		0		P
Selenium	ug/L	20	495	D	507	D	2		P
Silver	ug/L	20	64.2		60.6		6		P
Sodium	ug/L	20	59500		59500		0		P
Thallium	ug/L	20	465		468		1		P
Vanadium	ug/L	20	570		568		0		P
Zinc	ug/L	20	4160		4130		1		P

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

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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167152BS							
Aluminum	ug/L	10000	9560		96	84 - 117	P
Antimony	ug/L	500	513		103	85 - 117	P
Arsenic	ug/L	500	501		100	84 - 116	P
Barium	ug/L	2500	2500		100	86 - 114	P
Beryllium	ug/L	500	493		99	83 - 121	P
Cadmium	ug/L	500	506		101	87 - 115	P
Calcium	ug/L	50000	50600		101	87 - 118	P
Chromium	ug/L	500	504		101	85 - 116	P
Cobalt	ug/L	500	509		102	86 - 115	P
Copper	ug/L	5000	5100		102	85 - 118	P
Iron	ug/L	25000	26700		107	87 - 118	P
Lead	ug/L	2500	2490		100	88 - 115	P
Magnesium	ug/L	50000	50000		100	83 - 118	P
Manganese	ug/L	5000	5060		101	87 - 115	P
Nickel	ug/L	500	503		101	85 - 117	P
Potassium	ug/L	25000	25100		100	87 - 115	P
Selenium	ug/L	500	506		101	80 - 120	P
Silver	ug/L	500	509		102	85 - 116	P
Sodium	ug/L	50000	50300		101	85 - 117	P
Thallium	ug/L	500	494		99	82 - 116	P
Vanadium	ug/L	500	467		93	86 - 115	P
Zinc	ug/L	5000	5080		102	83 - 119	P

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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1588 **SAS No.:** Q1588

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167196BS							
Mercury	ug/L	4.0	3.88		97	82 - 119	CV

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions
Contract: WEST04
Lab Code: CHEM Case no.: Q1588
Sas No.: Q1588 SDG No.: Q1588
Instrument ID: P7
Start Date : 03/20/2025
Run Number: LB135118
End Date : 03/20/2025

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	1548	100		100		100		100		100	
S2	S2	1555	102		101		101		103		101	
S3	S3	1558	106		104		102		104		104	
S4	S4	1604	102		98		99		100		102	
S5	S5	1607	102		97		97		97		103	
S6	S6	1610	101		97		97		98		103	
S7	S7	1613	102		98		100		97		103	
S8	S8	1619	109		105		105		97		105	
ICV01	ICV01	1716	107		110		107		110		107	
LLICV01	LLICV01	1719	105		106		106		107		104	
ICB01	ICB01	1727	105		107		104		107		104	
ICSA01	ICSA01	1740	105		106		103		101		109	
ICSAB01	ICSAB01	1743	101		104		105		104		108	
CCV01	CCV01	1749	104		106		106		99		109	
CCB01	CCB01	1756	108		107		110		109		111	
CRI	CRI	1759	109		108		108		109		111	
PB167152BL	PB167152BL	1802	107		106		106		107		109	
PB167152BS	PB167152BS	1808	107		106		107		106		109	
ZZZZZZ	ZZZZZZ	1812										
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1829										
ZZZZZZ	ZZZZZZ	1833										
CCV02	CCV02	1836	111		111		110		104		112	
CCB02	CCB02	1845	107		104		103		104		103	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/20/2025

Run Number: LB135118 | End Date : 03/20/2025

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	1548	100		100		100		100		100	
S2	S2	1555	104		104		104		103		105	
S3	S3	1558	105		104		103		104		106	
S4	S4	1604	101		99		98		101		103	
S5	S5	1607	100		100		98		101		102	
S6	S6	1610	102		100		97		103		103	
S7	S7	1613	103		100		97		105		106	
S8	S8	1619	107		103		94		102		103	
ICV01	ICV01	1716	110		109		109		109		111	
LLICV01	LLICV01	1719	109		108		106		106		107	
ICB01	ICB01	1727	107		107		105		106		107	
ICSA01	ICSA01	1740	106		105		101		106		109	
ICSAB01	ICSAB01	1743	106		106		102		109		110	
CCV01	CCV01	1749	111		108		102		108		110	
CCB01	CCB01	1756	110		109		110		111		113	
CRI	CRI	1759	110		110		109		110		112	
PB167152BL	PB167152BL	1802	108		107		107		108		109	
PB167152BS	PB167152BS	1808	110		108		106		110		110	
ZZZZZZ	ZZZZZZ	1812										
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1829										
ZZZZZZ	ZZZZZZ	1833										
CCV02	CCV02	1836	113		109		101		109		111	
CCB02	CCB02	1845	106		105		105		105		105	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/23/2025

Run Number: LB135143 | End Date : 03/23/2025

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	1444	100		100		100		100		100	
S2	S2	1450	100		100		99		99		102	
S3	S3	1454	101		99		99		99		101	
S4	S4	1457	103		96		96		97		100	
S5	S5	1500	103		92		94		93		99	
S6	S6	1503	103		94		94		93		103	
S7	S7	1505	101		94		96		93		103	
S8	S8	1508	98		95		95		88		99	
ICV01	ICV01	1535	102		99		100		99		101	
LLICV	LLICV	1547	101		100		99		99		101	
ICB01	ICB01	1550	99		97		97		98		99	
ICSA01	ICSA01	1554	97		93		96		92		100	
ICSAB01	ICSAB01	1557	101		99		100		98		106	
CCV01	CCV01	1600	98		96		97		92		102	
CCB01	CCB01	1604	100		96		98		99		103	
CRI	CRI	1611	99		96		97		98		101	
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1621										
ZZZZZZ	ZZZZZZ	1624										
ZZZZZZ	ZZZZZZ	1627										
ZZZZZZ	ZZZZZZ	1630										
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1637										
ZZZZZZ	ZZZZZZ	1640										
ZZZZZZ	ZZZZZZ	1643										
CCV02	CCV02	1645	101		95		97		92		103	
CCB02	CCB02	1653	99		96		98		98		102	
ZZZZZZ	ZZZZZZ	1656										
Q1563-02DUP	FERNOT-WATE	1659	101		98		100		100		105	
Q1563-02L	FERNOT-WATE	1703	103		100		101		101		106	
Q1563-02MS	FERNOT-WATE	1706	104		99		101		99		105	
Q1563-02MSD	FERNOT-WATE	1709	105		99		102		98		106	
Q1563-02A	FERNOT-WATE	1712	102		95		98		96		102	
Q1588-01	TAPFTA-MW01	1715	110		111		120		108		115	
Q1588-01DUP	TAPFTA-MW01	1718	107		112		122	*	109		115	
Q1588-01L	TAPFTA-MW01	1722	101		101		106		101		107	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/23/2025

Run Number: LB135143 | End Date : 03/23/2025

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
Q1588-01MS	TAPFTA-MW01	1725	103		105		113		98		106	
CCV03	CCV03	1731	103		95		96		90		102	
CCB03	CCB03	1737	99		95		97		97		101	
Q1588-01MSD	TAPFTA-MW01	1740	102		102		112		97		106	
Q1588-01A	TAPFTA-MW01	1743	103		103		113		98		106	
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1755										
CCV04	CCV04	1820	99		98		100		94		104	
CCB04	CCB04	1825	99		99		100		101		102	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/23/2025

Run Number: LB135143 | End Date : 03/23/2025

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	1444	100		100		100		100		100	
S2	S2	1450	99		102		100		100		99	
S3	S3	1454	100		98		100		101		99	
S4	S4	1457	97		96		99		99		100	
S5	S5	1500	95		95		95		99		101	
S6	S6	1503	96		96		96		101		100	
S7	S7	1505	96		95		94		101		100	
S8	S8	1508	100		98		90		97		98	
ICV01	ICV01	1535	100		100		102		101		100	
LLICV	LLICV	1547	100		99		101		102		100	
ICB01	ICB01	1550	98		98		99		99		97	
ICSA01	ICSA01	1554	95		96		94		99		98	
ICSAB01	ICSAB01	1557	98		99		96		102		101	
CCV01	CCV01	1600	99		97		93		100		100	
CCB01	CCB01	1604	98		99		101		102		101	
CRI	CRI	1611	97		100		100		102		99	
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1621										
ZZZZZZ	ZZZZZZ	1624										
ZZZZZZ	ZZZZZZ	1627										
ZZZZZZ	ZZZZZZ	1630										
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1637										
ZZZZZZ	ZZZZZZ	1640										
ZZZZZZ	ZZZZZZ	1643										
CCV02	CCV02	1645	100		99		94		102		101	
CCB02	CCB02	1653	97		99		100		101		100	
ZZZZZZ	ZZZZZZ	1656										
Q1563-02DUP	FERNOT-WATE	1659	101		102		102		105		103	
Q1563-02L	FERNOT-WATE	1703	101		102		104		105		105	
Q1563-02MS	FERNOT-WATE	1706	101		100		100		105		105	
Q1563-02MSD	FERNOT-WATE	1709	100		101		101		105		103	
Q1563-02A	FERNOT-WATE	1712	98		100		98		103		101	
Q1588-01	TAPFTA-MW01	1715	112		120		109		112		109	
Q1588-01DUP	TAPFTA-MW01	1718	114		123	*	111		113		111	
Q1588-01L	TAPFTA-MW01	1722	102		104		103		104		102	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/23/2025

Run Number: LB135143 | End Date : 03/23/2025

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
Q1588-01MS	TAPFTA-MW01	1725	103		112		99		105		103	
CCV03	CCV03	1731	98		97		94		99		99	
CCB03	CCB03	1737	96		97		99		100		98	
Q1588-01MSD	TAPFTA-MW01	1740	106		113		100		107		104	
Q1588-01A	TAPFTA-MW01	1743	106		114		100		107		105	
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1755										
CCV04	CCV04	1820	102		100		95		101		101	
CCB04	CCB04	1825	100		100		102		102		101	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/24/2025

Run Number: LB135164 | End Date : 03/24/2025

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	1408	100		100		100		100		100	
S2	S2	1415	102		99		100		99		101	
S3	S3	1418	100		96		97		95		97	
S4	S4	1421	100		93		95		94		98	
S5	S5	1447	102		97		100		98		101	
S6	S6	1450	100		94		96		93		99	
S7	S7	1453	100		94		96		91		99	
S8	S8	1455	98		95		96		86		96	
ICV01	ICV01	1523	97		96		98		97		99	
LLICV01	LLICV01	1532	96		94		96		94		96	
ICB01	ICB01	1536	95		94		96		95		96	
ICSA01	ICSA01	1544	94		93		96		91		98	
ICSAB01	ICSAB01	1549	95		95		98		94		100	
CCV01	CCV01	1555	95		95		97		90		99	
CCB01	CCB01	1558	96		96		98		96		99	
CRI	CRI	1601	98		98		100		99		100	
Q1588-01	TAPFTA-MW01	1604	98		98		103		98		100	
Q1588-01DUP	TAPFTA-MW01	1609	107		108		111		107		108	
Q1588-01L	TAPFTA-MW01	1612	94		95		99		96		97	
Q1588-01MS	TAPFTA-MW01	1616	95		96		99		96		98	
Q1588-01MSD	TAPFTA-MW01	1619	95		95		98		94		96	
Q1588-01A	TAPFTA-MW01	1622	98		95		98		94		97	
CCV02	CCV02	1625	98		94		96		89		97	
CCB02	CCB02	1628	99		97		97		96		98	

Internal Standard %RI Limit: 30 - 120

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions | Contract: WEST04

Lab Code: CHEM | Case no.: Q1588 | Sas No.: Q1588 | SDG No.: Q1588

Instrument ID: P7 | Start Date : 03/24/2025

Run Number: LB135164 | End Date : 03/24/2025

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	1408	100		100		100		100		100	
S2	S2	1415	100		100		100		99		102	
S3	S3	1418	97		97		96		98		98	
S4	S4	1421	93		94		94		97		98	
S5	S5	1447	100		100		98		102		102	
S6	S6	1450	97		98		95		100		101	
S7	S7	1453	97		97		92		99		100	
S8	S8	1455	101		97		88		95		96	
ICV01	ICV01	1523	99		99		98		99		101	
LLICV01	LLICV01	1532	96		98		97		97		98	
ICB01	ICB01	1536	95		96		96		96		97	
ICSA01	ICSA01	1544	96		96		94		99		99	
ICSAB01	ICSAB01	1549	96		98		94		98		101	
CCV01	CCV01	1555	98		96		90		96		97	
CCB01	CCB01	1558	96		98		98		97		98	
CRI	CRI	1601	98		99		98		99		101	
Q1588-01	TAPFTA-MW01	1604	99		104		100		101		101	
Q1588-01DUP	TAPFTA-MW01	1609	103		107		104		103		104	
Q1588-01L	TAPFTA-MW01	1612	96		98		96		97		97	
Q1588-01MS	TAPFTA-MW01	1616	96		99		94		96		95	
Q1588-01MSD	TAPFTA-MW01	1619	97		99		96		96		98	
Q1588-01A	TAPFTA-MW01	1622	96		99		95		96		98	
CCV02	CCV02	1625	99		98		90		96		96	
CCB02	CCB02	1628	97		100		98		99		98	

Internal Standard %RI Limit: 30 - 120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/20/2025

Run Number: LB135118 End Date : 03/20/2025

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	1548	100		100							
S2	S2	1555	101		100							
S3	S3	1558	105		104							
S4	S4	1604	101		100							
S5	S5	1607	102		102							
S6	S6	1610	104		102							
S7	S7	1613	106		102							
S8	S8	1619	105		95							
ICV01	ICV01	1716	108		104							
LLICV01	LLICV01	1719	106		103							
ICB01	ICB01	1727	104		103							
ICSA01	ICSA01	1740	110		106							
ICSAB01	ICSAB01	1743	108		104							
CCV01	CCV01	1749	112		102							
CCB01	CCB01	1756	111		110							
CRI	CRI	1759	111		112							
PB167152BL	PB167152BL	1802	109		108							
PB167152BS	PB167152BS	1808	110		108							
ZZZZZZ	ZZZZZZ	1812										
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1829										
ZZZZZZ	ZZZZZZ	1833										
CCV02	CCV02	1836	113		105							
CCB02	CCB02	1845	103		105							

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/20/2025

Run Number: LB135118 End Date : 03/20/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1548	100									
S2	S2	1555	104									
S3	S3	1558	104									
S4	S4	1604	102									
S5	S5	1607	100									
S6	S6	1610	102									
S7	S7	1613	101									
S8	S8	1619	93									
ICV01	ICV01	1716	109									
LLICV01	LLICV01	1719	106									
ICB01	ICB01	1727	106									
ICSA01	ICSA01	1740	105									
ICSAB01	ICSAB01	1743	106									
CCV01	CCV01	1749	102									
CCB01	CCB01	1756	113									
CRI	CRI	1759	111									
PB167152BL	PB167152BL	1802	110									
PB167152BS	PB167152BS	1808	109									
ZZZZZZ	ZZZZZZ	1812										
ZZZZZZ	ZZZZZZ	1815										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1829										
ZZZZZZ	ZZZZZZ	1833										
CCV02	CCV02	1836	102									
CCB02	CCB02	1845	106									

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/23/2025

Run Number: LB135143 End Date : 03/23/2025

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	1444	100		100							
S2	S2	1450	100		100							
S3	S3	1454	100		102							
S4	S4	1457	99		100							
S5	S5	1500	98		100							
S6	S6	1503	101		102							
S7	S7	1505	101		101							
S8	S8	1508	99		90							
ICV01	ICV01	1535	101		101							
LLICV	LLICV	1547	101		101							
ICB01	ICB01	1550	99		98							
ICSA01	ICSA01	1554	100		95							
ICSAB01	ICSAB01	1557	105		103							
CCV01	CCV01	1600	101		96							
CCB01	CCB01	1604	103		103							
CRI	CRI	1611	100		102							
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1621										
ZZZZZZ	ZZZZZZ	1624										
ZZZZZZ	ZZZZZZ	1627										
ZZZZZZ	ZZZZZZ	1630										
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1637										
ZZZZZZ	ZZZZZZ	1640										
ZZZZZZ	ZZZZZZ	1643										
CCV02	CCV02	1645	103		98							
CCB02	CCB02	1653	102		104							
ZZZZZZ	ZZZZZZ	1656										
Q1563-02DUP	FERNOT-WATEF	1659	105		104							
Q1563-02L	FERNOT-WATEF	1703	105		107							
Q1563-02MS	FERNOT-WATEF	1706	106		105							
Q1563-02MSD	FERNOT-WATEF	1709	105		104							
Q1563-02A	FERNOT-WATEF	1712	102		101							
Q1588-01	TAPFTA-MW01I	1715	113		113							

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/23/2025

Run Number: LB135143 End Date : 03/23/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
Q1588-01DUP	TAPFTA-MW01I	1718	112		112							
Q1588-01L	TAPFTA-MW01I	1722	106		105							
Q1588-01MS	TAPFTA-MW01I	1725	104		103							
CCV03	CCV03	1731	102		97							
CCB03	CCB03	1737	101		102							
Q1588-01MSD	TAPFTA-MW01I	1740	104		102							
Q1588-01A	TAPFTA-MW01I	1743	106		103							
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1755										
CCV04	CCV04	1820	103		96							
CCB04	CCB04	1825	101		102							

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/23/2025

Run Number: LB135143 End Date : 03/23/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1444	100									
S2	S2	1450	100									
S3	S3	1454	101									
S4	S4	1457	100									
S5	S5	1500	100									
S6	S6	1503	100									
S7	S7	1505	97									
S8	S8	1508	89									
ICV01	ICV01	1535	101									
LLICV	LLICV	1547	102									
ICB01	ICB01	1550	99									
ICSA01	ICSA01	1554	96									
ICSAB01	ICSAB01	1557	100									
CCV01	CCV01	1600	93									
CCB01	CCB01	1604	104									
CRI	CRI	1611	101									
ZZZZZZ	ZZZZZZ	1618										
ZZZZZZ	ZZZZZZ	1621										
ZZZZZZ	ZZZZZZ	1624										
ZZZZZZ	ZZZZZZ	1627										
ZZZZZZ	ZZZZZZ	1630										
ZZZZZZ	ZZZZZZ	1634										
ZZZZZZ	ZZZZZZ	1637										
ZZZZZZ	ZZZZZZ	1640										
ZZZZZZ	ZZZZZZ	1643										
CCV02	CCV02	1645	96									
CCB02	CCB02	1653	103									
ZZZZZZ	ZZZZZZ	1656										
Q1563-02DUP	FERNOT-WATEF	1659	103									
Q1563-02L	FERNOT-WATEF	1703	107									
Q1563-02MS	FERNOT-WATEF	1706	104									
Q1563-02MSD	FERNOT-WATEF	1709	104									
Q1563-02A	FERNOT-WATEF	1712	101									
Q1588-01	TAPFTA-MW01I	1715	109									

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/23/2025

Run Number: LB135143 End Date : 03/23/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
Q1588-01DUP	TAPFTA-MW01I	1718	112									
Q1588-01L	TAPFTA-MW01I	1722	104									
Q1588-01MS	TAPFTA-MW01I	1725	102									
CCV03	CCV03	1731	94									
CCB03	CCB03	1737	100									
Q1588-01MSD	TAPFTA-MW01I	1740	102									
Q1588-01A	TAPFTA-MW01I	1743	104									
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1755										
CCV04	CCV04	1820	95									
CCB04	CCB04	1825	104									

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/24/2025

Run Number: LB135164 End Date : 03/24/2025

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	1408	100		100							
S2	S2	1415	100		101							
S3	S3	1418	99		99							
S4	S4	1421	98		100							
S5	S5	1447	101		103							
S6	S6	1450	99		100							
S7	S7	1453	99		98							
S8	S8	1455	98		88							
ICV01	ICV01	1523	99		101							
LLICV01	LLICV01	1532	97		98							
ICB01	ICB01	1536	97		98							
ICSA01	ICSA01	1544	100		95							
ICSAB01	ICSAB01	1549	102		98							
CCV01	CCV01	1555	98		94							
CCB01	CCB01	1558	99		100							
CRI	CRI	1601	100		101							
Q1588-01	TAPFTA-MW01I	1604	103		102							
Q1588-01DUP	TAPFTA-MW01I	1609	109		109							
Q1588-01L	TAPFTA-MW01I	1612	98		97							
Q1588-01MS	TAPFTA-MW01I	1616	98		99							
Q1588-01MSD	TAPFTA-MW01I	1619	97		98							
Q1588-01A	TAPFTA-MW01I	1622	99		100							
CCV02	CCV02	1625	99		94							
CCB02	CCB02	1628	100		101							

Internal Standard %RI Limit: 30 -120

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

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions Contract: WEST04

Lab Code: CHEM Case no.: Q1588 Sas No.: Q1588 SDG No.: Q1588

Instrument ID: P7 Start Date : 03/24/2025

Run Number: LB135164 End Date : 03/24/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1408	100									
S2	S2	1415	100									
S3	S3	1418	96									
S4	S4	1421	95									
S5	S5	1447	101									
S6	S6	1450	97									
S7	S7	1453	94									
S8	S8	1455	85									
ICV01	ICV01	1523	101									
LLICV01	LLICV01	1532	98									
ICB01	ICB01	1536	96									
ICSA01	ICSA01	1544	96									
ICSAB01	ICSAB01	1549	96									
CCV01	CCV01	1555	89									
CCB01	CCB01	1558	97									
CRI	CRI	1601	100									
Q1588-01	TAPFTA-MW01I	1604	101									
Q1588-01DUP	TAPFTA-MW01I	1609	104									
Q1588-01L	TAPFTA-MW01I	1612	98									
Q1588-01MS	TAPFTA-MW01I	1616	95									
Q1588-01MSD	TAPFTA-MW01I	1619	96									
Q1588-01A	TAPFTA-MW01I	1622	97									
CCV02	CCV02	1625	90									
CCB02	CCB02	1628	98									

Internal Standard %RI Limit: 30 -120

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

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

FRAC-TANK-FMI120L

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

Lab Code: CHEM **Lb No.:** lb135071 **Lab Sample ID :** Q1553-03L **SDG No.:** Q1588

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	0.28		0.40	J	44		CV

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

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TAPFTA-MW01D-031425-00-T1L

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

Lab Code: CHEM **Lb No.:** lb135143 **Lab Sample ID :** Q1588-01L **SDG No.:** Q1588

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	2870		3070		7		P
Antimony	0.27	J	10.0	U	100.0		P
Arsenic	2.55	JD	4.00	JD	57		P
Barium	58.2		58.9		1		P
Beryllium	1.48		5.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	4350		4120		5		P
Chromium	24.7		25.5		3		P
Cobalt	4.32		4.35	J	1		P
Copper	18.3		19.3		5		P
Iron	6310		6530		3		P
Lead	8.21		7.90		4		P
Magnesium	893		905	J	1		P
Manganese	81.9		83.5		2		P
Nickel	11.2		11.6		3		P
Potassium	1470		1490	J	1		P
Selenium	25.0	UD	125	UD			P
Silver	1.00	U	5.00	U			P
Sodium	15300		15400		1		P
Thallium	0.14	J	5.00	U	100.0		P
Vanadium	86.5		88.2		2		P
Zinc	25.0		24.6	J	2		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

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

Case No.: Q1588 **SAS No.:** Q1588

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167152**						
PB167152BL	PB167152BL	MB	WATER	03/17/2025	50.0	50.0	
PB167152BS	PB167152BS	LCS	WATER	03/17/2025	50.0	50.0	
Q1588-01	TAPFTA-MW01D-031425-00-T1	SAM	WATER	03/17/2025	50.0	50.0	
Q1588-01DUP	TAPFTA-MW01D-031425-00-T1DUP	DUP	WATER	03/17/2025	50.0	50.0	
Q1588-01MS	TAPFTA-MW01D-031425-00-T1MS	MS	WATER	03/17/2025	50.0	50.0	
Q1588-01MSD	TAPFTA-MW01D-031425-00-T1MSD	MSD	WATER	03/17/2025	50.0	50.0	

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

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1588

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

Case No.: Q1588 **SAS No.:** Q1588

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167196**						
PB167196BL	PB167196BL	MB	WATER	03/18/2025	30.0	30.0	
PB167196BS	PB167196BS	LCS	WATER	03/18/2025	30.0	30.0	
Q1553-03DUP	FRAC-TANK-FMI120DUP	DUP	WATER	03/18/2025	30.0	30.0	
Q1553-03MS	FRAC-TANK-FMI120MS	MS	WATER	03/18/2025	30.0	30.0	
Q1553-03MSD	FRAC-TANK-FMI120MSD	MSD	WATER	03/18/2025	30.0	30.0	
Q1588-01	TAPFTA-MW01D-031425-00-T1	SAM	WATER	03/18/2025	30.0	30.0	

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1588 **Sas no.:** Q1588 **Sdg no.:** Q1588

Instrument id number: **Method:** **Run number:** LB135071

Start date: 03/18/2025 **End date:** 03/18/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1317	HG
S0.2	S0.2	1	1319	HG
S2.5	S2.5	1	1322	HG
S5	S5	1	1332	HG
S7.5	S7.5	1	1334	HG
S10	S10	1	1339	HG
ICV47	ICV47	1	1342	HG
ICB47	ICB47	1	1344	HG
CCV23	CCV23	1	1347	HG
CCB23	CCB23	1	1349	HG
CRA	CRA	1	1351	HG
PB167196BL	PB167196BL	1	1401	HG
PB167196BS	PB167196BS	1	1403	HG
Q1553-03DUP	FRAC-TANK-FMI120DUP	1	1407	HG
Q1553-03MS	FRAC-TANK-FMI120MS	1	1410	HG
Q1553-03MSD	FRAC-TANK-FMI120MSD	1	1412	HG
CCV24	CCV24	1	1417	HG
CCB24	CCB24	1	1419	HG
Q1588-01	TAPFTA-MW01D-031425-00-T	1	1428	HG
Q1553-03L	FRAC-TANK-FMI120L	5	1444	HG
Q1553-03A	FRAC-TANK-FMI120A	1	1447	HG
CCV25	CCV25	1	1454	HG
CCB25	CCB25	1	1456	HG

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1588 **Sas no.:** Q1588 **Sdg no.:** Q1588

Instrument id number: **Method:** **Run number:** LB135118

Start date: 03/20/2025 **End date:** 03/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1548	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	1555	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	1558	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	1604	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	1607	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	1610	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	1613	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	1619	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1719	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	1727	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	1740	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	1743	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	1749	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	1756	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	1759	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167152BL	PB167152BL	1	1802	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167152BS	PB167152BS	1	1808	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	1836	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	1845	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1588 **Sas no.:** Q1588 **Sdg no.:** Q1588

Instrument id number: **Method:** **Run number:** LB135143

Start date: 03/23/2025 **End date:** 03/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1444	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	1450	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	1454	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	1457	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	1500	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	1503	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	1505	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	1508	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1535	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	1547	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	1550	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	1554	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	1557	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	1600	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	1604	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	1611	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	1645	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	1653	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1588-01	TAPFTA-MW01D-031425-00-T	1	1715	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
Q1588-01DUP	TAPFTA-MW01D-031425-00-T	1	1718	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
Q1588-01L	TAPFTA-MW01D-031425-00-T	5	1722	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
Q1588-01MS	TAPFTA-MW01D-031425-00-T	1	1725	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
CCV03	CCV03	1	1731	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	1737	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1588-01MSD	TAPFTA-MW01D-031425-00-T	1	1740	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
Q1588-01A	TAPFTA-MW01D-031425-00-T	1	1743	Ag,Ba,Ca,Cu,K,Mn,Zn
CCV04	CCV04	1	1820	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	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1588 **Sas no.:** Q1588 **Sdg no.:** Q1588

Instrument id number: **Method:** **Run number:** LB135164

Start date: 03/24/2025 **End date:** 03/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1408	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	1415	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	1418	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	1421	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	1447	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	1450	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	1453	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	1455	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1523	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1532	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	1536	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	1544	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	1549	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	1555	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	1558	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	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1588-01	TAPFTA-MW01D-031425-00-T	5	1604	As,Se
Q1588-01DUP	TAPFTA-MW01D-031425-00-T	5	1609	As,Se
Q1588-01L	TAPFTA-MW01D-031425-00-T	25	1612	As,Se
Q1588-01MS	TAPFTA-MW01D-031425-00-T	5	1616	As,Se
Q1588-01MSD	TAPFTA-MW01D-031425-00-T	5	1619	As,Se
Q1588-01A	TAPFTA-MW01D-031425-00-T	5	1622	As
CCV02	CCV02	1	1625	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	1628	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

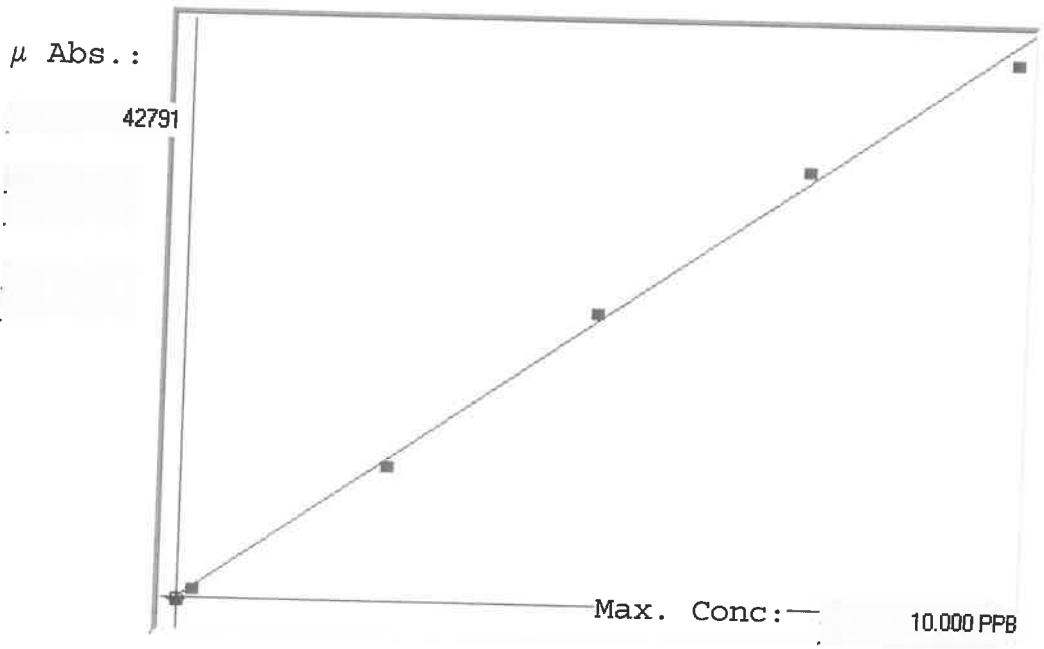
Reviewed By:jaswal
On:3/20/2025 1:26:45 PM
Inst Id :CV1
LB :LB135071

LB135071

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.2744e-004

C= -5.7527e-003

Rho= 0.9988718

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%
0.0	0.000	-0.047	-0.047	-180	0.000	-180	0				1
0.2	0.200	0.187	-0.013	849	0.0 %	849					7
2.5	2.500	2.399	-0.101	10573	0.0 %	10573					4
5.0	5.000	5.179	0.179	22798	0.0 %	22798					4
7.5	7.500	7.754	0.254	34120	0.0 %	34120					3
10.0	10.000	9.727	-0.273	42791	0.0 %	42791					3

Reviewed By:jaswal
On:3/20/2025 1:26:45 PM
Inst Id :CV1
LB :LB135071

LB135071 INSTRU,MENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 18 Mar 2025 12:48:46

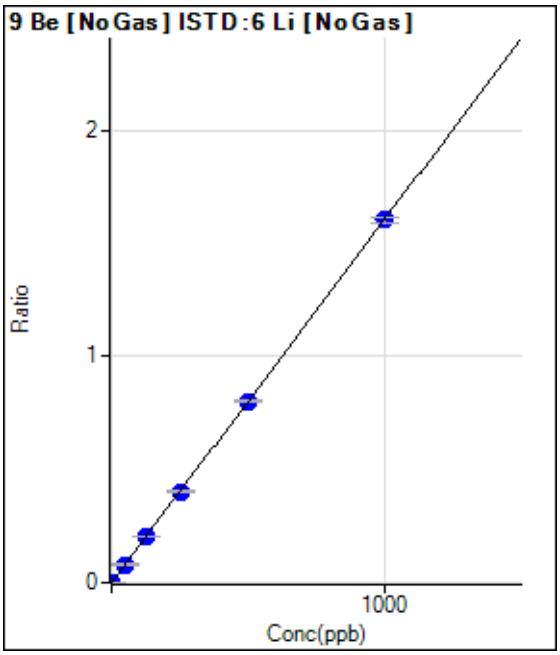
Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	-180	-	0.00000	7470A	PPB	18 Mar 2025 13:17:39	S	Std
0.2 - 1	502	849	-	0.20000	7470A	PPB	18 Mar 2025 13:19:56	S	Std
2.5 - 1	502.5	10573	-	2.50000	7470A	PPB	18 Mar 2025 13:22:13	S	Std
5.0 - 1	55	22798	-	5.00000	7470A	PPB	18 Mar 2025 13:32:20	S	Std
7.5 - 1	57.5	34120	-	7.50000	7470A	PPB	18 Mar 2025 13:34:36	S	Std
10.0 - 1	510	42791	-	10.00000	7470A	PPB	18 Mar 2025 13:39:34	S	Std
ICV47 - 1	ICV47	18511	4.2044		-7470A	PPB	18 Mar 2025 13:42:31	U	SMPL
ICB47 - 1	ICB47	188	0.0370		-7470A	PPB	18 Mar 2025 13:44:46	U	SMPL
CCV23 - 1	CCV23	22809	5.1819		-7470A	PPB	18 Mar 2025 13:47:03	U	SMPL
CCB23 - 1	CCB23	71	0.0104		-7470A	PPB	18 Mar 2025 13:49:18	U	SMPL
CRA - 1	CRA	880	0.1944		-7470A	PPB	18 Mar 2025 13:51:35	U	SMPL
HighStd - 1	HighStd	42251	9.6037		-7470A	PPB	18 Mar 2025 13:53:51	U	SMPL
ChkStd - 1	ChkStd	30740	6.9857		-7470A	PPB	18 Mar 2025 13:58:46	U	SMPL
PB167196BL - 1	PBW	-286	-0.0708		-7470A	PPB	18 Mar 2025 14:01:01	U	SMPL
PB167196BS - 1	LCSW	17100	3.8834		-7470A	PPB	18 Mar 2025 14:03:20	U	SMPL
Q1553-03 - 1	FRAC-TANK-FMI120	1245	0.2774		-7470A	PPB	18 Mar 2025 14:05:36	U	SMPL
Q1553-03DUP - 1	FRAC-TANK-FMI120DUP	1114	0.2476		-7470A	PPB	18 Mar 2025 14:07:54	U	SMPL
Q1553-03MS - 1	FRAC-TANK-FMI120MS	12244	2.7790		-7470A	PPB	18 Mar 2025 14:10:11	U	SMPL
Q1553-03MSD - 1	FRAC-TANK-FMI120MSD	12644	2.8700		-7470A	PPB	18 Mar 2025 14:12:28	U	SMPL
Q1563-01 - 1	437	2063	0.4635		-7470A	PPB	18 Mar 2025 14:14:46	U	SMPL
CCV24 - 1	CCV24	20755	4.7147		-7470A	PPB	18 Mar 2025 14:17:04	U	SMPL
CCB24 - 1	CCB24	36	0.0024		-7470A	PPB	18 Mar 2025 14:19:21	U	SMPL
Q1563-02 - 1	FERNOT-WATER	372	0.0789		-7470A	PPB	18 Mar 2025 14:21:39	U	SMPL
Q1576-01 - 1	MW14	48064	10.9258		-7470A	PPB	18 Mar 2025 14:23:54	U	SMPL
Q1577-03 - 1	MOO-25-0072	-613	-0.1452		-7470A	PPB	18 Mar 2025 14:26:10	U	SMPL
Q1588-01 - 1	TAPFTA-MW01D-031425-00-T1	92	0.0152		-7470A	PPB	18 Mar 2025 14:28:32	U	SMPL
Q1590-04 - 1	3799	144	0.0270		-7470A	PPB	18 Mar 2025 14:30:48	U	SMPL
Q1553-03LX5 - 1		376	0.0798		-7470A	PPB	18 Mar 2025 14:44:49	U	SMPL
Q1553-03A - 1		17027	3.8668		-7470A	PPB	18 Mar 2025 14:47:05	U	SMPL
Q1576-01DLX2 - 1		22721	5.1619		-7470A	PPB	18 Mar 2025 14:49:21	U	SMPL
CCV25 - 1	CCV25	21064	4.7850		-7470A	PPB	18 Mar 2025 14:54:41	U	SMPL
CCB25 - 1	CCB25	-31	-0.0128		-7470A	PPB	18 Mar 2025 14:56:57	U	SMPL

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032025MS2.b\
Analysis File: P7032025MS2.batch.bin
DA Date-Time: 2025-03-20 18:54:17
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-03-20 15:48:24
2	006CALS.d	S02	2025-03-20 15:55:04
3	007CALS.d	S03	2025-03-20 15:58:22
4	009CALS.d	S04	2025-03-20 16:04:42
5	010CALS.d	S05	2025-03-20 16:07:45
6	011CALS.d	S06	2025-03-20 16:10:39
7	012CALS.d	S07	2025-03-20 16:13:29
8	014CALS.d	S08	2025-03-20 16:19:30

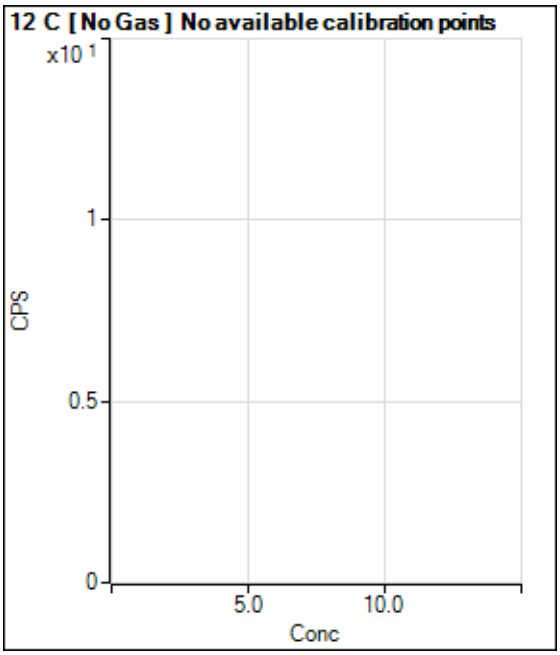
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.98	0.0001	P	25.6
2	☐	1.000	1.079	955.30	0.0019	P	4.2
3	☐	50.000	49.835	42075.86	0.0801	P	2.2
4	☐	125.000	125.746	102744.92	0.2018	P	0.5
5	☐	250.000	251.102	204677.95	0.4028	P	1.8
6	☐	500.000	500.463	403466.02	0.8026	P	1.4
7	☐	1000.000	999.408	808379.35	1.6027	P	1.6
8	☐			115.98	0.0002	P	23.6

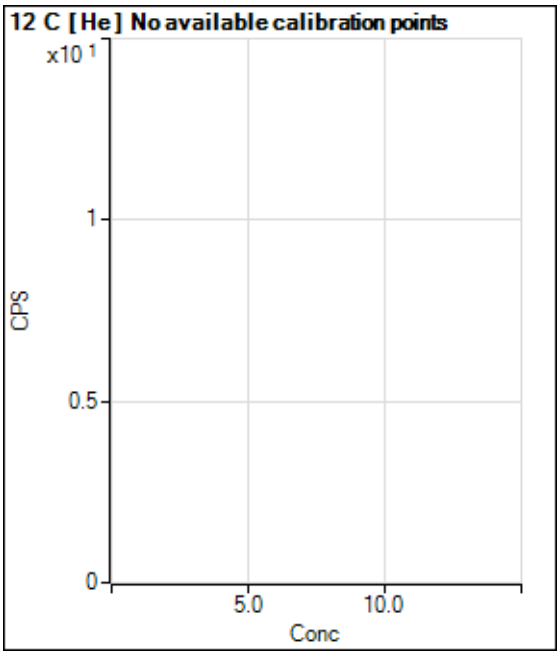
y = 0.0016 * x + 1.4816E-004
R = 1.0000
DL = 0.07109
BEC = 0.0924

Weight: <None>
Min Conc: 0

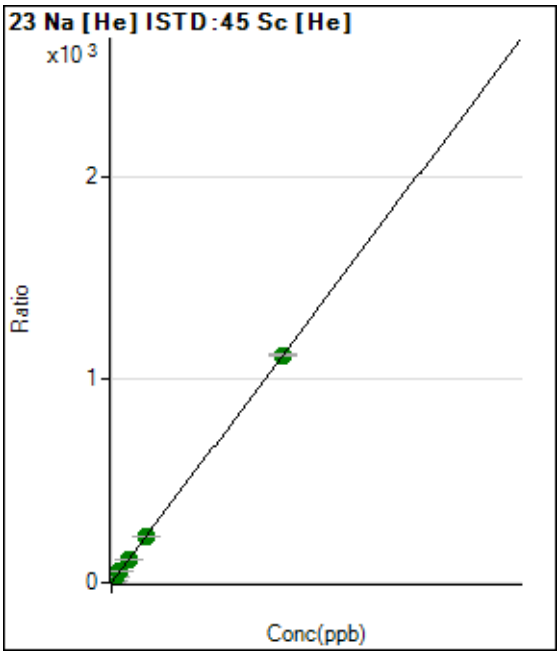


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

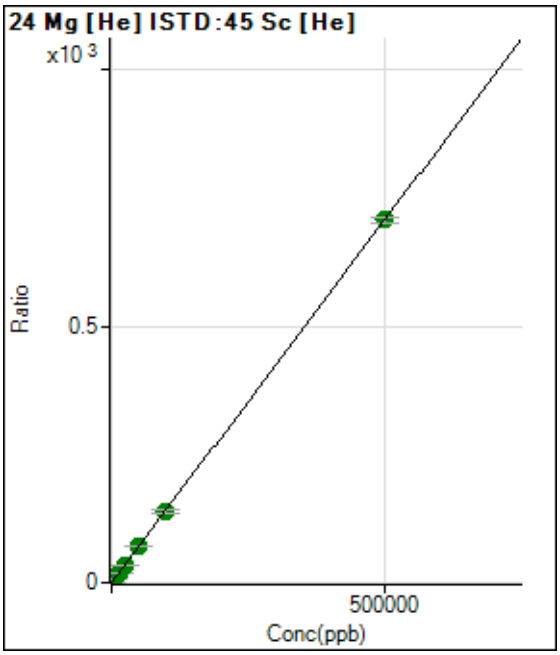


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17136.30	0.1054	P	0.4
2	☐	500.000	469.785	194382.93	1.1546	P	0.7
3	☐	5000.000	5041.292	1940812.04	11.3640	A	1.8
4	☐	12500.000	12525.198	4593479.24	28.0777	A	2.4
5	☐	25000.000	25105.029	9178554.03	56.1721	A	1.9
6	☐	50000.000	50659.112	18751649.58	113.2416	A	0.8
7	☐	100000.00	100632.22	37736799.72	224.8458	A	1.5
8	☐	500000.00	499801.38	194106014.8	1,116.304	A	0.9

y = 0.0022 * x + 0.1054
R = 1.0000
DL = 0.6247
BEC = 47.19

Weight: <None>
Min Conc: 0

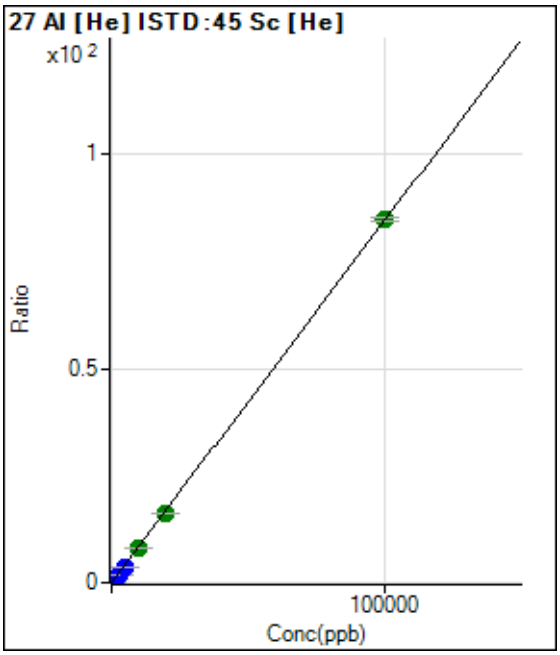
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	884.48	0.0054	P	7.0
2	☐	500.000	474.449	113766.39	0.6758	P	0.6
3	☐	5000.000	5012.684	1210449.40	7.0875	A	0.7
4	☐	12500.000	12639.595	2922507.18	17.8631	A	1.5
5	☐	25000.000	24992.547	5770632.00	35.3158	A	0.8
6	☐	50000.000	49805.190	11653540.38	70.3720	A	1.7
7	☐	100000.00	98178.351	23278482.71	138.7154	A	3.3
8	☐	500000.00	500380.59	122930919.2	706.9613	A	1.8

y = 0.0014 * x + 0.0054
R = 1.0000
DL = 0.804
BEC = 3.849

Weight: <None>
Min Conc: 0

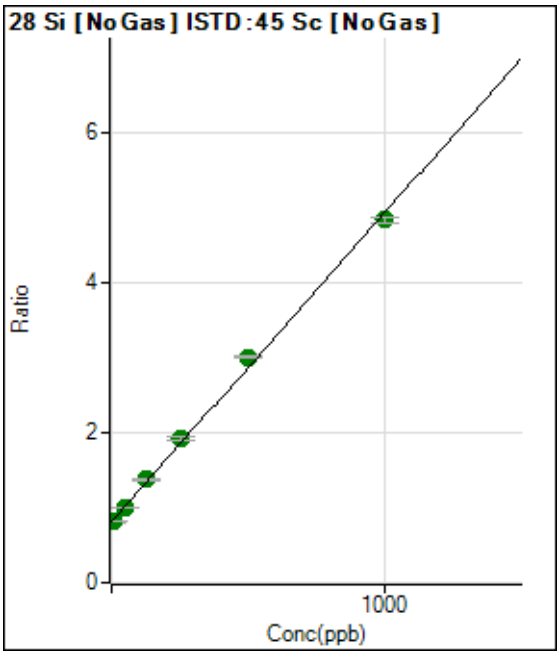


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.00	0.0012	P	18.9
2	☐	20.000	17.589	2711.38	0.0161	P	3.4
3	☐	1000.000	861.293	124581.86	0.7294	P	0.7
4	☐	2500.000	2187.140	302743.25	1.8504	P	0.6
5	☐	5000.000	4309.221	595537.17	3.6446	P	0.6
6	☐	10000.000	9686.071	1356338.19	8.1907	A	1.0
7	☐	20000.000	19187.777	2722969.01	16.2243	A	1.6
8	☐	100000.00	100237.58	14736241.72	84.7512	A	0.9

y = 8.4549E-004 * x + 0.0012
R = 1.0000
DL = 0.8264
BEC = 1.456

Weight: <None>
Min Conc: 0

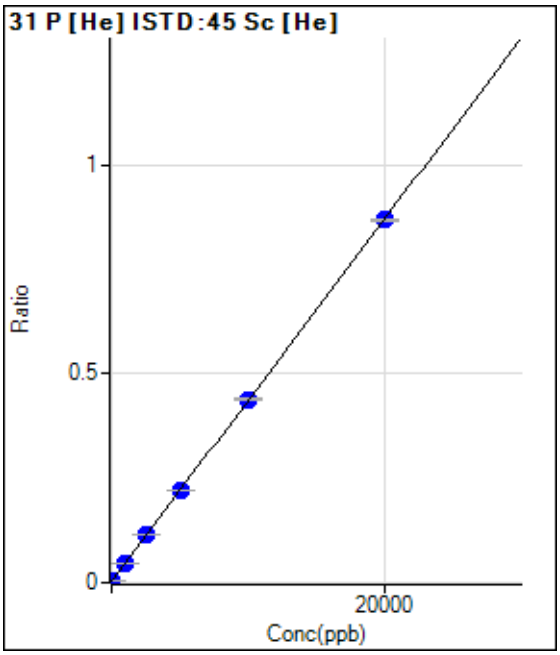
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1600225.66	0.8140	A	1.5
2	☐	10.000	-0.433	1615265.50	0.8123	A	0.7
3	☐	50.000	43.902	2039924.83	0.9951	A	1.1
4	☐	125.000	136.255	2639247.11	1.3761	A	0.5
5	☐	250.000	269.895	3663749.15	1.9273	A	1.7
6	☐	500.000	533.804	5768942.90	3.0159	A	1.2
7	☐	1000.000	977.127	9297514.37	4.8445	A	1.6
8	☐			1570157.30	0.7598	A	3.3

y = 0.0041 * x + 0.8140
R = 0.9986
DL = 8.759
BEC = 197.4

Weight: <None>
Min Conc: 0

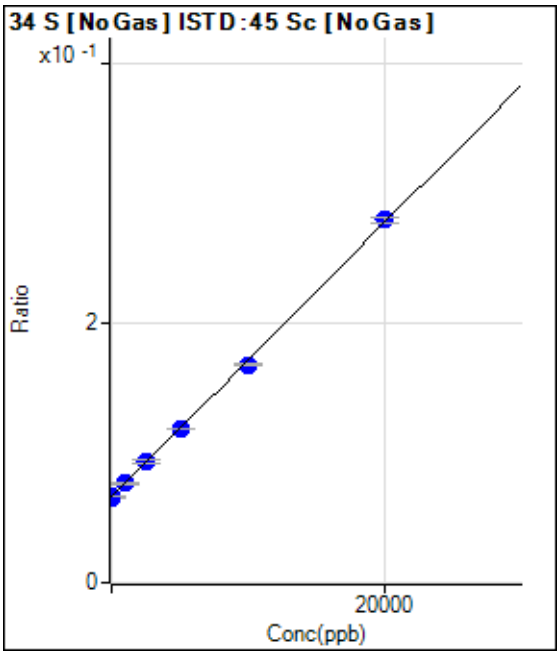


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.681	457.79	0.0028	P	6.8
2	☐	0.000	14.681	688.91	0.0041	P	8.2
3	☐	1000.000	1012.321	8087.77	0.0474	P	3.1
4	☐	2500.000	2607.928	19070.87	0.1166	P	1.3
5	☐	5000.000	5013.863	36097.08	0.2209	P	1.1
6	☐	10000.000	10048.229	72738.71	0.4393	P	1.1
7	☐	20000.000	19958.313	145872.25	0.8691	P	0.3
8	☐			420.01	0.0024	P	11.6

y = 4.3371E-005 * x + 0.0035
R = 1.0000
DL = 18.18
BEC = 79.63

Weight: <None>
Min Conc: 0

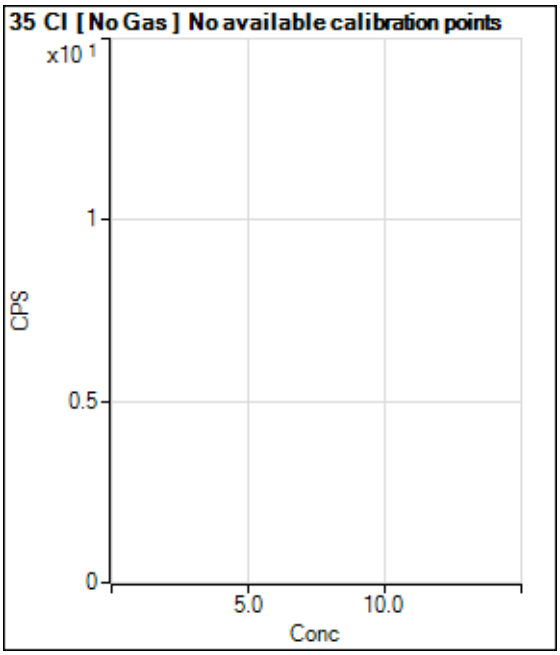
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-93.882	127974.51	0.0651	P	1.8
2	☐	0.000	93.882	133414.87	0.0671	P	0.3
3	☐	1000.000	1020.214	157576.90	0.0769	P	1.8
4	☐	2500.000	2574.306	178931.63	0.0933	P	1.7
5	☐	5000.000	4942.255	224943.84	0.1183	P	0.8
6	☐	10000.000	9627.883	321037.68	0.1678	P	0.5
7	☐	20000.000	20190.196	536288.92	0.2794	P	1.3
8	☐			142271.37	0.0689	P	4.5

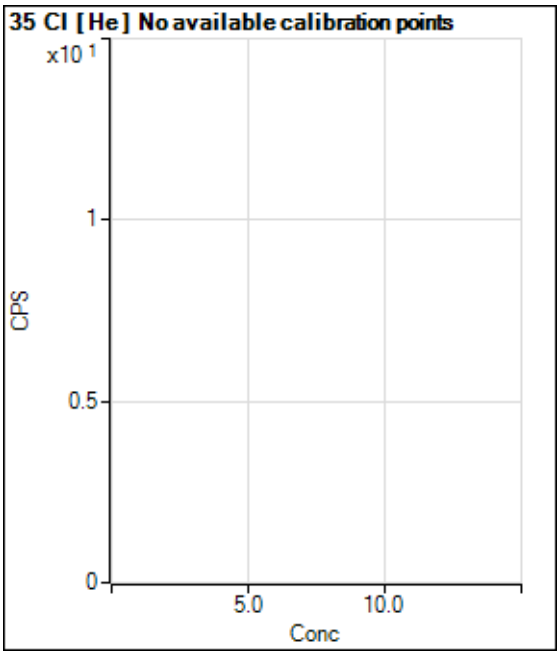
y = 1.0566E-005 * x + 0.0661
R = 0.9997
DL = 191.7
BEC = 6255

Weight: <None>
Min Conc: 0

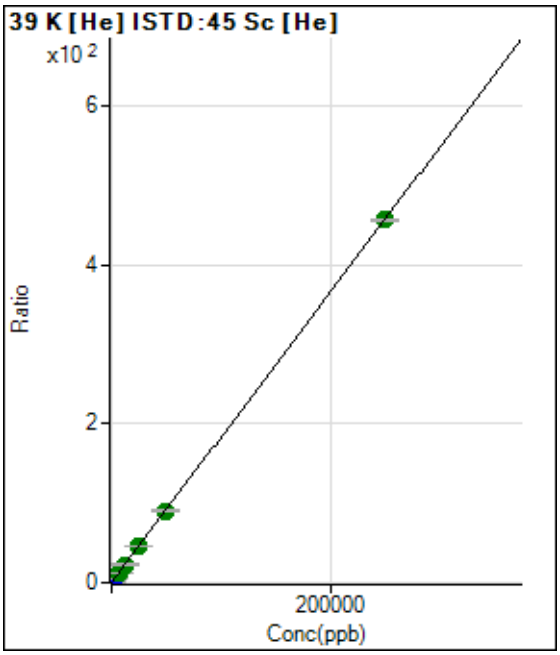


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

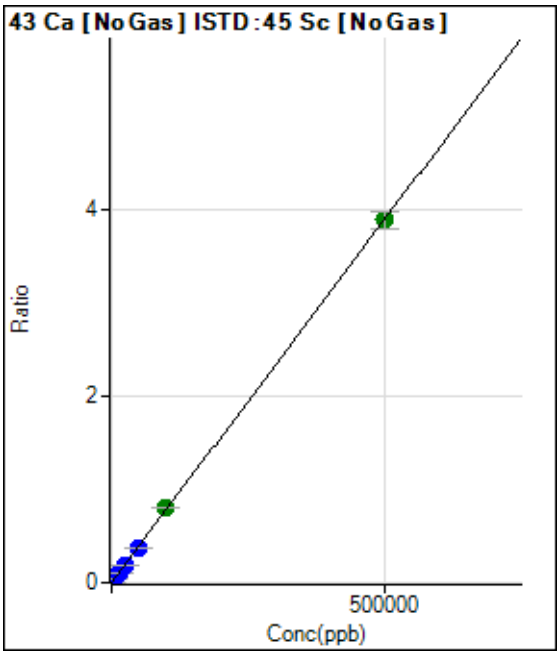


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54102.35	0.3328	P	1.2
2	☐	500.000	496.686	208367.77	1.2377	P	0.2
3	☐	2500.000	2342.929	785849.22	4.6014	P	0.4
4	☐	6250.000	6402.166	1962738.24	11.9969	A	1.0
5	☐	12500.000	12356.226	3732833.73	22.8447	A	1.1
6	☐	25000.000	24955.773	7584288.15	45.7999	A	0.3
7	☐	50000.000	49536.167	15203848.52	90.5831	A	0.7
8	☐	250000.00	250102.15	79287183.26	455.9958	A	0.7

y = 0.0018 * x + 0.3328
R = 1.0000
DL = 6.413
BEC = 182.6

Weight: <None>
Min Conc: 0

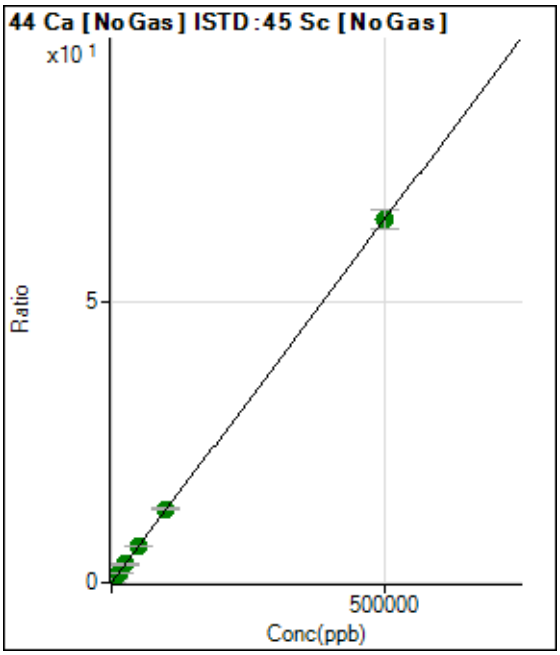
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	448.90	0.0002	P	14.2
2	☐	500.000	514.398	8429.08	0.0042	P	2.3
3	☐	5000.000	4785.406	76942.76	0.0375	P	0.9
4	☐	12500.000	12188.790	182682.92	0.0952	P	0.5
5	☐	25000.000	24027.421	356547.64	0.1875	P	0.3
6	☐	50000.000	47573.641	709879.42	0.3711	P	0.7
7	☐	100000.00	103130.95	1543424.51	0.8042	A	1.6
8	☐	500000.00	499674.98	8046481.27	3.8956	A	5.0

y = 7.7958E-006 * x + 2.2806E-004
R = 1.0000
DL = 12.43
BEC = 29.25

Weight: <None>
Min Conc: 0

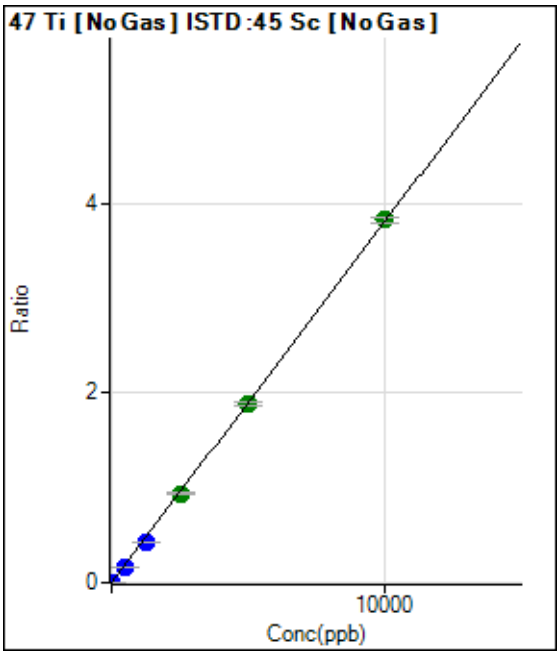


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9703.28	0.0049	P	2.9
2	☐	500.000	513.785	141685.91	0.0712	P	0.7
3	☐	5000.000	5000.585	1333054.83	0.6503	A	2.0
4	☐	12500.000	12962.204	3218222.42	1.6779	A	1.5
5	☐	25000.000	25157.745	6182449.42	3.2519	A	0.4
6	☐	50000.000	50192.866	12401447.04	6.4831	A	0.7
7	☐	100000.00	101722.74	25208119.62	13.1338	A	0.7
8	☐	500000.00	499616.70	133191324.6	64.4881	A	5.2

y = 1.2907E-004 * x + 0.0049
R = 1.0000
DL = 3.271
BEC = 38.23

Weight: <None>
Min Conc: 0

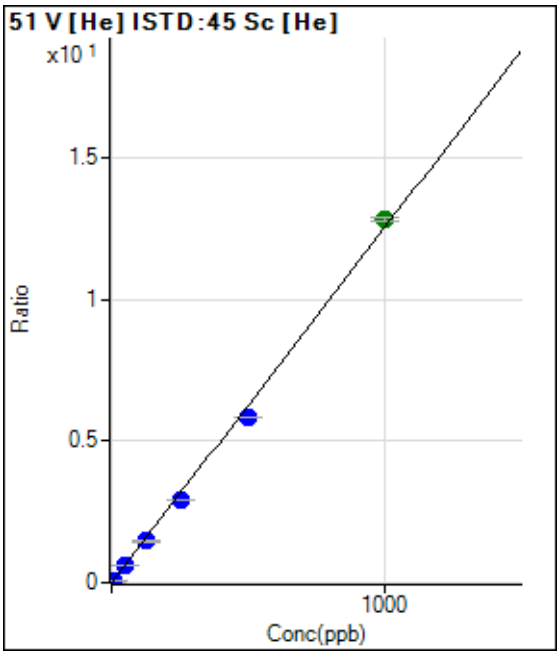
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	26.0
2	☐	5.000	4.920	3778.29	0.0019	P	2.2
3	☐	500.000	441.973	344917.97	0.1683	P	1.4
4	☐	1250.000	1117.627	815986.86	0.4254	P	0.5
5	☐	2500.000	2475.285	1791542.84	0.9422	A	1.1
6	☐	5000.000	4936.274	3594199.56	1.8790	A	2.1
7	☐	10000.000	10057.490	7347576.63	3.8284	A	1.4
8	☐			497.79	0.0002	P	22.2

y = 3.8065E-004 * x + 2.7059E-005
R = 0.9999
DL = 0.0555
BEC = 0.07109

Weight: <None>
Min Conc: 0

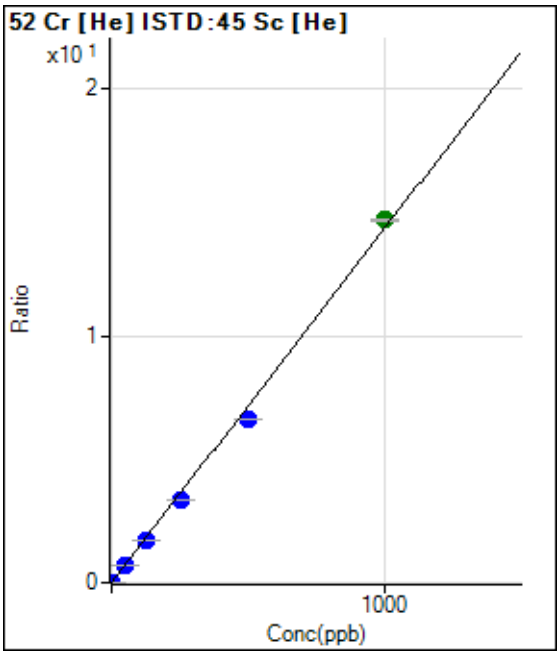


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0002	P	17.2
2	☐	5.000	5.101	10798.38	0.0641	P	1.8
3	☐	50.000	46.701	100037.92	0.5857	P	0.8
4	☐	125.000	116.994	240034.26	1.4671	P	1.2
5	☐	250.000	231.754	474857.07	2.9061	P	0.8
6	☐	500.000	466.538	968735.48	5.8500	P	0.7
7	☐	1000.000	1022.458	2151797.59	12.8206	A	1.2
8	☐			562.24	0.0032	P	4.9

y = 0.0125 * x + 1.7060E-004
R = 0.9990
DL = 0.00701
BEC = 0.01361

Weight: <None>
Min Conc: 0

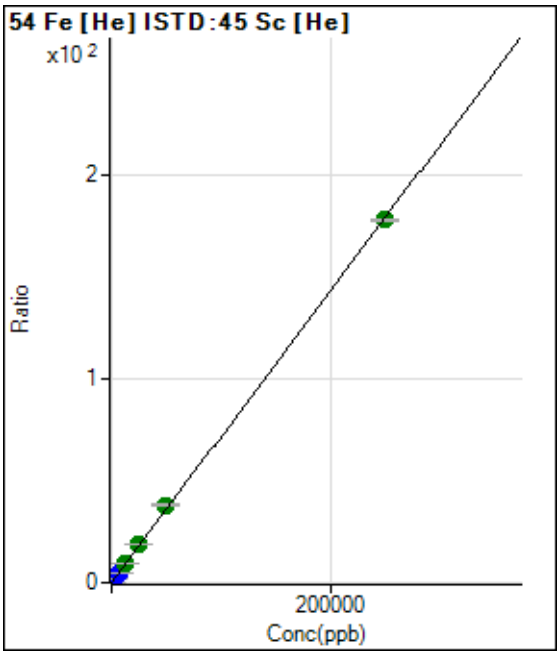
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	521.12	0.0032	P	16.0
2	☐	2.000	1.978	5320.98	0.0316	P	2.3
3	☐	50.000	46.434	114377.85	0.6697	P	0.4
4	☐	125.000	117.596	276688.10	1.6912	P	0.3
5	☐	250.000	231.595	543715.48	3.3275	P	0.5
6	☐	500.000	462.275	1099311.11	6.6387	P	0.6
7	☐	1000.000	1024.568	2469110.40	14.7097	A	0.3
8	☐			13737.46	0.0790	P	3.8

y = 0.0144 * x + 0.0032
R = 0.9988
DL = 0.1076
BEC = 0.2235

Weight: <None>
Min Conc: 0

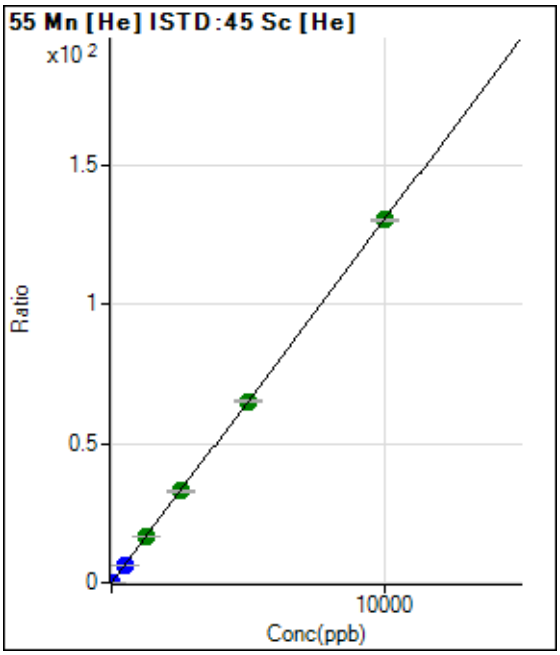


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2956.99	0.0182	P	2.5
2	☐	50.000	53.248	9468.60	0.0562	P	1.2
3	☐	2500.000	2537.163	312781.24	1.8314	P	0.5
4	☐	6250.000	6377.347	748654.54	4.5759	P	0.2
5	☐	12500.000	13217.657	1546507.77	9.4645	A	1.9
6	☐	25000.000	26843.020	3179704.57	19.2022	A	0.7
7	☐	50000.000	53410.498	6410813.79	38.1894	A	1.4
8	☐	250000.00	249094.16	30957609.26	178.0397	A	0.4

y = 7.1468E-004 * x + 0.0182
R = 0.9999
DL = 1.877
BEC = 25.44

Weight: <None>
Min Conc: 0

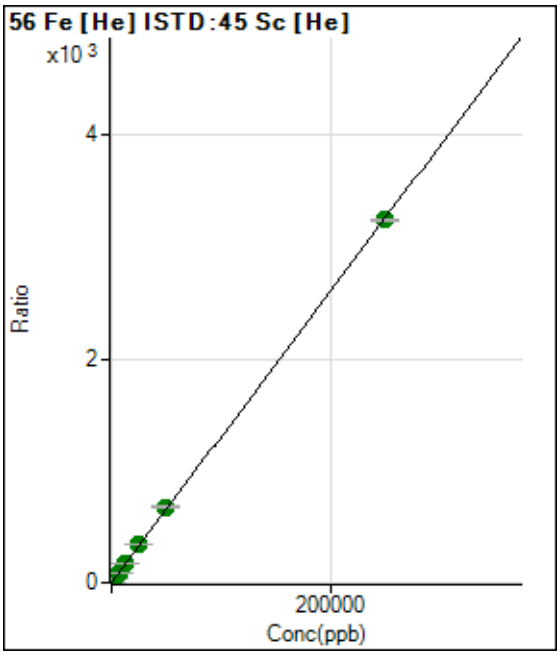
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	777.81	0.0048	P	10.1
2	☐	1.000	0.898	2781.40	0.0165	P	1.5
3	☐	500.000	457.022	1020293.89	5.9741	P	0.1
4	☐	1250.000	1250.778	2673579.44	16.3415	A	0.2
5	☐	2500.000	2530.122	5400606.20	33.0513	A	1.3
6	☐	5000.000	5004.107	10823927.48	65.3646	A	0.4
7	☐	10000.000	9992.467	21908116.06	130.5187	A	0.4
8	☐			11441.10	0.0658	P	2.4

y = 0.0131 * x + 0.0048
R = 1.0000
DL = 0.1107
BEC = 0.3665

Weight: <None>
Min Conc: 0

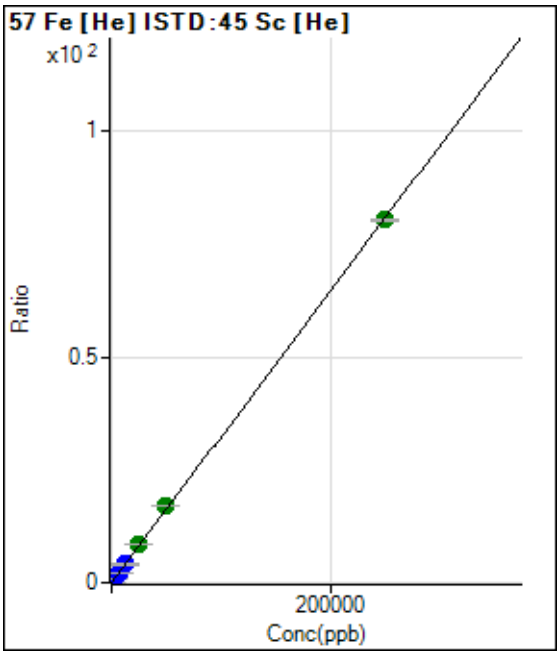


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23982.53	0.1475	P	2.9
2	☐	50.000	54.226	143561.24	0.8528	P	1.3
3	☐	2500.000	2673.542	5963612.34	34.9182	A	0.5
4	☐	6250.000	6711.794	14305942.01	87.4376	A	1.6
5	☐	12500.000	13328.661	28348916.25	173.4932	A	0.6
6	☐	25000.000	26279.399	56619600.82	341.9237	A	0.7
7	☐	50000.000	52044.367	113626518.3	677.0095	A	1.3
8	☐	250000.00	249408.47	564031929.3	3,243.824	A	0.3

y = 0.0130 * x + 0.1475
R = 1.0000
DL = 0.9882
BEC = 11.34

Weight: <None>
Min Conc: 0

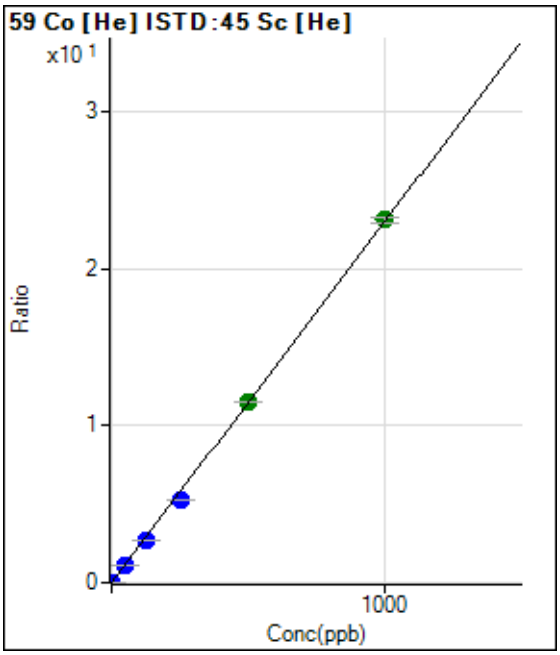
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1410.08	0.0087	P	4.9
2	☐	50.000	57.269	4568.52	0.0271	P	2.5
3	☐	2500.000	2530.936	140802.71	0.8245	P	1.0
4	☐	6250.000	6380.218	337881.11	2.0652	P	0.7
5	☐	12500.000	12537.353	661732.38	4.0497	P	0.6
6	☐	25000.000	26457.105	1413663.76	8.5364	A	1.7
7	☐	50000.000	52604.718	2847252.84	16.9644	A	1.5
8	☐	250000.00	249327.91	13975289.65	80.3728	A	0.3

y = 3.2232E-004 * x + 0.0087
R = 0.9999
DL = 3.967
BEC = 26.91

Weight: <None>
Min Conc: 0

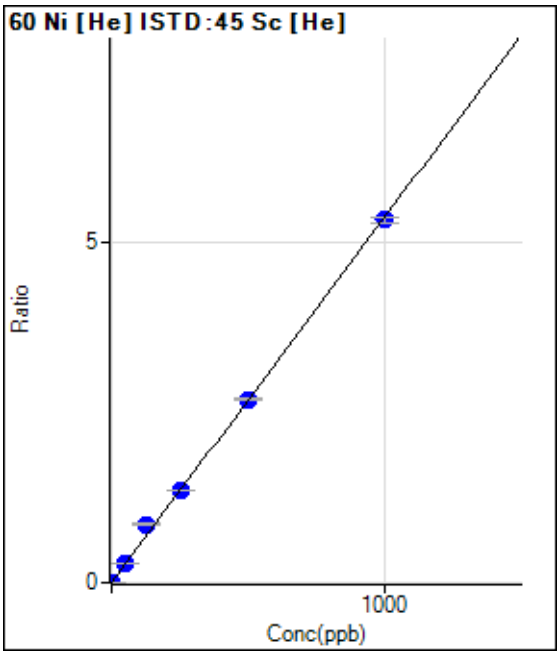


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0016	P	11.0
2	☐	1.000	1.071	4408.47	0.0262	P	1.1
3	☐	50.000	46.687	183594.78	1.0750	P	1.0
4	☐	125.000	116.187	437330.59	2.6730	P	0.7
5	☐	250.000	229.168	861249.04	5.2708	P	0.5
6	☐	500.000	501.019	1907937.21	11.5214	A	0.9
7	☐	1000.000	1005.966	3882299.46	23.1316	A	1.7
8	☐			9887.78	0.0569	P	1.6

y = 0.0230 * x + 0.0016
R = 0.9998
DL = 0.02236
BEC = 0.0677

Weight: <None>
Min Conc: 0

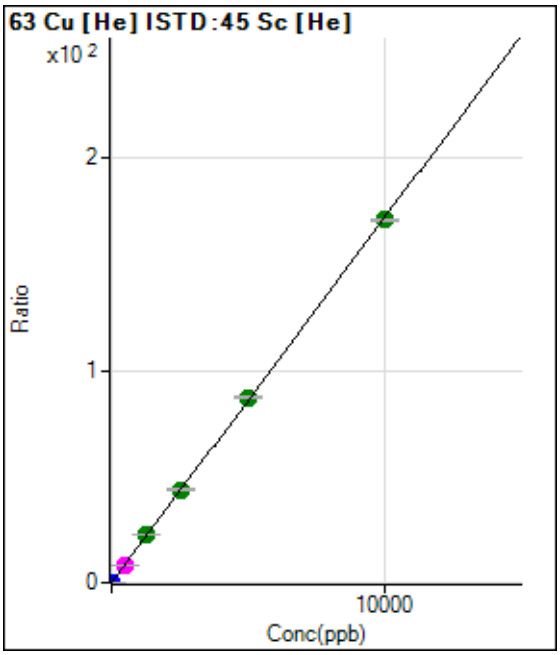
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345.56	0.0021	P	5.9
2	☐	1.000	1.126	1375.63	0.0082	P	3.4
3	☐	50.000	51.284	47401.30	0.2776	P	0.6
4	☐	125.000	159.448	140450.77	0.8584	P	1.0
5	☐	250.000	254.359	223559.34	1.3682	P	0.3
6	☐	500.000	502.458	447198.04	2.7006	P	0.6
7	☐	1000.000	993.311	895705.26	5.3367	P	1.3
8	☐			3952.79	0.0227	P	3.8

y = 0.0054 * x + 0.0021
R = 0.9994
DL = 0.06953
BEC = 0.3959

Weight: <None>
Min Conc: 0

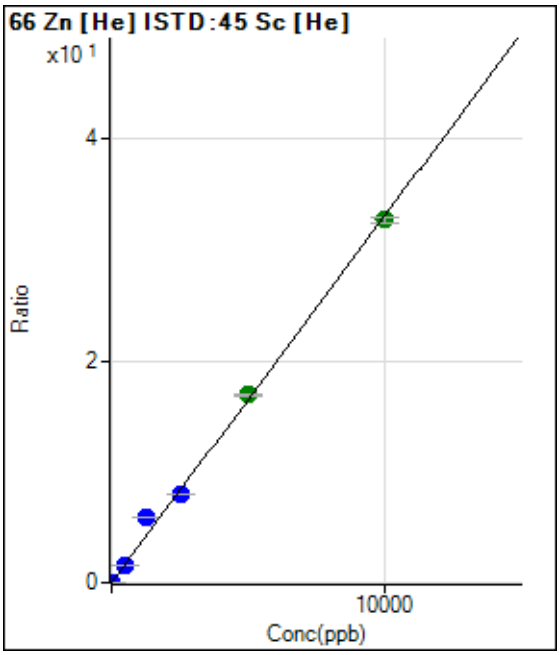


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3355.96	0.0206	P	4.1
2	☐	2.000	1.949	9116.19	0.0541	P	1.0
3	☐	500.000	485.933	1430103.16	8.3728	M	4.6
4	☐	1250.000	1301.782	3664017.38	22.3954	A	0.6
5	☐	2500.000	2550.491	7166444.69	43.8580	A	0.8
6	☐	5000.000	5075.270	14448968.26	87.2535	A	1.3
7	☐	10000.000	9943.973	28691223.18	170.9359	A	0.4
8	☐			13374.95	0.0769	P	1.0

y = 0.0172 * x + 0.0206
R = 0.9999
DL = 0.1486
BEC = 1.201

Weight: <None>
Min Conc: 0

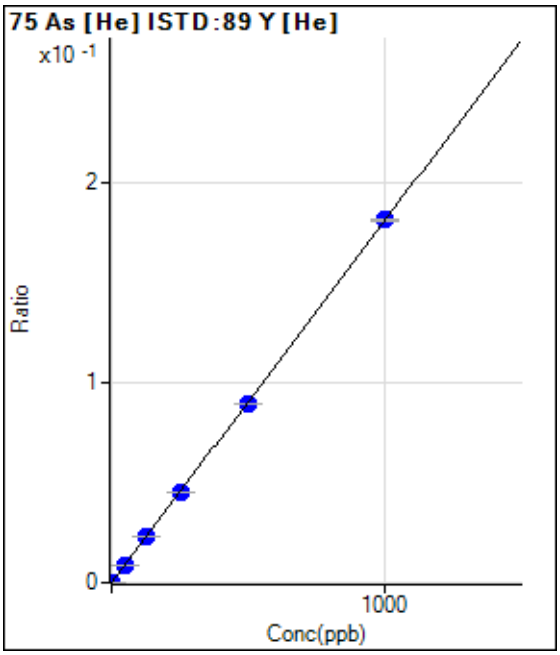
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0022	P	23.3
2	☐	5.000	4.757	3022.56	0.0180	P	4.9
3	☐	500.000	486.735	275045.52	1.6105	P	0.8
4	☐	1250.000	1762.438	953111.52	5.8256	P	0.3
5	☐	2500.000	2408.005	1300444.24	7.9586	P	0.1
6	☐	5000.000	5117.654	2800621.94	16.9117	A	1.5
7	☐	10000.000	9900.781	5490920.40	32.7158	A	1.3
8	☐			10218.03	0.0588	P	0.9

y = 0.0033 * x + 0.0022
R = 0.9984
DL = 0.4745
BEC = 0.6775

Weight: <None>
Min Conc: 0

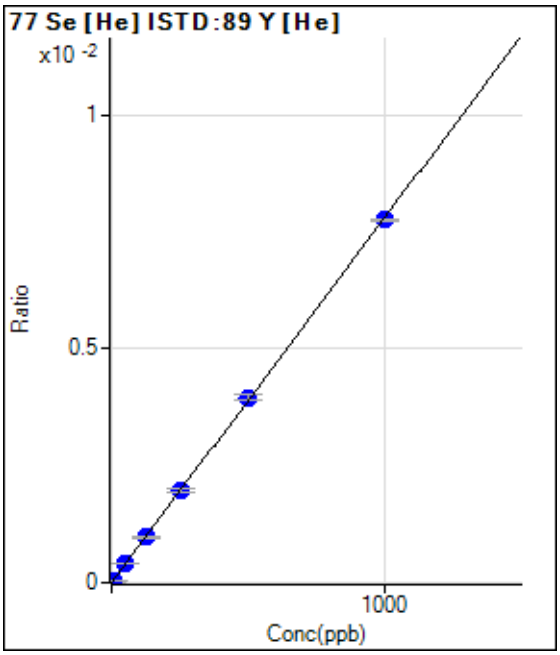


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	46.2
2	☐	1.000	1.068	370.01	0.0002	P	20.8
3	☐	50.000	50.208	16495.93	0.0091	P	0.7
4	☐	125.000	126.155	39203.92	0.0228	P	1.2
5	☐	250.000	249.384	78128.85	0.0450	P	1.1
6	☐	500.000	493.271	155568.84	0.0891	P	0.1
7	☐	1000.000	1003.364	316435.63	0.1811	P	0.8
8	☐			181.11	0.0001	P	19.5

y = 1.8053E-004 * x + 1.0903E-005
R = 1.0000
DL = 0.08373
BEC = 0.0604

Weight: <None>
Min Conc: 0

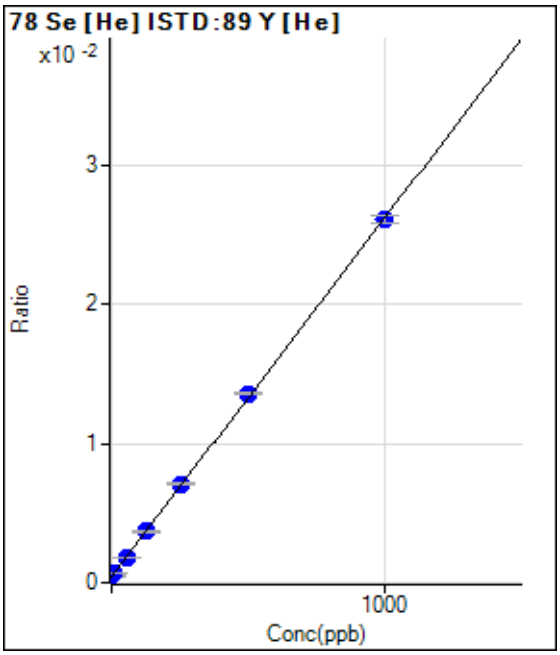
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	101.
2	☐	5.000	5.412	80.00	0.0000	P	24.7
3	☐	50.000	52.345	744.47	0.0004	P	8.3
4	☐	125.000	124.323	1669.00	0.0010	P	1.2
5	☐	250.000	252.859	3419.32	0.0020	P	2.5
6	☐	500.000	508.599	6921.68	0.0040	P	2.4
7	☐	1000.000	994.951	13537.40	0.0077	P	0.5
8	☐			4.44	0.0000	P	44.6

y = 7.7869E-006 * x + 1.9422E-006
R = 0.9999
DL = 0.7582
BEC = 0.2494

Weight: <None>
Min Conc: 0

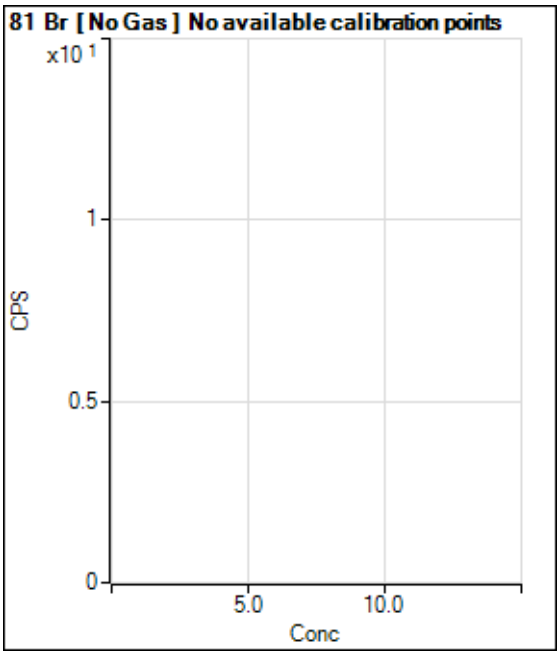


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	865.59	0.0005	P	6.5
2	☐	5.000	5.811	1173.39	0.0006	P	5.3
3	☐	50.000	49.391	3214.83	0.0018	P	2.6
4	☐	125.000	123.722	6335.87	0.0037	P	1.1
5	☐	250.000	256.180	12300.75	0.0071	P	3.0
6	☐	500.000	507.916	23705.78	0.0136	P	1.0
7	☐	1000.000	994.683	45586.72	0.0261	P	2.3
8	☐			850.03	0.0005	P	13.7

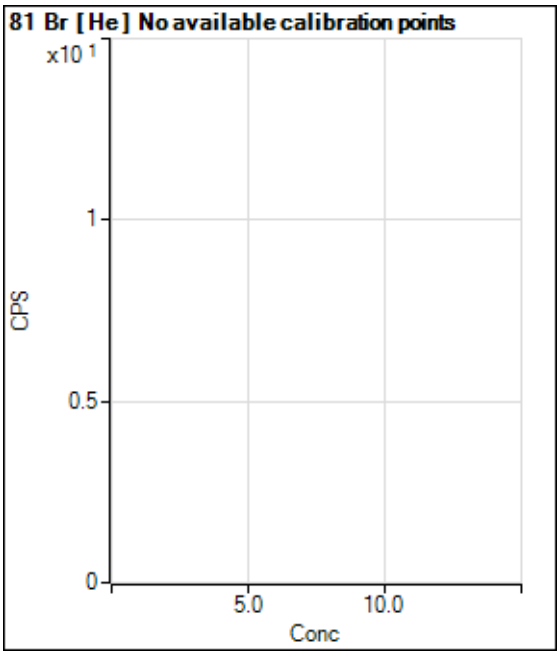
y = 2.5739E-005 * x + 4.9740E-004
R = 0.9999
DL = 3.789
BEC = 19.33

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

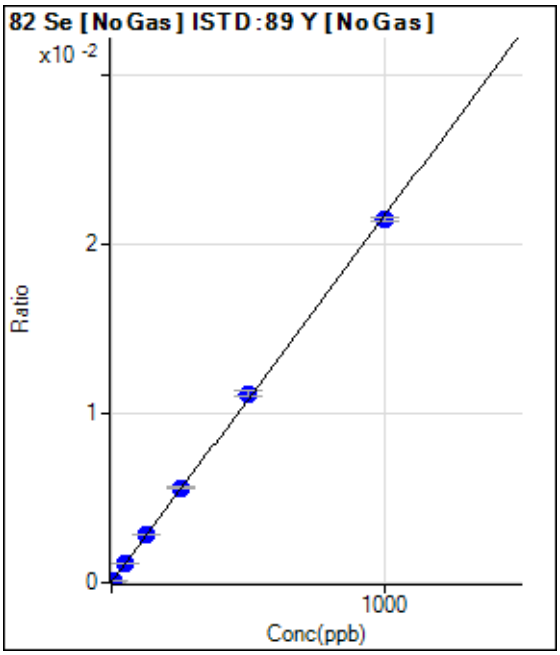


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			28064.48		P	0.8
2	☐			29752.36		P	1.7
3	☐			30140.89		P	1.0
4	☐			26511.67		P	1.5
5	☐			26048.72		P	1.0
6	☐			26333.64		P	0.2
7	☐			27044.91		P	1.3
8	☐			29134.38		P	0.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			226.67		P	14.0
2	☐			215.56		P	17.1
3	☐			194.45		P	10.3
4	☐			180.00		P	16.1
5	☐			214.45		P	12.9
6	☐			190.00		P	15.6
7	☐			207.78		P	11.3
8	☐			218.89		P	14.1

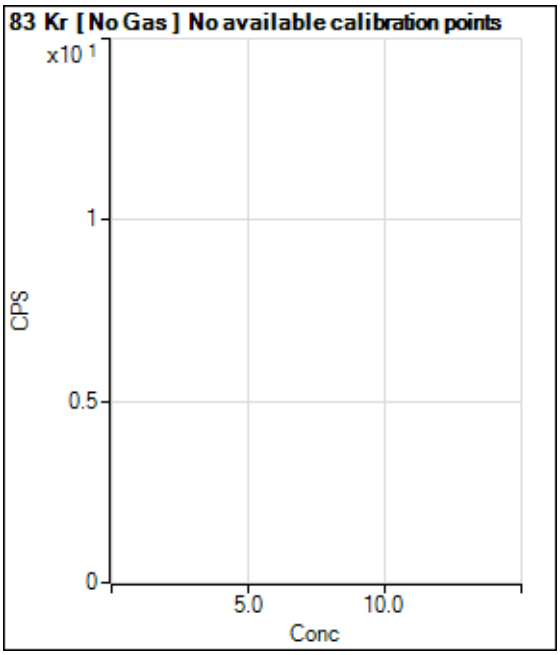
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.15	0.0000	P	41.5
2	☐	5.000	5.221	752.84	0.0001	P	5.8
3	☐	50.000	52.629	6802.29	0.0012	P	1.6
4	☐	125.000	130.461	16174.43	0.0028	P	1.7
5	☐	250.000	258.618	31474.90	0.0056	P	0.7
6	☐	500.000	515.718	62340.99	0.0112	P	2.6
7	☐	1000.000	989.171	123848.14	0.0214	P	1.1
8	☐			367.37	0.0001	P	16.3

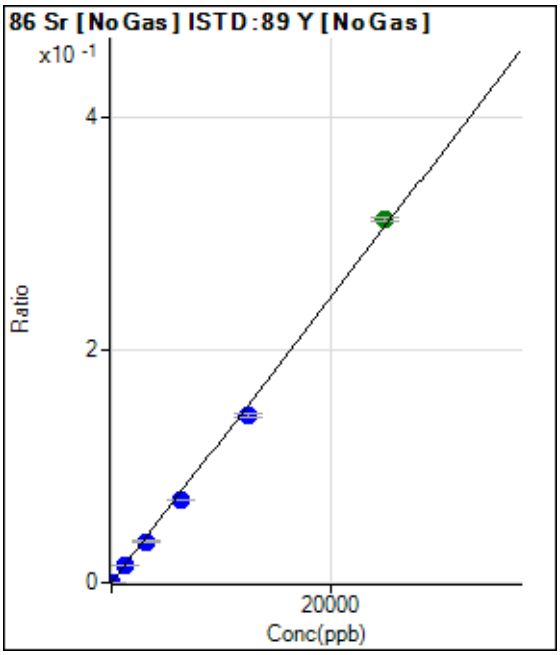
y = 2.1633E-005 * x + 1.6613E-005
R = 0.9998
DL = 0.955
BEC = 0.768

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			392.23		P	11.0
2	☐			382.23		P	14.4
3	☐			361.12		P	13.4
4	☐			344.45		P	5.6
5	☐			356.68		P	4.3
6	☐			346.68		P	12.7
7	☐			388.90		P	5.2
8	☐			417.79		P	9.2

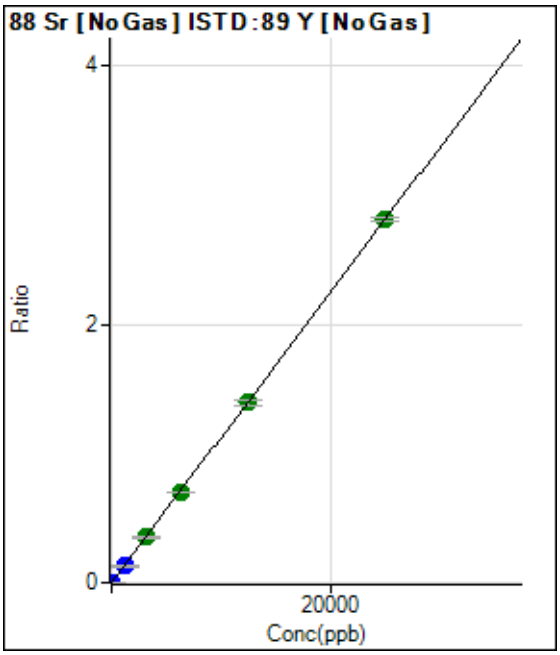
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	618.91	0.0001	P	3.8
2	☐	1.000	25.278	2423.56	0.0004	P	1.9
3	☐	1250.000	1172.773	85157.70	0.0145	P	0.3
4	☐	3125.000	2890.529	202174.83	0.0355	P	1.5
5	☐	6250.000	5842.166	401656.52	0.0716	P	1.1
6	☐	12500.000	11734.303	801968.08	0.1437	P	1.9
7	☐	25000.000	25517.976	1806897.27	0.3124	A	0.9
8	☐			6142.44	0.0010	P	4.9

y = 1.2239E-005 * x + 1.0757E-004
R = 0.9992
DL = 1.012
BEC = 8.789

Weight: <None>
Min Conc: 0

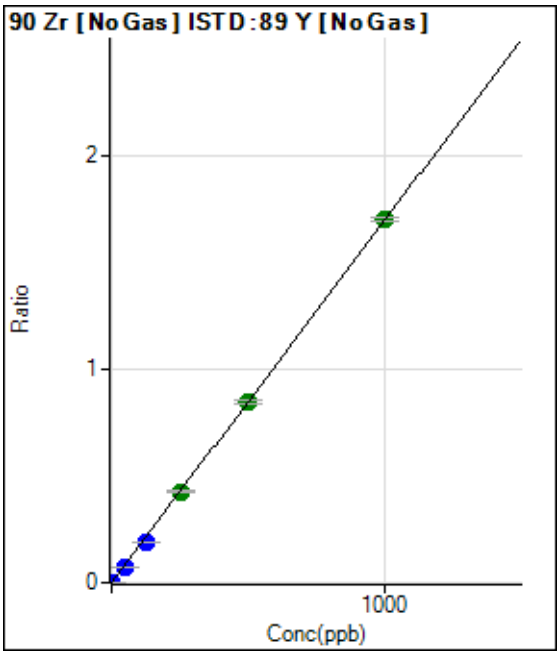


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	21.9
2	☐	1.000	25.104	16502.67	0.0028	P	0.3
3	☐	1250.000	1130.643	747186.33	0.1269	P	1.0
4	☐	3125.000	3121.081	1995294.54	0.3502	A	2.3
5	☐	6250.000	6241.369	3927994.84	0.7003	A	1.9
6	☐	12500.000	12450.964	7794760.79	1.3970	A	3.0
7	☐	25000.000	25033.133	16244580.17	2.8088	A	1.1
8	☐			50984.75	0.0085	P	5.6

y = 1.1220E-004 * x + 2.1937E-005
R = 1.0000
DL = 0.1283
BEC = 0.1955

Weight: <None>
Min Conc: 0

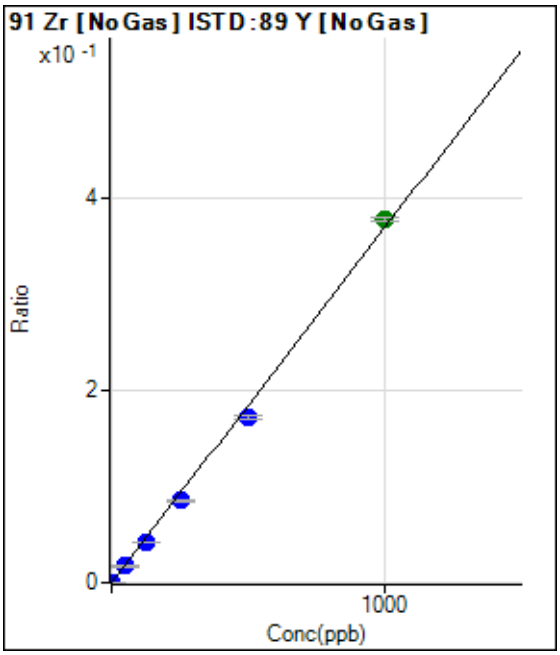
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	305.56	0.0001	P	9.9
2	☐	1.000	0.944	9638.81	0.0017	P	2.4
3	☐	50.000	44.849	449135.51	0.0763	P	0.8
4	☐	125.000	111.008	1075162.38	0.1887	P	1.2
5	☐	250.000	250.008	2383248.91	0.4249	A	2.2
6	☐	500.000	500.310	4744400.21	0.8503	A	2.4
7	☐	1000.000	1001.850	9846181.94	1.7026	A	1.2
8	☐			4549.64	0.0008	P	7.2

y = 0.0017 * x + 5.3158E-005
R = 0.9999
DL = 0.00927
BEC = 0.03128

Weight: <None>
Min Conc: 0

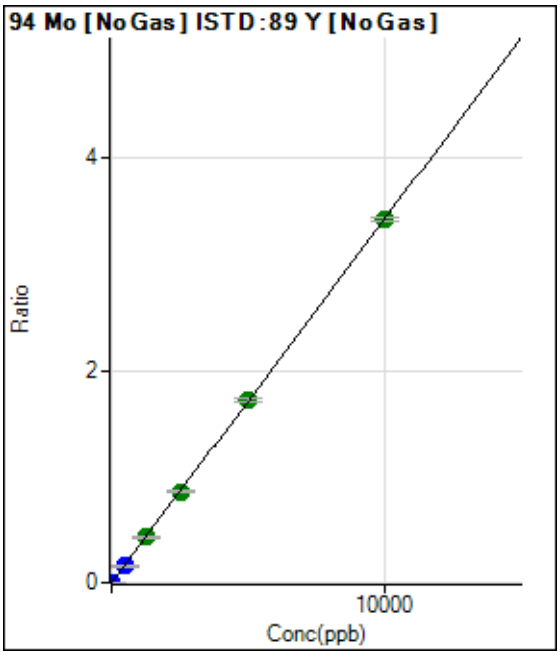


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0000	P	21.2
2	☐	1.000	0.981	2161.29	0.0004	P	8.5
3	☐	50.000	46.162	100371.25	0.0170	P	1.0
4	☐	125.000	113.811	239356.39	0.0420	P	1.0
5	☐	250.000	230.990	478141.27	0.0852	P	1.6
6	☐	500.000	467.071	961804.86	0.1724	P	1.8
7	☐	1000.000	1022.807	2182763.20	0.3774	A	1.0
8	☐			972.26	0.0002	P	2.7

y = 3.6901E-004 * x + 9.8552E-006
R = 0.9990
DL = 0.01695
BEC = 0.02671

Weight: <None>
Min Conc: 0

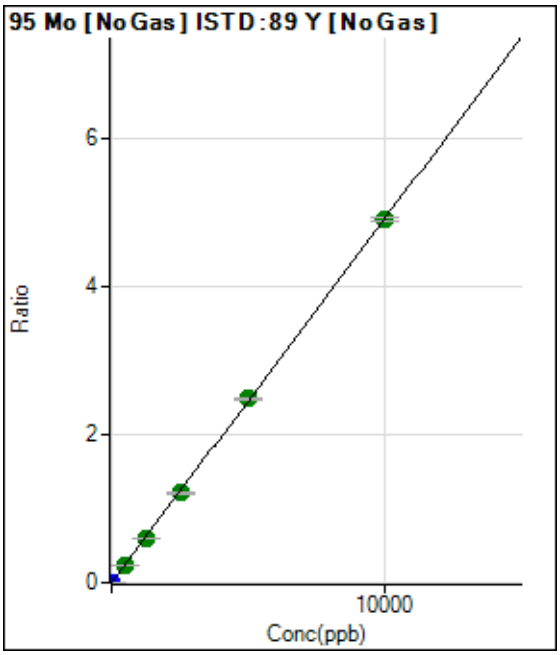
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.12	0.0000	P	6.8
2	☐	5.000	5.685	11438.97	0.0020	P	1.0
3	☐	500.000	451.116	908923.45	0.1543	P	1.1
4	☐	1250.000	1246.126	2428929.56	0.4263	A	2.2
5	☐	2500.000	2508.793	4813898.54	0.8583	A	1.9
6	☐	5000.000	5037.245	9616141.73	1.7232	A	1.8
7	☐	10000.000	9982.107	19748671.65	3.4149	A	1.1
8	☐			4354.02	0.0007	P	5.4

y = 3.4210E-004 * x + 2.2791E-005
R = 1.0000
DL = 0.01356
BEC = 0.06662

Weight: <None>
Min Conc: 0

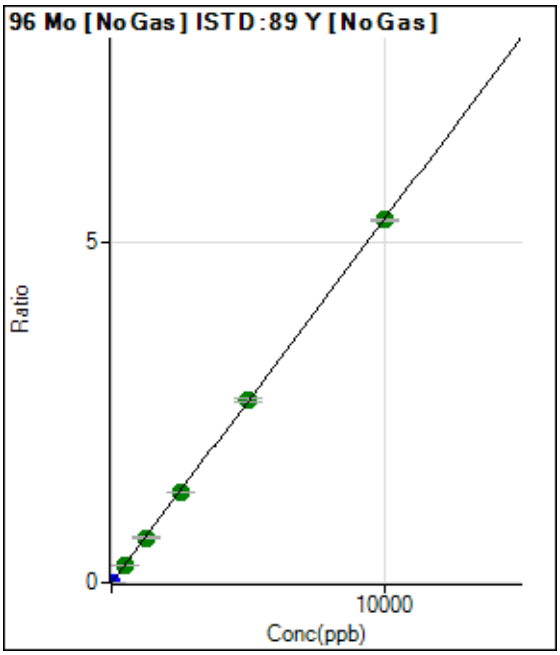


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0000	P	19.2
2	☐	5.000	4.834	13852.22	0.0024	P	0.5
3	☐	500.000	492.790	1423266.02	0.2417	A	0.8
4	☐	1250.000	1227.464	3430219.36	0.6020	A	0.5
5	☐	2500.000	2474.054	6805663.37	1.2133	A	1.5
6	☐	5000.000	5059.840	13847506.46	2.4815	A	1.5
7	☐	10000.000	9979.744	28304697.91	4.8943	A	1.1
8	☐			3741.63	0.0006	P	8.2

y = 4.9042E-004 * x + 1.1780E-005
R = 1.0000
DL = 0.0138
BEC = 0.02402

Weight: <None>
Min Conc: 0

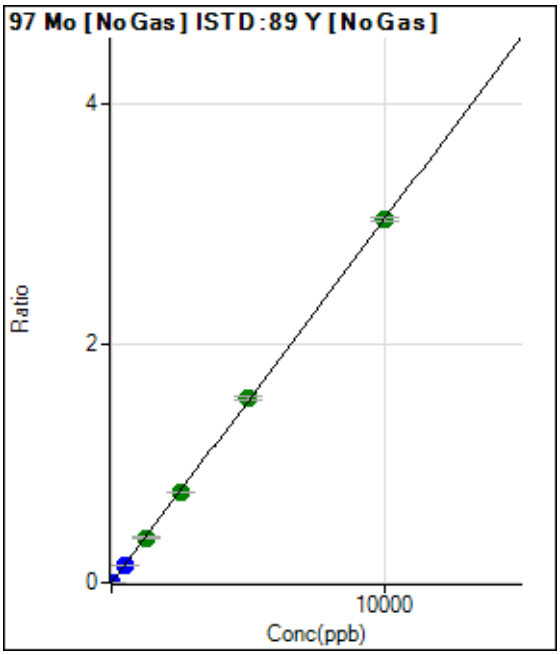
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0000	P	10.4
2	☐	5.000	4.901	15422.69	0.0027	P	3.2
3	☐	500.000	493.055	1554107.95	0.2639	A	1.5
4	☐	1250.000	1238.326	3776428.52	0.6628	A	1.0
5	☐	2500.000	2498.105	7499479.75	1.3370	A	0.8
6	☐	5000.000	5042.056	15057189.08	2.6985	A	2.3
7	☐	10000.000	9981.252	30894122.60	5.3419	A	0.7
8	☐			15975.51	0.0026	P	4.7

y = 5.3519E-004 * x + 2.9390E-005
R = 1.0000
DL = 0.01715
BEC = 0.05491

Weight: <None>
Min Conc: 0

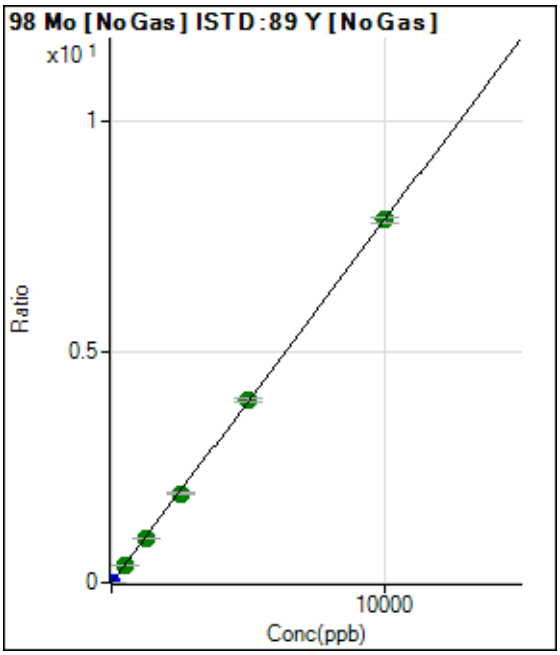


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0000	P	29.9
2	☐	5.000	4.819	8554.79	0.0015	P	1.4
3	☐	500.000	452.539	809876.52	0.1375	P	0.9
4	☐	1250.000	1240.941	2148997.19	0.3771	A	0.7
5	☐	2500.000	2478.919	4225493.62	0.7533	A	0.9
6	☐	5000.000	5061.476	8582463.76	1.5381	A	2.3
7	☐	10000.000	9978.038	17535877.24	3.0322	A	1.0
8	☐			2297.98	0.0004	P	9.5

y = 3.0389E-004 * x + 7.2943E-006
R = 1.0000
DL = 0.02153
BEC = 0.024

Weight: <None>
Min Conc: 0

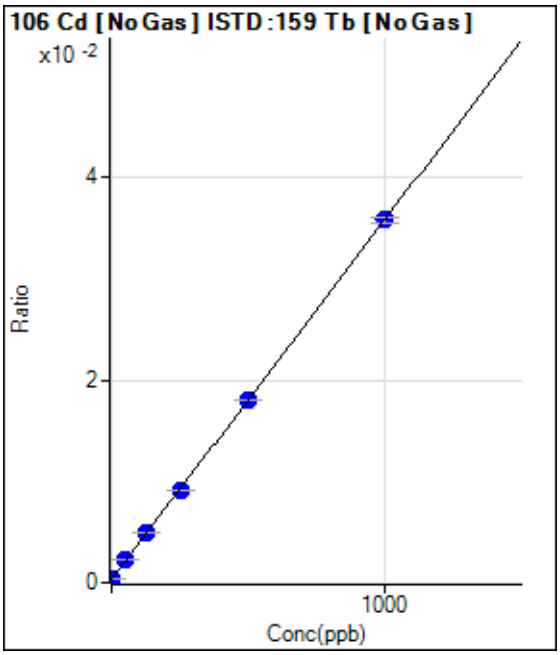
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	21.8
2	☐	5.000	4.828	22168.04	0.0038	P	2.5
3	☐	500.000	498.070	2305772.35	0.3916	A	0.8
4	☐	1250.000	1219.876	5464189.92	0.9590	A	0.8
5	☐	2500.000	2461.704	10854229.70	1.9352	A	1.6
6	☐	5000.000	5025.423	22043061.06	3.9505	A	2.4
7	☐	10000.000	10000.725	45465512.66	7.8616	A	1.8
8	☐			4908.65	0.0008	P	4.1

y = 7.8610E-004 * x + 1.8484E-005
R = 1.0000
DL = 0.01535
BEC = 0.02351

Weight: <None>
Min Conc: 0

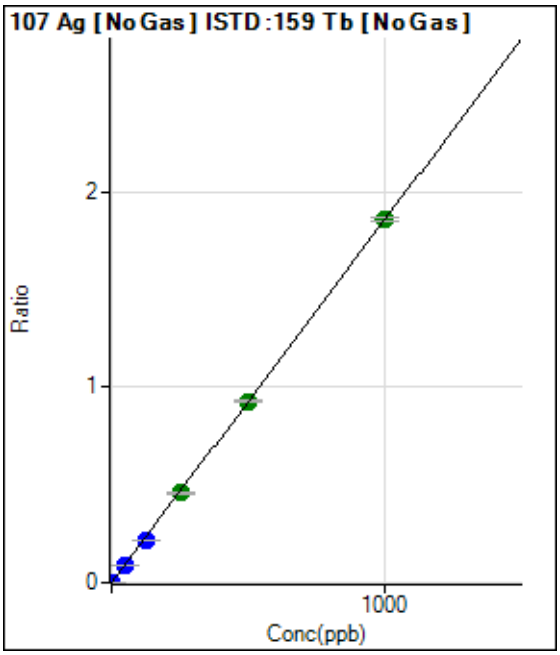


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1301.18	0.0003	P	4.6
2	☐	1.000	1.257	1480.09	0.0004	P	1.9
3	☐	50.000	52.557	8768.30	0.0022	P	1.0
4	☐	125.000	127.582	18988.08	0.0049	P	0.1
5	☐	250.000	247.130	35909.96	0.0091	P	0.4
6	☐	500.000	498.885	70995.83	0.0180	P	0.7
7	☐	1000.000	1000.824	141688.25	0.0358	P	1.6
8	☐			1487.87	0.0004	P	6.5

y = 3.5404E-005 * x + 3.3854E-004
R = 1.0000
DL = 1.324
BEC = 9.562

Weight: <None>
Min Conc: 0

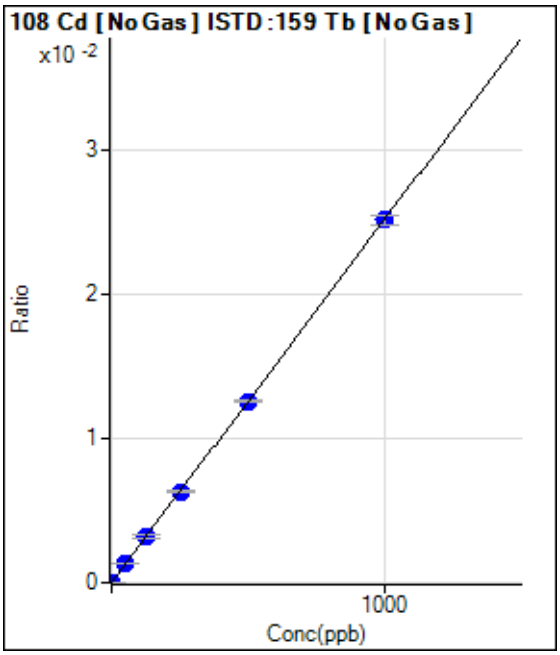
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	28.2
2	☐	1.000	1.028	7415.29	0.0019	P	1.7
3	☐	50.000	47.679	352657.06	0.0885	P	0.4
4	☐	125.000	116.876	847633.23	0.2168	P	2.3
5	☐	250.000	248.764	1823133.43	0.4614	A	1.7
6	☐	500.000	501.267	3667207.58	0.9298	A	1.4
7	☐	1000.000	1000.807	7353141.00	1.8564	A	1.2
8	☐			413.35	0.0001	P	17.2

y = 0.0019 * x + 1.2195E-005
R = 1.0000
DL = 0.005557
BEC = 0.006575

Weight: <None>
Min Conc: 0

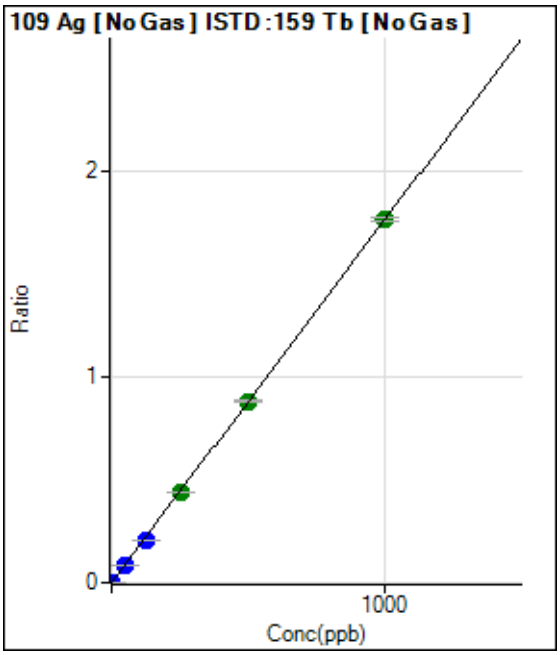


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	49.7
2	☐	1.000	1.144	118.89	0.0000	P	6.9
3	☐	50.000	52.766	5298.81	0.0013	P	3.5
4	☐	125.000	127.651	12555.55	0.0032	P	6.4
5	☐	250.000	250.843	24932.66	0.0063	P	1.2
6	☐	500.000	499.951	49594.57	0.0126	P	1.0
7	☐	1000.000	999.344	99544.34	0.0251	P	2.5
8	☐			34.45	0.0000	P	9.8

y = 2.5147E-005 * x + 2.0250E-006
R = 1.0000
DL = 0.12
BEC = 0.08052

Weight: <None>
Min Conc: 0

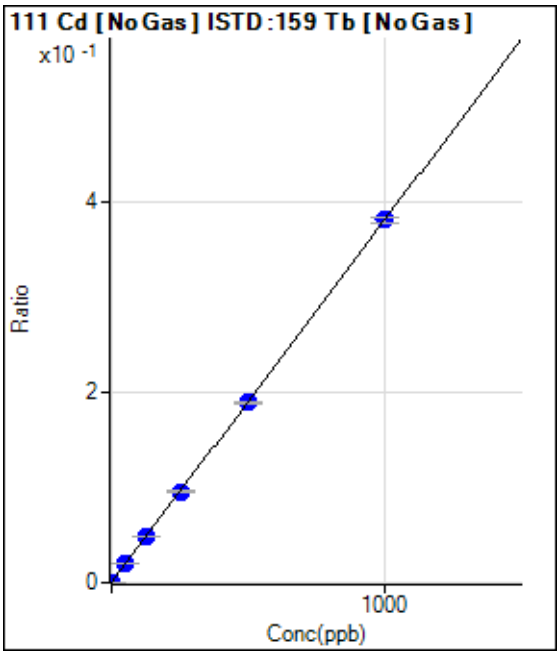
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.78	0.0000	P	43.2
2	☐	1.000	1.028	7026.21	0.0018	P	2.4
3	☐	50.000	47.455	334000.01	0.0838	P	0.8
4	☐	125.000	115.928	800133.12	0.2046	P	1.9
5	☐	250.000	250.253	1745619.83	0.4418	A	1.0
6	☐	500.000	500.698	3485851.58	0.8838	A	1.1
7	☐	1000.000	1000.849	6998579.20	1.7667	A	1.0
8	☐			364.45	0.0001	P	11.6

y = 0.0018 * x + 4.6250E-006
R = 1.0000
DL = 0.003396
BEC = 0.00262

Weight: <None>
Min Conc: 0

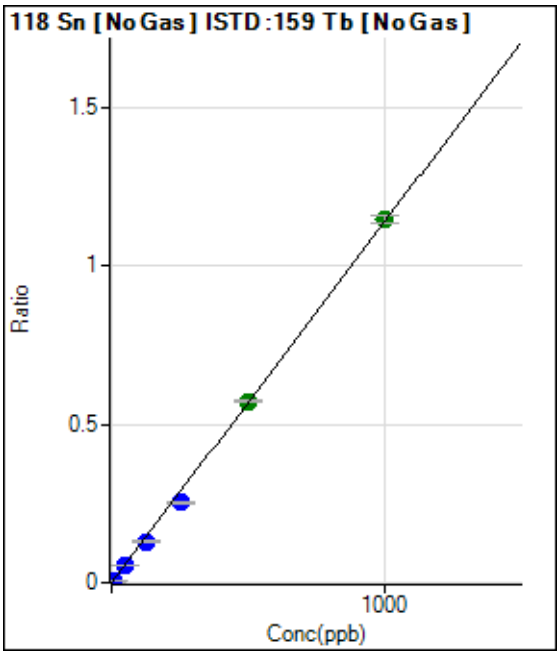


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1234.23	0.0003	P	4.0
2	☐	1.000	1.197	3000.91	0.0008	P	1.5
3	☐	50.000	51.044	78745.62	0.0198	P	0.6
4	☐	125.000	127.060	190389.21	0.0487	P	0.2
5	☐	250.000	249.656	376720.27	0.0953	P	1.8
6	☐	500.000	496.895	747225.96	0.1895	P	0.5
7	☐	1000.000	1001.328	1510981.07	0.3815	P	1.3
8	☐			1627.14	0.0004	P	4.8

y = 3.8064E-004 * x + 3.2108E-004
R = 1.0000
DL = 0.1002
BEC = 0.8435

Weight: <None>
Min Conc: 0

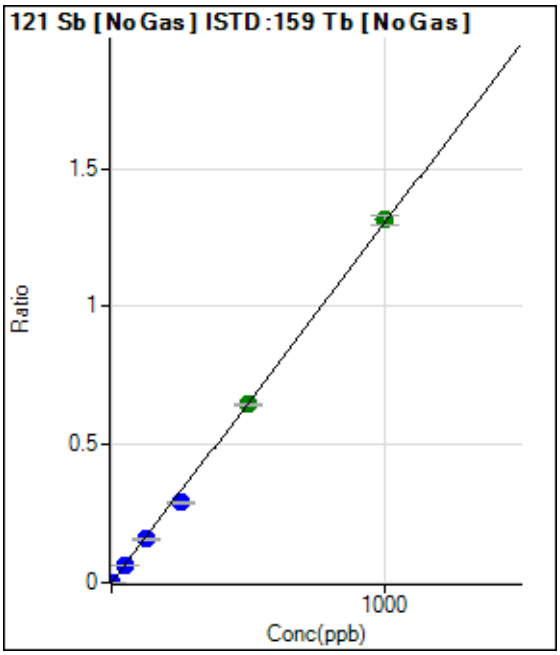
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	795.59	0.0002	P	10.3
2	☐	5.000	5.135	23386.81	0.0061	P	1.2
3	☐	50.000	45.944	209391.41	0.0525	P	0.5
4	☐	125.000	113.947	508090.20	0.1299	P	1.5
5	☐	250.000	222.935	1003690.30	0.2540	P	1.6
6	☐	500.000	503.719	2262778.63	0.5737	A	1.1
7	☐	1000.000	1006.490	4539642.89	1.1462	A	2.3
8	☐			1893.48	0.0005	P	5.3

y = 0.0011 * x + 2.0670E-004
R = 0.9996
DL = 0.05587
BEC = 0.1815

Weight: <None>
Min Conc: 0

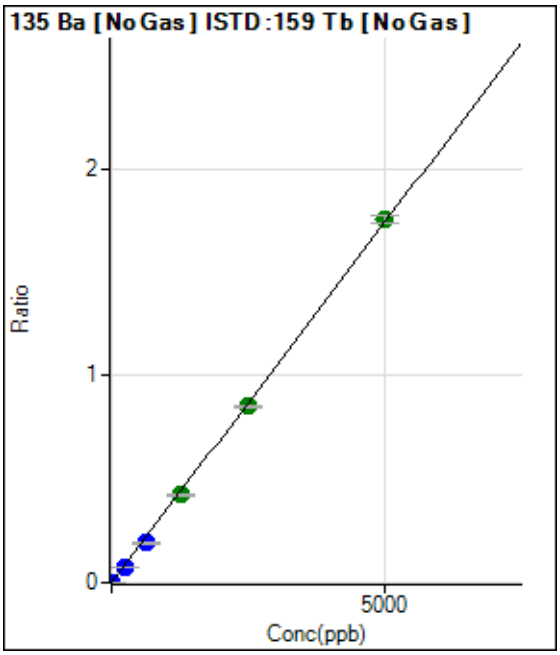


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	2.4
2	☐	2.000	1.988	10029.12	0.0026	P	0.7
3	☐	50.000	46.260	240066.91	0.0602	P	0.4
4	☐	125.000	120.543	613399.86	0.1569	P	1.9
5	☐	250.000	223.377	1148608.75	0.2907	P	1.5
6	☐	500.000	496.165	2546726.84	0.6457	A	0.5
7	☐	1000.000	1009.318	5202835.62	1.3135	A	2.3
8	☐			1616.78	0.0004	P	10.8

y = 0.0013 * x + 8.6750E-006
R = 0.9996
DL = 0.0004785
BEC = 0.006666

Weight: <None>
Min Conc: 0

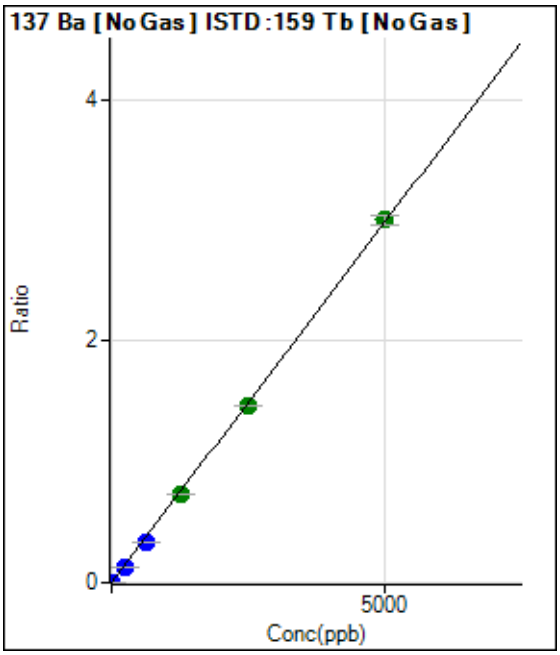
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.22	0.0000	P	32.1
2	☐	10.000	9.673	13032.74	0.0034	P	2.7
3	☐	250.000	223.804	310049.93	0.0778	P	0.6
4	☐	625.000	550.642	748057.84	0.1913	P	1.5
5	☐	1250.000	1217.193	1670701.54	0.4229	A	2.0
6	☐	2500.000	2455.176	3364110.23	0.8529	A	1.2
7	☐	5000.000	5041.219	6936852.67	1.7513	A	2.2
8	☐			3065.91	0.0008	P	4.2

y = 3.4740E-004 * x + 1.3576E-005
R = 0.9998
DL = 0.0376
BEC = 0.03908

Weight: <None>
Min Conc: 0

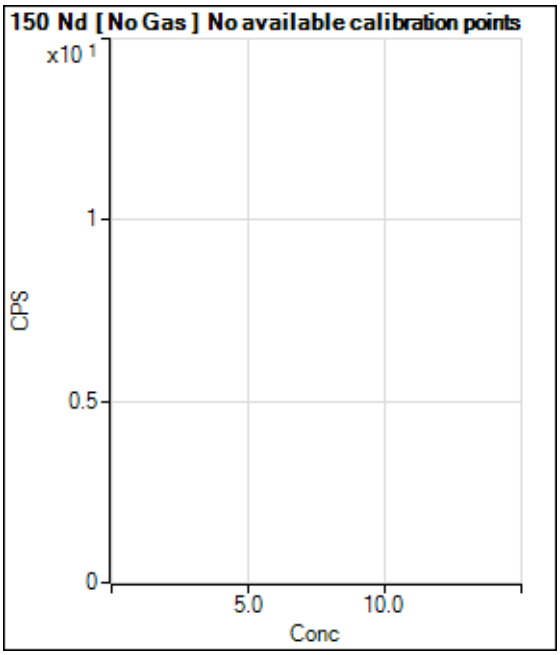


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0000	P	15.1
2	☐	10.000	9.821	22734.91	0.0059	P	0.2
3	☐	250.000	224.583	534344.89	0.1340	P	0.4
4	☐	625.000	554.273	1293100.85	0.3307	P	1.9
5	☐	1250.000	1222.940	2883070.27	0.7297	A	1.0
6	☐	2500.000	2460.724	5790473.80	1.4682	A	0.1
7	☐	5000.000	5036.515	11901524.27	3.0050	A	2.5
8	☐			5362.17	0.0013	P	6.9

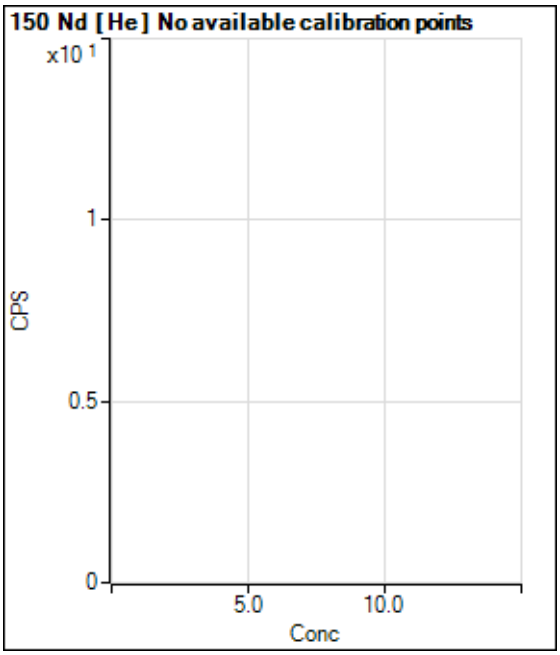
y = 5.9663E-004 * x + 2.5788E-005
R = 0.9999
DL = 0.01964
BEC = 0.04322

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

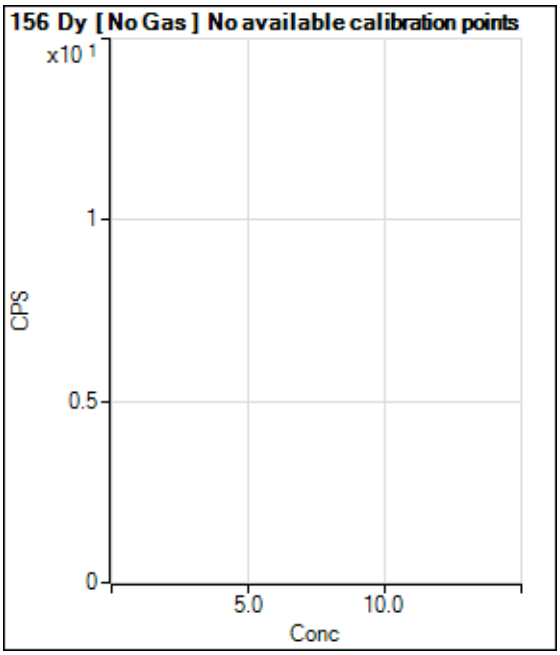


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	173.
2	☐			10.00		P	88.2
3	☐			23.33		P	14.3
4	☐			43.33		P	20.4
5	☐			62.22		P	16.4
6	☐			133.34		P	17.5
7	☐			273.34		P	16.8
8	☐			95.55		P	7.3

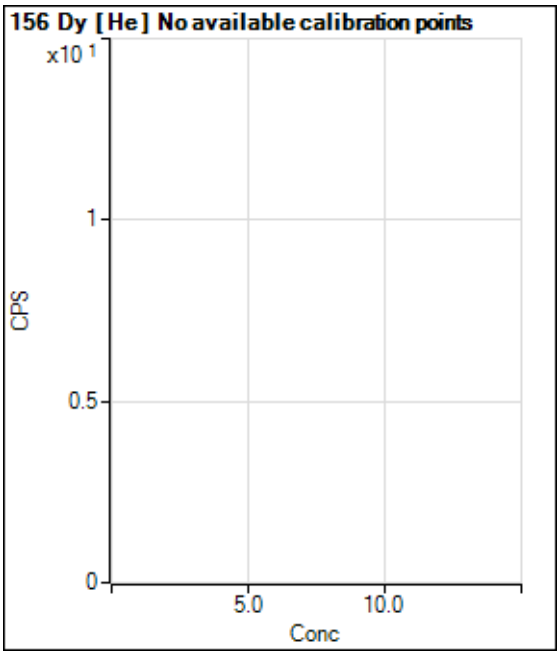


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			11.11		P	69.3
4	☐			12.22		P	15.7
5	☐			18.89		P	27.0
6	☐			48.89		P	31.5
7	☐			77.78		P	6.5
8	☐			70.00		P	37.2

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

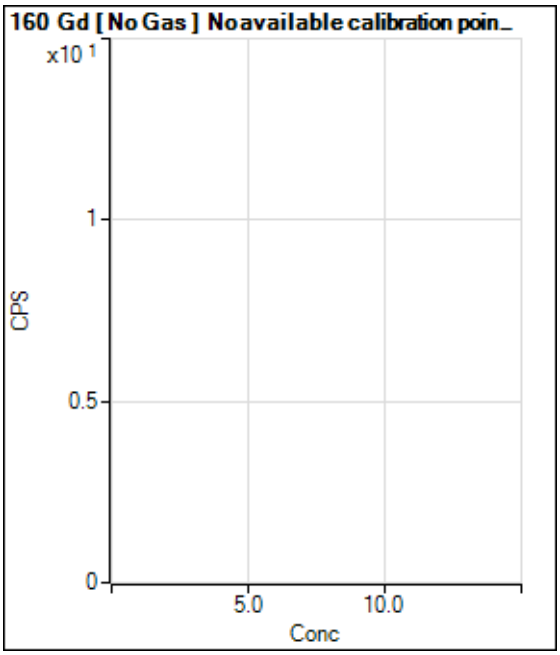


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.
2	☐			3.33		P	0.0
3	☐			11.11		P	86.6
4	☐			24.44		P	34.3
5	☐			26.67		P	33.1
6	☐			50.00		P	17.6
7	☐			84.44		P	11.4
8	☐			181.12		P	8.7

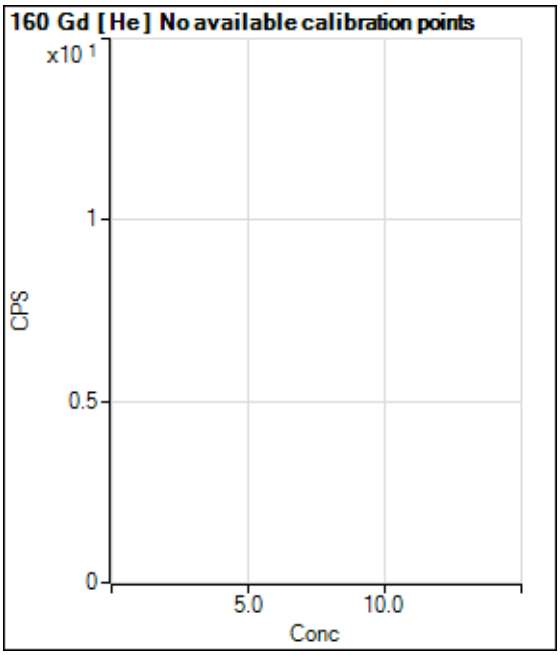


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.
2	☐			5.55		P	124.
3	☐			7.78		P	24.7
4	☐			50.00		P	24.0
5	☐			72.22		P	38.4
6	☐			180.00		P	8.1
7	☐			364.45		P	8.7
8	☐			188.89		P	15.2

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

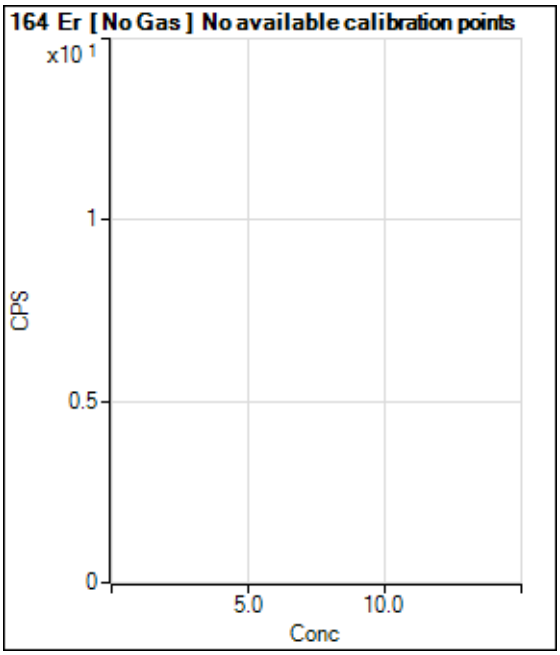


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			14.44		P	58.1
2	☐			18.89		P	53.9
3	☐			16.67		P	40.0
4	☐			22.22		P	31.2
5	☐			23.33		P	14.3
6	☐			26.67		P	25.0
7	☐			61.11		P	13.7
8	☐			140.00		P	10.9

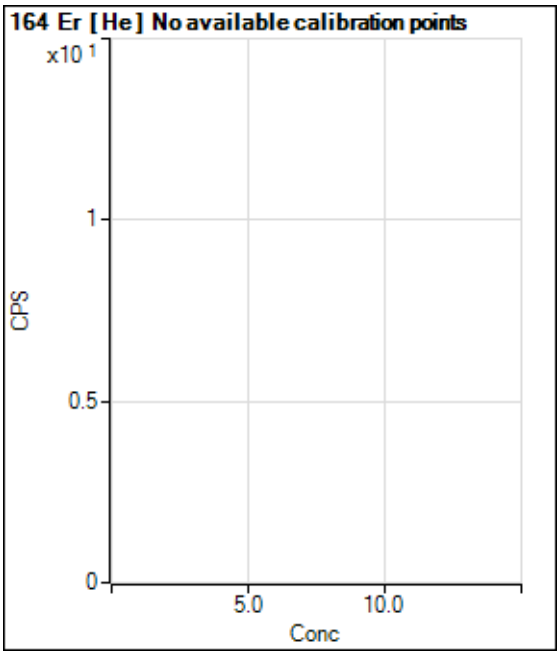


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			144.45		P	7.0
2	☐			153.33		P	21.0
3	☐			173.34		P	13.9
4	☐			140.00		P	18.6
5	☐			155.56		P	25.7
6	☐			175.56		P	14.0
7	☐			181.11		P	8.3
8	☐			275.56		P	19.3

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

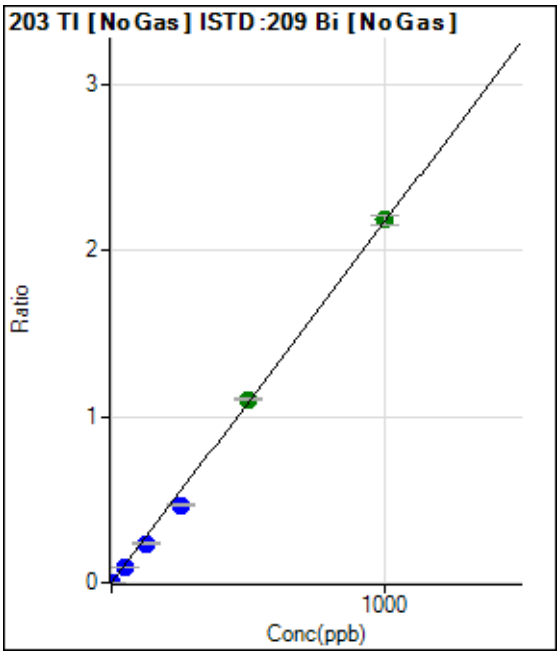


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			16.67		P	20.0
2	☐			23.33		P	14.3
3	☐			37.78		P	18.4
4	☐			38.89		P	52.4
5	☐			30.00		P	57.7
6	☐			61.11		P	20.6
7	☐			80.00		P	29.2
8	☐			204.45		P	9.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			14.44		P	53.3
2	☐			16.67		P	80.0
3	☐			25.55		P	52.7
4	☐			34.45		P	39.1
5	☐			22.22		P	48.2
6	☐			41.11		P	18.7
7	☐			74.44		P	2.6
8	☐			172.22		P	6.2

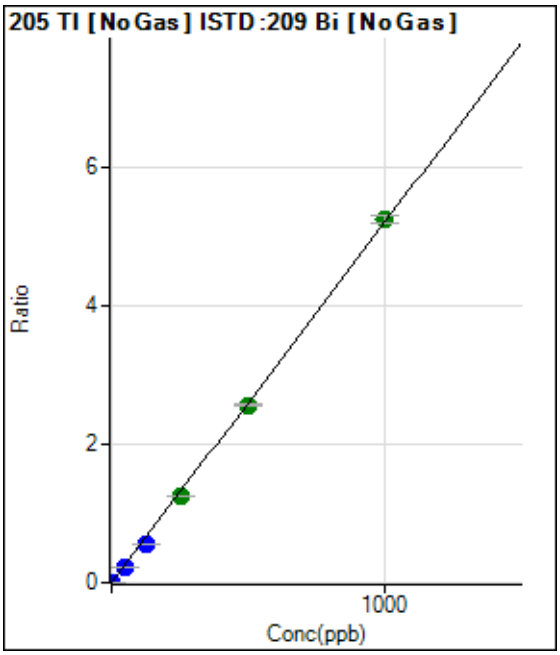
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	321.12	0.0001	P	3.9
2	☐	1.000	0.916	4835.35	0.0021	P	2.4
3	☐	50.000	42.715	218725.31	0.0929	P	1.5
4	☐	125.000	108.750	534483.24	0.2362	P	1.1
5	☐	250.000	215.592	1080357.47	0.4682	P	1.4
6	☐	500.000	509.020	2556061.31	1.1052	A	1.2
7	☐	1000.000	1006.487	5066957.77	2.1851	A	3.0
8	☐			500.01	0.0002	P	3.2

y = 0.0022 * x + 1.4159E-004
R = 0.9993
DL = 0.00758
BEC = 0.06522

Weight: <None>
Min Conc: 0

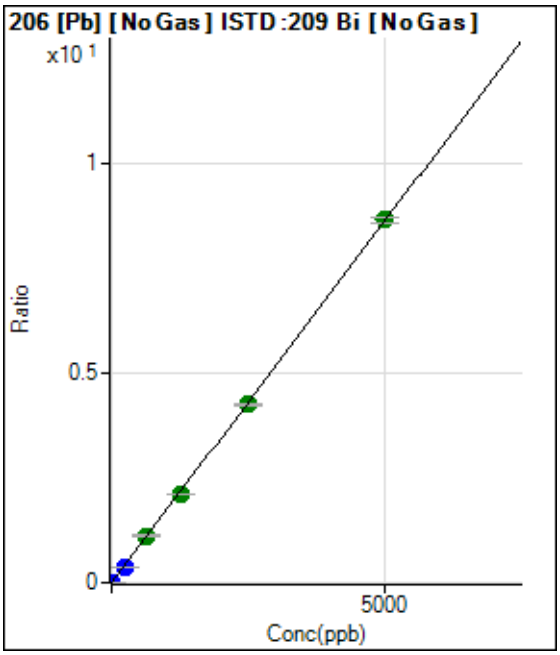


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	771.14	0.0003	P	9.4
2	☐	1.000	0.918	11625.03	0.0051	P	1.8
3	☐	50.000	42.427	521340.16	0.2214	P	1.3
4	☐	125.000	107.862	1272081.09	0.5622	P	1.2
5	☐	250.000	240.895	2896895.96	1.2552	A	0.9
6	☐	500.000	493.323	5944689.01	2.5702	A	0.4
7	☐	1000.000	1008.136	12179492.87	5.2520	A	2.2
8	☐			1184.51	0.0006	P	9.9

y = 0.0052 * x + 3.3966E-004
R = 0.9998
DL = 0.0184
BEC = 0.0652

Weight: <None>
Min Conc: 0

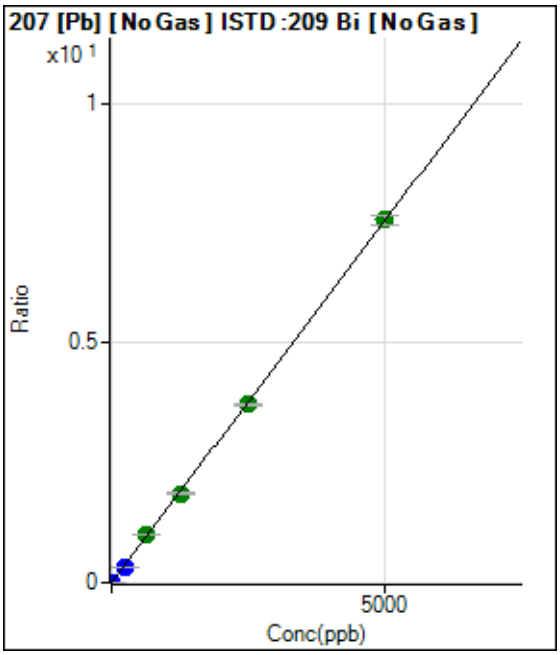
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	895.60	0.0004	P	6.7
2	☐	1.000	0.928	4533.03	0.0020	P	4.5
3	☐	250.000	213.315	867697.19	0.3684	P	1.6
4	☐	625.000	650.887	2541742.67	1.1234	A	0.9
5	☐	1250.000	1227.261	4887169.44	2.1178	A	1.4
6	☐	2500.000	2466.462	9843725.27	4.2558	A	1.6
7	☐	5000.000	5021.052	20091854.56	8.6632	A	1.5
8	☐			8546.08	0.0040	P	4.8

y = 0.0017 * x + 3.9517E-004
R = 0.9999
DL = 0.04618
BEC = 0.229

Weight: <None>
Min Conc: 0

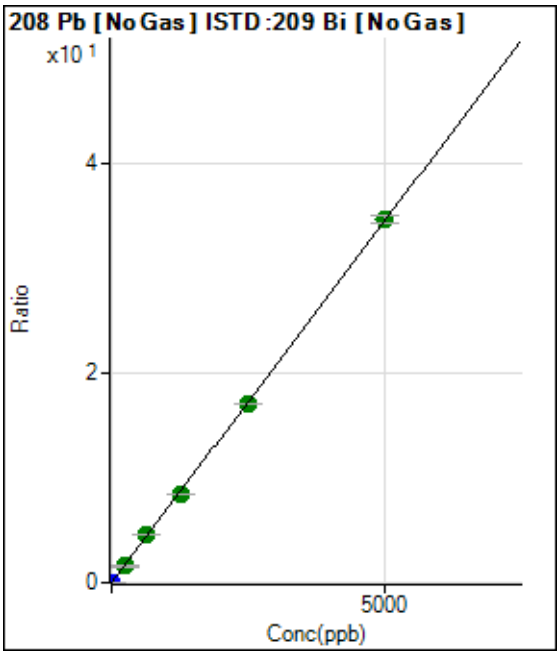


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	706.69	0.0003	P	4.5
2	☐	1.000	0.943	3933.95	0.0017	P	3.7
3	☐	250.000	211.147	750439.26	0.3186	P	1.5
4	☐	625.000	664.997	2269055.28	1.0029	A	1.0
5	☐	1250.000	1232.641	4288652.92	1.8586	A	2.4
6	☐	2500.000	2468.303	8607395.50	3.7215	A	1.2
7	☐	5000.000	5017.132	17539419.32	7.5641	A	3.0
8	☐			7474.36	0.0035	P	4.9

y = 0.0015 * x + 3.1154E-004
R = 0.9999
DL = 0.02777
BEC = 0.2066

Weight: <None>
Min Conc: 0

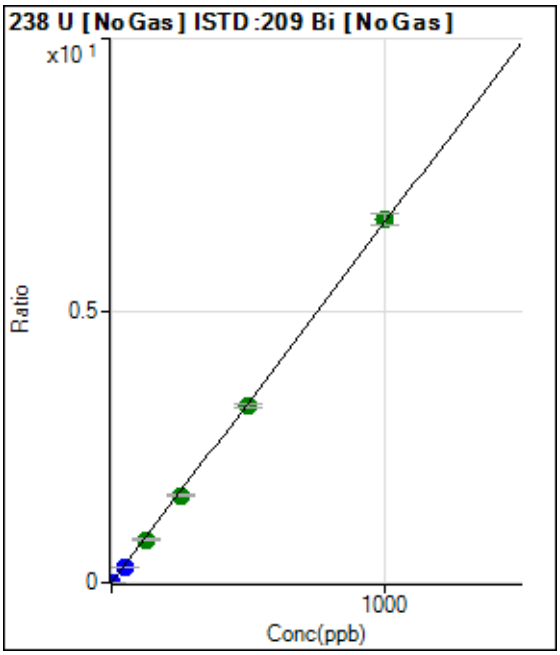
Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3407.98	0.0015	P	5.6
2	☐	1.000	0.932	18022.65	0.0079	P	2.1
3	☐	250.000	226.791	3689343.85	1.5664	A	1.1
4	☐	625.000	658.805	10289209.67	4.5475	A	0.8
5	☐	1250.000	1223.380	19483332.14	8.4432	A	1.5
6	☐	2500.000	2471.825	39453353.10	17.0579	A	0.7
7	☐	5000.000	5017.677	80295384.64	34.6250	A	2.2
8	☐			34199.39	0.0159	P	5.1

y = 0.0069 * x + 0.0015
R = 0.9999
DL = 0.03656
BEC = 0.2179

Weight: <None>
Min Conc: 0

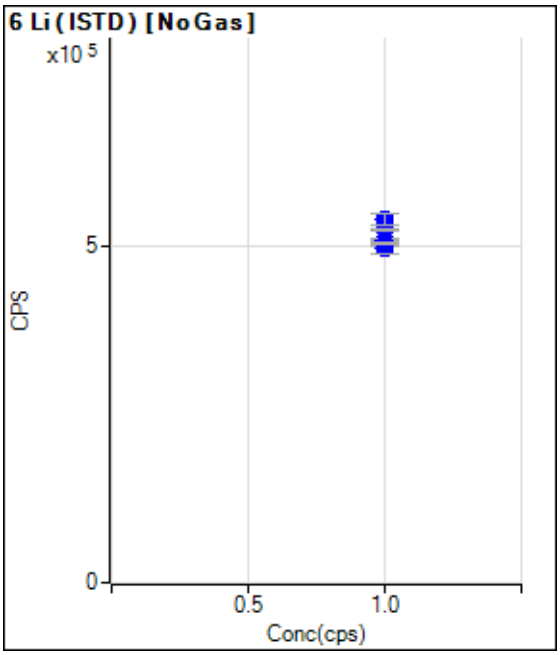


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	293.34	0.0001	P	11.4
2	☐	1.000	0.913	14025.28	0.0062	P	1.6
3	☐	50.000	41.042	640342.03	0.2719	P	1.5
4	☐	125.000	120.009	1798411.38	0.7948	A	0.7
5	☐	250.000	241.551	3691025.78	1.5996	A	2.1
6	☐	500.000	490.157	7506878.92	3.2457	A	1.9
7	☐	1000.000	1008.106	15478322.69	6.6753	A	3.1
8	☐			812.26	0.0004	P	6.6

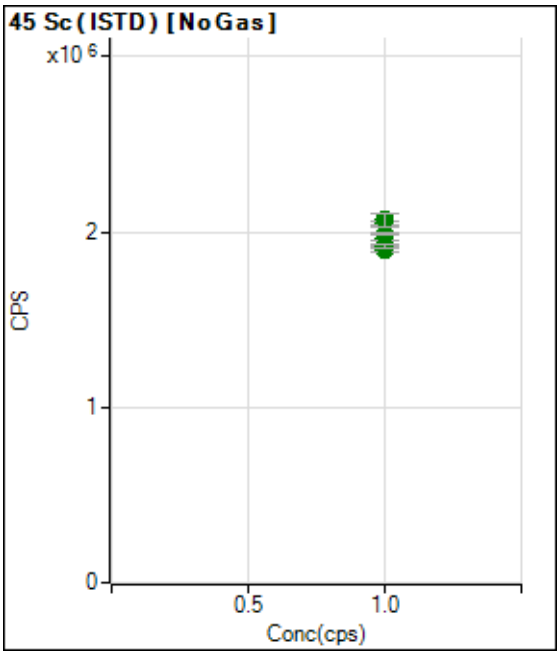
y = 0.0066 * x + 1.2910E-004
R = 0.9999
DL = 0.00667
BEC = 0.0195

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

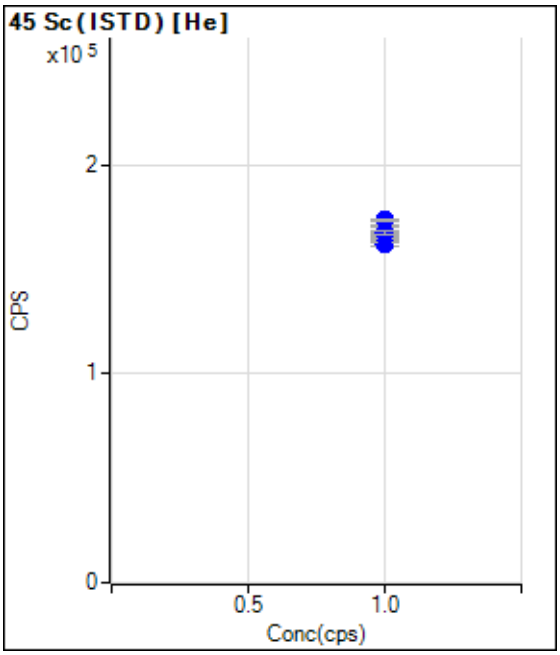


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		496878.98		P	2.9
2	☐	1.000		508640.72		P	1.2
3	☐	1.000		525604.17		P	0.6
4	☐	1.000		509191.55		P	0.1
5	☐	1.000		508213.22		P	1.0
6	☐	1.000		502694.76		P	0.7
7	☐	1.000		504420.70		P	0.6
8	☐	1.000		539325.61		P	3.3

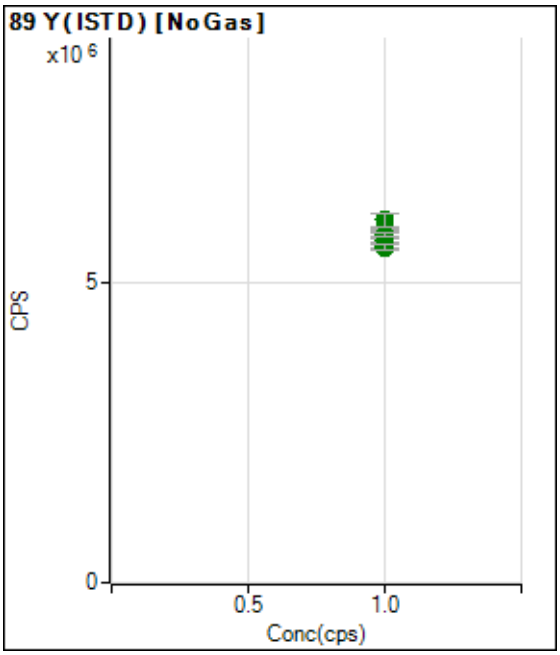


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1966094.12		A	1.7
2	☐	1.000		1988656.64		A	0.6
3	☐	1.000		2050117.37		A	1.5
4	☐	1.000		1917945.39		A	0.3
5	☐	1.000		1901213.95		A	1.2
6	☐	1.000		1912943.65		A	0.6
7	☐	1.000		1919343.41		A	0.9
8	☐	1.000		2067877.76		A	3.5

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

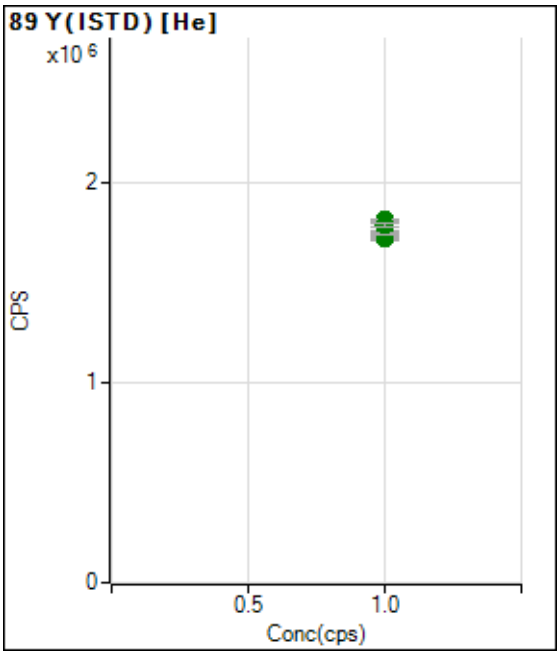


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		162605.36		P	1.3
2	☐	1.000		168355.88		P	0.8
3	☐	1.000		170787.03		P	0.4
4	☐	1.000		163607.33		P	0.3
5	☐	1.000		163400.81		P	0.0
6	☐	1.000		165594.54		P	0.5
7	☐	1.000		167851.85		P	1.1
8	☐	1.000		173879.71		P	0.4

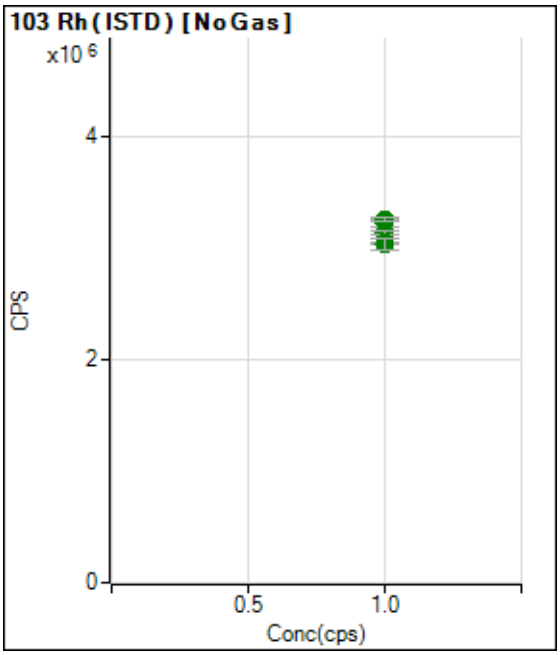


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5758795.47		A	3.6
2	☐	1.000		5813754.98		A	1.4
3	☐	1.000		5888918.11		A	0.3
4	☐	1.000		5698418.46		A	1.3
5	☐	1.000		5609507.35		A	1.0
6	☐	1.000		5581168.87		A	1.6
7	☐	1.000		5783661.58		A	1.3
8	☐	1.000		6037755.40		A	4.1

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

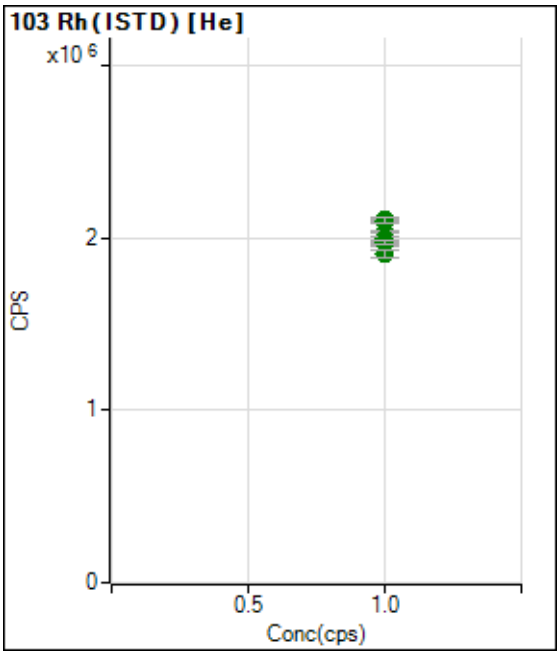


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1742014.23		A	2.4
2	☐	1.000		1813368.37		A	1.3
3	☐	1.000		1817766.97		A	0.3
4	☐	1.000		1720715.10		A	1.2
5	☐	1.000		1735122.27		A	1.4
6	☐	1.000		1746766.21		A	1.0
7	☐	1.000		1746909.77		A	0.9
8	☐	1.000		1792746.07		A	1.3

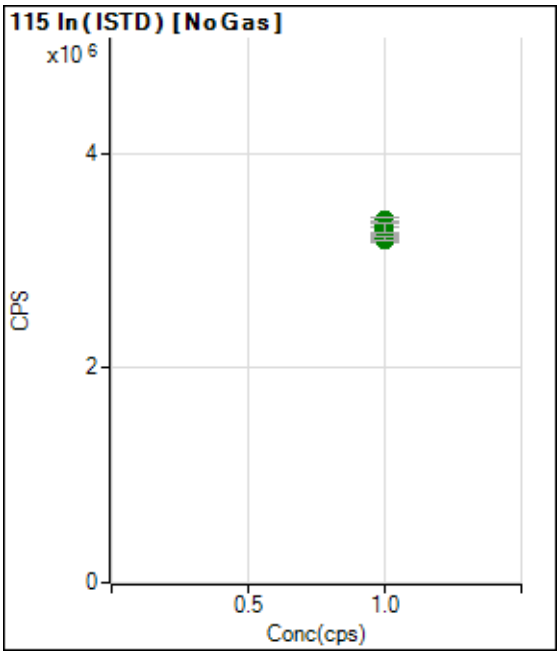


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3135958.15		A	3.8
2	☐	1.000		3221180.06		A	2.1
3	☐	1.000		3250673.28		A	1.1
4	☐	1.000		3135115.99		A	1.1
5	☐	1.000		3046396.80		A	0.5
6	☐	1.000		3057988.22		A	1.7
7	☐	1.000		3045776.80		A	0.1
8	☐	1.000		3028442.46		A	3.4

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

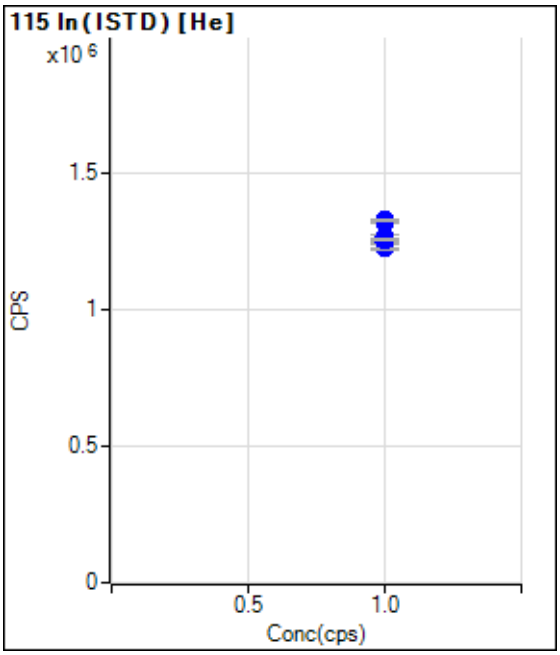


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2034031.00		A	0.6
2	☐	1.000		2107195.94		A	0.5
3	☐	1.000		2103220.12		A	1.3
4	☐	1.000		1987702.63		A	1.8
5	☐	1.000		1994214.27		A	1.6
6	☐	1.000		1972822.14		A	1.3
7	☐	1.000		1974383.44		A	1.1
8	☐	1.000		1906060.79		A	2.4

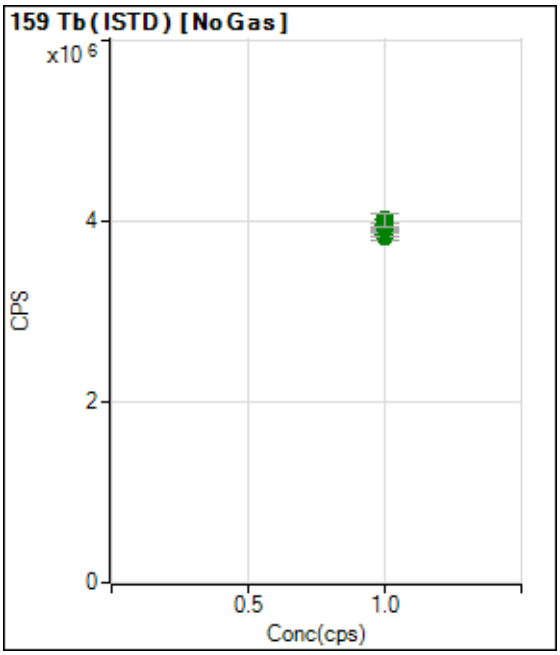


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3279327.24		A	2.4
2	☐	1.000		3329077.51		A	1.0
3	☐	1.000		3383309.79		A	1.0
4	☐	1.000		3296297.22		A	1.6
5	☐	1.000		3217850.71		A	0.7
6	☐	1.000		3189092.53		A	0.9
7	☐	1.000		3205511.18		A	1.1
8	☐	1.000		3308729.05		A	3.0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

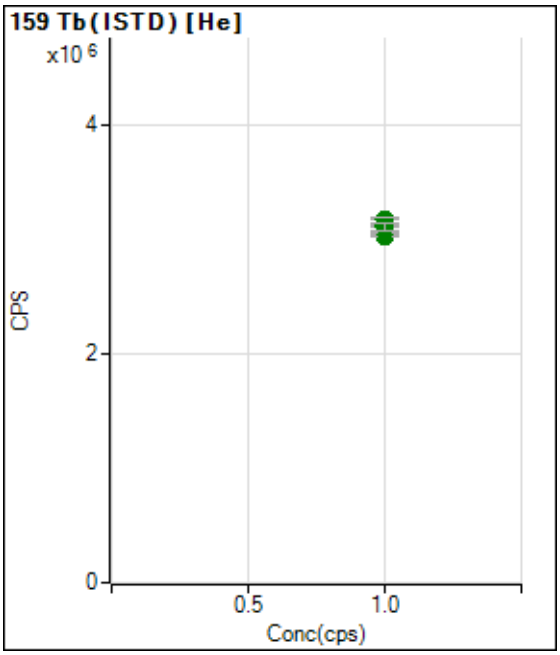


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1262693.07		P	1.4
2	☐	1.000		1315665.66		P	0.5
3	☐	1.000		1325801.53		P	0.6
4	☐	1.000		1257789.88		P	0.6
5	☐	1.000		1249582.02		P	0.4
6	☐	1.000		1246277.39		P	1.0
7	☐	1.000		1220467.97		P	0.4
8	☐	1.000		1251549.20		P	0.5

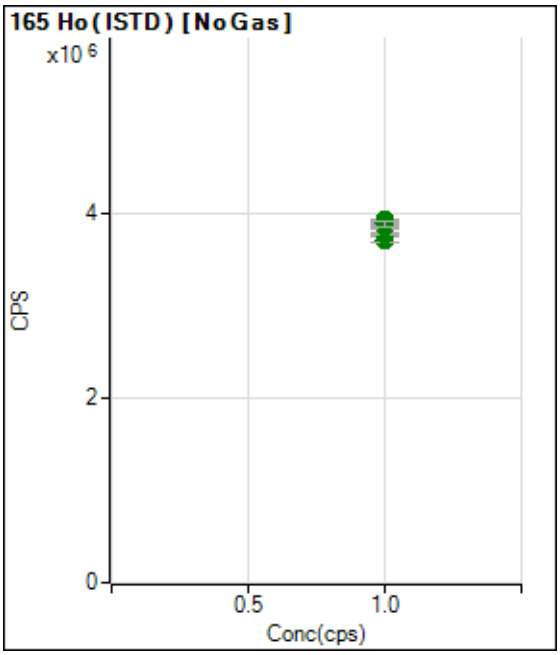


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3843539.18		A	2.4
2	☐	1.000		3863248.72		A	1.5
3	☐	1.000		3987064.32		A	0.3
4	☐	1.000		3910717.03		A	1.6
5	☐	1.000		3951475.64		A	1.2
6	☐	1.000		3943989.91		A	0.3
7	☐	1.000		3961458.80		A	1.4
8	☐	1.000		4019924.04		A	4.0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

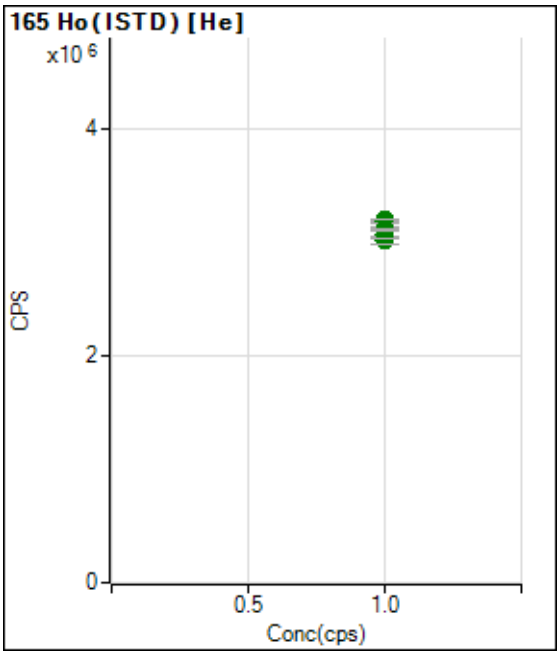


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3035101.76		A	0.5
2	☐	1.000		3135170.65		A	0.6
3	☐	1.000		3152407.94		A	1.5
4	☐	1.000		3072405.34		A	2.2
5	☐	1.000		3070321.10		A	0.4
6	☐	1.000		3122802.84		A	0.9
7	☐	1.000		3173050.13		A	1.6
8	☐	1.000		3110917.00		A	2.3

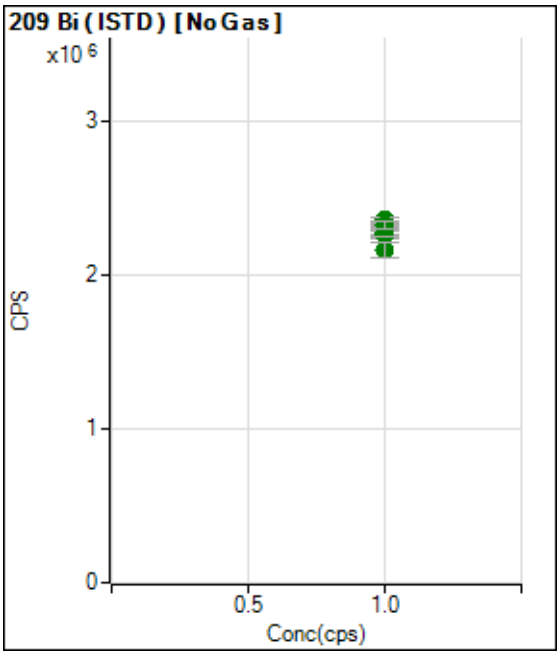


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3706838.45		A	1.7
2	☐	1.000		3754426.05		A	1.1
3	☐	1.000		3874694.49		A	0.6
4	☐	1.000		3761536.58		A	0.9
5	☐	1.000		3777962.55		A	0.8
6	☐	1.000		3841937.93		A	1.3
7	☐	1.000		3920388.48		A	0.6
8	☐	1.000		3879078.94		A	1.7

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

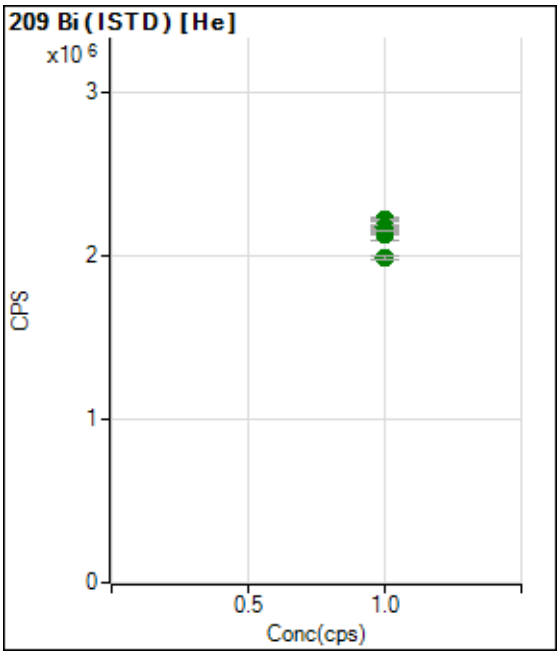


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3026340.16		A	2.0
2	☐	1.000		3171956.10		A	0.1
3	☐	1.000		3204331.34		A	0.2
4	☐	1.000		3117931.55		A	0.4
5	☐	1.000		3075090.58		A	2.4
6	☐	1.000		3129445.54		A	1.0
7	☐	1.000		3193662.49		A	0.6
8	☐	1.000		3118338.15		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2269781.93		A	3.4
2	☐	1.000		2270838.28		A	1.4
3	☐	1.000		2355482.59		A	1.4
4	☐	1.000		2262830.49		A	1.6
5	☐	1.000		2307868.32		A	1.3
6	☐	1.000		2312909.83		A	0.5
7	☐	1.000		2319677.95		A	2.0
8	☐	1.000		2159210.49		A	5.0

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2122693.63		A	3.1
2	☐	1.000		2215551.51		A	1.1
3	☐	1.000		2212486.06		A	0.7
4	☐	1.000		2162017.38		A	1.5
5	☐	1.000		2129424.74		A	0.8
6	☐	1.000		2174209.01		A	0.9
7	☐	1.000		2149525.35		A	0.3
8	☐	1.000		1984140.79		A	0.9

US EPA Tune Check Report

Reviewed By:Moh
On:3/26/2025 2:17 PM
Inst Id :P7
LB :LB135118

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7032025MS2.b

Acq. Date-Time 2025-03-20 15:16:08

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		4262	42618.08			0.833	5.000
24		130086	1300864.20			0.865	5.000
25		14739	147388.13			0.567	5.000
26		16308	163077.42			0.742	5.000
59		53858	538582.49			0.198	5.000
113		7131	71311.48			0.780	5.000
115		93238	932382.60			1.358	5.000
206		16730	167295.57			1.943	5.000
207		14709	147089.39			1.971	5.000
208		34627	346268.64			1.557	5.000
220		0	3.30			34.881	

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	4272	4245	4234	4238	4319
24	129018	128832	130427	130711	131445
25	14669	14629	14787	14811	14798
26	16150	16208	16404	16416	16362
59	53766	53824	53766	53927	54009
113	7127	7158	7210	7089	7071
115	94309	92917	94777	92392	91796
206	17113	16881	16874	16372	16408
207	15000	14875	14869	14462	14338
208	35217	34710	35064	34104	34041

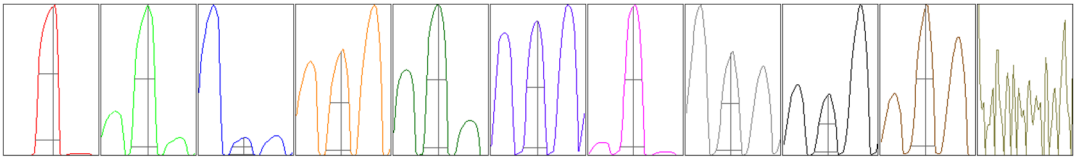
US EPA Tune Check Report

Reviewed By:Moh
On:3/26/2025 2:17 PM
Inst Id :P7
LB :LB135118

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6992.55	9.10	8.90 - 9.10	
24	219102.29	24.00	23.90 - 24.10	
25	24790.79	24.95	24.90 - 25.10	
26	27728.06	25.95	25.90 - 26.10	
59	90002.90	58.95	58.90 - 59.10	
113	13443.32	113.00	112.90 - 113.10	
115	172632.14	114.95	114.90 - 115.10	
206	31497.85	205.95	205.90 - 206.10	
207	27458.39	206.95	206.90 - 207.10	
208	67397.29	207.95	207.90 - 208.10	
220	0.00	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.765	0.900	
24	0.64	0.822	0.900	
25	0.63	0.747	0.900	
26	0.62	0.786	0.900	
59	0.63	0.776	0.900	
113	0.55	0.744	0.900	
115	0.54	0.766	0.900	
206	0.55	0.804	0.900	
207	0.54	0.740	0.900	
208	0.53	0.775	0.900	
220	0.40	0.400		

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

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

Reviewed By:Moh
On:3/26/2025 2:17 PM
Inst Id :P7
LB :LB135118

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.5 V	Deflect	16.0 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-50 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	138	Axis Gain	0.9975	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.12		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2340 V	Pulse HV	1120 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18581	185806.17			0.437	
89		100023	1000233.29			0.531	
205		20145	201447.82			1.159	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18681	18615	18545	18598	18464
89	99512	100374	100645	99438	100148
205	20542	20106	20102	20046	19928

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	0.0 V	Omega Lens	8.6 V	Deflect	3.4 V

US EPA Tune Check Report

Reviewed By:Moh
On:3/26/2025 2:17
PM
Inst Id :P7
LB :LB135118

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	138	Axis Gain	0.9975	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.12		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm

EM

Discriminator	4.7 mV	Analog HV	2340 V	Pulse HV	1120 V

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.23	-0.30	0.07	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.03	0.00	0.03	0.00	N/A	ppb
Barium	135-1	0.01	-0.01	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.01	0.00	N/A	ppb
Beryllium	9-1	0.03	-0.01	-0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	-0.05	0.03	0.00	N/A	ppb
Cadmium	106-1	0.28	-0.51	0.23	0.00	N/A	ppb
Cadmium	111-1	0.03	-0.04	0.01	0.00	N/A	ppb
Calcium	43-1	1.73	3.00	-4.73	0.00	N/A	ppb
Calcium	44-1	0.84	-1.23	0.39	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.01	0.04	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	0.06	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	56-2	-0.19	-0.19	0.38	0.00	N/A	ppb
Iron	57-2	-1.53	0.73	0.80	0.00	N/A	ppb
Iron	54-2	0.71	-0.23	-0.48	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	0.01	0.01	0.00	N/A	ppb
Lead	207-1	-0.01	0.00	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	0.31	-0.16	-0.15	0.00	N/A	ppb
Manganese	55-2	-0.03	-0.01	0.04	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	-0.01	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.01	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	-0.01	0.00	N/A	ppb
Molybdenum	98-1	0.00	-0.01	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.01	0.03	0.00	N/A	ppb
Phosphorus	31-2	-14.25	-19.28	-10.52	-14.68		ppb
Potassium	39-2	-1.36	-1.10	2.46	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.08	-0.27	0.35	0.00	N/A	ppb
Selenium	77-2	-0.01	-0.25	0.26	0.00	N/A	ppb
Selenium	78-2	-0.71	-0.75	1.46	0.00	N/A	ppb
Silicon	28-1	-2.60	-0.56	3.16	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	-0.12	-0.12	0.24	0.00	N/A	ppb
Strontium	86-1	-0.32	-0.03	0.35	0.00	N/A	ppb
Strontium	88-1	0.01	0.04	-0.05	0.00	N/A	ppb
Sulfur	34-1	-199.35	-100.00	17.70	-93.88		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	0.01	-0.01	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	-0.02	0.00	N/A	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.04	-0.17	0.14	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.01	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.27	17.52	16.98	17.59	3.68	ppb
Antimony	121-1	2.00	1.98	1.98	1.99	0.66	ppb
Arsenic	75-2	1.33	0.98	0.89	1.07	21.92	ppb
Barium	135-1	9.98	9.54	9.50	9.67	2.74	ppb
Barium	137-1	9.83	9.80	9.82	9.82	0.16	ppb
Beryllium	9-1	1.04	1.14	1.06	1.08	4.60	ppb
Bismuth	209-1				100		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.24	1.10	1.09	1.14	7.36	ppb
Cadmium	106-1	1.06	1.46	1.25	1.26	16.05	ppb
Cadmium	111-1	1.16	1.22	1.21	1.20	2.56	ppb
Calcium	43-1	506.85	529.13	507.21	514.40	2.48	ppb
Calcium	44-1	509.65	514.04	517.67	513.78	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.96	2.04	1.94	1.98	2.52	ppb
Cobalt	59-2	1.08	1.08	1.06	1.07	1.21	ppb
Copper	63-2	1.95	1.98	1.92	1.95	1.60	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				101		%
Holmium	165-2				105		%
Indium	115-1				102		%
Indium	115-2				104		%
Iron	56-2	54.30	53.37	55.01	54.23	1.52	ppb
Iron	57-2	59.01	57.92	54.88	57.27	3.74	ppb
Iron	54-2	53.53	54.04	52.17	53.25	1.82	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.91	0.99	0.89	0.93	5.59	ppb
Lead	207-1	0.95	0.98	0.90	0.94	4.51	ppb
Lead	208-1	0.94	0.95	0.91	0.93	2.59	ppb
Lithium	6-1				102		%
Magnesium	24-2	475.77	471.15	476.43	474.45	0.61	ppb
Manganese	55-2	0.88	0.91	0.91	0.90	2.05	ppb
Molybdenum	94-1	5.64	5.66	5.75	5.68	1.05	ppb
Molybdenum	95-1	4.82	4.86	4.82	4.83	0.51	ppb
Molybdenum	96-1	4.73	4.93	5.04	4.90	3.24	ppb
Molybdenum	97-1	4.87	4.74	4.85	4.82	1.41	ppb
Molybdenum	98-1	4.97	4.77	4.74	4.83	2.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.09	1.10	1.19	1.13	4.62	ppb
Phosphorus	31-2	23.30	12.37	8.37	14.68	52.62	ppb
Potassium	39-2	496.30	495.91	497.85	496.69	0.21	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				101		%
Scandium	45-2				104		%
Selenium	82-1	5.61	4.94	5.10	5.22	6.71	ppb
Selenium	77-2	4.44	7.02	4.78	5.41	25.89	ppb
Selenium	78-2	7.32	4.86	5.25	5.81	22.76	ppb
Silicon	28-1	-0.33	-1.80	0.83	-0.43		ppb
Silver	107-1	1.02	1.05	1.02	1.03	1.69	ppb
Silver	109-1	1.01	1.02	1.06	1.03	2.38	ppb
Sodium	23-2	473.95	468.86	466.54	469.79	0.81	ppb
Strontium	86-1	25.96	24.67	25.20	25.28	2.58	ppb
Strontium	88-1	25.19	25.02	25.10	25.10	0.35	ppb
Sulfur	34-1	101.13	108.31	72.20	93.88	20.36	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	0.93	0.89	0.93	0.92	2.56	ppb
Thallium	205-1	0.91	0.94	0.90	0.92	1.91	ppb
Tin	118-1	5.18	5.16	5.06	5.14	1.22	ppb
Titanium	47-1	4.89	4.83	5.04	4.92	2.28	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.91	0.90	0.91	1.59	ppb
Vanadium	51-2	5.12	5.19	5.00	5.10	1.80	ppb
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	4.70	4.52	5.05	4.76	5.64	ppb
Zirconium	90-1	0.92	0.97	0.94	0.94	2.51	ppb
Zirconium	91-1	1.08	0.96	0.91	0.98	8.74	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	853.97	865.95	863.96	861.29	0.75	ppb
Antimony	121-1	46.15	46.49	46.13	46.26	0.44	ppb
Arsenic	75-2	49.81	50.25	50.55	50.21	0.74	ppb
Barium	135-1	222.64	225.27	223.50	223.80	0.60	ppb
Barium	137-1	223.54	225.53	224.68	224.58	0.44	ppb
Beryllium	9-1	48.57	50.59	50.35	49.84	2.21	ppb
Bismuth	209-1				104		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	50.73	54.39	53.18	52.77	3.53	ppb
Cadmium	106-1	53.06	52.76	51.86	52.56	1.19	ppb
Cadmium	111-1	51.36	51.01	50.77	51.04	0.58	ppb
Calcium	43-1	4805.31	4735.81	4815.10	4785.41	0.90	ppb
Calcium	44-1	4966.27	4923.08	5112.41	5000.59	1.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46.41	46.25	46.64	46.43	0.42	ppb
Cobalt	59-2	47.11	46.15	46.79	46.69	1.04	ppb
Copper	63-2	474.72	512.00	471.08	485.93	4.66	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				105		%
Holmium	165-2				106		%
Indium	115-1				103		%
Indium	115-2				105		%
Iron	56-2	2677.06	2685.40	2658.16	2673.54	0.52	ppb
Iron	57-2	2558.43	2510.69	2523.69	2530.94	0.98	ppb
Iron	54-2	2543.22	2521.68	2546.58	2537.16	0.53	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	210.93	217.25	211.77	213.31	1.61	ppb
Lead	207-1	208.69	214.75	209.99	211.15	1.51	ppb
Lead	208-1	224.99	229.69	225.69	226.79	1.12	ppb
Lithium	6-1				106		%
Magnesium	24-2	5049.97	5004.83	4983.25	5012.68	0.68	ppb
Manganese	55-2	456.80	457.53	456.74	457.02	0.10	ppb
Molybdenum	94-1	448.87	456.67	447.81	451.12	1.07	ppb
Molybdenum	95-1	488.61	493.64	496.13	492.79	0.78	ppb
Molybdenum	96-1	495.12	499.24	484.81	493.06	1.51	ppb
Molybdenum	97-1	448.99	456.96	451.67	452.54	0.90	ppb
Molybdenum	98-1	496.71	502.65	494.84	498.07	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.65	51.02	51.19	51.28	0.63	ppb
Phosphorus	31-2	1043.89	975.95	1017.13	1012.32	3.38	ppb
Potassium	39-2	2352.83	2342.98	2332.98	2342.93	0.42	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	52.88	53.35	51.66	52.63	1.65	ppb
Selenium	77-2	54.21	55.46	47.36	52.34	8.33	ppb
Selenium	78-2	47.44	50.88	49.85	49.39	3.58	ppb
Silicon	28-1	44.41	41.07	46.23	43.90	5.96	ppb
Silver	107-1	47.79	47.77	47.48	47.68	0.37	ppb
Silver	109-1	47.87	47.39	47.10	47.45	0.82	ppb
Sodium	23-2	5121.50	5058.00	4944.37	5041.29	1.78	ppb
Strontium	86-1	1168.67	1173.60	1176.05	1172.77	0.32	ppb
Strontium	88-1	1124.90	1144.06	1122.97	1130.64	1.03	ppb
Sulfur	34-1	1057.53	877.02	1126.09	1020.21	12.61	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	42.41	43.44	42.30	42.71	1.47	ppb
Thallium	205-1	42.46	42.95	41.87	42.43	1.27	ppb
Tin	118-1	45.72	45.93	46.18	45.94	0.50	ppb
Titanium	47-1	447.23	435.33	443.36	441.97	1.37	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	40.87	41.73	40.52	41.04	1.52	ppb
Vanadium	51-2	46.30	46.81	47.00	46.70	0.78	ppb
Yttrium	89-1				102		%
Yttrium	89-2				104		%
Zinc	66-2	491.09	485.76	483.35	486.73	0.81	ppb
Zirconium	90-1	44.46	45.11	44.98	44.85	0.76	ppb
Zirconium	91-1	46.62	46.18	45.68	46.16	1.02	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2175.25	2200.83	2185.34	2187.14	0.59	ppb
Antimony	121-1	119.20	123.23	119.20	120.54	1.93	ppb
Arsenic	75-2	125.56	124.98	127.92	126.15	1.24	ppb
Barium	135-1	551.06	558.54	542.33	550.64	1.47	ppb
Barium	137-1	549.46	566.46	546.90	554.27	1.92	ppb
Beryllium	9-1	125.33	125.41	126.49	125.75	0.51	ppb
Bismuth	209-1				100		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	129.34	134.79	118.82	127.65	6.36	ppb
Cadmium	106-1	127.77	127.57	127.40	127.58	0.15	ppb
Cadmium	111-1	126.81	127.32	127.05	127.06	0.20	ppb
Calcium	43-1	12224.38	12225.17	12116.82	12188.79	0.51	ppb
Calcium	44-1	12814.23	13179.98	12892.40	12962.20	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	117.97	117.38	117.44	117.60	0.27	ppb
Cobalt	59-2	117.06	115.56	115.94	116.19	0.67	ppb
Copper	63-2	1292.64	1308.58	1304.13	1301.78	0.63	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				101		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	56-2	6834.41	6670.00	6630.97	6711.79	1.61	ppb
Iron	57-2	6424.00	6381.72	6334.94	6380.22	0.70	ppb
Iron	54-2	6376.46	6389.50	6366.08	6377.35	0.18	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	657.16	645.32	650.18	650.89	0.91	ppb
Lead	207-1	672.15	659.98	662.86	665.00	0.96	ppb
Lead	208-1	664.66	653.66	658.09	658.80	0.84	ppb
Lithium	6-1				102		%
Magnesium	24-2	12493.77	12858.92	12566.09	12639.59	1.53	ppb
Manganese	55-2	1250.22	1248.88	1253.23	1250.78	0.18	ppb
Molybdenum	94-1	1217.95	1272.04	1248.39	1246.13	2.18	ppb
Molybdenum	95-1	1220.17	1233.09	1229.14	1227.46	0.54	ppb
Molybdenum	96-1	1224.12	1249.60	1241.26	1238.33	1.05	ppb
Molybdenum	97-1	1244.34	1247.25	1231.23	1240.94	0.69	ppb
Molybdenum	98-1	1208.87	1223.08	1227.69	1219.88	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	160.72	160.07	157.55	159.45	1.05	ppb
Phosphorus	31-2	2642.14	2571.66	2609.99	2607.93	1.35	ppb
Potassium	39-2	6331.33	6412.31	6462.86	6402.17	1.04	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	127.87	132.19	131.33	130.46	1.75	ppb
Selenium	77-2	123.59	123.29	126.10	124.32	1.24	ppb
Selenium	78-2	123.90	125.19	122.07	123.72	1.27	ppb
Silicon	28-1	134.74	136.25	137.77	136.25	1.11	ppb
Silver	107-1	115.55	120.01	115.07	116.88	2.33	ppb
Silver	109-1	114.78	118.44	114.56	115.93	1.88	ppb
Sodium	23-2	12181.52	12646.09	12747.98	12525.20	2.41	ppb
Strontium	86-1	2841.14	2922.06	2908.39	2890.53	1.50	ppb
Strontium	88-1	3042.92	3186.39	3133.93	3121.08	2.33	ppb
Sulfur	34-1	2741.98	2467.10	2513.84	2574.31	5.71	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	109.76	107.48	109.01	108.75	1.07	ppb
Thallium	205-1	109.35	107.36	106.87	107.86	1.22	ppb
Tin	118-1	112.94	115.93	112.97	113.95	1.51	ppb
Titanium	47-1	1117.87	1123.34	1111.67	1117.63	0.52	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	119.76	119.37	120.90	120.01	0.66	ppb
Vanadium	51-2	116.46	118.55	115.96	116.99	1.17	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	1768.19	1757.70	1761.42	1762.44	0.30	ppb
Zirconium	90-1	109.44	111.94	111.65	111.01	1.23	ppb
Zirconium	91-1	112.79	115.00	113.65	113.81	0.98	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4337.32	4308.71	4281.63	4309.22	0.65	ppb
Antimony	121-1	220.14	226.75	223.23	223.38	1.48	ppb
Arsenic	75-2	252.20	249.20	246.75	249.38	1.09	ppb
Barium	135-1	1190.99	1240.50	1220.09	1217.19	2.04	ppb
Barium	137-1	1209.30	1232.58	1226.95	1222.94	0.99	ppb
Beryllium	9-1	246.56	251.09	255.66	251.10	1.81	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	247.52	251.56	253.45	250.84	1.21	ppb
Cadmium	106-1	247.59	247.95	245.86	247.13	0.45	ppb
Cadmium	111-1	245.34	254.18	249.45	249.66	1.77	ppb
Calcium	43-1	24030.31	23948.82	24103.13	24027.42	0.32	ppb
Calcium	44-1	25162.71	25063.60	25246.92	25157.74	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	232.81	230.48	231.50	231.60	0.51	ppb
Cobalt	59-2	229.09	228.14	230.27	229.17	0.47	ppb
Copper	63-2	2533.18	2573.77	2544.52	2550.49	0.82	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				102		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	56-2	13428.35	13277.39	13280.24	13328.66	0.65	ppb
Iron	57-2	12614.43	12533.96	12463.67	12537.35	0.60	ppb
Iron	54-2	13508.66	13018.42	13125.89	13217.66	1.95	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1245.71	1225.37	1210.70	1227.26	1.43	ppb
Lead	207-1	1253.68	1245.00	1199.24	1232.64	2.37	ppb
Lead	208-1	1229.21	1238.22	1202.71	1223.38	1.51	ppb
Lithium	6-1				102		%
Magnesium	24-2	25217.10	24897.60	24862.94	24992.55	0.78	ppb
Manganese	55-2	2568.73	2515.29	2506.35	2530.12	1.33	ppb
Molybdenum	94-1	2460.87	2511.43	2554.08	2508.79	1.86	ppb
Molybdenum	95-1	2458.60	2447.34	2516.22	2474.05	1.49	ppb
Molybdenum	96-1	2477.16	2498.19	2518.96	2498.10	0.84	ppb
Molybdenum	97-1	2453.44	2483.45	2499.87	2478.92	0.95	ppb
Molybdenum	98-1	2420.55	2468.50	2496.07	2461.70	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	255.14	253.44	254.50	254.36	0.34	ppb
Phosphorus	31-2	5029.59	4952.44	5059.56	5013.86	1.10	ppb
Potassium	39-2	12512.18	12262.27	12294.23	12356.23	1.10	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				100		%
Selenium	82-1	256.59	259.48	259.78	258.62	0.68	ppb
Selenium	77-2	259.84	247.31	251.43	252.86	2.53	ppb
Selenium	78-2	265.25	253.76	249.53	256.18	3.17	ppb
Silicon	28-1	262.93	267.94	278.81	269.89	3.01	ppb
Silver	107-1	243.82	251.88	250.59	248.76	1.74	ppb
Silver	109-1	252.63	250.45	247.68	250.25	0.99	ppb
Sodium	23-2	25645.52	24846.05	24823.52	25105.03	1.87	ppb
Strontium	86-1	5768.14	5865.27	5893.09	5842.17	1.12	ppb
Strontium	88-1	6112.00	6277.35	6334.76	6241.37	1.85	ppb
Sulfur	34-1	5021.67	4845.45	4959.64	4942.26	1.81	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	215.52	218.57	212.69	215.59	1.37	ppb
Thallium	205-1	238.53	242.66	241.50	240.89	0.88	ppb
Tin	118-1	219.12	225.99	223.70	222.94	1.57	ppb
Titanium	47-1	2497.97	2483.47	2444.41	2475.28	1.12	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	240.05	247.18	237.42	241.55	2.09	ppb
Vanadium	51-2	233.56	230.04	231.66	231.75	0.76	ppb
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	2411.76	2405.35	2406.91	2408.00	0.14	ppb
Zirconium	90-1	243.87	252.23	253.92	250.01	2.15	ppb
Zirconium	91-1	227.00	231.68	234.29	230.99	1.60	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9738.76	9748.75	9570.70	9686.07	1.03	ppb
Antimony	121-1	496.93	498.42	493.14	496.16	0.55	ppb
Arsenic	75-2	492.89	493.61	493.31	493.27	0.07	ppb
Barium	135-1	2438.23	2488.99	2438.31	2455.18	1.19	ppb
Barium	137-1	2458.01	2464.27	2459.89	2460.72	0.13	ppb
Beryllium	9-1	493.63	507.39	500.36	500.46	1.37	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	497.71	505.53	496.61	499.95	0.97	ppb
Cadmium	106-1	499.95	501.96	494.75	498.89	0.75	ppb
Cadmium	111-1	497.02	499.22	494.45	496.89	0.48	ppb
Calcium	43-1	47309.73	47486.37	47924.82	47573.64	0.67	ppb
Calcium	44-1	50151.28	49857.62	50569.70	50192.87	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	461.82	465.36	459.65	462.28	0.62	ppb
Cobalt	59-2	506.20	498.14	498.72	501.02	0.90	ppb
Copper	63-2	5135.73	5087.02	5003.06	5075.27	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				104		%
Holmium	165-2				103		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	56-2	26060.36	26343.18	26434.66	26279.40	0.74	ppb
Iron	57-2	26909.79	26025.94	26435.58	26457.11	1.67	ppb
Iron	54-2	26659.76	27052.47	26816.83	26843.02	0.74	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2470.97	2424.07	2504.34	2466.46	1.63	ppb
Lead	207-1	2437.69	2472.47	2494.75	2468.30	1.17	ppb
Lead	208-1	2455.36	2469.37	2490.74	2471.83	0.72	ppb
Lithium	6-1				101		%
Magnesium	24-2	50597.61	49890.22	48927.74	49805.19	1.68	ppb
Manganese	55-2	5002.18	5027.46	4982.68	5004.11	0.45	ppb
Molybdenum	94-1	4931.72	5092.73	5087.28	5037.25	1.81	ppb
Molybdenum	95-1	4971.71	5101.15	5106.66	5059.84	1.51	ppb
Molybdenum	96-1	4915.63	5066.33	5144.21	5042.06	2.30	ppb
Molybdenum	97-1	4933.97	5084.78	5165.68	5061.48	2.32	ppb
Molybdenum	98-1	4894.06	5058.13	5124.08	5025.42	2.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	502.51	505.65	499.21	502.46	0.64	ppb
Phosphorus	31-2	9985.00	9987.15	10172.54	10048.23	1.07	ppb
Potassium	39-2	25017.38	24864.55	24985.39	24955.77	0.32	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				102		%
Selenium	82-1	502.52	515.13	529.51	515.72	2.62	ppb
Selenium	77-2	508.09	521.16	496.54	508.60	2.42	ppb
Selenium	78-2	513.69	505.85	504.21	507.92	1.00	ppb
Silicon	28-1	527.97	529.42	544.02	533.80	1.66	ppb
Silver	107-1	494.08	508.28	501.44	501.27	1.42	ppb
Silver	109-1	505.06	502.19	494.84	500.70	1.05	ppb
Sodium	23-2	50188.53	51021.13	50767.68	50659.11	0.84	ppb
Strontium	86-1	11478.53	11822.59	11901.79	11734.30	1.92	ppb
Strontium	88-1	12112.70	12389.94	12850.24	12450.96	2.99	ppb
Sulfur	34-1	9579.00	9577.62	9727.03	9627.88	0.89	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	506.19	515.83	505.04	509.02	1.16	ppb
Thallium	205-1	494.68	491.12	494.17	493.32	0.39	ppb
Tin	118-1	498.31	503.52	509.33	503.72	1.09	ppb
Titanium	47-1	4971.00	4819.66	5018.16	4936.27	2.10	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	479.61	492.82	498.04	490.16	1.94	ppb
Vanadium	51-2	469.08	467.47	463.07	466.54	0.67	ppb
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	5191.81	5041.73	5119.42	5117.65	1.47	ppb
Zirconium	90-1	486.58	506.07	508.28	500.31	2.39	ppb
Zirconium	91-1	457.36	470.46	473.39	467.07	1.83	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18967.34	19063.78	19532.21	19187.78	1.57	ppb
Antimony	121-1	983.89	1030.16	1013.90	1009.32	2.33	ppb
Arsenic	75-2	996.18	1012.45	1001.46	1003.36	0.83	ppb
Barium	135-1	4933.63	5150.93	5039.10	5041.22	2.16	ppb
Barium	137-1	4937.47	5179.89	4992.18	5036.52	2.52	ppb
Beryllium	9-1	980.39	1008.20	1009.63	999.41	1.65	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	976.62	1025.32	996.09	999.34	2.45	ppb
Cadmium	106-1	987.55	1018.45	996.48	1000.82	1.59	ppb
Cadmium	111-1	993.23	1016.17	994.58	1001.33	1.29	ppb
Calcium	43-1	101246.45	103655.85	104490.57	103130.95	1.63	ppb
Calcium	44-1	101800.57	100980.26	102387.40	101722.74	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1026.31	1026.42	1020.97	1024.57	0.30	ppb
Cobalt	59-2	987.43	1010.31	1020.16	1005.97	1.67	ppb
Copper	63-2	9949.83	9897.55	9984.54	9943.97	0.44	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				106		%
Indium	115-1				98		%
Indium	115-2				97		%
Iron	56-2	51570.93	51746.74	52815.44	52044.37	1.29	ppb
Iron	57-2	51710.28	52843.55	53260.33	52604.72	1.52	ppb
Iron	54-2	53799.73	53898.53	52533.23	53410.50	1.43	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4935.82	5082.39	5044.95	5021.05	1.52	ppb
Lead	207-1	4845.75	5106.54	5099.10	5017.13	2.96	ppb
Lead	208-1	4891.17	5106.27	5055.59	5017.68	2.24	ppb
Lithium	6-1				102		%
Magnesium	24-2	97470.42	95306.23	101758.41	98178.35	3.34	ppb
Manganese	55-2	10037.60	9965.50	9974.30	9992.47	0.39	ppb
Molybdenum	94-1	9941.98	10110.82	9893.52	9982.11	1.14	ppb
Molybdenum	95-1	9924.00	10104.33	9910.90	9979.74	1.08	ppb
Molybdenum	96-1	9998.04	10039.87	9905.85	9981.25	0.69	ppb
Molybdenum	97-1	10011.40	10053.38	9869.34	9978.04	0.97	ppb
Molybdenum	98-1	9824.38	10180.41	9997.39	10000.72	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	980.43	994.23	1005.27	993.31	1.25	ppb
Phosphorus	31-2	19889.36	19962.95	20022.62	19958.31	0.33	ppb
Potassium	39-2	49442.52	49260.27	49905.71	49536.17	0.67	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				103		%
Selenium	82-1	981.47	1001.78	984.27	989.17	1.11	ppb
Selenium	77-2	988.67	998.10	998.09	994.95	0.55	ppb
Selenium	78-2	970.63	1016.10	997.32	994.68	2.30	ppb
Silicon	28-1	955.30	989.56	986.52	977.13	1.94	ppb
Silver	107-1	992.14	1014.87	995.41	1000.81	1.23	ppb
Silver	109-1	988.95	1006.26	1007.33	1000.85	1.03	ppb
Sodium	23-2	99900.08	99669.21	102327.38	100632.22	1.46	ppb
Strontium	86-1	25780.34	25360.06	25413.53	25517.98	0.90	ppb
Strontium	88-1	24749.45	25289.51	25060.44	25033.13	1.08	ppb
Sulfur	34-1	19796.18	20321.79	20452.62	20190.20	1.72	ppb
Terbium	159-1				103		%
Terbium	159-2				105		%
Thallium	203-1	976.80	1036.97	1005.69	1006.49	2.99	ppb
Thallium	205-1	984.83	1029.99	1009.58	1008.14	2.24	ppb
Tin	118-1	986.72	1031.84	1000.90	1006.49	2.29	ppb
Titanium	47-1	9991.97	9958.65	10221.84	10057.49	1.42	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	972.32	1028.85	1023.15	1008.11	3.09	ppb
Vanadium	51-2	1009.34	1024.56	1033.48	1022.46	1.19	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	9768.91	9903.59	10029.85	9900.78	1.32	ppb
Zirconium	90-1	1001.27	1013.70	990.58	1001.85	1.16	ppb
Zirconium	91-1	1026.63	1030.43	1011.36	1022.81	0.99	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100387.02	99265.08	101060.66	100237.59	0.90	ppb
Antimony	121-1	0.27	0.30	0.34	0.30	11.05	ppb
Arsenic	75-2	0.59	0.53	0.38	0.50	21.87	ppb
Barium	135-1	2.06	2.24	2.18	2.16	4.24	ppb
Barium	137-1	2.03	2.33	2.23	2.20	7.04	ppb
Beryllium	9-1	0.03	0.02	0.08	0.04	75.46	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.27	0.22	0.29	0.26	12.79	ppb
Cadmium	106-1	1.23	1.33	0.10	0.89	77.18	ppb
Cadmium	111-1	0.23	0.26	0.16	0.22	23.06	ppb
Calcium	43-1	471040.25	513177.10	514807.61	499674.99	4.97	ppb
Calcium	44-1	470939.48	505511.97	522398.66	499616.70	5.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.08	5.27	5.49	5.28	3.94	ppb
Cobalt	59-2	2.38	2.38	2.45	2.41	1.69	ppb
Copper	63-2	3.31	3.29	3.23	3.27	1.34	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				103		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	248491.42	249759.66	249974.33	249408.47	0.32	ppb
Iron	57-2	249210.60	250206.21	248566.93	249327.91	0.33	ppb
Iron	54-2	250332.75	248189.14	248760.58	249094.16	0.45	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.95	2.17	2.08	2.07	5.30	ppb
Lead	207-1	1.98	2.20	2.10	2.09	5.37	ppb
Lead	208-1	1.95	2.17	2.12	2.08	5.61	ppb
Lithium	6-1				109		%
Magnesium	24-2	510623.83	497575.17	492942.78	500380.59	1.83	ppb
Manganese	55-2	4.63	4.58	4.81	4.67	2.60	ppb
Molybdenum	94-1	1.91	2.09	2.13	2.04	5.58	ppb
Molybdenum	95-1	1.12	1.28	1.32	1.24	8.36	ppb
Molybdenum	96-1	4.63	5.06	5.00	4.90	4.79	ppb
Molybdenum	97-1	1.10	1.29	1.31	1.23	9.64	ppb
Molybdenum	98-1	0.96	1.04	1.03	1.01	4.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.82	4.01	3.69	3.84	4.21	ppb
Phosphorus	31-2	-23.20	-17.88	-30.77	-23.95		ppb
Potassium	39-2	250302.39	248195.73	251808.34	250102.15	0.73	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				105		%
Scandium	45-2				107		%
Selenium	82-1	2.06	2.49	1.58	2.04	22.38	ppb
Selenium	77-2	-0.01	-0.01	0.23	0.07	203.83	ppb
Selenium	78-2	-3.37	-0.95	1.67	-0.88		ppb
Silicon	28-1	-18.77	-13.95	-6.69	-13.14		ppb
Silver	107-1	0.04	0.06	0.05	0.05	19.54	ppb
Silver	109-1	0.04	0.05	0.05	0.05	12.18	ppb
Sodium	23-2	504621.64	498387.18	496395.31	499801.38	0.86	ppb
Strontium	86-1	70.05	75.21	78.06	74.44	5.46	ppb
Strontium	88-1	70.31	77.89	77.33	75.18	5.61	ppb
Sulfur	34-1	-60.39	344.56	504.17	262.78	110.75	ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	0.04	0.04	0.04	0.04	8.33	ppb
Thallium	205-1	0.03	0.05	0.04	0.04	25.84	ppb
Tin	118-1	0.21	0.23	0.25	0.23	9.43	ppb
Titanium	47-1	0.45	0.52	0.72	0.56	24.95	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.04	0.03	0.04	10.08	ppb
Vanadium	51-2	0.23	0.25	0.25	0.24	5.16	ppb
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	17.02	17.29	17.02	17.11	0.91	ppb
Zirconium	90-1	0.38	0.43	0.43	0.41	7.77	ppb
Zirconium	91-1	0.40	0.41	0.42	0.41	2.91	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	493.69	495.37	497.54	495.53	0.39	ppb
Antimony	121-1	189.44	193.66	200.05	194.38	2.75	ppb
Arsenic	75-2	217.77	217.02	215.49	216.76	0.53	ppb
Barium	135-1	94.04	95.89	98.63	96.19	2.40	ppb
Barium	137-1	94.40	97.12	99.37	96.96	2.57	ppb
Beryllium	9-1	99.68	101.00	99.93	100.21	0.70	ppb
Bismuth	209-1				104		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	100.97	100.31	104.40	101.89	2.16	ppb
Cadmium	106-1	94.62	100.95	98.12	97.90	3.24	ppb
Cadmium	111-1	101.93	104.62	106.89	104.48	2.38	ppb
Calcium	43-1	1935.96	1934.18	1953.37	1941.17	0.55	ppb
Calcium	44-1	1921.46	1934.15	1978.59	1944.74	1.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.99	99.67	99.88	100.18	0.71	ppb
Cobalt	59-2	99.73	100.02	99.45	99.73	0.29	ppb
Copper	63-2	92.77	92.88	92.12	92.59	0.44	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				108		%
Holmium	165-2				111		%
Indium	115-1				108		%
Indium	115-2				110		%
Iron	56-2	2252.43	2248.99	2227.98	2243.13	0.59	ppb
Iron	57-2	2088.26	2123.89	2142.48	2118.21	1.30	ppb
Iron	54-2	2144.21	2158.92	2167.68	2156.94	0.55	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	191.36	187.09	192.49	190.31	1.49	ppb
Lead	207-1	179.19	177.19	184.09	180.15	1.97	ppb
Lead	208-1	199.17	195.21	186.82	193.73	3.25	ppb
Lithium	6-1				107		%
Magnesium	24-2	1141.11	1144.43	1149.71	1145.08	0.38	ppb
Manganese	55-2	96.39	96.81	97.47	96.89	0.56	ppb
Molybdenum	94-1	0.09	0.08	0.07	0.08	11.23	ppb
Molybdenum	95-1	0.06	0.06	0.06	0.06	2.22	ppb
Molybdenum	96-1	0.12	0.11	0.09	0.11	15.05	ppb
Molybdenum	97-1	0.06	0.06	0.07	0.07	9.39	ppb
Molybdenum	98-1	0.07	0.06	0.05	0.06	15.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	109.63	110.48	110.37	110.16	0.42	ppb
Phosphorus	31-2	-16.92	-17.08	-28.64	-20.88		ppb
Potassium	39-2	1915.99	1926.53	1928.54	1923.69	0.35	ppb
Rhodium	103-1				110		%
Rhodium	103-2				109		%
Scandium	45-1				110		%
Scandium	45-2				110		%
Selenium	82-1	198.76	192.34	199.35	196.81	1.98	ppb
Selenium	77-2	223.77	234.36	216.89	225.01	3.91	ppb
Selenium	78-2	223.77	221.99	223.22	222.99	0.41	ppb
Silicon	28-1	-10.01	-14.50	-8.46	-10.99		ppb
Silver	107-1	48.53	49.45	51.37	49.78	2.91	ppb
Silver	109-1	48.64	48.86	51.18	49.56	2.84	ppb
Sodium	23-2	1813.54	1825.30	1808.32	1815.72	0.48	ppb
Strontium	86-1	4.50	5.89	7.06	5.82	22.07	ppb
Strontium	88-1	5.95	5.91	6.33	6.07	3.76	ppb
Sulfur	34-1	-261.08	-244.17	-63.98	-189.74		ppb
Terbium	159-1				107		%
Terbium	159-2				109		%
Thallium	203-1	184.81	180.45	187.69	184.32	1.98	ppb
Thallium	205-1	211.90	208.89	211.38	210.72	0.76	ppb
Tin	118-1	0.07	0.05	0.06	0.06	16.21	ppb
Titanium	47-1	0.03	0.03	0.06	0.04	38.34	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	12.19	ppb
Vanadium	51-2	97.29	97.14	98.34	97.59	0.67	ppb
Yttrium	89-1				107		%
Yttrium	89-2				109		%
Zinc	66-2	181.97	179.21	180.95	180.71	0.77	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	18.02	ppb
Zirconium	91-1	0.04	0.06	0.04	0.05	28.61	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.42	18.98	19.41	18.93	2.62	ppb
Antimony	121-1	2.11	2.17	2.15	2.14	1.45	ppb
Arsenic	75-2	1.09	1.30	1.02	1.14	13.13	ppb
Barium	135-1	9.74	9.94	9.75	9.81	1.17	ppb
Barium	137-1	9.84	9.98	9.93	9.92	0.72	ppb
Beryllium	9-1	1.11	1.22	1.12	1.15	5.56	ppb
Bismuth	209-1				103		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.11	1.12	1.07	1.10	2.43	ppb
Cadmium	106-1	1.42	0.04	1.46	0.97	82.84	ppb
Cadmium	111-1	1.26	1.12	1.20	1.19	5.81	ppb
Calcium	43-1	527.96	544.28	539.31	537.19	1.56	ppb
Calcium	44-1	527.70	545.52	518.48	530.57	2.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.01	2.13	1.98	2.04	3.91	ppb
Cobalt	59-2	1.06	1.09	1.08	1.08	1.69	ppb
Copper	63-2	1.80	1.88	1.88	1.85	2.47	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				107		%
Indium	115-1				107		%
Indium	115-2				108		%
Iron	56-2	56.66	57.89	56.17	56.91	1.56	ppb
Iron	57-2	52.89	61.40	59.30	57.86	7.66	ppb
Iron	54-2	60.37	59.46	56.95	58.93	3.01	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.96	1.18	1.01	1.05	10.85	ppb
Lead	207-1	0.91	1.16	0.96	1.01	12.98	ppb
Lead	208-1	0.96	1.18	0.98	1.04	11.52	ppb
Lithium	6-1				105		%
Magnesium	24-2	467.96	483.31	479.87	477.05	1.69	ppb
Manganese	55-2	1.03	1.01	0.88	0.97	8.64	ppb
Molybdenum	94-1	5.54	6.01	5.73	5.76	4.06	ppb
Molybdenum	95-1	4.95	5.04	4.96	4.98	1.00	ppb
Molybdenum	96-1	5.00	5.11	5.04	5.05	1.08	ppb
Molybdenum	97-1	4.98	5.06	4.78	4.94	2.93	ppb
Molybdenum	98-1	4.95	5.05	4.94	4.98	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.10	1.08	1.12	1.10	1.70	ppb
Phosphorus	31-2	-3.19	11.42	-0.92	2.44	322.66	ppb
Potassium	39-2	490.45	510.71	498.91	500.02	2.04	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				109		%
Selenium	82-1	4.98	5.06	5.52	5.19	5.61	ppb
Selenium	77-2	5.63	4.98	4.79	5.13	8.62	ppb
Selenium	78-2	4.01	4.97	4.63	4.54	10.75	ppb
Silicon	28-1	-2.58	0.16	-8.96	-3.79		ppb
Silver	107-1	1.02	1.08	1.08	1.06	3.16	ppb
Silver	109-1	1.04	1.09	1.00	1.05	4.28	ppb
Sodium	23-2	468.37	473.24	474.51	472.04	0.69	ppb
Strontium	86-1	24.26	25.55	27.58	25.80	6.48	ppb
Strontium	88-1	25.21	25.38	24.71	25.10	1.40	ppb
Sulfur	34-1	219.86	59.60	-43.54	78.64	168.78	ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	1.00	0.96	0.96	0.97	2.54	ppb
Thallium	205-1	0.91	0.95	0.91	0.92	2.43	ppb
Tin	118-1	5.11	5.31	5.11	5.17	2.24	ppb
Titanium	47-1	5.03	5.45	4.94	5.14	5.23	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.96	0.90	0.92	3.23	ppb
Vanadium	51-2	5.13	5.39	5.21	5.24	2.58	ppb
Yttrium	89-1				106		%
Yttrium	89-2				108		%
Zinc	66-2	4.60	5.13	4.74	4.82	5.71	ppb
Zirconium	90-1	0.98	0.95	0.96	0.96	1.97	ppb
Zirconium	91-1	1.00	1.03	1.03	1.02	1.52	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.25	0.88	0.88	1.00	21.33	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	17.84	ppb
Arsenic	75-2	0.03	-0.05	-0.02	-0.01		ppb
Barium	135-1	0.04	0.08	0.06	0.06	35.85	ppb
Barium	137-1	0.05	0.07	0.04	0.05	32.45	ppb
Beryllium	9-1	0.01	0.00	-0.04	-0.01		ppb
Bismuth	209-1				103		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	-0.05	-0.05	-0.03		ppb
Cadmium	106-1	-0.47	-0.41	-0.67	-0.52		ppb
Cadmium	111-1	-0.03	-0.02	-0.02	-0.03		ppb
Calcium	43-1	4.42	4.63	8.41	5.82	38.54	ppb
Calcium	44-1	5.98	5.64	4.82	5.48	10.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.01	0.01	179.78	ppb
Cobalt	59-2	0.01	0.02	0.01	0.02	39.20	ppb
Copper	63-2	-0.10	-0.04	-0.03	-0.06		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				104		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				107		%
Iron	56-2	2.48	2.92	3.04	2.81	10.49	ppb
Iron	57-2	0.66	3.50	3.98	2.71	66.09	ppb
Iron	54-2	3.46	2.60	3.38	3.15	15.00	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.06	0.04	0.02	0.04	51.14	ppb
Lead	207-1	0.07	0.06	0.06	0.06	8.98	ppb
Lead	208-1	0.07	0.06	0.05	0.06	13.84	ppb
Lithium	6-1				105		%
Magnesium	24-2	6.31	5.88	5.56	5.92	6.42	ppb
Manganese	55-2	0.06	0.09	0.08	0.08	17.34	ppb
Molybdenum	94-1	0.05	0.08	0.08	0.07	25.84	ppb
Molybdenum	95-1	0.06	0.08	0.05	0.06	25.18	ppb
Molybdenum	96-1	0.06	0.08	0.07	0.07	15.14	ppb
Molybdenum	97-1	0.05	0.10	0.11	0.09	39.83	ppb
Molybdenum	98-1	0.06	0.09	0.08	0.08	15.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.11	-0.03	-0.08	-0.07		ppb
Phosphorus	31-2	-31.40	-33.29	-36.81	-33.83		ppb
Potassium	39-2	1.41	-2.62	2.22	0.33	775.55	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	0.33	0.21	-0.06	0.16	124.51	ppb
Selenium	77-2	-0.02	-0.25	-0.25	-0.17		ppb
Selenium	78-2	1.45	-0.45	0.35	0.45	212.25	ppb
Silicon	28-1	-0.89	-11.23	-5.42	-5.85		ppb
Silver	107-1	0.01	0.01	0.00	0.01	43.56	ppb
Silver	109-1	0.01	0.01	0.01	0.01	17.04	ppb
Sodium	23-2	4.21	3.95	4.64	4.27	8.17	ppb
Strontium	86-1	-0.45	0.33	0.61	0.17	332.32	ppb
Strontium	88-1	0.19	0.12	0.35	0.22	52.30	ppb
Sulfur	34-1	-109.68	-324.82	-97.01	-177.17		ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	0.00	0.00	0.00	0.00	494.53	ppb
Thallium	205-1	0.00	0.00	0.01	0.01	57.27	ppb
Tin	118-1	0.01	0.01	0.05	0.02	102.89	ppb
Titanium	47-1	0.06	0.05	0.09	0.07	33.16	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	7.16	ppb
Vanadium	51-2	0.01	0.01	0.02	0.01	21.77	ppb
Yttrium	89-1				104		%
Yttrium	89-2				107		%
Zinc	66-2	-0.02	0.19	0.05	0.07	137.63	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	4.56	ppb
Zirconium	91-1	0.01	0.01	0.02	0.01	66.79	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91959.78	95062.43	93311.88	93444.70	1.66	ppb
Antimony	121-1	2.55	2.65	2.60	2.60	1.99	ppb
Arsenic	75-2	0.36	0.38	0.47	0.40	14.81	ppb
Barium	135-1	12.15	12.46	12.18	12.26	1.40	ppb
Barium	137-1	12.12	12.48	12.36	12.32	1.50	ppb
Beryllium	9-1	0.30	0.25	0.30	0.28	9.78	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.96	6.94	6.77	6.89	1.53	ppb
Cadmium	106-1	-1.69	-0.46	-1.34	-1.16		ppb
Cadmium	111-1	0.14	0.22	0.13	0.16	29.35	ppb
Calcium	43-1	106270.12	106810.39	105016.55	106032.36	0.87	ppb
Calcium	44-1	104249.52	105967.61	103204.19	104473.77	1.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.28	19.75	19.46	19.50	1.22	ppb
Cobalt	59-2	1.20	1.21	1.25	1.22	1.90	ppb
Copper	63-2	11.92	12.14	11.88	11.98	1.20	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				110		%
Holmium	165-2				109		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	56-2	108392.14	109336.14	109323.77	109017.35	0.50	ppb
Iron	57-2	107332.38	110228.17	109167.50	108909.35	1.35	ppb
Iron	54-2	108534.30	110038.07	110876.08	109816.15	1.08	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5.14	5.11	5.01	5.09	1.29	ppb
Lead	207-1	4.55	4.68	4.56	4.60	1.54	ppb
Lead	208-1	4.79	4.83	4.74	4.79	0.88	ppb
Lithium	6-1				105		%
Magnesium	24-2	94922.12	97729.74	96819.44	96490.43	1.48	ppb
Manganese	55-2	6.90	7.26	7.24	7.14	2.83	ppb
Molybdenum	94-1	1675.49	1640.60	1727.08	1681.06	2.59	ppb
Molybdenum	95-1	2065.63	2030.34	2101.05	2065.67	1.71	ppb
Molybdenum	96-1	2005.07	1993.96	2042.29	2013.77	1.26	ppb
Molybdenum	97-1	2044.02	2006.62	2067.64	2039.42	1.51	ppb
Molybdenum	98-1	2089.58	2021.22	2063.31	2058.04	1.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.24	6.67	6.79	6.57	4.45	ppb
Phosphorus	31-2	102942.46	106331.57	104337.36	104537.13	1.63	ppb
Potassium	39-2	100198.01	102719.75	101906.87	101608.21	1.27	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	5.20	4.79	4.78	4.92	4.89	ppb
Selenium	77-2	0.21	-0.01	-0.02	0.06	218.14	ppb
Selenium	78-2	-2.90	-4.55	-2.79	-3.41		ppb
Silicon	28-1	-28.40	-26.48	-27.33	-27.40		ppb
Silver	107-1	0.03	0.04	0.03	0.03	14.15	ppb
Silver	109-1	0.04	0.04	0.04	0.04	6.09	ppb
Sodium	23-2	104175.39	106305.43	105214.02	105231.61	1.01	ppb
Strontium	86-1	852.30	840.28	857.14	849.91	1.02	ppb
Strontium	88-1	824.93	816.15	823.59	821.56	0.58	ppb
Sulfur	34-1	121900.95	125062.12	121517.21	122826.76	1.58	ppb
Terbium	159-1				109		%
Terbium	159-2				106		%
Thallium	203-1	0.17	0.19	0.19	0.18	5.70	ppb
Thallium	205-1	0.17	0.17	0.18	0.17	3.15	ppb
Tin	118-1	0.67	0.68	0.62	0.66	4.54	ppb
Titanium	47-1	2058.08	2070.39	2030.98	2053.15	0.98	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.04	0.04	0.04	2.15	ppb
Vanadium	51-2	0.22	0.22	0.25	0.23	8.00	ppb
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	17.95	17.31	17.95	17.74	2.08	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.51	ppb
Zirconium	91-1	0.05	0.02	0.04	0.04	33.23	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93263.16	93447.07	91748.24	92819.49	1.00	ppb
Antimony	121-1	20.05	20.76	20.14	20.32	1.89	ppb
Arsenic	75-2	20.44	20.87	20.88	20.73	1.22	ppb
Barium	135-1	20.13	21.47	20.14	20.58	3.75	ppb
Barium	137-1	20.66	20.55	20.16	20.45	1.29	ppb
Beryllium	9-1	18.99	19.41	19.84	19.41	2.21	ppb
Bismuth	209-1				104		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.55	26.14	24.46	24.72	5.32	ppb
Cadmium	106-1	17.63	20.03	16.90	18.18	8.99	ppb
Cadmium	111-1	19.12	20.20	19.22	19.52	3.07	ppb
Calcium	43-1	102608.08	105463.39	106194.36	104755.28	1.81	ppb
Calcium	44-1	102520.27	105605.94	104334.67	104153.62	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.65	38.65	38.72	38.67	0.10	ppb
Cobalt	59-2	20.44	20.60	20.58	20.54	0.45	ppb
Copper	63-2	28.67	29.19	28.50	28.79	1.24	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				108		%
Holmium	165-2				110		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	111661.29	112266.04	109771.84	111233.06	1.17	ppb
Iron	57-2	108121.84	111431.66	110760.22	110104.58	1.59	ppb
Iron	54-2	108375.49	110105.52	109237.44	109239.48	0.79	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	22.65	23.39	23.61	23.22	2.15	ppb
Lead	207-1	21.68	22.72	22.14	22.18	2.35	ppb
Lead	208-1	22.03	22.72	22.68	22.48	1.72	ppb
Lithium	6-1				101		%
Magnesium	24-2	95847.83	97932.01	96647.23	96809.02	1.09	ppb
Manganese	55-2	26.08	25.74	25.69	25.84	0.82	ppb
Molybdenum	94-1	1665.74	1699.08	1698.80	1687.87	1.14	ppb
Molybdenum	95-1	2038.74	2025.96	2064.92	2043.20	0.97	ppb
Molybdenum	96-1	2015.06	2012.22	2073.19	2033.49	1.69	ppb
Molybdenum	97-1	2078.56	2026.97	2062.55	2056.02	1.28	ppb
Molybdenum	98-1	2035.53	1998.56	2089.68	2041.25	2.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.18	26.73	26.22	26.38	1.17	ppb
Phosphorus	31-2	103869.77	102592.41	103381.64	103281.28	0.62	ppb
Potassium	39-2	102730.03	103103.95	101949.87	102594.62	0.57	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				106		%
Selenium	82-1	24.55	22.89	23.30	23.58	3.68	ppb
Selenium	77-2	17.13	21.53	24.26	20.97	17.16	ppb
Selenium	78-2	14.84	17.99	19.92	17.58	14.56	ppb
Silicon	28-1	-9.47	12.57	2.59	1.90	581.88	ppb
Silver	107-1	18.02	19.23	18.90	18.72	3.34	ppb
Silver	109-1	18.16	18.88	18.60	18.55	1.98	ppb
Sodium	23-2	105957.75	106174.76	103915.20	105349.24	1.18	ppb
Strontium	86-1	847.51	845.94	846.07	846.51	0.10	ppb
Strontium	88-1	828.60	818.75	827.31	824.89	0.65	ppb
Sulfur	34-1	119860.98	119144.20	123391.02	120798.73	1.88	ppb
Terbium	159-1				108		%
Terbium	159-2				109		%
Thallium	203-1	18.35	19.44	18.86	18.88	2.87	ppb
Thallium	205-1	18.33	18.93	18.70	18.65	1.63	ppb
Tin	118-1	0.72	0.71	0.66	0.70	4.38	ppb
Titanium	47-1	2046.90	2051.92	2050.59	2049.80	0.13	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.04	0.03	0.03	19.41	ppb
Vanadium	51-2	19.69	19.76	19.34	19.60	1.16	ppb
Yttrium	89-1				105		%
Yttrium	89-2				106		%
Zinc	66-2	27.72	28.63	28.49	28.28	1.74	ppb
Zirconium	90-1	0.09	0.09	0.08	0.09	4.35	ppb
Zirconium	91-1	0.10	0.11	0.13	0.11	12.56	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49139.41	49666.73	49740.39	49515.51	0.66	ppb
Antimony	121-1	510.80	507.08	523.45	513.78	1.67	ppb
Arsenic	75-2	499.87	489.20	502.97	497.35	1.45	ppb
Barium	135-1	2651.92	2597.43	2655.20	2634.85	1.23	ppb
Barium	137-1	2567.38	2565.85	2622.34	2585.19	1.24	ppb
Beryllium	9-1	516.58	515.11	517.96	516.55	0.28	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	492.84	489.26	505.52	495.87	1.72	ppb
Cadmium	106-1	504.19	494.05	501.04	499.76	1.04	ppb
Cadmium	111-1	500.83	495.08	501.20	499.04	0.69	ppb
Calcium	43-1	257363.65	257236.72	262152.44	258917.60	1.08	ppb
Calcium	44-1	257652.32	255874.79	259829.45	257785.52	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	518.68	509.74	523.78	517.40	1.37	ppb
Cobalt	59-2	515.11	508.35	513.46	512.31	0.69	ppb
Copper	63-2	5102.39	4910.25	5029.88	5014.17	1.94	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				112		%
Holmium	165-2				110		%
Indium	115-1				104		%
Indium	115-2				104		%
Iron	56-2	132284.13	131565.37	133826.36	132558.62	0.87	ppb
Iron	57-2	131852.60	132119.97	133949.65	132640.74	0.86	ppb
Iron	54-2	131127.31	131412.77	129995.17	130845.09	0.57	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2583.69	2587.16	2610.72	2593.86	0.57	ppb
Lead	207-1	2588.32	2606.87	2655.18	2616.79	1.32	ppb
Lead	208-1	2587.07	2599.73	2619.29	2602.03	0.62	ppb
Lithium	6-1				104		%
Magnesium	24-2	254375.42	251359.98	255080.98	253605.46	0.78	ppb
Manganese	55-2	5097.09	5041.86	5140.58	5093.18	0.97	ppb
Molybdenum	94-1	5238.95	5249.15	5269.77	5252.63	0.30	ppb
Molybdenum	95-1	5194.26	5177.28	5145.66	5172.40	0.48	ppb
Molybdenum	96-1	5219.10	5180.78	5199.47	5199.78	0.37	ppb
Molybdenum	97-1	5141.28	5155.72	5226.82	5174.61	0.88	ppb
Molybdenum	98-1	5071.31	5117.73	5104.16	5097.73	0.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	497.93	490.34	496.54	494.94	0.82	ppb
Phosphorus	31-2	10346.82	10119.62	10346.17	10270.87	1.28	ppb
Potassium	39-2	127447.60	125568.77	126673.82	126563.40	0.75	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				106		%
Scandium	45-2				111		%
Selenium	82-1	490.72	493.80	488.34	490.95	0.56	ppb
Selenium	77-2	476.52	472.99	482.70	477.40	1.03	ppb
Selenium	78-2	494.48	473.81	483.51	483.94	2.14	ppb
Silicon	28-1	424.07	419.18	430.71	424.65	1.36	ppb
Silver	107-1	486.01	480.52	501.70	489.41	2.25	ppb
Silver	109-1	498.07	490.92	497.94	495.64	0.83	ppb
Sodium	23-2	249991.69	249303.41	250107.57	249800.89	0.17	ppb
Strontium	86-1	11977.03	12140.06	12108.45	12075.18	0.72	ppb
Strontium	88-1	13001.01	13041.03	12883.48	12975.17	0.63	ppb
Sulfur	34-1	10041.99	9647.06	10024.73	9904.59	2.25	ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	526.04	531.24	528.06	528.45	0.50	ppb
Thallium	205-1	522.45	512.15	514.33	516.31	1.05	ppb
Tin	118-1	520.28	518.88	530.31	523.15	1.19	ppb
Titanium	47-1	5085.89	5011.10	5122.93	5073.31	1.12	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	538.80	525.06	537.98	533.95	1.44	ppb
Vanadium	51-2	477.59	477.91	477.52	477.67	0.04	ppb
Yttrium	89-1				106		%
Yttrium	89-2				108		%
Zinc	66-2	4931.55	4790.07	4860.27	4860.63	1.46	ppb
Zirconium	90-1	515.53	524.00	524.12	521.22	0.95	ppb
Zirconium	91-1	480.10	484.95	481.50	482.18	0.52	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.68	4.12	4.71	4.50	7.40	ppb
Antimony	121-1	0.06	0.05	0.05	0.05	11.41	ppb
Arsenic	75-2	0.03	-0.03	-0.05	-0.02		ppb
Barium	135-1	0.14	0.09	0.07	0.10	38.12	ppb
Barium	137-1	0.12	0.09	0.10	0.10	17.19	ppb
Beryllium	9-1	0.04	0.07	0.04	0.05	38.05	ppb
Bismuth	209-1				110		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.07	-0.02	0.02	205.53	ppb
Cadmium	106-1	-0.82	-0.68	-0.81	-0.77		ppb
Cadmium	111-1	-0.05	-0.02	-0.04	-0.04		ppb
Calcium	43-1	11.34	11.17	15.17	12.56	18.03	ppb
Calcium	44-1	15.48	11.52	11.66	12.89	17.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.03	0.05	0.04	34.02	ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	25.87	ppb
Copper	63-2	0.71	0.72	0.68	0.70	2.88	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				111		%
Holmium	165-2				113		%
Indium	115-1				112		%
Indium	115-2				110		%
Iron	56-2	8.74	8.30	8.13	8.39	3.72	ppb
Iron	57-2	4.70	5.50	3.38	4.53	23.63	ppb
Iron	54-2	9.15	6.82	7.00	7.66	17.00	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.09	0.11	0.09	0.09	14.52	ppb
Lead	207-1	0.16	0.12	0.12	0.13	18.51	ppb
Lead	208-1	0.12	0.11	0.11	0.11	4.86	ppb
Lithium	6-1				108		%
Magnesium	24-2	14.19	14.82	13.45	14.16	4.85	ppb
Manganese	55-2	0.20	0.22	0.24	0.22	10.07	ppb
Molybdenum	94-1	0.30	0.23	0.24	0.26	14.26	ppb
Molybdenum	95-1	0.30	0.27	0.24	0.27	10.54	ppb
Molybdenum	96-1	0.27	0.24	0.23	0.24	8.22	ppb
Molybdenum	97-1	0.35	0.24	0.25	0.28	22.69	ppb
Molybdenum	98-1	0.30	0.26	0.25	0.27	11.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.00	-0.01	-0.02		ppb
Phosphorus	31-2	-28.87	-30.19	-29.99	-29.68		ppb
Potassium	39-2	7.31	5.80	5.26	6.12	17.41	ppb
Rhodium	103-1				109		%
Rhodium	103-2				110		%
Scandium	45-1				107		%
Scandium	45-2				110		%
Selenium	82-1	0.12	0.39	0.13	0.21	71.46	ppb
Selenium	77-2	-0.25	-0.03	-0.02	-0.10		ppb
Selenium	78-2	0.34	-2.54	-1.49	-1.23		ppb
Silicon	28-1	-22.61	-28.56	-21.71	-24.29		ppb
Silver	107-1	0.03	0.03	0.02	0.03	24.50	ppb
Silver	109-1	0.03	0.03	0.02	0.03	18.10	ppb
Sodium	23-2	24.68	24.86	23.91	24.49	2.07	ppb
Strontium	86-1	0.43	0.08	-0.49	0.00	15613.80	ppb
Strontium	88-1	0.57	0.53	0.59	0.56	5.87	ppb
Sulfur	34-1	-829.34	-853.74	-676.09	-786.39		ppb
Terbium	159-1				111		%
Terbium	159-2				111		%
Thallium	203-1	0.13	0.11	0.10	0.11	13.16	ppb
Thallium	205-1	0.11	0.09	0.09	0.10	9.99	ppb
Tin	118-1	0.04	0.05	0.04	0.04	6.40	ppb
Titanium	47-1	0.26	0.26	0.18	0.23	19.02	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.02	0.02	0.03	39.18	ppb
Vanadium	51-2	0.03	0.02	0.02	0.02	13.16	ppb
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	0.29	0.13	0.11	0.18	54.58	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	16.07	ppb
Zirconium	91-1	0.05	0.03	0.02	0.03	51.53	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.90	24.51	22.68	23.03	5.82	ppb
Antimony	121-1	1.93	2.11	2.05	2.03	4.47	ppb
Arsenic	75-2	1.24	1.14	1.30	1.23	6.78	ppb
Barium	135-1	9.38	9.80	9.83	9.67	2.60	ppb
Barium	137-1	9.42	10.03	10.01	9.82	3.56	ppb
Beryllium	9-1	1.09	1.03	1.10	1.08	3.58	ppb
Bismuth	209-1				112		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.46	1.01	1.11	1.19	19.80	ppb
Cadmium	106-1	1.13	1.89	0.67	1.23	50.13	ppb
Cadmium	111-1	1.07	1.24	1.05	1.12	9.42	ppb
Calcium	43-1	523.69	530.16	520.01	524.62	0.98	ppb
Calcium	44-1	528.19	522.36	537.85	529.47	1.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.07	2.09	2.05	2.07	0.98	ppb
Cobalt	59-2	1.11	1.08	1.05	1.08	2.56	ppb
Copper	63-2	2.46	2.57	2.56	2.53	2.47	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				111		%
Holmium	165-2				112		%
Indium	115-1				110		%
Indium	115-2				110		%
Iron	56-2	60.54	63.41	63.04	62.33	2.50	ppb
Iron	57-2	60.48	65.03	67.51	64.34	5.54	ppb
Iron	54-2	61.14	67.26	64.97	64.46	4.79	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.97	0.99	0.98	0.98	1.08	ppb
Lead	207-1	0.98	0.96	1.03	0.99	3.21	ppb
Lead	208-1	0.99	1.00	0.99	0.99	0.42	ppb
Lithium	6-1				109		%
Magnesium	24-2	488.60	496.25	494.62	493.16	0.82	ppb
Manganese	55-2	1.16	1.20	1.20	1.19	1.84	ppb
Molybdenum	94-1	5.61	5.96	5.98	5.85	3.59	ppb
Molybdenum	95-1	4.92	5.08	5.03	5.01	1.61	ppb
Molybdenum	96-1	4.98	5.14	5.09	5.07	1.63	ppb
Molybdenum	97-1	5.04	4.91	5.05	5.00	1.59	ppb
Molybdenum	98-1	4.90	4.99	5.14	5.01	2.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.12	1.20	1.19	1.17	3.77	ppb
Phosphorus	31-2	-3.61	7.38	7.26	3.67	171.77	ppb
Potassium	39-2	504.26	512.73	513.46	510.15	1.00	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	5.35	4.62	5.48	5.15	9.06	ppb
Selenium	77-2	8.00	5.57	4.86	6.14	26.79	ppb
Selenium	78-2	5.23	2.07	2.26	3.18	55.63	ppb
Silicon	28-1	-27.94	-26.04	-20.36	-24.78		ppb
Silver	107-1	1.00	1.05	0.99	1.01	3.49	ppb
Silver	109-1	0.98	1.04	1.00	1.01	2.86	ppb
Sodium	23-2	496.59	496.79	503.47	498.95	0.78	ppb
Strontium	86-1	23.89	26.17	26.82	25.63	6.01	ppb
Strontium	88-1	24.38	25.81	25.68	25.29	3.13	ppb
Sulfur	34-1	-730.86	-725.69	-520.78	-659.11		ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	1.02	1.00	0.96	0.99	3.19	ppb
Thallium	205-1	0.96	1.02	0.97	0.99	3.31	ppb
Tin	118-1	5.00	5.21	5.02	5.08	2.26	ppb
Titanium	47-1	5.00	4.89	4.91	4.93	1.18	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.91	0.94	0.90	0.92	2.30	ppb
Vanadium	51-2	4.96	4.97	5.08	5.00	1.26	ppb
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	5.09	4.92	5.05	5.02	1.78	ppb
Zirconium	90-1	0.95	1.01	0.96	0.97	3.72	ppb
Zirconium	91-1	0.98	1.02	0.96	0.99	3.48	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.88	3.72	4.27	3.95	7.16	ppb
Antimony	121-1	0.02	0.03	0.03	0.03	19.81	ppb
Arsenic	75-2	-0.02	0.01	0.00	0.00		ppb
Barium	135-1	0.07	0.11	0.07	0.08	24.84	ppb
Barium	137-1	0.08	0.07	0.09	0.08	11.57	ppb
Beryllium	9-1	0.04	0.01	0.03	0.03	42.52	ppb
Bismuth	209-1				108		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	0.08	-0.05	0.03	264.02	ppb
Cadmium	106-1	-0.17	-0.86	-0.80	-0.61		ppb
Cadmium	111-1	0.00	-0.03	-0.03	-0.02		ppb
Calcium	43-1	8.75	9.05	6.38	8.06	18.16	ppb
Calcium	44-1	9.62	12.87	10.41	10.97	15.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.02	-0.02	0.02	202.00	ppb
Cobalt	59-2	0.01	0.00	0.02	0.01	76.88	ppb
Copper	63-2	0.42	0.43	0.40	0.42	4.00	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				109		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				107		%
Iron	56-2	6.28	6.06	6.03	6.12	2.22	ppb
Iron	57-2	2.84	5.13	4.89	4.29	29.38	ppb
Iron	54-2	4.63	7.82	5.58	6.01	27.33	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.06	0.06	0.05	10.90	ppb
Lead	207-1	0.05	0.07	0.08	0.06	25.61	ppb
Lead	208-1	0.05	0.07	0.07	0.06	20.38	ppb
Lithium	6-1				107		%
Magnesium	24-2	11.68	12.33	11.81	11.94	2.87	ppb
Manganese	55-2	0.17	0.10	0.20	0.15	32.40	ppb
Molybdenum	94-1	0.19	0.19	0.22	0.20	6.31	ppb
Molybdenum	95-1	0.15	0.19	0.17	0.17	11.79	ppb
Molybdenum	96-1	0.15	0.19	0.18	0.17	11.71	ppb
Molybdenum	97-1	0.21	0.21	0.13	0.18	24.31	ppb
Molybdenum	98-1	0.16	0.19	0.18	0.18	8.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.03	-0.05	-0.05		ppb
Phosphorus	31-2	-37.69	-30.52	-34.12	-34.11		ppb
Potassium	39-2	4.92	6.92	5.06	5.63	19.86	ppb
Rhodium	103-1				107		%
Rhodium	103-2				107		%
Scandium	45-1				106		%
Scandium	45-2				108		%
Selenium	82-1	-0.12	0.55	0.70	0.38	116.01	ppb
Selenium	77-2	-0.25	-0.25	0.46	-0.01		ppb
Selenium	78-2	-2.19	-0.71	-2.10	-1.67		ppb
Silicon	28-1	-27.27	-22.50	-22.94	-24.24		ppb
Silver	107-1	0.01	0.02	0.02	0.01	21.20	ppb
Silver	109-1	0.02	0.02	0.01	0.02	18.14	ppb
Sodium	23-2	19.52	19.54	19.90	19.66	1.10	ppb
Strontium	86-1	-0.84	0.09	-1.35	-0.70		ppb
Strontium	88-1	0.41	0.26	0.43	0.37	25.35	ppb
Sulfur	34-1	-705.62	-643.32	-601.30	-650.08		ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	0.09	0.09	0.09	0.09	4.55	ppb
Thallium	205-1	0.08	0.08	0.09	0.08	3.94	ppb
Tin	118-1	0.04	0.03	0.01	0.03	50.71	ppb
Titanium	47-1	0.17	0.16	0.17	0.16	5.15	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	12.11	ppb
Vanadium	51-2	0.02	0.02	0.02	0.02	16.73	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	0.19	0.41	0.15	0.25	56.39	ppb
Zirconium	90-1	0.02	0.01	0.01	0.01	15.74	ppb
Zirconium	91-1	0.01	0.01	0.02	0.01	24.21	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9399.06	9506.87	9761.44	9555.79	1.95	ppb
Antimony	121-1	504.76	524.72	510.05	513.18	2.01	ppb
Arsenic	75-2	493.16	505.59	505.28	501.34	1.41	ppb
Barium	135-1	2516.30	2525.72	2494.36	2512.12	0.64	ppb
Barium	137-1	2452.04	2522.45	2524.41	2499.63	1.65	ppb
Beryllium	9-1	486.70	494.66	496.17	492.51	1.03	ppb
Bismuth	209-1				108		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	501.99	511.40	510.10	507.83	1.00	ppb
Cadmium	106-1	494.65	502.38	507.12	501.39	1.26	ppb
Cadmium	111-1	502.98	512.54	502.72	506.08	1.11	ppb
Calcium	43-1	48380.03	47926.15	47696.70	48000.96	0.72	ppb
Calcium	44-1	50867.90	50834.85	50142.87	50615.21	0.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	511.30	498.31	503.84	504.48	1.29	ppb
Cobalt	59-2	506.92	500.79	518.74	508.82	1.79	ppb
Copper	63-2	5079.65	5141.27	5087.10	5102.67	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				110		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	56-2	26850.17	26516.17	26843.71	26736.68	0.71	ppb
Iron	57-2	26936.39	26428.23	26841.63	26735.42	1.01	ppb
Iron	54-2	26949.08	26878.60	26588.70	26805.46	0.71	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2435.03	2521.08	2527.64	2494.58	2.07	ppb
Lead	207-1	2459.56	2490.41	2565.00	2504.99	2.16	ppb
Lead	208-1	2452.08	2487.15	2544.97	2494.73	1.88	ppb
Lithium	6-1				107		%
Magnesium	24-2	49840.33	49604.70	50509.09	49984.71	0.94	ppb
Manganese	55-2	4987.57	5112.78	5070.59	5056.98	1.26	ppb
Molybdenum	94-1	4938.40	4951.15	5069.61	4986.39	1.45	ppb
Molybdenum	95-1	4974.95	5016.04	5007.65	4999.55	0.43	ppb
Molybdenum	96-1	4958.19	4967.20	5024.31	4983.24	0.72	ppb
Molybdenum	97-1	4990.90	4997.62	4998.19	4995.57	0.08	ppb
Molybdenum	98-1	4985.63	4901.12	4963.24	4950.00	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	507.21	500.84	502.13	503.39	0.67	ppb
Phosphorus	31-2	10016.73	9943.99	10116.12	10025.61	0.86	ppb
Potassium	39-2	25610.96	24628.09	25186.61	25141.89	1.96	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				110		%
Selenium	82-1	504.36	505.69	509.26	506.44	0.50	ppb
Selenium	77-2	483.99	502.81	521.73	502.84	3.75	ppb
Selenium	78-2	489.83	498.79	506.97	498.53	1.72	ppb
Silicon	28-1	526.13	546.67	533.33	535.38	1.95	ppb
Silver	107-1	512.93	502.21	510.35	508.50	1.10	ppb
Silver	109-1	514.24	513.38	519.92	515.85	0.69	ppb
Sodium	23-2	50155.93	50687.44	50201.14	50348.17	0.59	ppb
Strontium	86-1	11642.71	11677.75	11649.42	11656.63	0.16	ppb
Strontium	88-1	12478.89	12446.22	12489.80	12471.64	0.18	ppb
Sulfur	34-1	9092.69	8986.77	8744.16	8941.20	2.00	ppb
Terbium	159-1				109		%
Terbium	159-2				110		%
Thallium	203-1	475.73	503.93	502.37	494.01	3.21	ppb
Thallium	205-1	479.60	498.68	502.53	493.60	2.49	ppb
Tin	118-1	503.52	517.69	504.09	508.43	1.58	ppb
Titanium	47-1	4883.54	4952.89	4914.61	4917.01	0.71	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	477.88	486.89	496.23	487.00	1.88	ppb
Vanadium	51-2	468.76	466.39	466.59	467.25	0.28	ppb
Yttrium	89-1				107		%
Yttrium	89-2				108		%
Zinc	66-2	5108.90	5136.31	5005.20	5083.47	1.36	ppb
Zirconium	90-1	500.11	499.58	511.05	503.58	1.29	ppb
Zirconium	91-1	462.87	460.41	461.94	461.74	0.27	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	669.32	654.25	661.65	661.74	1.14	ppb
Antimony	121-1	0.24	0.27	0.26	0.26	6.15	ppb
Arsenic	75-2	0.38	0.42	0.35	0.38	9.31	ppb
Barium	135-1	42.07	43.52	42.49	42.69	1.74	ppb
Barium	137-1	42.26	43.60	42.25	42.71	1.81	ppb
Beryllium	9-1	0.04	0.09	0.08	0.07	34.04	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.24	0.21	0.11	0.18	36.52	ppb
Cadmium	106-1	-0.21	-0.98	-0.71	-0.64		ppb
Cadmium	111-1	0.06	0.00	0.05	0.04	85.36	ppb
Calcium	43-1	16483.80	16670.02	16633.33	16595.71	0.59	ppb
Calcium	44-1	17140.72	17359.35	17623.15	17374.41	1.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.16	4.43	4.17	4.26	3.61	ppb
Cobalt	59-2	0.91	0.91	0.93	0.91	1.20	ppb
Copper	63-2	8.40	8.68	8.61	8.56	1.67	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				109		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	56-2	52594.59	52586.56	51370.06	52183.74	1.35	ppb
Iron	57-2	52574.66	51771.52	51005.25	51783.81	1.52	ppb
Iron	54-2	52466.39	53193.66	52250.93	52636.99	0.94	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.35	1.33	1.22	1.30	5.46	ppb
Lead	207-1	1.27	1.29	1.30	1.29	0.95	ppb
Lead	208-1	1.29	1.29	1.28	1.29	0.60	ppb
Lithium	6-1				105		%
Magnesium	24-2	814.95	791.01	808.43	804.80	1.54	ppb
Manganese	55-2	228.21	227.37	229.17	228.25	0.39	ppb
Molybdenum	94-1	3.10	3.22	2.99	3.10	3.77	ppb
Molybdenum	95-1	2.31	2.41	2.41	2.38	2.53	ppb
Molybdenum	96-1	3.27	3.29	3.22	3.26	1.17	ppb
Molybdenum	97-1	2.33	2.41	2.44	2.39	2.32	ppb
Molybdenum	98-1	2.37	2.33	2.37	2.35	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.16	3.07	2.95	3.06	3.48	ppb
Phosphorus	31-2	-17.32	-4.06	-14.30	-11.89		ppb
Potassium	39-2	2943.03	2938.48	2940.75	2940.75	0.08	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				106		%
Scandium	45-2				108		%
Selenium	82-1	22.18	21.86	22.03	22.02	0.74	ppb
Selenium	77-2	0.43	-0.25	-0.02	0.05	652.21	ppb
Selenium	78-2	-4.64	-2.10	-2.49	-3.08		ppb
Silicon	28-1	428.86	435.82	446.37	437.02	2.02	ppb
Silver	107-1	0.06	0.07	0.07	0.06	9.59	ppb
Silver	109-1	0.06	0.06	0.06	0.06	3.48	ppb
Sodium	23-2	805061.18	797377.95	794093.00	798844.04	0.70	ppb
Strontium	86-1	3963.95	4022.72	4005.88	3997.52	0.76	ppb
Strontium	88-1	4276.16	4316.46	4317.19	4303.27	0.55	ppb
Sulfur	34-1	863.25	1103.97	1285.34	1084.19	19.53	ppb
Terbium	159-1				109		%
Terbium	159-2				110		%
Thallium	203-1	0.14	0.14	0.17	0.15	11.20	ppb
Thallium	205-1	0.13	0.12	0.14	0.13	6.99	ppb
Tin	118-1	2.47	2.44	2.09	2.33	8.99	ppb
Titanium	47-1	33.63	35.20	34.99	34.61	2.47	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.05	0.05	0.05	0.05	1.70	ppb
Vanadium	51-2	1.86	1.81	1.90	1.85	2.43	ppb
Yttrium	89-1				105		%
Yttrium	89-2				108		%
Zinc	66-2	211.30	210.88	210.85	211.01	0.12	ppb
Zirconium	90-1	0.61	0.59	0.64	0.61	4.24	ppb
Zirconium	91-1	0.58	0.61	0.65	0.61	5.95	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	82.34	84.53	79.65	82.18	2.97	ppb
Antimony	121-1	0.25	0.30	0.24	0.26	11.03	ppb
Arsenic	75-2	0.13	0.06	-0.02	0.06	136.92	ppb
Barium	135-1	11.45	12.06	11.93	11.81	2.72	ppb
Barium	137-1	11.78	12.11	12.34	12.08	2.33	ppb
Beryllium	9-1	0.05	0.02	0.03	0.03	37.52	ppb
Bismuth	209-1				111		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.13	0.16	0.27	0.19	41.03	ppb
Cadmium	106-1	0.13	-0.02	-0.02	0.03	311.70	ppb
Cadmium	111-1	0.17	0.16	0.17	0.17	4.75	ppb
Calcium	43-1	3827.94	4034.30	4067.62	3976.62	3.27	ppb
Calcium	44-1	3964.74	4171.58	4311.21	4149.18	4.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.21	0.20	0.18	0.20	8.21	ppb
Cobalt	59-2	0.34	0.33	0.32	0.33	3.52	ppb
Copper	63-2	4.02	4.22	4.00	4.08	3.03	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				115		%
Holmium	165-2				115		%
Indium	115-1				115		%
Indium	115-2				112		%
Iron	56-2	762.96	766.82	763.61	764.46	0.27	ppb
Iron	57-2	729.57	733.40	734.26	732.41	0.34	ppb
Iron	54-2	704.35	724.75	705.01	711.37	1.63	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.17	1.19	1.28	1.21	4.62	ppb
Lead	207-1	1.22	1.19	1.31	1.24	4.96	ppb
Lead	208-1	1.18	1.23	1.27	1.23	3.69	ppb
Lithium	6-1				113		%
Magnesium	24-2	169.91	166.54	169.08	168.51	1.04	ppb
Manganese	55-2	66.59	67.49	66.69	66.92	0.74	ppb
Molybdenum	94-1	0.23	0.26	0.38	0.29	27.02	ppb
Molybdenum	95-1	0.23	0.25	0.38	0.29	28.12	ppb
Molybdenum	96-1	0.24	0.26	0.35	0.28	20.57	ppb
Molybdenum	97-1	0.28	0.26	0.40	0.32	22.75	ppb
Molybdenum	98-1	0.26	0.27	0.32	0.29	10.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.18	1.18	1.21	1.19	1.58	ppb
Phosphorus	31-2	-24.39	-24.00	-29.99	-26.13		ppb
Potassium	39-2	1349.16	1369.93	1365.14	1361.41	0.80	ppb
Rhodium	103-1				113		%
Rhodium	103-2				111		%
Scandium	45-1				113		%
Scandium	45-2				114		%
Selenium	82-1	3.16	3.38	3.54	3.36	5.67	ppb
Selenium	77-2	-0.25	-0.25	-0.03	-0.18		ppb
Selenium	78-2	-2.87	-0.31	-2.85	-2.01		ppb
Silicon	28-1	47.43	53.01	58.48	52.97	10.43	ppb
Silver	107-1	0.02	0.03	0.02	0.02	16.63	ppb
Silver	109-1	0.02	0.03	0.03	0.02	1.64	ppb
Sodium	23-2	145953.87	149400.95	150875.85	148743.56	1.70	ppb
Strontium	86-1	601.84	631.08	657.30	630.07	4.40	ppb
Strontium	88-1	576.92	622.79	630.22	609.98	4.73	ppb
Sulfur	34-1	28.94	127.99	216.49	124.47	75.38	ppb
Terbium	159-1				116		%
Terbium	159-2				113		%
Thallium	203-1	0.07	0.10	0.10	0.09	20.87	ppb
Thallium	205-1	0.07	0.09	0.08	0.08	12.16	ppb
Tin	118-1	0.27	0.29	0.27	0.28	3.49	ppb
Titanium	47-1	0.55	0.47	0.54	0.52	8.63	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.03	0.03	19.36	ppb
Vanadium	51-2	0.14	0.10	0.13	0.12	19.44	ppb
Yttrium	89-1				113		%
Yttrium	89-2				114		%
Zinc	66-2	108.78	109.04	108.01	108.61	0.49	ppb
Zirconium	90-1	0.02	0.03	0.05	0.03	37.94	ppb
Zirconium	91-1	0.03	0.03	0.05	0.04	37.11	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	210.13	213.40	215.07	212.86	1.18	ppb
Antimony	121-1	34.68	35.32	35.22	35.07	0.98	ppb
Arsenic	75-2	59.55	62.14	61.39	61.03	2.19	ppb
Barium	135-1	56.39	56.89	56.32	56.53	0.56	ppb
Barium	137-1	55.03	55.55	56.46	55.68	1.30	ppb
Beryllium	9-1	0.06	0.08	0.00	0.05	83.74	ppb
Bismuth	209-1				49		%
Bismuth	209-2				49		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	295.26	296.92	304.64	298.94	1.67	ppb
Cadmium	106-1	-0.91	-1.44	-0.17	-0.84		ppb
Cadmium	111-1	9.24	9.71	9.59	9.51	2.58	ppb
Calcium	43-1	1177.61	1136.01	1137.18	1150.27	2.06	ppb
Calcium	44-1	1734.82	1800.15	1824.87	1786.61	2.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.02	6.08	6.28	6.12	2.19	ppb
Cobalt	59-2	0.03	0.03	0.04	0.03	26.30	ppb
Copper	63-2	63.53	63.19	64.11	63.61	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				59		%
Holmium	165-2				59		%
Indium	115-1				57		%
Indium	115-2				57		%
Iron	56-2	184.19	185.57	186.54	185.43	0.64	ppb
Iron	57-2	194.03	192.29	205.32	197.21	3.59	ppb
Iron	54-2	193.61	202.19	194.84	196.88	2.36	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.45	4.31	4.57	4.45	2.93	ppb
Lead	207-1	4.32	4.16	4.36	4.28	2.47	ppb
Lead	208-1	4.31	4.32	4.44	4.36	1.63	ppb
Lithium	6-1				64		%
Magnesium	24-2	523.41	530.99	533.83	529.41	1.02	ppb
Manganese	55-2	42.67	42.80	42.47	42.65	0.38	ppb
Molybdenum	94-1	73064.82	73835.50	74354.58	73751.63	0.88	ppb
Molybdenum	95-1	90450.50	90919.73	91113.85	90828.03	0.38	ppb
Molybdenum	96-1	89373.77	90935.14	89266.75	89858.56	1.04	ppb
Molybdenum	97-1	90111.86	92015.11	90736.17	90954.38	1.07	ppb
Molybdenum	98-1	90752.55	91349.38	90121.02	90740.98	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.49	1.55	1.39	1.48	5.60	ppb
Phosphorus	31-2	4783.42	4864.24	4884.45	4844.04	1.10	ppb
Potassium	39-2	1344142.91	1347187.04	1355470.55	1348933.50	0.43	ppb
Rhodium	103-1				55		%
Rhodium	103-2				50		%
Scandium	45-1				52		%
Scandium	45-2				60		%
Selenium	82-1	145.69	180.47	190.83	172.33	13.72	ppb
Selenium	77-2	228.93	240.09	232.61	233.88	2.43	ppb
Selenium	78-2	247.11	245.96	243.52	245.53	0.75	ppb
Silicon	28-1	6145.74	6611.82	7076.22	6611.26	7.04	ppb
Silver	107-1	0.12	0.14	0.12	0.13	7.97	ppb
Silver	109-1	0.16	0.16	0.17	0.16	1.07	ppb
Sodium	23-2	965126.22	1003084.05	971619.53	979943.27	2.07	ppb
Strontium	86-1	330.60	332.90	338.42	333.97	1.20	ppb
Strontium	88-1	310.31	320.76	317.69	316.26	1.70	ppb
Sulfur	34-1	10475.21	10783.00	10718.66	10658.96	1.52	ppb
Terbium	159-1				58		%
Terbium	159-2				58		%
Thallium	203-1	0.62	0.56	0.56	0.58	5.35	ppb
Thallium	205-1	0.58	0.57	0.53	0.56	4.85	ppb
Tin	118-1	3.79	3.76	3.86	3.81	1.31	ppb
Titanium	47-1	8.84	9.43	8.78	9.02	3.96	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.05	0.03	0.04	0.04	16.11	ppb
Vanadium	51-2	1.22	1.20	1.31	1.24	4.63	ppb
Yttrium	89-1				58		%
Yttrium	89-2				53		%
Zinc	66-2	343.52	343.71	347.54	344.93	0.66	ppb
Zirconium	90-1	0.94	0.94	0.96	0.95	1.11	ppb
Zirconium	91-1	0.92	0.88	1.00	0.93	6.80	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.19	11.97	12.01	11.72	3.98	ppb
Antimony	121-1	2.00	1.99	2.02	2.00	0.81	ppb
Arsenic	75-2	2.49	2.43	2.31	2.41	3.89	ppb
Barium	135-1	3.23	3.28	3.35	3.28	1.79	ppb
Barium	137-1	3.30	3.32	3.42	3.34	1.93	ppb
Beryllium	9-1	-0.01	0.04	0.00	0.01	248.26	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.62	17.64	16.51	16.92	3.68	ppb
Cadmium	106-1	-2.01	-1.46	-2.73	-2.07		ppb
Cadmium	111-1	0.37	0.44	0.37	0.39	11.04	ppb
Calcium	43-1	62.60	53.73	63.26	59.87	8.89	ppb
Calcium	44-1	98.74	103.81	103.53	102.02	2.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.47	0.43	0.44	0.45	4.70	ppb
Cobalt	59-2	-0.03	-0.04	-0.04	-0.03		ppb
Copper	63-2	4.25	3.88	4.15	4.09	4.62	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				99		%
Iron	56-2	10.94	11.25	11.03	11.07	1.40	ppb
Iron	57-2	12.14	11.47	6.16	9.92	33.03	ppb
Iron	54-2	13.18	11.42	12.68	12.42	7.29	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.19	0.18	0.25	0.21	17.96	ppb
Lead	207-1	0.21	0.23	0.24	0.22	5.72	ppb
Lead	208-1	0.21	0.21	0.24	0.22	7.78	ppb
Lithium	6-1				100		%
Magnesium	24-2	32.06	32.28	31.60	31.98	1.08	ppb
Manganese	55-2	2.00	2.04	1.92	1.99	3.17	ppb
Molybdenum	94-1	4369.69	4382.74	4416.29	4389.57	0.55	ppb
Molybdenum	95-1	5252.13	5355.50	5467.94	5358.52	2.01	ppb
Molybdenum	96-1	5149.05	5335.45	5356.97	5280.49	2.17	ppb
Molybdenum	97-1	5307.19	5436.82	5388.26	5377.43	1.22	ppb
Molybdenum	98-1	5311.98	5380.39	5448.85	5380.41	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.25	0.27	0.14	0.22	31.81	ppb
Phosphorus	31-2	255.22	225.22	206.81	229.08	10.67	ppb
Potassium	39-2	81031.74	81143.97	80996.01	81057.24	0.10	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	11.70	12.08	13.43	12.40	7.33	ppb
Selenium	77-2	15.61	14.99	16.43	15.68	4.60	ppb
Selenium	78-2	14.79	12.81	16.97	14.86	14.00	ppb
Silicon	28-1	316.17	332.28	325.92	324.79	2.50	ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.56	ppb
Silver	109-1	0.02	0.01	0.02	0.01	31.18	ppb
Sodium	23-2	59681.83	59101.09	60179.09	59654.00	0.90	ppb
Strontium	86-1	20.65	20.97	19.26	20.29	4.47	ppb
Strontium	88-1	18.63	19.02	19.67	19.11	2.76	ppb
Sulfur	34-1	-1105.39	-1043.40	-1126.70	-1091.83		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.07	0.08	0.07	0.07	9.77	ppb
Thallium	205-1	0.08	0.07	0.07	0.07	5.87	ppb
Tin	118-1	0.12	0.09	0.13	0.11	17.12	ppb
Titanium	47-1	0.51	0.45	0.45	0.47	7.70	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	20.29	ppb
Vanadium	51-2	0.09	0.08	0.10	0.09	12.04	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	21.26	22.26	22.01	21.85	2.38	ppb
Zirconium	90-1	0.05	0.06	0.06	0.06	4.50	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	4.03	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	107.72	104.69	105.88	106.10	1.44	ppb
Antimony	121-1	5.72	5.63	5.65	5.67	0.78	ppb
Arsenic	75-2	0.76	0.80	0.70	0.75	6.72	ppb
Barium	135-1	5.70	5.29	5.11	5.37	5.62	ppb
Barium	137-1	5.36	5.22	5.30	5.29	1.35	ppb
Beryllium	9-1	0.27	0.26	0.29	0.28	4.53	ppb
Bismuth	209-1				110		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.90	0.81	0.88	0.87	5.62	ppb
Cadmium	106-1	0.18	0.07	0.21	0.15	50.21	ppb
Cadmium	111-1	0.33	0.34	0.34	0.34	1.57	ppb
Calcium	43-1	1904.98	1781.74	1866.98	1851.23	3.41	ppb
Calcium	44-1	1904.56	1783.81	1826.44	1838.27	3.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.75	1.79	1.78	1.77	1.07	ppb
Cobalt	59-2	0.37	0.36	0.38	0.37	3.25	ppb
Copper	63-2	3.40	3.38	3.29	3.35	1.69	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				113		%
Holmium	165-2				111		%
Indium	115-1				113		%
Indium	115-2				112		%
Iron	56-2	5433.65	5554.66	5518.96	5502.42	1.13	ppb
Iron	57-2	5153.41	5160.51	5190.61	5168.18	0.38	ppb
Iron	54-2	5127.19	5186.36	5182.28	5165.28	0.64	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	56.42	54.76	53.93	55.04	2.30	ppb
Lead	207-1	54.81	52.87	52.07	53.25	2.65	ppb
Lead	208-1	55.20	53.22	53.24	53.89	2.11	ppb
Lithium	6-1				112		%
Magnesium	24-2	101.90	102.65	106.58	103.71	2.42	ppb
Manganese	55-2	26.32	26.40	26.57	26.43	0.49	ppb
Molybdenum	94-1	2.90	2.82	2.53	2.75	7.11	ppb
Molybdenum	95-1	3.33	3.14	2.67	3.05	11.17	ppb
Molybdenum	96-1	3.19	3.03	2.62	2.95	9.85	ppb
Molybdenum	97-1	3.31	2.99	2.70	3.00	10.30	ppb
Molybdenum	98-1	3.27	3.09	2.63	3.00	11.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	45.17	45.34	44.98	45.16	0.40	ppb
Phosphorus	31-2	36.09	45.03	44.92	42.02	12.21	ppb
Potassium	39-2	436.12	450.75	451.27	446.05	1.93	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				110		%
Scandium	45-2				113		%
Selenium	82-1	7.36	7.57	7.37	7.44	1.60	ppb
Selenium	77-2	5.39	5.55	5.02	5.32	5.16	ppb
Selenium	78-2	3.56	4.57	2.71	3.62	25.73	ppb
Silicon	28-1	67.06	51.46	55.64	58.05	13.91	ppb
Silver	107-1	0.12	0.12	0.11	0.11	5.34	ppb
Silver	109-1	0.13	0.10	0.11	0.11	14.14	ppb
Sodium	23-2	82170.12	84989.50	80657.26	82605.63	2.66	ppb
Strontium	86-1	422.01	408.19	409.73	413.31	1.83	ppb
Strontium	88-1	402.38	393.33	392.71	396.14	1.37	ppb
Sulfur	34-1	-1252.28	-1509.82	-1315.67	-1359.26		ppb
Terbium	159-1				111		%
Terbium	159-2				113		%
Thallium	203-1	0.17	0.16	0.14	0.16	8.59	ppb
Thallium	205-1	0.16	0.15	0.16	0.16	4.37	ppb
Tin	118-1	1.53	1.48	1.47	1.49	2.04	ppb
Titanium	47-1	5.13	4.42	4.65	4.73	7.65	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.10	0.09	0.09	0.09	8.85	ppb
Vanadium	51-2	0.46	0.52	0.44	0.47	8.72	ppb
Yttrium	89-1				111		%
Yttrium	89-2				112		%
Zinc	66-2	875.44	870.61	880.89	875.65	0.59	ppb
Zirconium	90-1	0.11	0.12	0.12	0.12	3.50	ppb
Zirconium	91-1	0.14	0.12	0.11	0.12	11.45	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50341.22	49810.97	49744.81	49965.67	0.65	ppb
Antimony	121-1	488.46	510.89	519.00	506.12	3.13	ppb
Arsenic	75-2	486.13	499.40	522.78	502.77	3.69	ppb
Barium	135-1	2423.33	2538.33	2596.92	2519.52	3.51	ppb
Barium	137-1	2436.51	2520.56	2595.75	2517.61	3.16	ppb
Beryllium	9-1	479.02	513.28	514.63	502.31	4.02	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	469.30	500.80	503.46	491.19	3.87	ppb
Cadmium	106-1	468.59	492.73	509.18	490.16	4.17	ppb
Cadmium	111-1	467.61	492.53	501.88	487.34	3.63	ppb
Calcium	43-1	245880.15	256797.39	259667.28	254114.94	2.86	ppb
Calcium	44-1	240052.58	255858.16	257318.44	251076.39	3.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	519.03	506.31	517.17	514.17	1.34	ppb
Cobalt	59-2	508.74	504.24	522.12	511.70	1.82	ppb
Copper	63-2	4977.38	4988.55	5031.83	4999.25	0.58	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				113		%
Holmium	165-2				111		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	56-2	130931.39	130507.40	132188.67	131209.16	0.67	ppb
Iron	57-2	131324.28	134900.04	134954.25	133726.19	1.56	ppb
Iron	54-2	130496.97	134413.39	132658.83	132523.06	1.48	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2443.87	2561.78	2560.62	2522.09	2.69	ppb
Lead	207-1	2427.59	2580.36	2556.98	2521.64	3.26	ppb
Lead	208-1	2432.41	2566.25	2587.39	2528.68	3.32	ppb
Lithium	6-1				111		%
Magnesium	24-2	248561.28	256476.77	249641.03	251559.69	1.71	ppb
Manganese	55-2	5047.38	5097.93	5092.95	5079.42	0.55	ppb
Molybdenum	94-1	4846.47	5203.87	5259.00	5103.11	4.39	ppb
Molybdenum	95-1	4836.85	5079.62	5209.12	5041.86	3.75	ppb
Molybdenum	96-1	4826.83	5060.86	5233.16	5040.28	4.05	ppb
Molybdenum	97-1	4777.26	5145.46	5251.11	5057.94	4.92	ppb
Molybdenum	98-1	4767.64	5080.86	5173.20	5007.24	4.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.51	489.99	505.62	496.04	1.69	ppb
Phosphorus	31-2	10368.55	10312.79	10289.53	10323.62	0.39	ppb
Potassium	39-2	127245.78	126994.87	125259.56	126500.07	0.86	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				111		%
Scandium	45-2				113		%
Selenium	82-1	473.64	496.39	503.00	491.01	3.14	ppb
Selenium	77-2	483.20	496.88	523.22	501.10	4.06	ppb
Selenium	78-2	474.78	491.08	516.40	494.09	4.24	ppb
Silicon	28-1	413.69	464.96	487.42	455.36	8.30	ppb
Silver	107-1	458.96	482.61	487.28	476.28	3.19	ppb
Silver	109-1	460.96	491.13	486.27	479.45	3.38	ppb
Sodium	23-2	253289.26	250448.31	257117.20	253618.26	1.32	ppb
Strontium	86-1	11127.25	11866.84	12138.38	11710.82	4.47	ppb
Strontium	88-1	12094.25	12545.16	13167.15	12602.18	4.27	ppb
Sulfur	34-1	9236.62	9874.43	10186.69	9765.91	4.96	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	488.92	512.84	524.44	508.73	3.56	ppb
Thallium	205-1	486.93	509.50	528.86	508.43	4.13	ppb
Tin	118-1	483.16	524.73	524.97	510.95	4.71	ppb
Titanium	47-1	4714.72	4970.08	5000.05	4894.95	3.20	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	489.53	510.41	521.49	507.14	3.20	ppb
Vanadium	51-2	471.91	478.19	482.19	477.43	1.08	ppb
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	4786.73	4906.67	4814.04	4835.81	1.30	ppb
Zirconium	90-1	481.36	519.27	532.31	510.98	5.18	ppb
Zirconium	91-1	445.73	474.98	484.88	468.53	4.34	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.79	1.00	0.26	0.68	55.72	ppb
Antimony	121-1	0.04	0.02	0.04	0.03	23.80	ppb
Arsenic	75-2	0.05	0.00	0.09	0.05	95.22	ppb
Barium	135-1	-0.01	-0.01	0.01	0.00		ppb
Barium	137-1	0.03	0.00	0.00	0.01	139.11	ppb
Beryllium	9-1	0.03	0.01	0.02	0.02	47.33	ppb
Bismuth	209-1				105		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	-0.01	0.05	0.04	121.03	ppb
Cadmium	106-1	-0.89	-1.08	-1.45	-1.14		ppb
Cadmium	111-1	-0.06	-0.07	-0.11	-0.08		ppb
Calcium	43-1	-3.54	-2.63	-0.74	-2.30		ppb
Calcium	44-1	1.45	1.85	2.05	1.78	16.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.00	0.03	0.02	76.44	ppb
Cobalt	59-2	-0.03	-0.04	-0.04	-0.03		ppb
Copper	63-2	0.18	0.19	0.14	0.17	15.00	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				103		%
Holmium	165-2				105		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	56-2	0.29	0.43	0.24	0.32	31.97	ppb
Iron	57-2	-3.29	0.29	1.78	-0.41		ppb
Iron	54-2	0.15	0.21	0.76	0.37	90.16	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	-0.03	-0.03	-0.02		ppb
Lead	207-1	-0.01	-0.02	-0.02	-0.02		ppb
Lead	208-1	-0.02	-0.03	-0.02	-0.02		ppb
Lithium	6-1				107		%
Magnesium	24-2	2.02	1.73	2.33	2.03	14.64	ppb
Manganese	55-2	0.02	0.02	0.00	0.01	61.08	ppb
Molybdenum	94-1	0.80	0.97	0.60	0.79	23.49	ppb
Molybdenum	95-1	0.94	1.18	0.65	0.92	28.82	ppb
Molybdenum	96-1	0.94	1.13	0.64	0.91	27.16	ppb
Molybdenum	97-1	0.91	1.19	0.68	0.93	27.55	ppb
Molybdenum	98-1	0.91	1.16	0.62	0.90	30.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	-0.02	0.02	0.01	354.52	ppb
Phosphorus	31-2	-31.84	-28.65	-22.99	-27.83		ppb
Potassium	39-2	20.78	30.22	22.06	24.35	21.04	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				106		%
Selenium	82-1	1.62	2.01	1.59	1.74	13.29	ppb
Selenium	77-2	1.61	1.40	1.60	1.54	7.69	ppb
Selenium	78-2	-0.40	0.79	-0.10	0.10	614.50	ppb
Silicon	28-1	-5.24	-3.42	-2.61	-3.76		ppb
Silver	107-1	0.01	0.00	0.00	0.00	126.50	ppb
Silver	109-1	0.00	0.01	0.00	0.00	92.19	ppb
Sodium	23-2	36.04	45.79	41.56	41.13	11.89	ppb
Strontium	86-1	0.58	-0.75	-0.40	-0.19		ppb
Strontium	88-1	0.15	0.12	0.08	0.12	29.34	ppb
Sulfur	34-1	-647.09	-604.65	-539.30	-597.01		ppb
Terbium	159-1				103		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.02	0.02	0.02	9.64	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	25.08	ppb
Tin	118-1	0.02	0.00	0.03	0.02	104.80	ppb
Titanium	47-1	0.02	0.08	0.08	0.06	55.45	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	53.65	ppb
Vanadium	51-2	0.00	0.01	0.01	0.00	111.68	ppb
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	0.04	-0.12	0.03	-0.02		ppb
Zirconium	90-1	0.00	0.01	0.00	0.01	77.51	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	105.88	ppb

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	233	160	207	200	18.56	cps
Antimony	121-1	33	33	33	33	0.00	cps
Arsenic	75-2	10	20	27	19	44.42	cps
Barium	135-1	67	33	57	52	32.76	cps
Barium	137-1	90	93	113	99	12.77	cps
Beryllium	9-1	99	62	62	74	28.83	cps
Bismuth	209-1	2358862	2220464	2230020	2269782	3.41	cps
Bismuth	209-2	2195271	2108676	2064134	2122694	3.14	cps
Bromine	81-1	27820	28170	28204	28064	0.76	cps
Bromine	81-2	190	247	243	227	14.03	cps
Cadmium	108-1	10	3	10	8	49.52	cps
Cadmium	106-1	1370	1233	1300	1301	5.25	cps
Cadmium	111-1	1302	1181	1220	1234	5.04	cps
Calcium	43-1	483	493	370	449	15.26	cps
Calcium	44-1	10094	9370	9647	9703	3.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	450	510	603	521	14.83	cps
Cobalt	59-2	280	260	220	253	12.06	cps
Copper	63-2	3267	3340	3460	3356	2.91	cps
Dysprosium	156-1	13	0	7	7	99.98	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	20	17	13	17	20.01	cps
Erbium	164-2	23	10	10	14	53.28	cps
Gadolinium	160-1	13	23	7	14	58.06	cps
Gadolinium	160-2	133	153	147	144	7.05	cps
Holmium	165-1	3773521	3650260	3696735	3706838	1.68	cps
Holmium	165-2	3083383	3034067	2961570	3026340	2.02	cps
Indium	115-1	3360067	3201526	3276388	3279327	2.42	cps
Indium	115-2	1274841	1270615	1242623	1262693	1.39	cps
Iron	56-2	23705	23826	24417	23983	1.59	cps
Iron	57-2	1337	1463	1430	1410	4.66	cps
Iron	54-2	3054	2960	2857	2957	3.33	cps
Krypton	83-1	380	440	357	392	10.96	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	860	907	920	896	3.52	cps
Lead	207-1	710	680	730	707	3.56	cps
Lead	208-1	3320	3414	3490	3408	2.50	cps
Lithium	6-1	513515	486329	490793	496879	2.93	cps
Magnesium	24-2	960	857	837	884	7.48	cps
Manganese	55-2	720	760	853	778	8.80	cps
Molybdenum	94-1	133	123	137	131	5.29	cps
Molybdenum	95-1	73	53	77	68	18.63	cps
Molybdenum	96-1	163	160	183	169	7.47	cps
Molybdenum	97-1	50	50	27	42	31.90	cps
Molybdenum	98-1	130	80	110	107	23.59	cps
Neodymium	150-1	0	10	0	3	173.21	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	333	340	363	346	4.56	cps
Phosphorus	31-2	463	430	480	458	5.56	cps
Potassium	39-2	53965	54337	54005	54102	0.38	cps
Rhodium	103-1	3272388	3064638	3070849	3135958	3.77	cps
Rhodium	103-2	2026518	2047140	2028435	2034031	0.56	cps
Scandium	45-1	2001339	1961904	1935039	1966094	1.70	cps
Scandium	45-2	163394	164285	160137	162605	1.34	cps
Selenium	82-1	89	61	135	95	38.94	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	843	847	907	866	4.12	cps
Silicon	28-1	1607721	1592536	1600420	1600226	0.47	cps
Silver	107-1	37	43	60	47	25.75	cps
Silver	109-1	13	27	13	18	43.33	cps
Sodium	23-2	17176	17270	16963	17136	0.92	cps
Strontium	86-1	620	613	623	619	0.82	cps
Strontium	88-1	137	150	93	127	23.39	cps
Sulfur	34-1	128064	127600	128259	127975	0.26	cps
Terbium	159-1	3932955	3848083	3749579	3843539	2.39	cps
Terbium	159-2	3047319	3038813	3019173	3035102	0.48	cps
Thallium	203-1	320	317	327	321	1.59	cps
Thallium	205-1	817	817	680	771	10.23	cps
Tin	118-1	857	847	683	796	12.23	cps
Titanium	47-1	63	60	37	53	27.24	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:48:24	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	323	307	250	293	13.10	cps
Vanadium	51-2	27	33	23	28	18.33	cps
Yttrium	89-1	5983095	5720828	5572464	5758795	3.61	cps
Yttrium	89-2	1760421	1770628	1694994	1742014	2.36	cps
Zinc	66-2	387	273	430	363	22.27	cps
Zirconium	90-1	300	287	330	306	7.26	cps
Zirconium	91-1	50	70	50	57	20.38	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2827	2707	2600	2711	4.18	cps
Antimony	121-1	9970	10174	9944	10029	1.26	cps
Arsenic	75-2	460	343	307	370	21.64	cps
Barium	135-1	13266	13079	12752	13033	2.00	cps
Barium	137-1	22464	23079	22661	22735	1.38	cps
Beryllium	9-1	914	1008	944	955	5.00	cps
Bismuth	209-1	2235885	2280865	2295765	2270838	1.37	cps
Bismuth	209-2	2213620	2241239	2191796	2215552	1.12	cps
Bromine	81-1	29329	30295	29633	29752	1.66	cps
Bromine	81-2	177	220	250	216	17.10	cps
Cadmium	108-1	127	117	113	119	5.84	cps
Cadmium	106-1	1433	1533	1473	1480	3.40	cps
Cadmium	111-1	2911	3089	3003	3001	2.96	cps
Calcium	43-1	8276	8713	8299	8429	2.92	cps
Calcium	44-1	140020	142664	142374	141686	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5308	5471	5184	5321	2.70	cps
Cobalt	59-2	4464	4451	4311	4408	1.93	cps
Copper	63-2	9166	9233	8949	9116	1.63	cps
Dysprosium	156-1	3	3	3	3	0.00	cps
Dysprosium	156-2	13	3	0	6	124.93	cps
Erbium	164-1	23	20	27	23	14.29	cps
Erbium	164-2	30	17	3	17	80.01	cps
Gadolinium	160-1	30	17	10	19	53.91	cps
Gadolinium	160-2	190	130	140	153	20.96	cps
Holmium	165-1	3714521	3797521	3751236	3754426	1.11	cps
Holmium	165-2	3174256	3174790	3166822	3171956	0.14	cps
Indium	115-1	3361476	3298052	3327705	3329078	0.95	cps
Indium	115-2	1323095	1314026	1309876	1315666	0.51	cps
Iron	56-2	144705	142024	143955	143561	0.96	cps
Iron	57-2	4694	4614	4397	4569	3.36	cps
Iron	54-2	9566	9586	9253	9469	1.98	cps
Krypton	83-1	327	383	437	382	14.39	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4387	4784	4427	4533	4.82	cps
Lead	207-1	3887	4091	3824	3934	3.54	cps
Lead	208-1	17875	18402	17791	18023	1.84	cps
Lithium	6-1	501376	511745	512801	508641	1.24	cps
Magnesium	24-2	114860	113250	113190	113766	0.83	cps
Manganese	55-2	2754	2814	2777	2781	1.09	cps
Molybdenum	94-1	11201	11551	11565	11439	1.80	cps
Molybdenum	95-1	13623	14127	13807	13852	1.84	cps
Molybdenum	96-1	14687	15735	15845	15423	4.14	cps
Molybdenum	97-1	8529	8536	8599	8555	0.45	cps
Molybdenum	98-1	22507	22230	21766	22168	1.69	cps
Neodymium	150-1	13	17	0	10	88.20	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1353	1357	1417	1376	2.59	cps
Phosphorus	31-2	757	673	637	689	8.93	cps
Potassium	39-2	209671	208623	206810	208368	0.69	cps
Rhodium	103-1	3164100	3293968	3205471	3221180	2.06	cps
Rhodium	103-2	2119224	2099565	2102798	2107196	0.50	cps
Scandium	45-1	1980108	2001480	1984382	1988657	0.57	cps
Scandium	45-2	169504	168753	166811	168356	0.83	cps
Selenium	82-1	792	728	738	753	4.57	cps
Selenium	77-2	67	103	70	80	25.34	cps
Selenium	78-2	1253	1137	1130	1173	5.91	cps
Silicon	28-1	1609214	1614439	1622144	1615265	0.40	cps
Silver	107-1	7245	7685	7315	7415	3.19	cps
Silver	109-1	6822	7065	7192	7026	2.68	cps
Sodium	23-2	197279	194485	191385	194383	1.52	cps
Strontium	86-1	2440	2414	2417	2424	0.60	cps
Strontium	88-1	16342	16676	16489	16503	1.01	cps
Sulfur	34-1	132992	134580	132673	133415	0.77	cps
Terbium	159-1	3811956	3928674	3849116	3863249	1.54	cps
Terbium	159-2	3157259	3124437	3123817	3135171	0.61	cps
Thallium	203-1	4841	4724	4941	4835	2.24	cps
Thallium	205-1	11368	11912	11595	11625	2.35	cps
Tin	118-1	23269	23903	22988	23387	2.00	cps
Titanium	47-1	3741	3731	3864	3778	1.97	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:55:04	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	14041	14058	13977	14025	0.30	cps
Vanadium	51-2	10901	11001	10494	10798	2.49	cps
Yttrium	89-1	5737179	5894820	5809266	5813755	1.36	cps
Yttrium	89-2	1827536	1826166	1786403	1813368	1.29	cps
Zinc	66-2	3010	2900	3157	3023	4.26	cps
Zirconium	90-1	9280	10010	9627	9639	3.79	cps
Zirconium	91-1	2334	2147	2003	2161	7.66	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	123129	125730	124886	124582	1.07	cps
Antimony	121-1	238884	240990	240327	240067	0.45	cps
Arsenic	75-2	16419	16473	16596	16496	0.55	cps
Barium	135-1	307633	311705	310812	310050	0.69	cps
Barium	137-1	530476	535930	536630	534345	0.63	cps
Beryllium	9-1	41288	42627	42312	42076	1.66	cps
Bismuth	209-1	2367697	2318022	2380728	2355483	1.40	cps
Bismuth	209-2	2212568	2229030	2195860	2212486	0.75	cps
Bromine	81-1	29994	30488	29940	30141	1.00	cps
Bromine	81-2	213	197	173	194	10.33	cps
Cadmium	108-1	5081	5454	5361	5299	3.67	cps
Cadmium	106-1	8816	8786	8703	8768	0.67	cps
Cadmium	111-1	79013	78592	78632	78746	0.29	cps
Calcium	43-1	76904	77400	76525	76943	0.57	cps
Calcium	44-1	1317954	1334181	1347030	1333055	1.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	113964	114363	114807	114378	0.37	cps
Cobalt	59-2	184679	182202	183903	183595	0.69	cps
Copper	63-2	1392594	1512215	1385500	1430103	4.98	cps
Dysprosium	156-1	17	0	17	11	86.60	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	43	40	30	38	18.36	cps
Erbium	164-2	23	40	13	26	52.73	cps
Gadolinium	160-1	23	10	17	17	39.99	cps
Gadolinium	160-2	167	153	200	173	13.87	cps
Holmium	165-1	3895257	3876270	3852556	3874694	0.55	cps
Holmium	165-2	3198848	3203385	3210762	3204331	0.19	cps
Indium	115-1	3377125	3419071	3353734	3383310	0.98	cps
Indium	115-2	1334783	1324072	1318549	1325802	0.62	cps
Iron	56-2	5952368	6012753	5925717	5963612	0.75	cps
Iron	57-2	141865	140224	140319	140803	0.65	cps
Iron	54-2	312525	312080	313738	312781	0.27	cps
Krypton	83-1	410	313	360	361	13.39	cps

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	862566	869748	870778	867697	0.52	cps
Lead	207-1	745669	751209	754440	750439	0.59	cps
Lead	208-1	3679477	3677440	3711114	3689344	0.51	cps
Lithium	6-1	529149	524563	523100	525604	0.60	cps
Magnesium	24-2	1215570	1213172	1202606	1210449	0.57	cps
Manganese	55-2	1016540	1025307	1019035	1020294	0.44	cps
Molybdenum	94-1	906346	916925	903499	908923	0.78	cps
Molybdenum	95-1	1414200	1420739	1434859	1423266	0.74	cps
Molybdenum	96-1	1563968	1568142	1530214	1554108	1.34	cps
Molybdenum	97-1	805253	814940	809437	809877	0.60	cps
Molybdenum	98-1	2304441	2318903	2293973	2305772	0.54	cps
Neodymium	150-1	20	23	27	23	14.29	cps
Neodymium	150-2	20	7	7	11	69.25	cps
Nickel	60-2	47582	47338	47284	47401	0.33	cps
Phosphorus	31-2	8296	7849	8119	8088	2.78	cps
Potassium	39-2	786419	788863	782266	785849	0.42	cps
Rhodium	103-1	3212753	3255422	3283845	3250673	1.10	cps
Rhodium	103-2	2135735	2089175	2084751	2103220	1.34	cps
Scandium	45-1	2040466	2083573	2026312	2050117	1.45	cps
Scandium	45-2	170243	171438	170680	170787	0.35	cps
Selenium	82-1	6849	6870	6688	6802	1.46	cps
Selenium	77-2	773	787	673	744	8.32	cps
Selenium	78-2	3134	3277	3234	3215	2.29	cps
Silicon	28-1	2034810	2049088	2035876	2039925	0.39	cps
Silver	107-1	352584	352884	352504	352657	0.06	cps
Silver	109-1	336076	333121	332803	334000	0.54	cps
Sodium	23-2	1965138	1954626	1902672	1940812	1.72	cps
Strontium	86-1	85044	84920	85510	85158	0.37	cps
Strontium	88-1	744996	753424	743140	747186	0.73	cps
Sulfur	34-1	157667	157023	158041	157577	0.33	cps
Terbium	159-1	3976649	3982189	4002355	3987064	0.34	cps
Terbium	159-2	3198718	3105829	3152677	3152408	1.47	cps
Thallium	203-1	218315	218907	218954	218725	0.16	cps
Thallium	205-1	524524	519412	520085	521340	0.53	cps
Tin	118-1	207832	209069	211273	209391	0.83	cps
Titanium	47-1	347414	345317	342023	344918	0.79	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 15:58:22	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	641075	640880	639071	640342	0.17	cps
Vanadium	51-2	98855	100650	100610	100038	1.02	cps
Yttrium	89-1	5901487	5868345	5896922	5888918	0.31	cps
Yttrium	89-2	1823594	1813472	1816235	1817767	0.29	cps
Zinc	66-2	276622	275546	272968	275046	0.68	cps
Zirconium	90-1	446232	450141	451033	449136	0.57	cps
Zirconium	91-1	101591	100055	99468	100371	1.09	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	302178	304506	301546	302743	0.52	cps
Antimony	121-1	613124	615465	611610	613400	0.32	cps
Arsenic	75-2	39278	39111	39222	39204	0.22	cps
Barium	135-1	756659	744696	742819	748058	1.00	cps
Barium	137-1	1295719	1297095	1286489	1293101	0.45	cps
Beryllium	9-1	102510	102409	103316	102745	0.48	cps
Bismuth	209-1	2225395	2298332	2264765	2262830	1.61	cps
Bismuth	209-2	2182413	2124368	2179271	2162017	1.51	cps
Bromine	81-1	26951	26434	26150	26512	1.53	cps
Bromine	81-2	167	213	160	180	16.15	cps
Cadmium	108-1	12862	13016	11788	12556	5.33	cps
Cadmium	106-1	19216	18632	19116	18988	1.65	cps
Cadmium	111-1	192029	187214	191925	190389	1.44	cps
Calcium	43-1	182562	183758	181729	182683	0.56	cps
Calcium	44-1	3170152	3281525	3202990	3218222	1.78	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	278548	276056	275460	276688	0.59	cps
Cobalt	59-2	442176	434789	435027	437331	0.96	cps
Copper	63-2	3651356	3681552	3659144	3664017	0.43	cps
Dysprosium	156-1	33	23	17	24	34.31	cps
Dysprosium	156-2	47	63	40	50	24.03	cps
Erbium	164-1	57	17	43	39	52.37	cps
Erbium	164-2	37	47	20	34	39.11	cps
Gadolinium	160-1	30	20	17	22	31.22	cps
Gadolinium	160-2	170	123	127	140	18.60	cps
Holmium	165-1	3748548	3801563	3734499	3761537	0.94	cps
Holmium	165-2	3106411	3113941	3133442	3117932	0.45	cps
Indium	115-1	3318092	3236471	3334328	3296297	1.59	cps
Indium	115-2	1265934	1252420	1255016	1257790	0.57	cps
Iron	56-2	14618454	14210294	14089078	14305942	1.94	cps
Iron	57-2	341402	337807	334434	337881	1.03	cps
Iron	54-2	751228	749747	744989	748655	0.44	cps
Krypton	83-1	333	333	367	344	5.59	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2524022	2559787	2541418	2541743	0.70	cps
Lead	207-1	2255743	2287510	2263913	2269055	0.73	cps
Lead	208-1	10209861	10370057	10287712	10289210	0.78	cps
Lithium	6-1	509692	508870	509013	509192	0.09	cps
Magnesium	24-2	2899166	2971935	2896420	2922507	1.47	cps
Manganese	55-2	2681963	2668374	2670401	2673579	0.27	cps
Molybdenum	94-1	2410337	2461888	2414564	2428930	1.18	cps
Molybdenum	95-1	3461584	3421117	3407956	3430219	0.81	cps
Molybdenum	96-1	3789925	3783508	3755853	3776429	0.48	cps
Molybdenum	97-1	2187438	2144228	2115326	2148997	1.69	cps
Molybdenum	98-1	5497189	5439194	5456187	5464190	0.55	cps
Neodymium	150-1	33	50	47	43	20.36	cps
Neodymium	150-2	10	13	13	12	15.73	cps
Nickel	60-2	142075	140935	138342	140451	1.36	cps
Phosphorus	31-2	19382	18805	19025	19071	1.53	cps
Potassium	39-2	1948616	1964947	1974652	1962738	0.67	cps
Rhodium	103-1	3163837	3145853	3095657	3135116	1.13	cps
Rhodium	103-2	2027076	1981028	1955004	1987703	1.84	cps
Scandium	45-1	1911103	1923506	1919227	1917945	0.33	cps
Scandium	45-2	164193	163536	163093	163607	0.34	cps
Selenium	82-1	16097	16271	16156	16174	0.55	cps
Selenium	77-2	1670	1667	1670	1669	0.12	cps
Selenium	78-2	6385	6445	6178	6336	2.21	cps
Silicon	28-1	2617858	2646869	2653015	2639247	0.71	cps
Silver	107-1	847115	854315	841470	847633	0.76	cps
Silver	109-1	800779	802375	797245	800133	0.33	cps
Sodium	23-2	4484135	4635868	4660435	4593479	2.08	cps
Strontium	86-1	201764	202918	201842	202175	0.32	cps
Strontium	88-1	1975139	2022662	1988082	1995295	1.23	cps
Sulfur	34-1	181686	177278	177831	178932	1.34	cps
Terbium	159-1	3952164	3837624	3942363	3910717	1.62	cps
Terbium	159-2	3003550	3137993	3075673	3072405	2.19	cps
Thallium	203-1	530573	536609	536268	534483	0.63	cps
Thallium	205-1	1268455	1286168	1261621	1272081	1.00	cps
Tin	118-1	509035	507351	507885	508090	0.17	cps
Titanium	47-1	813248	822534	812179	815987	0.70	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:04:42	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1765043	1816880	1813311	1798411	1.61	cps
Vanadium	51-2	239803	243126	237174	240034	1.24	cps
Yttrium	89-1	5784651	5657120	5653485	5698418	1.31	cps
Yttrium	89-2	1731946	1732655	1697544	1720715	1.17	cps
Zinc	66-2	959638	950132	949564	953112	0.59	cps
Zirconium	90-1	1076091	1076454	1072942	1075162	0.18	cps
Zirconium	91-1	240805	240125	237139	239356	0.81	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	599381	595629	591602	595537	0.65	cps
Antimony	121-1	1144438	1151625	1149764	1148609	0.32	cps
Arsenic	75-2	77960	78054	78372	78129	0.28	cps
Barium	135-1	1652775	1681803	1677527	1670702	0.94	cps
Barium	137-1	2882131	2869896	2897184	2883070	0.47	cps
Beryllium	9-1	203142	204442	206450	204678	0.81	cps
Bismuth	209-1	2297632	2285093	2340881	2307868	1.27	cps
Bismuth	209-2	2126085	2114044	2148145	2129425	0.81	cps
Bromine	81-1	25749	26187	26210	26049	1.00	cps
Bromine	81-2	223	183	237	214	12.94	cps
Cadmium	108-1	24871	24694	25232	24933	1.10	cps
Cadmium	106-1	36366	35577	35787	35910	1.14	cps
Cadmium	111-1	374305	378812	377044	376720	0.60	cps
Calcium	43-1	358958	358049	352636	356548	0.96	cps
Calcium	44-1	6224743	6205575	6117030	6182449	0.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	546532	541239	543375	543715	0.49	cps
Cobalt	59-2	860902	857622	865223	861249	0.44	cps
Copper	63-2	7117373	7233783	7148178	7166445	0.84	cps
Dysprosium	156-1	23	20	37	27	33.08	cps
Dysprosium	156-2	63	103	50	72	38.43	cps
Erbium	164-1	20	50	20	30	57.74	cps
Erbium	164-2	10	27	30	22	48.22	cps
Gadolinium	160-1	20	27	23	23	14.29	cps
Gadolinium	160-2	197	117	153	156	25.74	cps
Holmium	165-1	3792755	3745155	3795977	3777963	0.75	cps
Holmium	165-2	3157748	3011859	3055665	3075091	2.43	cps
Indium	115-1	3197193	3213864	3242496	3217851	0.71	cps
Indium	115-2	1253851	1243842	1251053	1249582	0.41	cps
Iron	56-2	28558975	28247651	28240122	28348916	0.64	cps
Iron	57-2	665750	661733	657714	661732	0.61	cps
Iron	54-2	1580393	1523658	1535473	1546508	1.94	cps
Krypton	83-1	360	370	340	357	4.28	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4939037	4831876	4890595	4887169	1.10	cps
Lead	207-1	4343320	4289695	4232944	4288653	1.29	cps
Lead	208-1	19491855	19527427	19430715	19483332	0.25	cps
Lithium	6-1	513632	507599	503408	508213	1.01	cps
Magnesium	24-2	5822107	5750275	5739514	5770632	0.78	cps
Manganese	55-2	5482650	5370411	5348758	5400606	1.33	cps
Molybdenum	94-1	4765514	4827170	4849011	4813899	0.90	cps
Molybdenum	95-1	6825304	6743420	6848267	6805663	0.81	cps
Molybdenum	96-1	7504732	7512035	7481673	7499480	0.21	cps
Molybdenum	97-1	4220395	4240171	4215915	4225494	0.31	cps
Molybdenum	98-1	10770992	10902480	10889217	10854230	0.67	cps
Neodymium	150-1	73	60	53	62	16.37	cps
Neodymium	150-2	13	23	20	19	26.96	cps
Nickel	60-2	224227	222815	223636	223559	0.32	cps
Phosphorus	31-2	36206	35672	36413	36097	1.06	cps
Potassium	39-2	3779025	3705871	3713605	3732834	1.08	cps
Rhodium	103-1	3054970	3030320	3053900	3046397	0.46	cps
Rhodium	103-2	1977708	1974670	2030265	1994214	1.57	cps
Scandium	45-1	1913794	1915433	1874415	1901214	1.22	cps
Scandium	45-2	163391	163445	163367	163401	0.02	cps
Selenium	82-1	31514	31631	31280	31475	0.57	cps
Selenium	77-2	3467	3344	3447	3419	1.94	cps
Selenium	78-2	12539	12192	12172	12301	1.68	cps
Silicon	28-1	3633503	3676232	3681512	3663749	0.72	cps
Silver	107-1	1806586	1823268	1839547	1823133	0.90	cps
Silver	109-1	1781340	1725241	1730278	1745620	1.78	cps
Sodium	23-2	9375204	9086523	9073935	9178554	1.86	cps
Strontium	86-1	400212	403908	400850	401657	0.49	cps
Strontium	88-1	3882037	3957340	3944608	3927995	1.03	cps
Sulfur	34-1	228041	224670	222120	224944	1.32	cps
Terbium	159-1	3994469	3902386	3957572	3951476	1.17	cps
Terbium	159-2	3079822	3058097	3073044	3070321	0.36	cps
Thallium	203-1	1075326	1084586	1081160	1080357	0.43	cps
Thallium	205-1	2855705	2889275	2945707	2896896	1.57	cps
Tin	118-1	997385	1004892	1008793	1003690	0.58	cps
Titanium	47-1	1819766	1810753	1744109	1791543	2.31	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:07:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3652409	3740319	3680349	3691026	1.22	cps
Vanadium	51-2	478529	471471	474571	474857	0.74	cps
Yttrium	89-1	5660576	5618387	5549560	5609507	1.00	cps
Yttrium	89-2	1711886	1734557	1758924	1735122	1.36	cps
Zinc	66-2	1302388	1299365	1299580	1300444	0.13	cps
Zirconium	90-1	2346173	2408561	2395013	2383249	1.38	cps
Zirconium	91-1	474212	480375	479837	478141	0.71	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1371014	1358219	1339782	1356338	1.16	cps
Antimony	121-1	2543682	2567662	2528836	2546727	0.77	cps
Arsenic	75-2	157113	155375	154219	155569	0.94	cps
Barium	135-1	3331664	3422849	3337818	3364110	1.51	cps
Barium	137-1	5768241	5820052	5783128	5790474	0.46	cps
Beryllium	9-1	398399	406073	405925	403466	1.09	cps
Bismuth	209-1	2321021	2298571	2319137	2312910	0.54	cps
Bismuth	209-2	2165614	2160093	2196920	2174209	0.91	cps
Bromine	81-1	26273	26330	26397	26334	0.23	cps
Bromine	81-2	200	213	157	190	15.59	cps
Cadmium	108-1	49237	50331	49216	49595	1.29	cps
Cadmium	106-1	70949	71686	70353	70996	0.94	cps
Cadmium	111-1	745360	753457	742861	747226	0.74	cps
Calcium	43-1	708578	711170	709890	709879	0.18	cps
Calcium	44-1	12437424	12363750	12403167	12401447	0.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1104128	1101060	1092745	1099311	0.54	cps
Cobalt	59-2	1937919	1887326	1898567	1907937	1.39	cps
Copper	63-2	14699043	14408986	14238876	14448968	1.61	cps
Dysprosium	156-1	60	47	43	50	17.64	cps
Dysprosium	156-2	197	173	170	180	8.07	cps
Erbium	164-1	67	70	47	61	20.65	cps
Erbium	164-2	37	50	37	41	18.72	cps
Gadolinium	160-1	33	27	20	27	24.99	cps
Gadolinium	160-2	157	167	203	176	14.00	cps
Holmium	165-1	3849868	3887327	3788619	3841938	1.30	cps
Holmium	165-2	3162552	3097394	3128391	3129446	1.04	cps
Indium	115-1	3206440	3205610	3155228	3189093	0.92	cps
Indium	115-2	1260149	1238510	1240173	1246277	0.97	cps
Iron	56-2	56449479	56471381	56937942	56619601	0.49	cps
Iron	57-2	1445439	1383545	1412008	1413664	2.19	cps
Iron	54-2	3174999	3188386	3175729	3179705	0.24	cps
Krypton	83-1	313	330	397	347	12.72	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9895788	9614099	10021289	9843725	2.12	cps
Lead	207-1	8530530	8568561	8723096	8607396	1.18	cps
Lead	208-1	39327977	39169817	39862265	39453353	0.92	cps
Lithium	6-1	503227	499014	505843	502695	0.69	cps
Magnesium	24-2	11901976	11614154	11444491	11653540	1.98	cps
Manganese	55-2	10877746	10819599	10774437	10823927	0.48	cps
Molybdenum	94-1	9567480	9716975	9563970	9616142	0.91	cps
Molybdenum	95-1	13826801	13952921	13762797	13847506	0.70	cps
Molybdenum	96-1	14918951	15122854	15129763	15057189	0.80	cps
Molybdenum	97-1	8502663	8618122	8626607	8582464	0.81	cps
Molybdenum	98-1	21816875	22176615	22135694	22043061	0.89	cps
Neodymium	150-1	133	110	157	133	17.50	cps
Neodymium	150-2	67	40	40	49	31.50	cps
Nickel	60-2	449646	447770	444179	447198	0.62	cps
Phosphorus	31-2	72672	71935	73610	72739	1.15	cps
Potassium	39-2	7643486	7518517	7590861	7584288	0.83	cps
Rhodium	103-1	3057093	3109185	3007687	3057988	1.66	cps
Rhodium	103-2	1998838	1972178	1947451	1972822	1.30	cps
Scandium	45-1	1920030	1919890	1898911	1912944	0.64	cps
Scandium	45-2	166481	164758	165545	165595	0.52	cps
Selenium	82-1	61740	62244	63039	62341	1.05	cps
Selenium	77-2	6988	7078	6698	6922	2.87	cps
Selenium	78-2	24220	23565	23332	23706	1.94	cps
Silicon	28-1	5744399	5755504	5806926	5768943	0.58	cps
Silver	107-1	3604630	3732002	3664990	3667208	1.74	cps
Silver	109-1	3506598	3509075	3441882	3485852	1.09	cps
Sodium	23-2	18677588	18790676	18786685	18751650	0.34	cps
Strontium	86-1	797251	807595	801058	801968	0.65	cps
Strontium	88-1	7707156	7753606	7923520	7794761	1.46	cps
Sulfur	34-1	321243	321191	320679	321038	0.10	cps
Terbium	159-1	3933199	3958436	3940335	3943990	0.33	cps
Terbium	159-2	3095783	3120343	3152283	3122803	0.91	cps
Thallium	203-1	2550888	2574285	2543011	2556061	0.64	cps
Thallium	205-1	5981835	5881398	5970834	5944689	0.93	cps
Tin	118-1	2232345	2270156	2285835	2262779	1.22	cps
Titanium	47-1	3633114	3522250	3627235	3594200	1.74	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:10:39	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7371265	7501054	7648318	7506879	1.85	cps
Vanadium	51-2	979219	965751	961236	968735	0.97	cps
Yttrium	89-1	5670797	5577322	5495388	5581169	1.57	cps
Yttrium	89-2	1765441	1743368	1731489	1746766	0.99	cps
Zinc	66-2	2856260	2745001	2800605	2800622	1.99	cps
Zirconium	90-1	4689373	4796792	4747036	4744400	1.13	cps
Zirconium	91-1	957109	968299	960007	961805	0.60	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2712324	2719433	2737150	2722969	0.47	cps
Antimony	121-1	5097183	5227026	5284298	5202836	1.84	cps
Arsenic	75-2	317082	316706	315520	316436	0.26	cps
Barium	135-1	6822943	6976792	7010823	6936853	1.44	cps
Barium	137-1	11726904	12049360	11928308	11901524	1.37	cps
Beryllium	9-1	798338	814099	812701	808379	1.08	cps
Bismuth	209-1	2371969	2287261	2299804	2319678	1.97	cps
Bismuth	209-2	2148111	2156850	2143615	2149525	0.31	cps
Bromine	81-1	26678	27075	27382	27045	1.31	cps
Bromine	81-2	183	210	230	208	11.27	cps
Cadmium	108-1	97774	100535	100324	99544	1.54	cps
Cadmium	106-1	140526	141899	142640	141688	0.76	cps
Cadmium	111-1	1506259	1509288	1517396	1510981	0.38	cps
Calcium	43-1	1529765	1547536	1552972	1543425	0.79	cps
Calcium	44-1	25467210	24961690	25195459	25208120	1.00	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2491930	2486088	2429313	2469110	1.40	cps
Cobalt	59-2	3839909	3919276	3887713	3882299	1.03	cps
Copper	63-2	28925548	28703059	28445063	28691223	0.84	cps
Dysprosium	156-1	73	90	90	84	11.40	cps
Dysprosium	156-2	333	363	397	364	8.69	cps
Erbium	164-1	90	53	97	80	29.17	cps
Erbium	164-2	73	73	77	74	2.59	cps
Gadolinium	160-1	70	53	60	61	13.73	cps
Gadolinium	160-2	180	197	167	181	8.30	cps
Holmium	165-1	3936662	3933212	3891292	3920388	0.64	cps
Holmium	165-2	3189697	3175934	3215356	3193662	0.63	cps
Indium	115-1	3194424	3176993	3245117	3205511	1.10	cps
Indium	115-2	1225568	1220982	1214854	1220468	0.44	cps
Iron	56-2	113453965	113561642	113863948	113626518	0.19	cps
Iron	57-2	2820245	2874956	2846558	2847253	0.96	cps
Iron	54-2	6505596	6501564	6225281	6410814	2.51	cps
Krypton	83-1	370	410	387	389	5.17	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20200060	20057033	20018471	20091855	0.48	cps
Lead	207-1	17328889	17609309	17680060	17539419	1.06	cps
Lead	208-1	80058950	80594782	80232421	80295385	0.34	cps
Lithium	6-1	507786	503527	501949	504421	0.60	cps
Magnesium	24-2	23290277	22717354	23827817	23278483	2.39	cps
Manganese	55-2	22172906	21959681	21591761	21908116	1.34	cps
Molybdenum	94-1	19657116	19761442	19827457	19748672	0.43	cps
Molybdenum	95-1	28128893	28311217	28473984	28304698	0.61	cps
Molybdenum	96-1	30925920	30698776	31057672	30894123	0.59	cps
Molybdenum	97-1	17583423	17454441	17569768	17535877	0.40	cps
Molybdenum	98-1	44635298	45721884	46039356	45465513	1.62	cps
Neodymium	150-1	323	263	233	273	16.77	cps
Neodymium	150-2	73	77	83	78	6.55	cps
Nickel	60-2	890844	901159	895113	895705	0.58	cps
Phosphorus	31-2	146471	146651	144495	145872	0.82	cps
Potassium	39-2	15290481	15196988	15124077	15203849	0.55	cps
Rhodium	103-1	3042233	3044970	3050128	3045777	0.13	cps
Rhodium	103-2	1958140	1965794	1999215	1974383	1.11	cps
Scandium	45-1	1937576	1914537	1905918	1919343	0.85	cps
Scandium	45-2	169119	168705	165732	167852	1.10	cps
Selenium	82-1	122806	123906	124832	123848	0.82	cps
Selenium	77-2	13576	13470	13566	13537	0.44	cps
Selenium	78-2	44921	46175	45664	45587	1.38	cps
Silicon	28-1	9212198	9373249	9307096	9297514	0.87	cps
Silver	107-1	7325798	7339359	7394266	7353141	0.49	cps
Silver	109-1	6949274	6925343	7121120	6998579	1.53	cps
Sodium	23-2	37749202	37569698	37891499	37736800	0.43	cps
Strontium	86-1	1824166	1773838	1822688	1806897	1.59	cps
Strontium	88-1	16049666	16211612	16472463	16244580	1.31	cps
Sulfur	34-1	533357	537648	537862	536289	0.47	cps
Terbium	159-1	3980780	3898819	4004777	3961459	1.40	cps
Terbium	159-2	3227466	3124174	3167511	3173050	1.63	cps
Thallium	203-1	5030191	5149320	5021362	5066958	1.41	cps
Thallium	205-1	12169574	12273029	12095876	12179493	0.73	cps
Tin	118-1	4473043	4581233	4564653	4539643	1.28	cps
Titanium	47-1	7369428	7257515	7415786	7347577	1.11	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:13:29	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15271554	15582344	15581070	15478323	1.16	cps
Vanadium	51-2	2140379	2167338	2147675	2151798	0.65	cps
Yttrium	89-1	5779565	5713215	5858205	5783662	1.25	cps
Yttrium	89-2	1763012	1732631	1745086	1746910	0.87	cps
Zinc	66-2	5459173	5520867	5492721	5490920	0.56	cps
Zirconium	90-1	9834455	9842250	9861840	9846182	0.14	cps
Zirconium	91-1	2189545	2172414	2186331	2182763	0.42	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14798095	14624642	14785988	14736242	0.66	cps
Antimony	121-1	1510	1583	1757	1617	7.84	cps
Arsenic	75-2	213	190	140	181	20.69	cps
Barium	135-1	3067	3100	3030	3066	1.14	cps
Barium	137-1	5198	5548	5341	5362	3.28	cps
Beryllium	9-1	108	95	145	116	22.05	cps
Bismuth	209-1	2282863	2093077	2101692	2159210	4.96	cps
Bismuth	209-2	1979835	2003475	1969112	1984141	0.89	cps
Bromine	81-1	29129	29129	29146	29134	0.03	cps
Bromine	81-2	253	210	193	219	14.15	cps
Cadmium	108-1	37	30	37	34	11.18	cps
Cadmium	106-1	1607	1510	1347	1488	8.83	cps
Cadmium	111-1	1724	1648	1509	1627	6.69	cps
Calcium	43-1	7892238	8176338	8070868	8046481	1.78	cps
Calcium	44-1	130636381	133345911	135591681	133191325	1.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13266	13746	14200	13737	3.40	cps
Cobalt	59-2	9827	9810	10027	9888	1.22	cps
Copper	63-2	13520	13439	13166	13375	1.39	cps
Dysprosium	156-1	163	193	187	181	8.70	cps
Dysprosium	156-2	183	163	220	189	15.21	cps
Erbium	164-1	203	187	223	204	8.98	cps
Erbium	164-2	180	160	177	172	6.22	cps
Gadolinium	160-1	127	137	157	140	10.91	cps
Gadolinium	160-2	240	337	250	276	19.29	cps
Holmium	165-1	3955172	3834275	3847790	3879079	1.71	cps
Holmium	165-2	3140000	3128276	3086738	3118338	0.90	cps
Indium	115-1	3419513	3277662	3229013	3308729	2.99	cps
Indium	115-2	1258182	1249009	1247457	1251549	0.46	cps
Iron	56-2	563469645	566033018	562593125	564031929	0.32	cps
Iron	57-2	14006106	14054301	13865462	13975290	0.70	cps
Iron	54-2	31194898	30910747	30767183	30957609	0.70	cps
Krypton	83-1	380	417	457	418	9.18	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8593	8666	8379	8546	1.74	cps
Lead	207-1	7516	7599	7309	7474	2.00	cps
Lead	208-1	34157	34554	33887	34199	0.98	cps
Lithium	6-1	559671	530234	528072	539326	3.27	cps
Magnesium	24-2	125779275	122497505	120515978	122930919	2.16	cps
Manganese	55-2	11381	11248	11695	11441	2.01	cps
Molybdenum	94-1	4284	4361	4417	4354	1.54	cps
Molybdenum	95-1	3560	3784	3881	3742	4.39	cps
Molybdenum	96-1	15835	16179	15912	15976	1.13	cps
Molybdenum	97-1	2150	2354	2390	2298	5.63	cps
Molybdenum	98-1	4904	4964	4858	4909	1.09	cps
Neodymium	150-1	93	103	90	96	7.26	cps
Neodymium	150-2	87	40	83	70	37.19	cps
Nickel	60-2	3944	4121	3794	3953	4.14	cps
Phosphorus	31-2	427	467	367	420	11.98	cps
Potassium	39-2	79564819	78852147	79444584	79287183	0.48	cps
Rhodium	103-1	3146994	2986843	2951490	3028442	3.44	cps
Rhodium	103-2	1942980	1920406	1854796	1906061	2.40	cps
Scandium	45-1	2149089	2043648	2010897	2067878	3.49	cps
Scandium	45-2	174346	174250	173043	173880	0.42	cps
Selenium	82-1	387	417	298	367	16.79	cps
Selenium	77-2	3	3	7	4	43.40	cps
Selenium	78-2	747	847	957	850	12.36	cps
Silicon	28-1	1583026	1546004	1581442	1570157	1.33	cps
Silver	107-1	380	483	377	413	14.67	cps
Silver	109-1	333	390	370	364	7.89	cps
Sodium	23-2	196500377	193965877	191851790	194106015	1.20	cps
Strontium	86-1	6098	6078	6251	6142	1.54	cps
Strontium	88-1	50001	51794	51159	50985	1.78	cps
Sulfur	34-1	140674	142516	143624	142271	1.05	cps
Terbium	159-1	4206461	3915793	3937518	4019924	4.03	cps
Terbium	159-2	3191958	3071542	3069251	3110917	2.26	cps
Thallium	203-1	510	490	500	500	2.00	cps
Thallium	205-1	1120	1250	1183	1185	5.49	cps
Tin	118-1	1877	1850	1953	1893	2.83	cps
Titanium	47-1	427	460	607	498	19.24	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 16:19:30	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	840	847	750	812	6.65	cps
Vanadium	51-2	533	587	567	562	4.79	cps
Yttrium	89-1	6320122	5912002	5881142	6037755	4.06	cps
Yttrium	89-2	1817983	1789980	1770275	1792746	1.34	cps
Zinc	66-2	10194	10344	10117	10218	1.13	cps
Zirconium	90-1	4374	4644	4631	4550	3.35	cps
Zirconium	91-1	997	943	977	972	2.77	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	75425	75357	75672	75485	0.22	cps
Antimony	121-1	1033063	1049329	1051085	1044492	0.95	cps
Arsenic	75-2	75303	73873	74499	74558	0.96	cps
Barium	135-1	136951	138745	138388	138028	0.69	cps
Barium	137-1	236096	241369	239445	238970	1.12	cps
Beryllium	9-1	85067	86069	84765	85301	0.80	cps
Bismuth	209-1	2320107	2421747	2336080	2359311	2.32	cps
Bismuth	209-2	2318851	2300051	2339352	2319418	0.85	cps
Bromine	81-1	30769	30335	29897	30334	1.44	cps
Bromine	81-2	253	223	253	243	7.12	cps
Cadmium	108-1	10647	10511	10607	10588	0.66	cps
Cadmium	106-1	15455	16289	15392	15712	3.19	cps
Cadmium	111-1	163911	167130	165549	165530	0.97	cps
Calcium	43-1	33547	33587	32829	33321	1.28	cps
Calcium	44-1	553839	558596	552883	555106	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	261754	257228	257731	258904	0.96	cps
Cobalt	59-2	413425	412838	410403	412222	0.39	cps
Copper	63-2	291005	290086	287701	289597	0.59	cps
Dysprosium	156-1	7	10	13	10	33.30	cps
Dysprosium	156-2	10	10	13	11	17.30	cps
Erbium	164-1	27	10	13	17	52.93	cps
Erbium	164-2	37	37	23	32	23.90	cps
Gadolinium	160-1	37	30	3	23	75.61	cps
Gadolinium	160-2	160	177	167	168	5.00	cps
Holmium	165-1	3996520	3997416	4006757	4000231	0.14	cps
Holmium	165-2	3316428	3344089	3395883	3352133	1.20	cps
Indium	115-1	3479837	3593073	3567082	3546664	1.67	cps
Indium	115-2	1395071	1383284	1381462	1386605	0.53	cps
Iron	56-2	5304337	5273654	5223650	5267214	0.77	cps
Iron	57-2	122831	124366	125418	124205	1.05	cps
Iron	54-2	279364	280058	281127	280183	0.32	cps
Krypton	83-1	333	370	383	362	7.15	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	766894	782681	776724	775433	1.03	cps
Lead	207-1	627476	647672	649051	641399	1.88	cps
Lead	208-1	3192028	3265782	3015011	3157607	4.08	cps
Lithium	6-1	531706	530938	528510	530385	0.31	cps
Magnesium	24-2	291443	291038	292323	291602	0.23	cps
Manganese	55-2	227693	227699	229201	228197	0.38	cps
Molybdenum	94-1	323	320	287	310	6.54	cps
Molybdenum	95-1	260	257	260	259	0.74	cps
Molybdenum	96-1	570	560	470	533	10.33	cps
Molybdenum	97-1	160	163	180	168	6.39	cps
Molybdenum	98-1	453	413	363	410	11.00	cps
Neodymium	150-1	7	7	7	7	0.00	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	106458	106827	106696	106661	0.18	cps
Phosphorus	31-2	490	487	397	458	11.57	cps
Potassium	39-2	688865	689368	689896	689376	0.07	cps
Rhodium	103-1	3395028	3467155	3462330	3441504	1.17	cps
Rhodium	103-2	2247743	2178352	2200143	2208746	1.61	cps
Scandium	45-1	2189701	2194298	2124004	2169334	1.81	cps
Scandium	45-2	180165	179396	179363	179641	0.25	cps
Selenium	82-1	26546	26043	26559	26383	1.12	cps
Selenium	77-2	3340	3444	3237	3340	3.09	cps
Selenium	78-2	11982	11708	11952	11880	1.26	cps
Silicon	28-1	1692067	1654994	1654901	1667321	1.29	cps
Silver	107-1	377233	381941	384713	381296	0.99	cps
Silver	109-1	359810	359103	364745	361219	0.85	cps
Sodium	23-2	748684	750199	743259	747380	0.49	cps
Strontium	86-1	1000	1120	1190	1103	8.71	cps
Strontium	88-1	4244	4274	4491	4336	3.10	cps
Sulfur	34-1	138689	139372	138951	139004	0.25	cps
Terbium	159-1	4190087	4163462	4037149	4130233	1.98	cps
Terbium	159-2	3369288	3280286	3301072	3316882	1.40	cps
Thallium	203-1	931181	949050	952198	944143	1.20	cps
Thallium	205-1	2561770	2636086	2573085	2590314	1.55	cps
Tin	118-1	1203	1107	1097	1136	5.19	cps
Titanium	47-1	87	83	103	91	11.76	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:16:14	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	430	457	467	451	4.20	cps
Vanadium	51-2	219820	218540	221199	219853	0.60	cps
Yttrium	89-1	6150158	6234357	6135046	6173187	0.87	cps
Yttrium	89-2	1914924	1885027	1914473	1904808	0.90	cps
Zinc	66-2	108729	106631	107641	107667	0.97	cps
Zirconium	90-1	443	493	447	461	6.06	cps
Zirconium	91-1	147	203	150	167	19.08	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2990	3034	3100	3041	1.82	cps
Antimony	121-1	10994	11271	11305	11190	1.52	cps
Arsenic	75-2	393	463	363	407	12.62	cps
Barium	135-1	13567	13803	13720	13697	0.88	cps
Barium	137-1	23553	23797	24000	23783	0.94	cps
Beryllium	9-1	1000	1093	1020	1038	4.70	cps
Bismuth	209-1	2326248	2301266	2379778	2335764	1.72	cps
Bismuth	209-2	2274004	2220973	2254364	2249780	1.19	cps
Bromine	81-1	30345	30699	29750	30265	1.58	cps
Bromine	81-2	223	173	197	198	12.65	cps
Cadmium	108-1	120	120	117	119	1.62	cps
Cadmium	106-1	1553	1353	1573	1493	8.15	cps
Cadmium	111-1	3192	2972	3141	3102	3.71	cps
Calcium	43-1	8929	9276	9463	9223	2.94	cps
Calcium	44-1	150145	156312	153401	153286	2.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5718	5941	5564	5741	3.30	cps
Cobalt	59-2	4601	4681	4651	4644	0.87	cps
Copper	63-2	9170	9286	9296	9251	0.76	cps
Dysprosium	156-1	0	13	3	6	124.93	cps
Dysprosium	156-2	17	7	7	10	57.72	cps
Erbium	164-1	27	13	20	20	33.35	cps
Erbium	164-2	27	37	17	27	37.50	cps
Gadolinium	160-1	17	20	20	19	10.18	cps
Gadolinium	160-2	150	183	157	163	10.80	cps
Holmium	165-1	3957212	3911880	3923775	3930956	0.60	cps
Holmium	165-2	3280895	3181043	3215547	3225828	1.57	cps
Indium	115-1	3463337	3448225	3604871	3505477	2.46	cps
Indium	115-2	1372102	1354750	1360051	1362301	0.65	cps
Iron	56-2	157398	158102	154347	156615	1.27	cps
Iron	57-2	4577	4998	4884	4820	4.51	cps
Iron	54-2	10914	10654	10350	10639	2.65	cps
Krypton	83-1	367	417	357	380	8.46	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4778	5591	5094	5154	7.96	cps
Lead	207-1	3911	4731	4191	4277	9.75	cps
Lead	208-1	18942	22168	19672	20261	8.35	cps
Lithium	6-1	520098	518263	525578	521313	0.73	cps
Magnesium	24-2	118626	120848	120129	119868	0.95	cps
Manganese	55-2	3254	3150	2854	3086	6.73	cps
Molybdenum	94-1	11635	12689	12155	12160	4.34	cps
Molybdenum	95-1	14791	15165	14968	14974	1.25	cps
Molybdenum	96-1	16406	16873	16706	16662	1.42	cps
Molybdenum	97-1	9233	9433	8943	9203	2.68	cps
Molybdenum	98-1	23733	24357	23916	24002	1.34	cps
Neodymium	150-1	3	0	0	1	173.21	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1427	1393	1430	1417	1.43	cps
Phosphorus	31-2	590	693	600	628	9.08	cps
Potassium	39-2	218232	221800	218263	219432	0.93	cps
Rhodium	103-1	3373974	3346147	3358078	3359400	0.42	cps
Rhodium	103-2	2180719	2154956	2156806	2164160	0.66	cps
Scandium	45-1	2055574	2074675	2134949	2088399	1.98	cps
Scandium	45-2	177959	175582	175775	176439	0.75	cps
Selenium	82-1	754	770	833	786	5.32	cps
Selenium	77-2	87	77	73	79	8.80	cps
Selenium	78-2	1137	1177	1153	1156	1.74	cps
Silicon	28-1	1651488	1690230	1659074	1666931	1.23	cps
Silver	107-1	7625	7999	8156	7927	3.44	cps
Silver	109-1	7345	7702	7172	7406	3.65	cps
Sodium	23-2	204903	204074	204798	204592	0.22	cps
Strontium	86-1	2454	2567	2727	2582	5.32	cps
Strontium	88-1	17294	17531	17120	17315	1.19	cps
Sulfur	34-1	140640	138433	140129	139734	0.83	cps
Terbium	159-1	3994863	3980104	4032718	4002562	0.68	cps
Terbium	159-2	3220406	3191452	3241004	3217620	0.77	cps
Thallium	203-1	5381	5121	5274	5259	2.49	cps
Thallium	205-1	11792	12159	12129	12027	1.69	cps
Tin	118-1	24053	24875	24281	24403	1.74	cps
Titanium	47-1	3994	4357	4074	4142	4.61	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:19:39	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	14415	14878	14468	14587	1.74	cps
Vanadium	51-2	11471	11898	11504	11625	2.04	cps
Yttrium	89-1	6065893	6108098	6126911	6100301	0.51	cps
Yttrium	89-2	1892880	1882001	1870450	1881777	0.60	cps
Zinc	66-2	3104	3370	3147	3207	4.46	cps
Zirconium	90-1	10454	10147	10280	10294	1.49	cps
Zirconium	91-1	2304	2377	2390	2357	1.98	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	397	343	343	361	8.53	cps
Antimony	121-1	107	110	87	101	12.48	cps
Arsenic	75-2	30	3	13	16	86.63	cps
Barium	135-1	110	167	130	136	21.20	cps
Barium	137-1	217	280	200	232	18.18	cps
Beryllium	9-1	86	80	40	68	36.90	cps
Bismuth	209-1	2312496	2344842	2343323	2333554	0.78	cps
Bismuth	209-2	2275610	2249135	2248094	2257613	0.69	cps
Bromine	81-1	29683	28905	29596	29395	1.45	cps
Bromine	81-2	243	337	213	264	24.32	cps
Cadmium	108-1	10	3	3	6	69.34	cps
Cadmium	106-1	1300	1293	1243	1279	2.42	cps
Cadmium	111-1	1247	1253	1231	1244	0.90	cps
Calcium	43-1	547	563	613	574	6.04	cps
Calcium	44-1	11882	12078	11608	11856	1.99	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	540	590	593	574	5.20	cps
Cobalt	59-2	323	370	323	339	7.95	cps
Copper	63-2	3274	3470	3514	3419	3.74	cps
Dysprosium	156-1	10	0	13	8	89.21	cps
Dysprosium	156-2	7	0	3	3	100.05	cps
Erbium	164-1	23	23	17	21	18.21	cps
Erbium	164-2	13	13	10	12	15.73	cps
Gadolinium	160-1	7	23	7	12	78.69	cps
Gadolinium	160-2	223	167	173	188	16.49	cps
Holmium	165-1	3897068	3838678	3789133	3841627	1.41	cps
Holmium	165-2	3273022	3206683	3223572	3234426	1.07	cps
Indium	115-1	3531849	3498253	3443855	3491319	1.27	cps
Indium	115-2	1345828	1344493	1353056	1347792	0.34	cps
Iron	56-2	31219	32301	32562	32028	2.22	cps
Iron	57-2	1543	1707	1733	1661	6.19	cps
Iron	54-2	3587	3490	3587	3555	1.57	cps
Krypton	83-1	327	393	407	376	11.41	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1140	1097	997	1078	6.82	cps
Lead	207-1	957	950	930	946	1.47	cps
Lead	208-1	4527	4547	4337	4470	2.59	cps
Lithium	6-1	527139	519947	515687	520924	1.11	cps
Magnesium	24-2	2494	2394	2314	2400	3.76	cps
Manganese	55-2	973	1033	1023	1010	3.18	cps
Molybdenum	94-1	233	290	293	272	12.39	cps
Molybdenum	95-1	260	300	210	257	17.57	cps
Molybdenum	96-1	377	440	407	408	7.77	cps
Molybdenum	97-1	130	223	247	200	30.87	cps
Molybdenum	98-1	410	510	493	471	11.37	cps
Neodymium	150-1	0	3	7	3	100.05	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	267	343	297	302	12.78	cps
Phosphorus	31-2	363	350	323	346	5.89	cps
Potassium	39-2	58241	57113	58643	57999	1.37	cps
Rhodium	103-1	3342972	3399396	3345059	3362476	0.95	cps
Rhodium	103-2	2148029	2138806	2123559	2136798	0.58	cps
Scandium	45-1	2082158	2132847	2089137	2101381	1.31	cps
Scandium	45-2	173687	174135	174121	173981	0.15	cps
Selenium	82-1	144	125	92	121	21.62	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	980	900	957	946	4.35	cps
Silicon	28-1	1687338	1637426	1653955	1659573	1.53	cps
Silver	107-1	113	113	73	100	23.10	cps
Silver	109-1	63	73	80	72	11.62	cps
Sodium	23-2	19940	19890	20157	19995	0.71	cps
Strontium	86-1	617	663	693	658	5.87	cps
Strontium	88-1	263	213	370	282	28.35	cps
Sulfur	34-1	135208	133651	135941	134934	0.87	cps
Terbium	159-1	4037562	3991708	3949535	3992935	1.10	cps
Terbium	159-2	3227259	3156320	3258241	3213940	1.63	cps
Thallium	203-1	313	333	357	334	6.49	cps
Thallium	205-1	833	840	910	861	4.93	cps
Tin	118-1	897	850	1040	929	10.66	cps
Titanium	47-1	107	97	130	111	15.39	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:27:55	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	463	493	473	477	3.20	cps
Vanadium	51-2	53	60	67	60	11.12	cps
Yttrium	89-1	6040005	5944703	6025138	6003282	0.85	cps
Yttrium	89-2	1832596	1853052	1888795	1858148	1.53	cps
Zinc	66-2	380	497	420	432	13.72	cps
Zirconium	90-1	417	410	423	417	1.60	cps
Zirconium	91-1	77	70	100	82	19.16	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13515306	13670552	13497671	13561176	0.70	cps
Antimony	121-1	13980	14184	14471	14212	1.73	cps
Arsenic	75-2	140	143	180	154	14.37	cps
Barium	135-1	17781	17781	18072	17878	0.94	cps
Barium	137-1	30473	30599	31508	30860	1.83	cps
Beryllium	9-1	332	282	329	314	8.97	cps
Bismuth	209-1	2425847	2313809	2468729	2402795	3.33	cps
Bismuth	209-2	2229215	2252981	2178871	2220356	1.70	cps
Bromine	81-1	29506	31293	28424	29741	4.87	cps
Bromine	81-2	317	260	290	289	9.81	cps
Cadmium	108-1	743	723	733	733	1.36	cps
Cadmium	106-1	1170	1320	1240	1243	6.04	cps
Cadmium	111-1	1578	1658	1579	1605	2.86	cps
Calcium	43-1	1727737	1718088	1706617	1717481	0.62	cps
Calcium	44-1	28062666	28222238	27769245	28018050	0.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	48665	48762	48327	48585	0.47	cps
Cobalt	59-2	5084	4994	5171	5083	1.74	cps
Copper	63-2	39198	39011	38456	38888	0.99	cps
Dysprosium	156-1	27	30	23	27	12.51	cps
Dysprosium	156-2	50	27	30	36	35.49	cps
Erbium	164-1	53	57	43	51	13.58	cps
Erbium	164-2	57	33	40	43	27.74	cps
Gadolinium	160-1	47	27	23	32	39.17	cps
Gadolinium	160-2	163	133	153	150	10.18	cps
Holmium	165-1	4182822	3922632	4129865	4078440	3.37	cps
Holmium	165-2	3323596	3339532	3221590	3294906	1.94	cps
Indium	115-1	3373254	3415682	3368755	3385897	0.76	cps
Indium	115-2	1311543	1297680	1298001	1302408	0.61	cps
Iron	56-2	245065216	241878143	243271990	243405116	0.66	cps
Iron	57-2	6015099	6044371	6021401	6026957	0.26	cps
Iron	54-2	13486203	13378692	13559773	13474889	0.68	cps
Krypton	83-1	307	363	370	347	10.04	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22472	21317	22335	22041	2.86	cps
Lead	207-1	17401	17037	17735	17391	2.01	cps
Lead	208-1	83834	80516	84472	82941	2.56	cps
Lithium	6-1	531840	510712	520223	520925	2.03	cps
Magnesium	24-2	23312503	23485355	23403333	23400397	0.37	cps
Manganese	55-2	16503	16943	17003	16816	1.63	cps
Molybdenum	94-1	3339841	3476065	3416499	3410802	2.00	cps
Molybdenum	95-1	5902612	6166836	5958191	6009213	2.32	cps
Molybdenum	96-1	6252726	6609309	6320392	6394142	2.96	cps
Molybdenum	97-1	3619256	3776598	3633256	3676370	2.37	cps
Molybdenum	98-1	9571046	9840433	9378884	9596787	2.42	cps
Neodymium	150-1	27	27	47	33	34.64	cps
Neodymium	150-2	13	3	30	16	86.63	cps
Nickel	60-2	6191	6455	6605	6417	3.26	cps
Phosphorus	31-2	776686	784967	774783	778812	0.70	cps
Potassium	39-2	31789848	31886973	31820983	31832601	0.16	cps
Rhodium	103-1	3151731	3256773	3132642	3180382	2.10	cps
Rhodium	103-2	2074854	2053195	2033471	2053840	1.01	cps
Scandium	45-1	2084905	2062777	2083994	2077225	0.60	cps
Scandium	45-2	173825	170083	171083	171664	1.13	cps
Selenium	82-1	753	745	694	730	4.34	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	783	680	797	753	8.48	cps
Silicon	28-1	1452944	1453895	1461549	1456129	0.32	cps
Silver	107-1	263	323	320	302	11.16	cps
Silver	109-1	313	300	347	320	7.51	cps
Sodium	23-2	40459254	40397419	40217809	40358161	0.31	cps
Strontium	86-1	61404	64356	61280	62347	2.79	cps
Strontium	88-1	539437	567273	534470	547060	3.23	cps
Sulfur	34-1	2823277	2862213	2813593	2833028	0.91	cps
Terbium	159-1	4199776	4095132	4258041	4184317	1.97	cps
Terbium	159-2	3220124	3196991	3253847	3223654	0.89	cps
Thallium	203-1	1233	1267	1350	1283	4.68	cps
Thallium	205-1	3000	2817	3144	2987	5.48	cps
Tin	118-1	4077	4017	3907	4001	2.16	cps
Titanium	47-1	1633366	1625695	1611156	1623406	0.69	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:40:52	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	900	840	920	887	4.70	cps
Vanadium	51-2	507	490	563	520	7.39	cps
Yttrium	89-1	5826628	6193244	5782352	5934075	3.80	cps
Yttrium	89-2	1852485	1788726	1871714	1837641	2.36	cps
Zinc	66-2	10701	10110	10530	10447	2.91	cps
Zirconium	90-1	573	640	603	606	5.51	cps
Zirconium	91-1	157	113	143	138	16.11	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13653979	13637337	13470135	13587150	0.75	cps
Antimony	121-1	107035	112150	109651	109612	2.33	cps
Arsenic	75-2	6928	6835	6998	6921	1.18	cps
Barium	135-1	28729	31011	29310	29683	3.99	cps
Barium	137-1	50640	50995	50395	50677	0.59	cps
Beryllium	9-1	16097	15263	15849	15736	2.72	cps
Bismuth	209-1	2463685	2290388	2309790	2354621	4.03	cps
Bismuth	209-2	2282985	2250786	2228418	2254063	1.22	cps
Bromine	81-1	29439	30037	31046	30174	2.69	cps
Bromine	81-2	277	317	250	281	11.94	cps
Cadmium	108-1	2437	2737	2580	2585	5.81	cps
Cadmium	106-1	3947	4347	3917	4071	5.90	cps
Cadmium	111-1	31158	33250	31936	32115	3.29	cps
Calcium	43-1	1673128	1645382	1683556	1667355	1.18	cps
Calcium	44-1	27678595	27279650	27386900	27448382	0.75	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96617	96318	97053	96663	0.38	cps
Cobalt	59-2	81631	82039	82455	82042	0.50	cps
Copper	63-2	88912	90149	88644	89235	0.90	cps
Dysprosium	156-1	43	27	30	33	26.45	cps
Dysprosium	156-2	33	17	17	22	43.28	cps
Erbium	164-1	73	63	63	67	8.66	cps
Erbium	164-2	40	30	50	40	25.00	cps
Gadolinium	160-1	47	63	43	51	20.96	cps
Gadolinium	160-2	153	203	177	178	14.07	cps
Holmium	165-1	4106418	3955287	3935308	3999004	2.34	cps
Holmium	165-2	3368909	3335510	3276034	3326818	1.41	cps
Indium	115-1	3343610	3512730	3434451	3430264	2.47	cps
Indium	115-2	1316851	1320524	1318118	1318497	0.14	cps
Iron	56-2	251481716	252038416	247925076	250481736	0.89	cps
Iron	57-2	6035953	6200870	6200671	6145831	1.55	cps
Iron	54-2	13414519	13585209	13559377	13519702	0.68	cps
Krypton	83-1	283	350	403	346	17.40	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	97268	93347	94989	95201	2.07	cps
Lead	207-1	81301	79169	77801	79424	2.22	cps
Lead	208-1	378226	362498	364890	368538	2.30	cps
Lithium	6-1	526179	487967	495824	503323	4.01	cps
Magnesium	24-2	23449025	23882601	23711378	23681002	0.92	cps
Manganese	55-2	59808	58845	59099	59251	0.84	cps
Molybdenum	94-1	3344216	3589337	3556020	3496525	3.80	cps
Molybdenum	95-1	5867538	6135351	6196321	6066403	2.88	cps
Molybdenum	96-1	6328943	6650142	6789168	6589418	3.58	cps
Molybdenum	97-1	3706814	3803629	3835107	3781850	1.77	cps
Molybdenum	98-1	9390305	9701352	10051215	9714291	3.40	cps
Neodymium	150-1	40	57	43	47	18.90	cps
Neodymium	150-2	33	50	37	40	22.05	cps
Nickel	60-2	24714	25148	24817	24893	0.91	cps
Phosphorus	31-2	780653	768605	779182	776147	0.85	cps
Potassium	39-2	32465979	32480180	32310872	32419010	0.29	cps
Rhodium	103-1	3156942	3294355	3296442	3249246	2.46	cps
Rhodium	103-2	2080779	2039892	2102531	2074400	1.53	cps
Scandium	45-1	2091043	2000709	2033039	2041597	2.24	cps
Scandium	45-2	173154	172603	173643	173134	0.30	cps
Selenium	82-1	3215	3160	3186	3187	0.86	cps
Selenium	77-2	253	307	353	304	16.44	cps
Selenium	78-2	1647	1737	1870	1751	6.42	cps
Silicon	28-1	1620531	1732406	1676672	1676536	3.34	cps
Silver	107-1	137110	148107	146605	143941	4.14	cps
Silver	109-1	131426	138356	137331	135704	2.76	cps
Sodium	23-2	40992400	40945514	40316099	40751338	0.93	cps
Strontium	86-1	61501	64594	64015	63370	2.60	cps
Strontium	88-1	545717	567404	568105	560409	2.27	cps
Sulfur	34-1	2786516	2650984	2785052	2740851	2.84	cps
Terbium	159-1	4100202	4150262	4181525	4143996	0.99	cps
Terbium	159-2	3314422	3307944	3271028	3297798	0.71	cps
Thallium	203-1	98516	96979	94904	96800	1.87	cps
Thallium	205-1	236065	226649	225814	229509	2.48	cps
Tin	118-1	4214	4204	4021	4146	2.63	cps
Titanium	47-1	1629276	1562719	1586941	1592979	2.11	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:43:59	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	877	907	713	832	12.50	cps
Vanadium	51-2	42787	42804	42135	42575	0.90	cps
Yttrium	89-1	5868410	6174953	6118662	6054009	2.70	cps
Yttrium	89-2	1872464	1808488	1851647	1844200	1.77	cps
Zinc	66-2	16246	16716	16733	16565	1.67	cps
Zirconium	90-1	1190	1270	1183	1215	3.97	cps
Zirconium	91-1	270	307	343	307	11.96	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7463372	7607491	7529556	7533473	0.96	cps
Antimony	121-1	2766100	2784480	2827469	2792683	1.13	cps
Arsenic	75-2	168754	168380	168913	168683	0.16	cps
Barium	135-1	3833524	3807471	3828641	3823212	0.36	cps
Barium	137-1	6373852	6459473	6493965	6442430	0.96	cps
Beryllium	9-1	425420	424857	428044	426107	0.40	cps
Bismuth	209-1	2315134	2353704	2301328	2323389	1.17	cps
Bismuth	209-2	2219559	2132227	2151510	2167766	2.12	cps
Bromine	81-1	30381	29627	30148	30052	1.29	cps
Bromine	81-2	140	183	173	166	13.71	cps
Cadmium	108-1	51578	51923	52772	52091	1.18	cps
Cadmium	106-1	75683	75230	75030	75314	0.44	cps
Cadmium	111-1	794566	796495	793157	794739	0.21	cps
Calcium	43-1	4160113	4224168	4246105	4210128	1.06	cps
Calcium	44-1	68953392	69566437	69676962	69398931	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1337939	1326065	1346607	1336870	0.77	cps
Cobalt	59-2	2127810	2117706	2113954	2119823	0.34	cps
Copper	63-2	15757237	15292714	15481764	15510572	1.51	cps
Dysprosium	156-1	103	103	90	99	7.79	cps
Dysprosium	156-2	290	260	263	271	6.07	cps
Erbium	164-1	160	153	150	154	3.30	cps
Erbium	164-2	123	107	117	116	7.26	cps
Gadolinium	160-1	137	87	127	117	22.68	cps
Gadolinium	160-2	200	230	187	206	10.80	cps
Holmium	165-1	4130742	4163740	4126282	4140255	0.49	cps
Holmium	165-2	3355183	3333642	3328057	3338961	0.43	cps
Indium	115-1	3416618	3465702	3377113	3419811	1.30	cps
Indium	115-2	1312895	1308557	1299447	1306966	0.53	cps
Iron	56-2	309068395	309998462	311632875	310233244	0.42	cps
Iron	57-2	7635749	7716176	7731403	7694443	0.67	cps
Iron	54-2	16837185	17017064	16636404	16830218	1.13	cps
Krypton	83-1	390	370	510	423	17.89	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10320920	10506979	10366688	10398196	0.93	cps
Lead	207-1	9034620	9250965	9212724	9166103	1.26	cps
Lead	208-1	41332251	42226507	41597462	41718740	1.10	cps
Lithium	6-1	513491	514282	515288	514354	0.18	cps
Magnesium	24-2	64558994	64335211	64523046	64472417	0.19	cps
Manganese	55-2	11959712	11930554	12021698	11970655	0.39	cps
Molybdenum	94-1	10946712	10993855	11000417	10980328	0.27	cps
Molybdenum	95-1	15558945	15544604	15398388	15500645	0.57	cps
Molybdenum	96-1	17060635	16975243	16979970	17005283	0.28	cps
Molybdenum	97-1	9542692	9592026	9692041	9608919	0.79	cps
Molybdenum	98-1	24349172	24629898	24483110	24487393	0.57	cps
Neodymium	150-1	207	180	187	191	7.26	cps
Neodymium	150-2	87	90	90	89	2.16	cps
Nickel	60-2	480746	477442	477810	478666	0.38	cps
Phosphorus	31-2	81231	80136	80956	80774	0.71	cps
Potassium	39-2	41769879	41504327	41378751	41550986	0.48	cps
Rhodium	103-1	3122870	3145924	3085078	3117957	0.99	cps
Rhodium	103-2	2063706	2069934	2062980	2065540	0.19	cps
Scandium	45-1	2073231	2106192	2077435	2085619	0.86	cps
Scandium	45-2	179632	181157	179035	179941	0.61	cps
Selenium	82-1	64939	65499	64563	65000	0.73	cps
Selenium	77-2	6942	7025	6995	6987	0.60	cps
Selenium	78-2	24727	24197	24073	24332	1.43	cps
Silicon	28-1	5314242	5356237	5381942	5350807	0.64	cps
Silver	107-1	3751109	3760782	3862506	3791466	1.63	cps
Silver	109-1	3658356	3656453	3648211	3654340	0.15	cps
Sodium	23-2	100307812	100880802	100020995	100403203	0.44	cps
Strontium	86-1	895953	910278	904897	903710	0.80	cps
Strontium	88-1	8909857	8958319	8820731	8896302	0.78	cps
Sulfur	34-1	357017	353904	357363	356095	0.53	cps
Terbium	159-1	4161002	4219417	4150562	4176994	0.89	cps
Terbium	159-2	3334607	3271310	3253979	3286632	1.29	cps
Thallium	203-1	2644146	2714799	2638482	2665809	1.60	cps
Thallium	205-1	6301588	6280339	6166658	6249528	1.16	cps
Tin	118-1	2465713	2493602	2506934	2488749	0.85	cps
Titanium	47-1	4013667	4017520	4051099	4027429	0.51	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:49:55	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8259989	8183407	8198148	8213848	0.49	cps
Vanadium	51-2	1075745	1085605	1072004	1077785	0.65	cps
Yttrium	89-1	6107805	6122183	6101871	6110620	0.17	cps
Yttrium	89-2	1869792	1906358	1860021	1878724	1.30	cps
Zinc	66-2	2927415	2867580	2875528	2890175	1.12	cps
Zirconium	90-1	5351241	5451990	5435116	5412782	1.00	cps
Zirconium	91-1	1082114	1095616	1084211	1087314	0.67	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	927	850	937	904	5.24	cps
Antimony	121-1	377	307	330	338	10.55	cps
Arsenic	75-2	30	10	3	14	96.09	cps
Barium	135-1	270	193	157	207	27.98	cps
Barium	137-1	420	333	350	368	12.50	cps
Beryllium	9-1	112	141	110	121	14.25	cps
Bismuth	209-1	2485359	2525777	2463662	2491599	1.27	cps
Bismuth	209-2	2430666	2419121	2367050	2405612	1.41	cps
Bromine	81-1	30188	29964	30211	30121	0.45	cps
Bromine	81-2	243	210	143	199	25.60	cps
Cadmium	108-1	10	17	7	11	45.82	cps
Cadmium	106-1	1327	1340	1313	1327	1.01	cps
Cadmium	111-1	1303	1340	1293	1312	1.88	cps
Calcium	43-1	670	677	717	688	3.67	cps
Calcium	44-1	14681	13790	13326	13932	4.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	650	660	713	674	5.05	cps
Cobalt	59-2	327	333	357	339	4.65	cps
Copper	63-2	5855	5941	5798	5865	1.23	cps
Dysprosium	156-1	0	7	0	2	173.21	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	7	20	30	19	61.96	cps
Erbium	164-2	17	30	30	26	30.11	cps
Gadolinium	160-1	20	17	3	13	66.16	cps
Gadolinium	160-2	157	150	200	169	16.07	cps
Holmium	165-1	4107867	4138329	4110650	4118949	0.41	cps
Holmium	165-2	3414183	3443521	3372016	3409907	1.05	cps
Indium	115-1	3637962	3699339	3712289	3683197	1.08	cps
Indium	115-2	1392023	1381973	1383581	1385859	0.39	cps
Iron	56-2	46656	46058	45495	46070	1.26	cps
Iron	57-2	1820	1883	1753	1819	3.57	cps
Iron	54-2	4417	4157	4164	4246	3.49	cps
Krypton	83-1	363	390	397	383	4.60	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1357	1480	1340	1392	5.49	cps
Lead	207-1	1387	1237	1223	1282	7.07	cps
Lead	208-1	5777	5744	5544	5688	2.22	cps
Lithium	6-1	531779	541950	532344	535358	1.07	cps
Magnesium	24-2	4554	4757	4391	4567	4.02	cps
Manganese	55-2	1313	1390	1423	1376	4.10	cps
Molybdenum	94-1	787	643	653	694	11.52	cps
Molybdenum	95-1	997	923	813	911	10.13	cps
Molybdenum	96-1	1083	983	947	1004	7.04	cps
Molybdenum	97-1	720	503	513	579	21.13	cps
Molybdenum	98-1	1623	1397	1327	1449	10.70	cps
Neodymium	150-1	3	0	3	2	86.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	333	387	377	366	7.76	cps
Phosphorus	31-2	393	387	387	389	0.99	cps
Potassium	39-2	61828	61908	61487	61741	0.36	cps
Rhodium	103-1	3448856	3379377	3471085	3433106	1.39	cps
Rhodium	103-2	2279780	2186247	2220647	2228891	2.12	cps
Scandium	45-1	2117431	2147351	2069349	2111377	1.86	cps
Scandium	45-2	178653	180323	179611	179529	0.47	cps
Selenium	82-1	121	159	122	134	15.89	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	960	833	860	884	7.55	cps
Silicon	28-1	1526187	1495085	1499197	1506823	1.12	cps
Silver	107-1	257	317	213	262	19.79	cps
Silver	109-1	253	247	183	228	16.96	cps
Sodium	23-2	28677	29017	28520	28738	0.89	cps
Strontium	86-1	713	687	637	679	5.73	cps
Strontium	88-1	547	513	553	538	3.98	cps
Sulfur	34-1	121397	122559	121992	121983	0.48	cps
Terbium	159-1	4287465	4262510	4241105	4263693	0.54	cps
Terbium	159-2	3358942	3370885	3377118	3368982	0.27	cps
Thallium	203-1	1037	970	870	959	8.75	cps
Thallium	205-1	2240	2027	2054	2107	5.52	cps
Tin	118-1	1083	1103	1090	1092	0.93	cps
Titanium	47-1	270	267	200	246	16.08	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:56:04	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	927	733	590	750	22.53	cps
Vanadium	51-2	90	87	77	84	8.22	cps
Yttrium	89-1	6325779	6329480	6269570	6308276	0.53	cps
Yttrium	89-2	1896960	1928978	1873475	1899804	1.47	cps
Zinc	66-2	570	480	470	507	10.87	cps
Zirconium	90-1	590	523	537	550	6.41	cps
Zirconium	91-1	173	127	100	133	27.84	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3534	3917	3610	3687	5.50	cps
Antimony	121-1	11104	11415	11358	11292	1.46	cps
Arsenic	75-2	450	413	473	446	6.79	cps
Barium	135-1	14384	14144	14541	14356	1.39	cps
Barium	137-1	24812	24865	25460	25045	1.44	cps
Beryllium	9-1	1027	972	1036	1012	3.42	cps
Bismuth	209-1	2552667	2508816	2536826	2532770	0.88	cps
Bismuth	209-2	2376910	2345593	2366430	2362977	0.67	cps
Bromine	81-1	30836	30448	29967	30417	1.43	cps
Bromine	81-2	160	213	220	198	16.63	cps
Cadmium	108-1	170	113	127	137	21.68	cps
Cadmium	106-1	1663	1677	1537	1626	4.75	cps
Cadmium	111-1	3198	3283	3059	3180	3.55	cps
Calcium	43-1	9113	9363	8933	9136	2.37	cps
Calcium	44-1	154549	155337	155107	154998	0.26	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5895	5935	5781	5870	1.36	cps
Cobalt	59-2	4841	4724	4561	4709	2.99	cps
Copper	63-2	11248	11551	11441	11413	1.35	cps
Dysprosium	156-1	10	3	7	7	50.03	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	23	50	33	36	37.90	cps
Erbium	164-2	23	23	23	23	0.00	cps
Gadolinium	160-1	23	7	13	14	58.06	cps
Gadolinium	160-2	157	147	173	159	8.48	cps
Holmium	165-1	4147937	4026372	4145345	4106551	1.69	cps
Holmium	165-2	3484869	3367574	3331088	3394510	2.37	cps
Indium	115-1	3544860	3550022	3686374	3593752	2.23	cps
Indium	115-2	1387405	1379879	1382434	1383239	0.28	cps
Iron	56-2	167308	173465	171146	170640	1.82	cps
Iron	57-2	5041	5288	5384	5238	3.38	cps
Iron	54-2	11074	11821	11431	11442	3.27	cps
Krypton	83-1	337	447	367	383	14.83	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5298	5298	5298	5298	0.00	cps
Lead	207-1	4581	4431	4718	4576	3.13	cps
Lead	208-1	21347	20997	21097	21147	0.85	cps
Lithium	6-1	539920	538672	539775	539456	0.13	cps
Magnesium	24-2	124510	126070	124597	125059	0.70	cps
Manganese	55-2	3577	3660	3617	3618	1.15	cps
Molybdenum	94-1	12409	12692	12799	12633	1.60	cps
Molybdenum	95-1	15498	15398	15331	15409	0.54	cps
Molybdenum	96-1	17214	17103	17037	17118	0.52	cps
Molybdenum	97-1	9843	9226	9540	9537	3.24	cps
Molybdenum	98-1	24754	24277	25138	24723	1.75	cps
Neodymium	150-1	3	7	10	7	50.03	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	1453	1527	1503	1495	2.51	cps
Phosphorus	31-2	590	673	667	643	7.20	cps
Potassium	39-2	223964	226051	224374	224796	0.49	cps
Rhodium	103-1	3450382	3390150	3416818	3419117	0.88	cps
Rhodium	103-2	2217944	2199704	2233619	2217089	0.77	cps
Scandium	45-1	2114040	2146917	2086124	2115694	1.44	cps
Scandium	45-2	178960	178429	176918	178102	0.59	cps
Selenium	82-1	846	717	837	800	9.00	cps
Selenium	77-2	123	87	77	96	25.71	cps
Selenium	78-2	1213	1053	1070	1112	7.91	cps
Silicon	28-1	1477292	1517107	1522989	1505796	1.65	cps
Silver	107-1	8202	8139	7826	8056	2.51	cps
Silver	109-1	7635	7595	7499	7576	0.93	cps
Sodium	23-2	217333	216768	217571	217224	0.19	cps
Strontium	86-1	2557	2634	2697	2629	2.67	cps
Strontium	88-1	17627	17961	17964	17851	1.08	cps
Sulfur	34-1	123403	125439	126404	125082	1.22	cps
Terbium	159-1	4396146	4137193	4242888	4258743	3.06	cps
Terbium	159-2	3328787	3338419	3370040	3345748	0.65	cps
Thallium	203-1	6011	5808	5635	5818	3.24	cps
Thallium	205-1	13644	14211	13714	13856	2.23	cps
Tin	118-1	25930	25389	25139	25486	1.59	cps
Titanium	47-1	4081	4054	3957	4031	1.61	cps

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 17:59:22	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15666	15956	15482	15702	1.52	cps
Vanadium	51-2	11168	11154	11291	11204	0.67	cps
Yttrium	89-1	6393139	6155505	6187913	6245519	2.06	cps
Yttrium	89-2	1920164	1913203	1926087	1919818	0.34	cps
Zinc	66-2	3410	3300	3350	3354	1.64	cps
Zirconium	90-1	10617	10944	10437	10666	2.41	cps
Zirconium	91-1	2384	2387	2244	2338	3.50	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	793	767	850	803	5.30	cps
Antimony	121-1	150	203	197	183	15.85	cps
Arsenic	75-2	13	23	20	19	26.96	cps
Barium	135-1	160	213	163	179	16.70	cps
Barium	137-1	310	280	327	306	7.74	cps
Beryllium	9-1	110	91	100	100	9.72	cps
Bismuth	209-1	2445181	2458329	2423436	2442315	0.72	cps
Bismuth	209-2	2376888	2289592	2322308	2329596	1.89	cps
Bromine	81-1	29112	28935	29035	29028	0.31	cps
Bromine	81-2	193	187	213	198	7.02	cps
Cadmium	108-1	13	17	3	11	62.48	cps
Cadmium	106-1	1393	1287	1303	1328	4.32	cps
Cadmium	111-1	1346	1301	1295	1314	2.13	cps
Calcium	43-1	623	623	580	609	4.11	cps
Calcium	44-1	12996	13770	13109	13292	3.14	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	677	610	520	602	13.06	cps
Cobalt	59-2	313	280	337	310	9.19	cps
Copper	63-2	4901	4924	4834	4886	0.96	cps
Dysprosium	156-1	7	20	10	12	56.76	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	37	17	20	24	43.83	cps
Erbium	164-2	20	27	20	22	17.33	cps
Gadolinium	160-1	13	23	20	19	26.96	cps
Gadolinium	160-2	140	157	160	152	7.04	cps
Holmium	165-1	4072886	3967773	4054891	4031850	1.39	cps
Holmium	165-2	3283030	3287529	3293724	3288094	0.16	cps
Indium	115-1	3586254	3606592	3546622	3579823	0.85	cps
Indium	115-2	1367477	1353994	1348961	1356811	0.71	cps
Iron	56-2	40321	39669	39692	39894	0.93	cps
Iron	57-2	1687	1810	1800	1766	3.88	cps
Iron	54-2	3781	4167	3894	3947	5.04	cps
Krypton	83-1	443	333	337	371	16.86	cps

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1167	1210	1203	1193	1.96	cps
Lead	207-1	930	1023	1037	997	5.83	cps
Lead	208-1	4514	4967	4784	4755	4.80	cps
Lithium	6-1	535470	529578	530792	531947	0.58	cps
Magnesium	24-2	3861	4007	3887	3918	1.99	cps
Manganese	55-2	1223	1067	1293	1195	9.72	cps
Molybdenum	94-1	543	540	597	560	5.68	cps
Molybdenum	95-1	517	633	587	579	10.14	cps
Molybdenum	96-1	673	800	773	749	8.92	cps
Molybdenum	97-1	430	433	293	386	20.72	cps
Molybdenum	98-1	873	997	1000	957	7.55	cps
Neodymium	150-1	0	0	3	1	173.21	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	307	340	327	324	5.17	cps
Phosphorus	31-2	320	373	347	347	7.69	cps
Potassium	39-2	60114	60536	60068	60240	0.43	cps
Rhodium	103-1	3397028	3331392	3327093	3351838	1.17	cps
Rhodium	103-2	2237058	2161148	2153695	2183967	2.11	cps
Scandium	45-1	2103908	2087638	2088044	2093196	0.44	cps
Scandium	45-2	175922	175279	175646	175616	0.18	cps
Selenium	82-1	85	173	196	152	38.48	cps
Selenium	77-2	0	0	10	3	173.21	cps
Selenium	78-2	840	893	803	846	5.35	cps
Silicon	28-1	1476039	1505688	1502136	1494621	1.08	cps
Silver	107-1	133	173	173	160	14.43	cps
Silver	109-1	150	133	110	131	15.32	cps
Sodium	23-2	26209	26122	26319	26217	0.38	cps
Strontium	86-1	593	660	563	606	8.17	cps
Strontium	88-1	413	310	433	386	17.17	cps
Sulfur	34-1	123373	123793	124744	123970	0.57	cps
Terbium	159-1	4189430	4178709	4201053	4189731	0.27	cps
Terbium	159-2	3344390	3335659	3183171	3287740	2.76	cps
Thallium	203-1	840	807	797	814	2.79	cps
Thallium	205-1	1853	1903	1920	1892	1.83	cps
Tin	118-1	1033	1010	920	988	6.06	cps
Titanium	47-1	190	180	193	188	3.70	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BL	Instrumnet Name :	P7
Client Sample ID :	PB167152BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:02:42	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	610	687	617	638	6.66	cps
Vanadium	51-2	67	80	70	72	9.61	cps
Yttrium	89-1	6099687	6076375	6184506	6120189	0.93	cps
Yttrium	89-2	1904595	1865047	1812434	1860692	2.48	cps
Zinc	66-2	503	630	480	538	15.01	cps
Zirconium	90-1	483	457	447	462	4.10	cps
Zirconium	91-1	87	90	103	93	9.45	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1418398	1446558	1472714	1445890	1.88	cps
Antimony	121-1	2772493	2847052	2804098	2807881	1.33	cps
Arsenic	75-2	171162	170545	170849	170852	0.18	cps
Barium	135-1	3689514	3658284	3660679	3669492	0.47	cps
Barium	137-1	6174604	6274633	6362613	6270617	1.50	cps
Beryllium	9-1	416365	416617	422957	418647	0.89	cps
Bismuth	209-1	2508574	2437481	2413440	2453165	2.02	cps
Bismuth	209-2	2313941	2331122	2302768	2315944	0.62	cps
Bromine	81-1	28748	28591	28447	28596	0.53	cps
Bromine	81-2	217	203	217	212	3.63	cps
Cadmium	108-1	53288	53625	54198	53704	0.86	cps
Cadmium	106-1	75341	75565	77275	76060	1.39	cps
Cadmium	111-1	809393	814720	809704	811272	0.37	cps
Calcium	43-1	776222	776394	787816	780144	0.85	cps
Calcium	44-1	13513754	13635826	13713835	13621138	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1310300	1287618	1290873	1296264	0.95	cps
Cobalt	59-2	2080317	2072212	2128287	2093605	1.45	cps
Copper	63-2	15584566	15904331	15603575	15697491	1.14	cps
Dysprosium	156-1	50	90	80	73	28.39	cps
Dysprosium	156-2	163	173	183	173	5.77	cps
Erbium	164-1	70	50	57	59	17.29	cps
Erbium	164-2	33	43	60	46	29.58	cps
Gadolinium	160-1	43	30	27	33	26.45	cps
Gadolinium	160-2	127	190	180	166	20.56	cps
Holmium	165-1	4139740	4086287	4029480	4085169	1.35	cps
Holmium	165-2	3342087	3299138	3354974	3332066	0.88	cps
Indium	115-1	3452265	3490487	3474605	3472452	0.55	cps
Indium	115-2	1346058	1338095	1340636	1341596	0.30	cps
Iron	56-2	62343931	62079134	62313652	62245572	0.23	cps
Iron	57-2	1550963	1534348	1545133	1543481	0.55	cps
Iron	54-2	3440329	3459786	3393533	3431216	0.99	cps
Krypton	83-1	380	337	353	357	6.13	cps

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10539900	10603048	10525800	10556249	0.39	cps
Lead	207-1	9302574	9152300	9333405	9262760	1.05	cps
Lead	208-1	42449092	41835919	42386195	42223735	0.80	cps
Lithium	6-1	533414	525145	531513	530024	0.82	cps
Magnesium	24-2	12567344	12611627	12732843	12637271	0.68	cps
Manganese	55-2	11626322	12016977	11816921	11820074	1.65	cps
Molybdenum	94-1	10350036	10428179	10662919	10480378	1.55	cps
Molybdenum	95-1	14947254	15145392	15099140	15063929	0.69	cps
Molybdenum	96-1	16256956	16367211	16532497	16385555	0.85	cps
Molybdenum	97-1	9291686	9350294	9338444	9326808	0.33	cps
Molybdenum	98-1	24010435	23720425	23987855	23906238	0.67	cps
Neodymium	150-1	140	170	140	150	11.55	cps
Neodymium	150-2	37	43	37	39	9.89	cps
Nickel	60-2	486495	484378	481508	484127	0.52	cps
Phosphorus	31-2	78146	78226	78896	78422	0.53	cps
Potassium	39-2	8386401	8133710	8246411	8255507	1.53	cps
Rhodium	103-1	3340813	3331357	3322233	3331468	0.28	cps
Rhodium	103-2	2167193	2157000	2170334	2164842	0.32	cps
Scandium	45-1	2056821	2076749	2117431	2083667	1.48	cps
Scandium	45-2	178458	179938	178415	178937	0.48	cps
Selenium	82-1	66944	67453	67835	67411	0.66	cps
Selenium	77-2	7248	7319	7612	7393	2.61	cps
Selenium	78-2	25192	24914	25368	25158	0.91	cps
Silicon	28-1	6138053	6373509	6381802	6297788	2.20	cps
Silver	107-1	4015508	3883769	3998999	3966092	1.81	cps
Silver	109-1	3831181	3778217	3877030	3828810	1.29	cps
Sodium	23-2	20008381	20387841	20021494	20139239	1.07	cps
Strontium	86-1	873606	880575	877226	877136	0.40	cps
Strontium	88-1	8577997	8597926	8616109	8597344	0.22	cps
Sulfur	34-1	333560	334468	335592	334540	0.30	cps
Terbium	159-1	4220525	4169189	4224374	4204696	0.73	cps
Terbium	159-2	3282257	3422146	3335884	3346762	2.11	cps
Thallium	203-1	2591092	2666885	2632444	2630140	1.44	cps
Thallium	205-1	6268227	6332811	6318708	6306582	0.54	cps
Tin	118-1	2420473	2458269	2425403	2434715	0.84	cps
Titanium	47-1	3823476	3915341	3961189	3900002	1.80	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	PB167152BS	Instrumnet Name :	P7
Client Sample ID :	PB167152BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:08:57	DataFile Name :	033LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7938200	7858616	7930367	7909061	0.55	cps
Vanadium	51-2	1048961	1052296	1043838	1048365	0.41	cps
Yttrium	89-1	6126341	6156695	6148185	6143740	0.25	cps
Yttrium	89-2	1922288	1868266	1872741	1887765	1.59	cps
Zinc	66-2	3012868	3054140	2951002	3006003	1.73	cps
Zirconium	90-1	5206972	5227173	5339863	5258003	1.36	cps
Zirconium	91-1	1046454	1046056	1048072	1046860	0.10	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100034	96985	98930	98650	1.57	cps
Antimony	121-1	1333	1483	1477	1431	5.92	cps
Arsenic	75-2	150	163	140	151	7.75	cps
Barium	135-1	61144	62787	62239	62057	1.35	cps
Barium	137-1	105498	108050	106300	106616	1.22	cps
Beryllium	9-1	113	153	143	136	15.21	cps
Bismuth	209-1	2288175	2293530	2282686	2288130	0.24	cps
Bismuth	209-2	2193430	2132450	2178163	2168015	1.46	cps
Bromine	81-1	32663	34443	34744	33950	3.31	cps
Bromine	81-2	1320	1270	1350	1313	3.08	cps
Cadmium	108-1	33	30	20	28	24.98	cps
Cadmium	106-1	1383	1260	1320	1321	4.67	cps
Cadmium	111-1	1438	1334	1430	1401	4.11	cps
Calcium	43-1	268444	272701	266578	269241	1.17	cps
Calcium	44-1	4623505	4703553	4677955	4668338	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11101	11691	11134	11309	2.93	cps
Cobalt	59-2	3954	3924	4034	3971	1.43	cps
Copper	63-2	29122	29710	29750	29527	1.19	cps
Dysprosium	156-1	353	377	337	356	5.65	cps
Dysprosium	156-2	353	363	423	380	9.96	cps
Erbium	164-1	360	397	477	411	14.51	cps
Erbium	164-2	290	353	277	307	13.36	cps
Gadolinium	160-1	457	327	420	401	16.71	cps
Gadolinium	160-2	507	463	487	486	4.47	cps
Holmium	165-1	4034493	4059027	4034646	4042722	0.35	cps
Holmium	165-2	3362389	3320412	3333604	3338802	0.64	cps
Indium	115-1	3477478	3491641	3418622	3462581	1.12	cps
Indium	115-2	1322162	1320788	1324140	1322363	0.13	cps
Iron	56-2	120676798	119668075	117914355	119419743	1.17	cps
Iron	57-2	2990559	2920728	2902481	2937923	1.58	cps
Iron	54-2	6617031	6653649	6592477	6621052	0.46	cps
Krypton	83-1	427	480	407	438	8.66	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6228	6161	5695	6028	4.82	cps
Lead	207-1	5108	5184	5174	5155	0.81	cps
Lead	208-1	23842	23915	23582	23780	0.74	cps
Lithium	6-1	519098	524933	521552	521861	0.56	cps
Magnesium	24-2	204047	196457	202503	201002	2.00	cps
Manganese	55-2	526603	520365	529018	525328	0.85	cps
Molybdenum	94-1	6605	6845	6295	6582	4.19	cps
Molybdenum	95-1	6975	7275	7205	7152	2.20	cps
Molybdenum	96-1	10841	10904	10554	10766	1.73	cps
Molybdenum	97-1	4364	4511	4507	4461	1.88	cps
Molybdenum	98-1	11451	11261	11334	11349	0.85	cps
Neodymium	150-1	483	537	530	517	5.62	cps
Neodymium	150-2	437	360	377	391	10.31	cps
Nickel	60-2	3370	3254	3170	3265	3.08	cps
Phosphorus	31-2	477	573	500	517	9.76	cps
Potassium	39-2	1004460	994764	1004122	1001115	0.55	cps
Rhodium	103-1	3132221	3198524	3163627	3164790	1.05	cps
Rhodium	103-2	2068046	2027453	2050853	2048784	0.99	cps
Scandium	45-1	2085283	2094729	2052210	2077407	1.07	cps
Scandium	45-2	176385	174938	176455	175926	0.49	cps
Selenium	82-1	3027	2980	2973	2993	0.99	cps
Selenium	77-2	10	0	3	4	114.60	cps
Selenium	78-2	710	837	823	790	8.81	cps
Silicon	28-1	5386355	5470826	5449162	5435447	0.81	cps
Silver	107-1	497	573	587	552	8.80	cps
Silver	109-1	467	450	440	452	2.98	cps
Sodium	23-2	317147262	311542555	312950415	313880078	0.93	cps
Strontium	86-1	296468	300429	296191	297696	0.80	cps
Strontium	88-1	2925711	2949112	2920192	2931672	0.52	cps
Sulfur	34-1	156849	162887	163514	161083	2.28	cps
Terbium	159-1	4179591	4149510	4212207	4180436	0.75	cps
Terbium	159-2	3343320	3346775	3280473	3323523	1.12	cps
Thallium	203-1	1020	1000	1147	1056	7.54	cps
Thallium	205-1	2330	2244	2450	2341	4.43	cps
Tin	118-1	12626	12362	10901	11963	7.77	cps
Titanium	47-1	26747	28126	27388	27421	2.52	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DLX5	Instrumnet Name :	P7
Client Sample ID :	437DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:12:43	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1070	1047	1053	1057	1.14	cps
Vanadium	51-2	4134	3994	4227	4118	2.85	cps
Yttrium	89-1	6097551	6088943	6028219	6071571	0.62	cps
Yttrium	89-2	1879038	1887494	1900292	1888941	0.57	cps
Zinc	66-2	123543	122286	123325	123051	0.55	cps
Zirconium	90-1	6595	6448	6898	6647	3.45	cps
Zirconium	91-1	1357	1437	1503	1432	5.13	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13209	13359	12635	13068	2.92	cps
Antimony	121-1	1497	1720	1447	1555	9.36	cps
Arsenic	75-2	70	43	13	42	67.15	cps
Barium	135-1	17838	18379	18622	18280	2.20	cps
Barium	137-1	31535	31702	33105	32114	2.69	cps
Beryllium	9-1	128	104	105	112	11.79	cps
Bismuth	209-1	2571323	2514841	2461706	2515956	2.18	cps
Bismuth	209-2	2377258	2346824	2329753	2351278	1.02	cps
Bromine	81-1	37618	40583	41087	39763	4.71	cps
Bromine	81-2	2607	2540	2754	2634	4.14	cps
Cadmium	108-1	23	27	40	30	29.40	cps
Cadmium	106-1	1533	1477	1513	1508	1.91	cps
Cadmium	111-1	1730	1667	1726	1708	2.07	cps
Calcium	43-1	67858	70382	69659	69300	1.88	cps
Calcium	44-1	1165901	1207167	1224353	1199140	2.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1167	1130	1070	1122	4.35	cps
Cobalt	59-2	1767	1697	1647	1703	3.54	cps
Copper	63-2	16723	17133	16479	16778	1.97	cps
Dysprosium	156-1	23	7	10	13	66.12	cps
Dysprosium	156-2	3	0	20	8	137.80	cps
Erbium	164-1	40	57	30	42	31.91	cps
Erbium	164-2	27	27	17	23	24.74	cps
Gadolinium	160-1	10	37	23	23	57.15	cps
Gadolinium	160-2	167	183	143	164	12.22	cps
Holmium	165-1	4350653	4261667	4188694	4267005	1.90	cps
Holmium	165-2	3540628	3468151	3436277	3481685	1.54	cps
Indium	115-1	3854391	3745025	3697438	3765618	2.14	cps
Indium	115-2	1422401	1407642	1404211	1411418	0.68	cps
Iron	56-2	1877446	1859631	1856978	1864685	0.60	cps
Iron	57-2	45459	45031	45204	45231	0.48	cps
Iron	54-2	97238	98517	96186	97313	1.20	cps
Krypton	83-1	360	383	357	367	3.96	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6212	6161	6395	6256	1.96	cps
Lead	207-1	5514	5288	5611	5471	3.03	cps
Lead	208-1	24812	25056	25293	25054	0.96	cps
Lithium	6-1	574048	563251	543804	560368	2.74	cps
Magnesium	24-2	45768	44234	45016	45006	1.70	cps
Manganese	55-2	163033	162865	161362	162420	0.57	cps
Molybdenum	94-1	687	733	970	797	19.07	cps
Molybdenum	95-1	833	877	1247	986	23.05	cps
Molybdenum	96-1	1060	1107	1373	1180	14.33	cps
Molybdenum	97-1	633	570	813	672	18.78	cps
Molybdenum	98-1	1527	1513	1713	1585	7.06	cps
Neodymium	150-1	33	57	63	51	30.82	cps
Neodymium	150-2	30	37	40	36	14.32	cps
Nickel	60-2	1577	1553	1590	1573	1.18	cps
Phosphorus	31-2	447	443	397	429	6.52	cps
Potassium	39-2	520307	519763	519571	519880	0.07	cps
Rhodium	103-1	3672239	3464909	3505210	3547453	3.10	cps
Rhodium	103-2	2291482	2267094	2208880	2255819	1.88	cps
Scandium	45-1	2256674	2221752	2181041	2219822	1.71	cps
Scandium	45-2	186436	183750	184250	184812	0.77	cps
Selenium	82-1	574	583	591	583	1.47	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	857	963	843	888	7.41	cps
Silicon	28-1	2278505	2294411	2301556	2291491	0.51	cps
Silver	107-1	237	283	230	250	11.62	cps
Silver	109-1	213	213	220	216	1.78	cps
Sodium	23-2	60789811	61328497	62102211	61406840	1.07	cps
Strontium	86-1	50480	50868	51714	51020	1.24	cps
Strontium	88-1	437392	454042	448719	446718	1.90	cps
Sulfur	34-1	149846	149853	149146	149615	0.27	cps
Terbium	159-1	4469959	4373144	4480061	4441055	1.33	cps
Terbium	159-2	3387427	3421639	3462854	3423973	1.10	cps
Thallium	203-1	753	917	900	857	10.49	cps
Thallium	205-1	1870	2067	1820	1919	6.80	cps
Tin	118-1	2317	2327	2287	2310	0.90	cps
Titanium	47-1	533	457	510	500	7.86	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:15:59	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	700	720	823	748	8.85	cps
Vanadium	51-2	370	257	337	321	18.14	cps
Yttrium	89-1	6754652	6495548	6343744	6531315	3.18	cps
Yttrium	89-2	2022948	1968140	1988339	1993142	1.39	cps
Zinc	66-2	67425	66611	66166	66734	0.96	cps
Zirconium	90-1	630	643	837	703	16.45	cps
Zirconium	91-1	130	137	180	149	18.23	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	17580	17634	17557	17590	0.22	cps
Antimony	121-1	102217	102922	102062	102400	0.45	cps
Arsenic	75-2	10050	10280	10137	10156	1.14	cps
Barium	135-1	44386	44275	43587	44082	0.98	cps
Barium	137-1	74403	74256	75060	74573	0.57	cps
Beryllium	9-1	76	86	49	70	27.02	cps
Bismuth	209-1	1122004	1114960	1106432	1114465	0.70	cps
Bismuth	209-2	1061594	1040133	1027343	1043023	1.66	cps
Bromine	81-1	940676	1237377	1545126	1241060	24.35	cps
Bromine	81-2	306867	309122	314348	310113	1.24	cps
Cadmium	108-1	16817	16720	17060	16865	1.04	cps
Cadmium	106-1	693	643	740	692	6.98	cps
Cadmium	111-1	8688	8994	8838	8840	1.73	cps
Calcium	43-1	9603	9296	9313	9404	1.83	cps
Calcium	44-1	233575	242811	246271	240885	2.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8806	8783	8946	8845	1.00	cps
Cobalt	59-2	210	210	237	219	7.03	cps
Copper	63-2	109346	107429	107654	108143	0.97	cps
Dysprosium	156-1	50	70	40	53	28.64	cps
Dysprosium	156-2	27	60	43	43	38.46	cps
Erbium	164-1	77	30	50	52	44.83	cps
Erbium	164-2	37	47	53	46	18.41	cps
Gadolinium	160-1	20	57	40	39	47.21	cps
Gadolinium	160-2	97	137	127	120	17.35	cps
Holmium	165-1	2195905	2235962	2137515	2189794	2.26	cps
Holmium	165-2	1796332	1798732	1734009	1776358	2.07	cps
Indium	115-1	1855380	1847290	1872637	1858436	0.70	cps
Indium	115-2	730214	717131	713535	720293	1.22	cps
Iron	56-2	249905	248593	246812	248436	0.62	cps
Iron	57-2	6998	6858	7178	7012	2.29	cps
Iron	54-2	15385	15792	15098	15425	2.26	cps
Krypton	83-1	417	360	357	378	8.93	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9060	8736	9166	8987	2.49	cps
Lead	207-1	7652	7335	7612	7533	2.29	cps
Lead	208-1	35035	34925	35535	35165	0.92	cps
Lithium	6-1	320226	315582	320248	318685	0.84	cps
Magnesium	24-2	73206	73351	72852	73136	0.35	cps
Manganese	55-2	55234	54726	53662	54541	1.47	cps
Molybdenum	94-1	83866007	83878892	85581535	84442145	1.17	cps
Molybdenum	95-1	148836371	148069658	150340934	149082321	0.78	cps
Molybdenum	96-1	160490378	161614571	160739794	160948248	0.37	cps
Molybdenum	97-1	91880412	92856005	92771845	92502754	0.58	cps
Molybdenum	98-1	239367203	238463136	238356310	238728883	0.23	cps
Neodymium	150-1	43	67	37	49	32.22	cps
Neodymium	150-2	40	37	40	39	4.94	cps
Nickel	60-2	997	1017	920	978	5.22	cps
Phosphorus	31-2	20727	20814	20647	20730	0.40	cps
Potassium	39-2	240694096	238289463	236863803	238615788	0.81	cps
Rhodium	103-1	1725675	1735359	1760318	1740451	1.03	cps
Rhodium	103-2	1028870	1023424	1002263	1018185	1.38	cps
Scandium	45-1	1020692	1023345	1024159	1022732	0.18	cps
Scandium	45-2	98273	97071	95901	97082	1.22	cps
Selenium	82-1	10630	13020	13945	12532	13.65	cps
Selenium	77-2	1667	1713	1657	1679	1.80	cps
Selenium	78-2	6405	6251	6181	6279	1.82	cps
Silicon	28-1	26705610	28742430	30727114	28725051	7.00	cps
Silver	107-1	520	593	530	548	7.26	cps
Silver	109-1	667	650	660	659	1.27	cps
Sodium	23-2	211828277	217467030	208106204	212467170	2.22	cps
Strontium	86-1	13937	13887	14297	14040	1.59	cps
Strontium	88-1	116897	119588	120005	118830	1.42	cps
Sulfur	34-1	180439	184236	183686	182787	1.12	cps
Terbium	159-1	2264217	2238594	2226333	2243048	0.86	cps
Terbium	159-2	1787845	1776191	1694666	1752901	2.90	cps
Thallium	203-1	1663	1520	1513	1566	5.41	cps
Thallium	205-1	3744	3704	3414	3621	4.98	cps
Tin	118-1	10240	10057	10247	10181	1.06	cps
Titanium	47-1	3464	3700	3450	3538	3.98	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DLX5	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-20 18:22:38	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	483	397	403	428	11.27	cps
Vanadium	51-2	1520	1473	1587	1527	3.73	cps
Yttrium	89-1	3355278	3320766	3364521	3346855	0.69	cps
Yttrium	89-2	933973	915548	913691	921071	1.22	cps
Zinc	66-2	111765	110458	110341	110855	0.71	cps
Zirconium	90-1	5561	5464	5654	5560	1.71	cps
Zirconium	91-1	1173	1107	1277	1186	7.23	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1747	1863	1870	1827	3.80	cps
Antimony	121-1	10407	10130	10384	10307	1.49	cps
Arsenic	75-2	797	783	747	776	3.34	cps
Barium	135-1	4514	4501	4631	4549	1.57	cps
Barium	137-1	7922	7836	8132	7963	1.92	cps
Beryllium	9-1	65	109	75	83	27.35	cps
Bismuth	209-1	2284783	2254793	2191650	2243742	2.12	cps
Bismuth	209-2	2071946	2072444	2125172	2089854	1.46	cps
Bromine	81-1	114410	130675	140848	128644	10.37	cps
Bromine	81-2	26167	26905	27325	26799	2.19	cps
Cadmium	108-1	1670	1740	1643	1685	2.96	cps
Cadmium	106-1	1063	1120	953	1046	8.11	cps
Cadmium	111-1	1830	1912	1820	1854	2.72	cps
Calcium	43-1	1393	1257	1393	1348	5.85	cps
Calcium	44-1	34399	35612	35348	35120	1.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1633	1543	1573	1583	2.89	cps
Cobalt	59-2	153	93	123	123	24.33	cps
Copper	63-2	15308	14344	15108	14920	3.41	cps
Dysprosium	156-1	7	13	7	9	43.25	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	33	47	40	40	16.68	cps
Erbium	164-2	17	23	20	20	16.65	cps
Gadolinium	160-1	27	17	17	20	28.86	cps
Gadolinium	160-2	110	140	160	137	18.41	cps
Holmium	165-1	3701939	3717914	3731658	3717171	0.40	cps
Holmium	165-2	3016567	3049985	2989307	3018620	1.01	cps
Indium	115-1	3317442	3289978	3254841	3287420	0.95	cps
Indium	115-2	1240273	1245328	1246770	1244124	0.27	cps
Iron	56-2	47374	48220	47789	47795	0.89	cps
Iron	57-2	2057	2030	1750	1946	8.73	cps
Iron	54-2	4511	4324	4474	4436	2.23	cps
Krypton	83-1	433	460	457	450	3.23	cps

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1670	1610	1830	1703	6.68	cps
Lead	207-1	1437	1480	1460	1459	1.49	cps
Lead	208-1	6797	6661	6947	6802	2.11	cps
Lithium	6-1	502395	497463	497785	499214	0.55	cps
Magnesium	24-2	8292	8379	8226	8299	0.93	cps
Manganese	55-2	5054	5168	4904	5042	2.62	cps
Molybdenum	94-1	8645664	8617815	8552764	8605414	0.55	cps
Molybdenum	95-1	14897019	15096206	15180582	15057936	0.97	cps
Molybdenum	96-1	15938038	16412771	16230319	16193709	1.48	cps
Molybdenum	97-1	9327645	9496328	9269497	9364490	1.26	cps
Molybdenum	98-1	24150634	24310241	24248087	24236321	0.33	cps
Neodymium	150-1	0	10	7	6	91.64	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	563	590	473	542	11.27	cps
Phosphorus	31-2	2374	2170	2040	2195	7.66	cps
Potassium	39-2	24182589	24319840	24288065	24263498	0.30	cps
Rhodium	103-1	3125115	3070270	3113974	3103120	0.93	cps
Rhodium	103-2	2011286	2005882	2026458	2014542	0.53	cps
Scandium	45-1	1945830	1942551	1931928	1940103	0.37	cps
Scandium	45-2	163434	164135	164219	163930	0.26	cps
Selenium	82-1	1561	1597	1739	1632	5.77	cps
Selenium	77-2	213	207	227	216	4.72	cps
Selenium	78-2	1517	1440	1630	1529	6.25	cps
Silicon	28-1	4121614	4243815	4169890	4178440	1.47	cps
Silver	107-1	110	87	110	102	13.18	cps
Silver	109-1	130	80	137	116	26.80	cps
Sodium	23-2	21800821	21681420	22087914	21856718	0.96	cps
Strontium	86-1	2084	2094	1943	2040	4.11	cps
Strontium	88-1	12215	12392	12619	12409	1.63	cps
Sulfur	34-1	105884	106977	104692	105851	1.08	cps
Terbium	159-1	3977344	3905165	3938682	3940397	0.92	cps
Terbium	159-2	2969658	2983834	3048333	3000608	1.40	cps
Thallium	203-1	690	707	620	672	6.84	cps
Thallium	205-1	1710	1587	1580	1626	4.50	cps
Tin	118-1	1343	1207	1383	1311	7.07	cps
Titanium	47-1	433	387	383	401	6.97	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1577-03DL2X50	Instrumnet Name :	P7
Client Sample ID :	MOO-25-0072DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:29:58	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	343	363	343	350	3.30	cps
Vanadium	51-2	207	197	240	214	10.58	cps
Yttrium	89-1	5783526	5747727	5661000	5730751	1.10	cps
Yttrium	89-2	1727321	1741201	1745091	1737871	0.54	cps
Zinc	66-2	11848	12442	12312	12201	2.56	cps
Zirconium	90-1	843	843	870	852	1.81	cps
Zirconium	91-1	190	193	180	188	3.70	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	17043	16489	16576	16703	1.78	cps
Antimony	121-1	31090	31665	31414	31390	0.92	cps
Arsenic	75-2	293	297	267	286	5.76	cps
Barium	135-1	8326	7989	7642	7986	4.28	cps
Barium	137-1	13463	13543	13600	13535	0.51	cps
Beryllium	9-1	322	321	337	327	2.83	cps
Bismuth	209-1	2447031	2535110	2541445	2507862	2.10	cps
Bismuth	209-2	2397147	2357034	2328042	2360741	1.47	cps
Bromine	81-1	54928	53239	51654	53274	3.07	cps
Bromine	81-2	4087	3937	3580	3868	6.73	cps
Cadmium	108-1	103	97	103	101	3.80	cps
Cadmium	106-1	1440	1470	1477	1462	1.34	cps
Cadmium	111-1	1869	1949	1920	1913	2.11	cps
Calcium	43-1	31613	31446	32134	31731	1.13	cps
Calcium	44-1	525690	523788	523150	524209	0.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5241	5314	5248	5268	0.77	cps
Cobalt	59-2	1870	1800	1890	1853	2.55	cps
Copper	63-2	14587	14454	14097	14379	1.76	cps
Dysprosium	156-1	60	83	40	61	35.49	cps
Dysprosium	156-2	50	47	37	44	15.61	cps
Erbium	164-1	100	47	70	72	37.02	cps
Erbium	164-2	57	50	50	52	7.37	cps
Gadolinium	160-1	60	77	67	68	12.38	cps
Gadolinium	160-2	190	170	130	163	18.70	cps
Holmium	165-1	4198416	4083943	4251202	4177853	2.05	cps
Holmium	165-2	3392051	3336749	3386103	3371635	0.90	cps
Indium	115-1	3669369	3722994	3702659	3698341	0.73	cps
Indium	115-2	1423970	1406386	1394553	1408303	1.05	cps
Iron	56-2	13075056	13299531	13137236	13170608	0.88	cps
Iron	57-2	308296	307191	307174	307554	0.21	cps
Iron	54-2	679920	684327	679807	681351	0.38	cps
Krypton	83-1	413	417	367	399	7.01	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	239158	240517	237469	239048	0.64	cps
Lead	207-1	202960	202848	200287	202032	0.75	cps
Lead	208-1	935754	934721	937483	935986	0.15	cps
Lithium	6-1	547563	563018	553145	554576	1.41	cps
Magnesium	24-2	27585	27645	28497	27909	1.83	cps
Manganese	55-2	64347	64230	64266	64281	0.09	cps
Molybdenum	94-1	6411	6358	5735	6168	6.10	cps
Molybdenum	95-1	10384	10007	8529	9640	10.17	cps
Molybdenum	96-1	10948	10624	9253	10275	8.76	cps
Molybdenum	97-1	6401	5901	5338	5880	9.05	cps
Molybdenum	98-1	16343	15789	13456	15196	10.08	cps
Neodymium	150-1	70	70	80	73	7.87	cps
Neodymium	150-2	40	33	43	39	13.09	cps
Nickel	60-2	45181	45128	44513	44941	0.83	cps
Phosphorus	31-2	927	993	987	969	3.79	cps
Potassium	39-2	208147	212013	210952	210371	0.95	cps
Rhodium	103-1	3441294	3462488	3385308	3429697	1.16	cps
Rhodium	103-2	2258971	2259445	2262129	2260182	0.08	cps
Scandium	45-1	2096494	2227343	2173768	2165868	3.04	cps
Scandium	45-2	184638	183724	182654	183672	0.54	cps
Selenium	82-1	1110	1163	1136	1136	2.33	cps
Selenium	77-2	87	87	80	84	4.56	cps
Selenium	78-2	1163	1180	1107	1150	3.34	cps
Silicon	28-1	2286531	2285931	2268440	2280301	0.45	cps
Silver	107-1	947	1003	900	950	5.45	cps
Silver	109-1	987	793	820	867	12.09	cps
Sodium	23-2	33902164	34891294	32920795	33904751	2.91	cps
Strontium	86-1	33264	32890	33060	33072	0.57	cps
Strontium	88-1	284980	284567	284549	284699	0.09	cps
Sulfur	34-1	110828	111684	113457	111990	1.20	cps
Terbium	159-1	4174202	4313058	4268970	4252077	1.67	cps
Terbium	159-2	3496090	3428455	3358473	3427672	2.01	cps
Thallium	203-1	1250	1237	1150	1212	4.48	cps
Thallium	205-1	2904	2854	3024	2927	2.99	cps
Tin	118-1	8126	8142	8049	8106	0.61	cps
Titanium	47-1	4147	3804	3907	3953	4.46	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	Q1563-01DL2X50	Instrumnet Name :	P7
Client Sample ID :	437DL2	Dilution Factor :	50
Date & Time Acquired :	2025-03-20 18:33:10	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1960	1817	1780	1852	5.14	cps
Vanadium	51-2	1093	1230	1043	1122	8.61	cps
Yttrium	89-1	6309086	6444849	6454549	6402828	1.27	cps
Yttrium	89-2	1975004	1918576	1951030	1948203	1.45	cps
Zinc	66-2	534488	528915	532041	531815	0.53	cps
Zirconium	90-1	1553	1677	1643	1625	3.93	cps
Zirconium	91-1	383	340	330	351	8.07	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7935059	7717266	7591749	7748025	2.24	cps
Antimony	121-1	2808725	2856105	2854575	2839801	0.95	cps
Arsenic	75-2	173586	171944	173173	172901	0.49	cps
Barium	135-1	3719750	3788088	3812869	3773569	1.28	cps
Barium	137-1	6423084	6460137	6545315	6476179	0.97	cps
Beryllium	9-1	437211	448974	445705	443963	1.37	cps
Bismuth	209-1	2452654	2361823	2333865	2382781	2.61	cps
Bismuth	209-2	2183103	2148889	2164672	2165555	0.79	cps
Bromine	81-1	39620	39754	39566	39647	0.24	cps
Bromine	81-2	1843	1697	1680	1740	5.17	cps
Cadmium	108-1	52153	54107	53515	53259	1.88	cps
Cadmium	106-1	74795	76390	77616	76267	1.85	cps
Cadmium	111-1	787849	806709	808706	801088	1.44	cps
Calcium	43-1	4263881	4369676	4307201	4313586	1.23	cps
Calcium	44-1	68921402	72081184	70666414	70556333	2.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1389479	1332267	1340500	1354082	2.28	cps
Cobalt	59-2	2180985	2124749	2167150	2157628	1.36	cps
Copper	63-2	15952578	15715071	15614291	15760647	1.10	cps
Dysprosium	156-1	130	143	93	122	21.19	cps
Dysprosium	156-2	247	300	257	268	10.59	cps
Erbium	164-1	120	120	143	128	10.55	cps
Erbium	164-2	100	120	90	103	14.78	cps
Gadolinium	160-1	100	117	103	107	8.27	cps
Gadolinium	160-2	197	290	203	230	22.64	cps
Holmium	165-1	4314414	4132382	4107409	4184735	2.70	cps
Holmium	165-2	3407092	3331640	3332746	3357159	1.29	cps
Indium	115-1	3537253	3466625	3392739	3465539	2.09	cps
Indium	115-2	1321044	1307587	1297163	1308598	0.91	cps
Iron	56-2	317477215	311039822	310334582	312950540	1.26	cps
Iron	57-2	7892778	7969049	7853017	7904948	0.75	cps
Iron	54-2	17389965	17605578	17115933	17370492	1.41	cps
Krypton	83-1	387	370	440	399	9.17	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10342332	10439779	10311520	10364544	0.65	cps
Lead	207-1	8976987	9188504	8997472	9054321	1.29	cps
Lead	208-1	41170048	41826480	41671898	41556142	0.83	cps
Lithium	6-1	569098	545404	540019	551507	2.81	cps
Magnesium	24-2	65469162	66399241	63662951	65177118	2.13	cps
Manganese	55-2	12290967	12201850	12007614	12166810	1.19	cps
Molybdenum	94-1	10821277	11219942	11087734	11042984	1.84	cps
Molybdenum	95-1	15482174	15700456	15744217	15642283	0.90	cps
Molybdenum	96-1	16860687	17070597	17260943	17064076	1.17	cps
Molybdenum	97-1	9475271	9854799	9834481	9721517	2.20	cps
Molybdenum	98-1	24461400	25172485	25062474	24898786	1.54	cps
Neodymium	150-1	200	183	220	201	9.13	cps
Neodymium	150-2	103	83	100	96	11.21	cps
Nickel	60-2	493497	482583	490514	488865	1.15	cps
Phosphorus	31-2	84479	82592	81174	82748	2.00	cps
Potassium	39-2	43281018	42457404	41251744	42330055	2.41	cps
Rhodium	103-1	3344849	3264949	3164153	3257984	2.78	cps
Rhodium	103-2	2093329	2035276	2051282	2059962	1.46	cps
Scandium	45-1	2224176	2182470	2127493	2178047	2.23	cps
Scandium	45-2	186425	183238	180498	183387	1.62	cps
Selenium	82-1	66982	67781	67163	67308	0.62	cps
Selenium	77-2	7445	7382	7479	7435	0.66	cps
Selenium	78-2	25152	25051	25298	25167	0.49	cps
Silicon	28-1	5605959	5962310	6009266	5859178	3.76	cps
Silver	107-1	3761464	3845390	3819889	3808914	1.13	cps
Silver	109-1	3595228	3724145	3627661	3649011	1.84	cps
Sodium	23-2	105474248	102508682	103663792	103882241	1.44	cps
Strontium	86-1	889531	916007	916206	907248	1.69	cps
Strontium	88-1	8856982	8871442	9105118	8944514	1.56	cps
Sulfur	34-1	364083	371965	369614	368554	1.10	cps
Terbium	159-1	4418360	4295671	4226233	4313421	2.26	cps
Terbium	159-2	3378884	3283233	3260194	3307437	1.90	cps
Thallium	203-1	2603604	2629792	2657431	2630276	1.02	cps
Thallium	205-1	6222042	6269338	6430503	6307294	1.73	cps
Tin	118-1	2431483	2567301	2526947	2508577	2.78	cps
Titanium	47-1	3991650	4128938	4049200	4056596	1.70	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:36:28	DataFile Name :	040CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7950494	7982484	8059313	7997430	0.70	cps
Vanadium	51-2	1103150	1098717	1091332	1097733	0.54	cps
Yttrium	89-1	6526766	6302451	6162906	6330708	2.90	cps
Yttrium	89-2	1977693	1906924	1834694	1906437	3.75	cps
Zinc	66-2	2948920	2971131	2871451	2930501	1.79	cps
Zirconium	90-1	5339349	5561868	5575271	5492162	2.41	cps
Zirconium	91-1	1073563	1104690	1102748	1093667	1.59	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	327	353	250	310	17.30	cps
Antimony	121-1	223	163	240	209	19.30	cps
Arsenic	75-2	37	20	50	36	42.27	cps
Barium	135-1	47	43	63	51	20.96	cps
Barium	137-1	167	107	107	127	27.35	cps
Beryllium	9-1	109	89	99	99	10.10	cps
Bismuth	209-1	2380793	2401809	2343787	2375463	1.24	cps
Bismuth	209-2	2233627	2251659	2244005	2243097	0.40	cps
Bromine	81-1	31427	31090	31584	31367	0.81	cps
Bromine	81-2	670	690	687	682	1.57	cps
Cadmium	108-1	17	7	13	12	41.65	cps
Cadmium	106-1	1230	1197	1127	1185	4.45	cps
Cadmium	111-1	1199	1180	1098	1159	4.61	cps
Calcium	43-1	417	427	450	431	3.97	cps
Calcium	44-1	10647	10637	10524	10603	0.65	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	637	553	630	607	7.63	cps
Cobalt	59-2	160	113	117	130	20.03	cps
Copper	63-2	4097	4074	3981	4051	1.52	cps
Dysprosium	156-1	0	7	13	7	99.98	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	17	20	33	23	37.78	cps
Erbium	164-2	37	7	23	22	67.63	cps
Gadolinium	160-1	17	13	7	12	41.65	cps
Gadolinium	160-2	163	110	167	147	21.68	cps
Holmium	165-1	3848762	3855320	3776895	3826993	1.14	cps
Holmium	165-2	3186628	3223267	3130678	3180191	1.47	cps
Indium	115-1	3471638	3499294	3439827	3470253	0.86	cps
Indium	115-2	1315664	1312135	1300900	1309566	0.59	cps
Iron	56-2	26043	26096	25952	26030	0.28	cps
Iron	57-2	1310	1493	1593	1466	9.81	cps
Iron	54-2	3147	3124	3227	3166	1.71	cps
Krypton	83-1	370	370	403	381	5.05	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	910	837	813	853	5.91	cps
Lead	207-1	707	680	647	678	4.44	cps
Lead	208-1	3277	3177	3244	3232	1.58	cps
Lithium	6-1	532164	528438	527341	529314	0.48	cps
Magnesium	24-2	1427	1343	1503	1425	5.62	cps
Manganese	55-2	863	850	833	849	1.77	cps
Molybdenum	94-1	1763	2094	1350	1736	21.46	cps
Molybdenum	95-1	2824	3474	1947	2748	27.88	cps
Molybdenum	96-1	3177	3747	2214	3046	25.45	cps
Molybdenum	97-1	1693	2177	1267	1712	26.59	cps
Molybdenum	98-1	4374	5501	3000	4292	29.18	cps
Neodymium	150-1	7	3	3	4	43.40	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	387	343	383	371	6.50	cps
Phosphorus	31-2	357	377	423	386	8.87	cps
Potassium	39-2	63780	66069	64272	64707	1.86	cps
Rhodium	103-1	3279652	3233649	3241649	3251650	0.76	cps
Rhodium	103-2	2127928	2148888	2134647	2137154	0.50	cps
Scandium	45-1	2078500	2056022	2024168	2052897	1.33	cps
Scandium	45-2	172089	170359	172338	171596	0.63	cps
Selenium	82-1	308	354	302	321	8.82	cps
Selenium	77-2	27	23	27	26	7.55	cps
Selenium	78-2	897	940	917	918	2.36	cps
Silicon	28-1	1647035	1644653	1626003	1639230	0.70	cps
Silver	107-1	90	43	67	67	35.00	cps
Silver	109-1	20	60	40	40	50.00	cps
Sodium	23-2	31987	35374	34158	33839	5.07	cps
Strontium	86-1	683	580	607	623	8.61	cps
Strontium	88-1	230	207	183	207	11.29	cps
Sulfur	34-1	123168	122758	122254	122727	0.37	cps
Terbium	159-1	4005566	3985512	3920900	3970659	1.11	cps
Terbium	159-2	3221382	3170083	3148790	3180085	1.17	cps
Thallium	203-1	407	423	413	414	2.02	cps
Thallium	205-1	1097	1083	967	1049	6.82	cps
Tin	118-1	920	813	953	896	8.17	cps
Titanium	47-1	73	117	117	102	24.48	cps

Reviewed By:Mohan
On:3/26/2025 2:17:51 PM
Inst Id :P7
LB :LB135118

LB Number :	LB135118	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-20 18:45:21	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	333	343	370	349	5.43	cps
Vanadium	51-2	27	43	47	39	27.55	cps
Yttrium	89-1	5957403	5892553	5912344	5920767	0.56	cps
Yttrium	89-2	1840467	1815325	1852217	1836003	1.03	cps
Zinc	66-2	410	313	403	376	14.38	cps
Zirconium	90-1	340	427	360	376	12.08	cps
Zirconium	91-1	57	80	73	70	17.17	cps

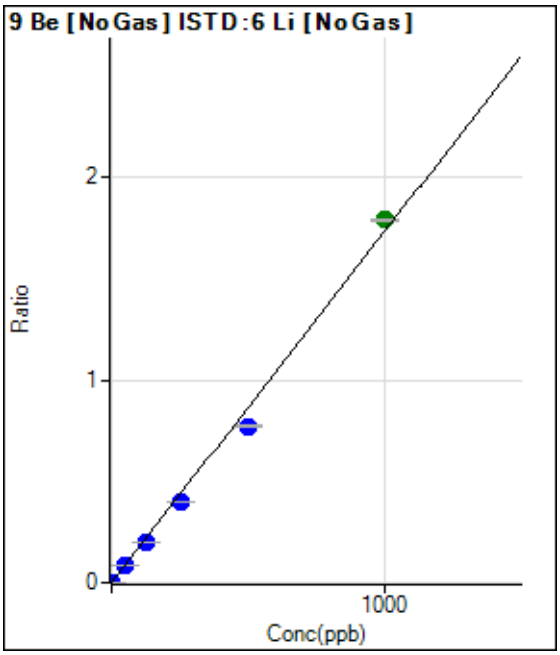
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032325MS2.b\
Analysis File: P7032325MS2.batch.bin
DA Date-Time: 2025-03-23 23:35:45
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-03-23 14:44:14
2	006CALS.d	S02	2025-03-23 14:50:49
3	007CALS.d	S03	2025-03-23 14:54:06
4	008CALS.d	S04	2025-03-23 14:57:15
5	009CALS.d	S05	2025-03-23 15:00:12
6	010CALS.d	S06	2025-03-23 15:03:06
7	011CALS.d	S07	2025-03-23 15:05:49
8	012CALS.d	S08	2025-03-23 15:08:36

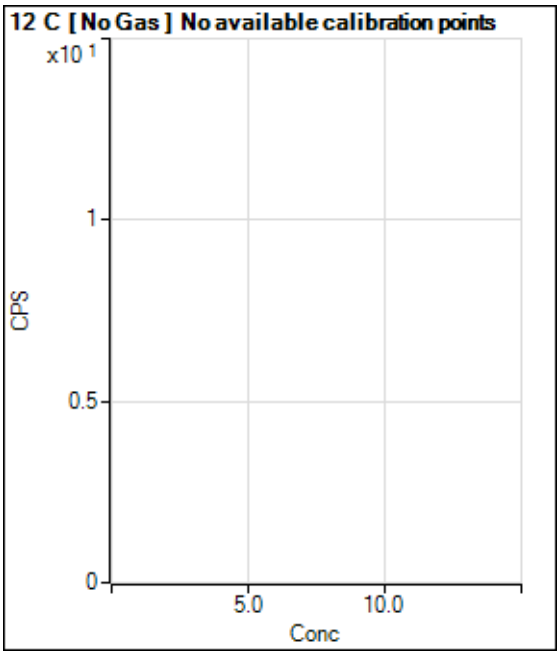
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0001	P	17.3
2	☐	1.000	0.885	962.26	0.0017	P	9.4
3	☐	50.000	47.159	48051.82	0.0818	P	0.4
4	☐	125.000	116.649	120861.88	0.2023	P	0.3
5	☐	250.000	231.720	239700.97	0.4017	P	0.8
6	☐	500.000	444.753	461777.90	0.7709	P	1.2
7	☐	1000.000	1033.379	1050200.88	1.7910	A	0.9
8	☐			160.00	0.0003	P	9.1

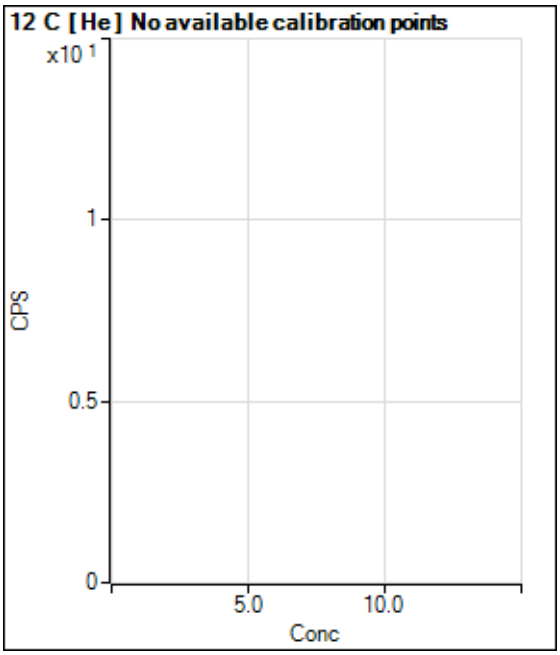
y = 0.0017 * x + 1.2222E-004
R = 0.9976
DL = 0.03668
BEC = 0.07052

Weight: <None>
Min Conc: 0

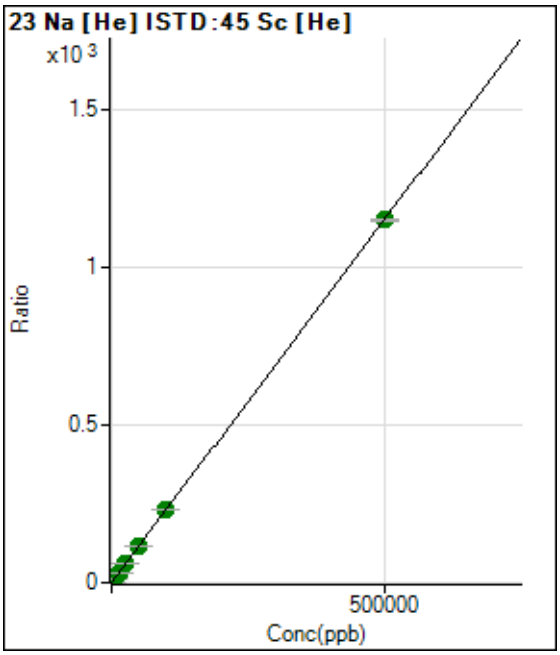


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

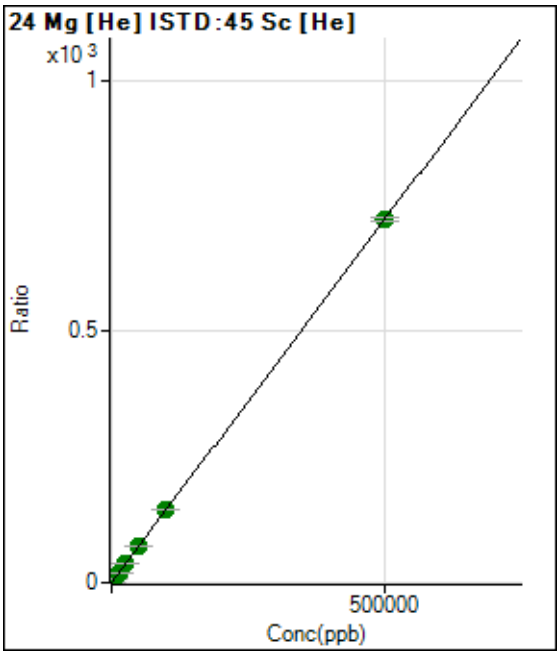


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14670.43	0.0702	P	0.5
2	☐	500.000	424.860	217365.99	1.0471	P	0.8
3	☐	5000.000	5135.116	2482895.33	11.8776	A	1.2
4	☐	12500.000	12916.095	6041764.28	29.7687	A	0.2
5	☐	25000.000	26075.004	11861172.60	60.0254	A	0.3
6	☐	50000.000	51073.646	23538065.76	117.5058	A	1.7
7	☐	100000.00	100402.53	46492935.42	230.9295	A	1.7
8	☐	500000.00	499746.70	239983858.6	1,149.156	A	0.4

y = 0.0023 * x + 0.0702
R = 1.0000
DL = 0.4306
BEC = 30.54

Weight: <None>
Min Conc: 0

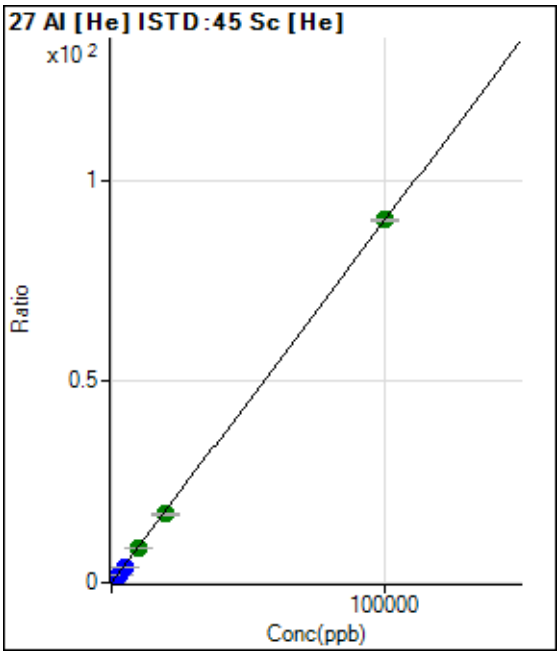
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	397.78	0.0019	P	17.8
2	☐	500.000	432.527	130050.05	0.6265	P	0.3
3	☐	5000.000	5131.549	1549518.62	7.4120	A	1.0
4	☐	12500.000	13041.560	3822568.66	18.8344	A	0.8
5	☐	25000.000	25873.537	7383059.89	37.3642	A	1.1
6	☐	50000.000	50741.419	14676447.28	73.2744	A	2.0
7	☐	100000.00	100302.14	29161755.67	144.8419	A	1.0
8	☐	500000.00	499806.96	150720117.7	721.7415	A	1.0

y = 0.0014 * x + 0.0019
R = 1.0000
DL = 0.704
BEC = 1.318

Weight: <None>
Min Conc: 0

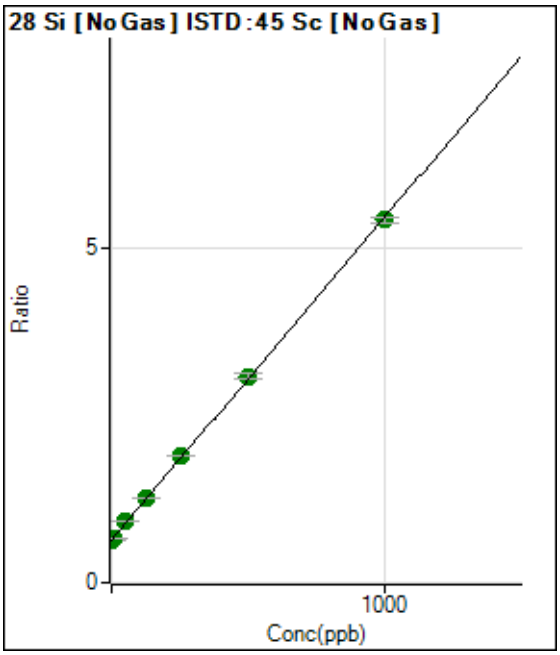


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.23	0.0007	P	5.5
2	☐	20.000	17.833	3477.10	0.0168	P	2.4
3	☐	1000.000	884.963	166347.26	0.7958	P	1.6
4	☐	2500.000	2168.498	395560.95	1.9490	P	0.7
5	☐	5000.000	4301.600	763815.24	3.8655	P	0.6
6	☐	10000.000	9635.075	1734084.31	8.6573	A	1.1
7	☐	20000.000	19001.464	3437205.85	17.0725	A	2.2
8	☐	100000.00	100280.55	18815082.50	90.0971	A	0.5

y = 8.9844E-004 * x + 7.2879E-004
R = 0.9999
DL = 0.1333
BEC = 0.8112

Weight: <None>
Min Conc: 0

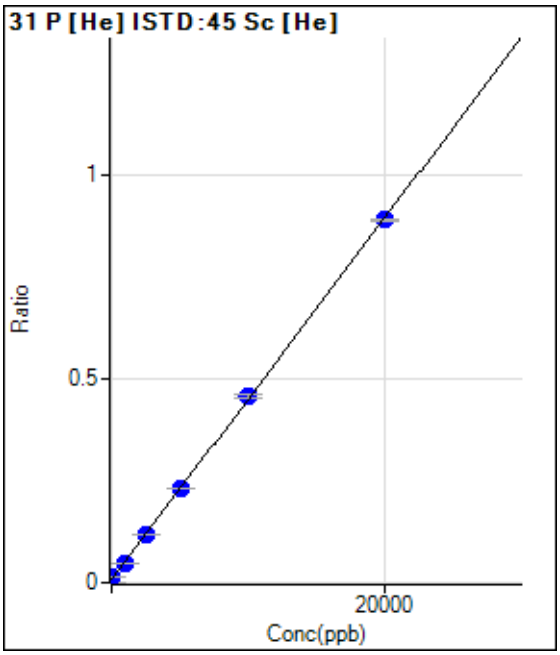
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1520934.98	0.6380	A	0.6
2	☐	10.000	4.611	1570279.42	0.6603	A	1.8
3	☐	50.000	56.705	2150771.53	0.9114	A	0.1
4	☐	125.000	130.324	2911042.18	1.2663	A	1.1
5	☐	250.000	260.981	4173933.65	1.8961	A	0.4
6	☐	500.000	507.911	6906126.98	3.0864	A	2.9
7	☐	1000.000	992.353	12146220.65	5.4217	A	1.5
8	☐			1521554.20	0.6696	A	2.1

y = 0.0048 * x + 0.6380
R = 0.9998
DL = 2.238
BEC = 132.4

Weight: <None>
Min Conc: 0

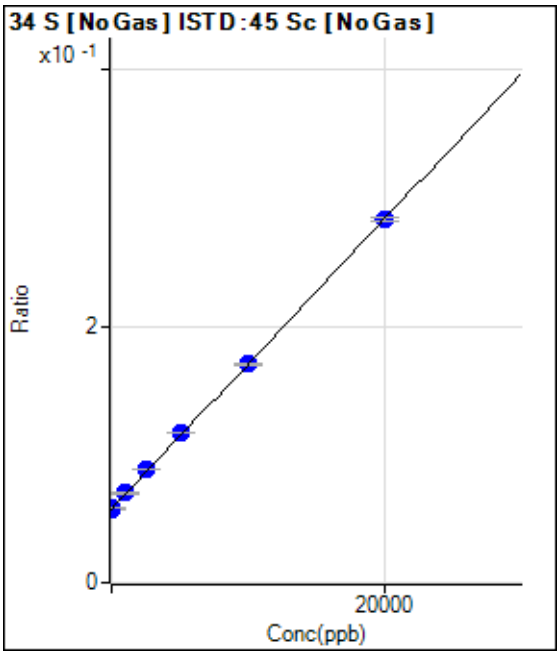


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-128.741	300.01	0.0014	P	10.5
2	☐	0.000	128.741	2673.60	0.0129	P	4.1
3	☐	1000.000	938.654	10216.84	0.0489	P	1.8
4	☐	2500.000	2513.518	24122.41	0.1189	P	1.8
5	☐	5000.000	5041.042	45681.36	0.2312	P	0.2
6	☐	10000.000	10178.183	92027.74	0.4595	P	1.7
7	☐	20000.000	19902.026	179517.72	0.8916	P	0.3
8	☐			358.90	0.0017	P	19.0

y = 4.4440E-005 * x + 0.0072
R = 0.9999
DL = 22.86
BEC = 161.1

Weight: <None>
Min Conc: 0

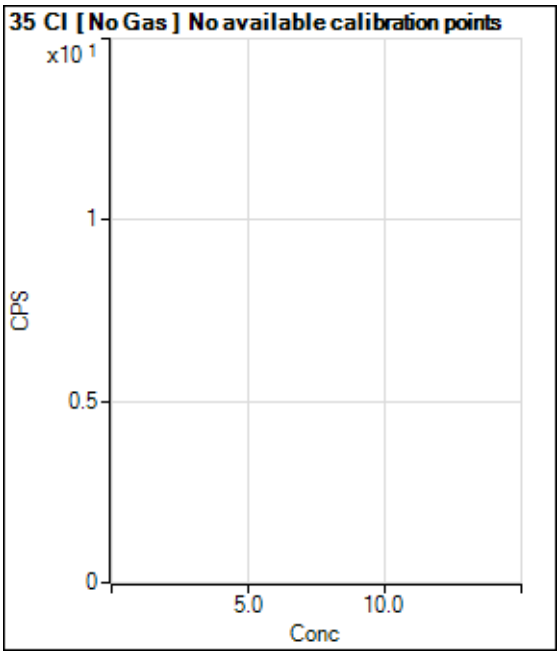
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-96.095	134598.69	0.0565	P	0.4
2	☐	0.000	96.095	139471.34	0.0586	P	0.6
3	☐	1000.000	1098.749	165126.64	0.0700	P	1.8
4	☐	2500.000	2747.918	203770.74	0.0886	P	0.8
5	☐	5000.000	5256.879	257592.91	0.1170	P	0.5
6	☐	10000.000	9960.401	380943.28	0.1702	P	0.3
7	☐	20000.000	19919.653	633721.48	0.2829	P	1.1
8	☐			136565.98	0.0601	P	5.1

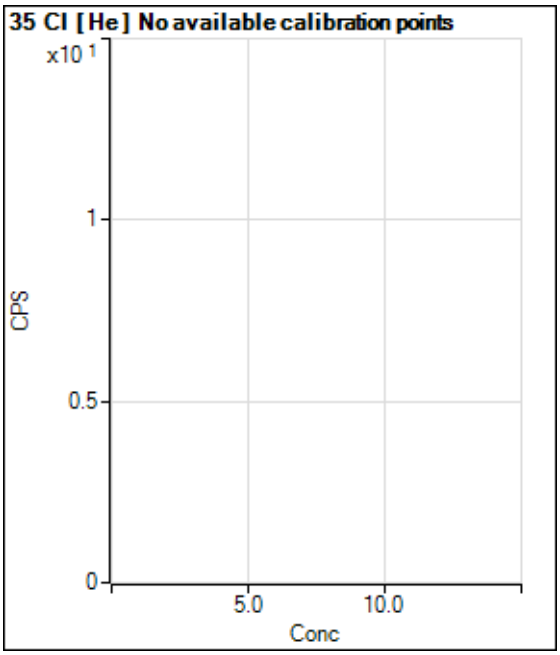
y = 1.1312E-005 * x + 0.0576
R = 0.9998
DL = 76.98
BEC = 5088

Weight: <None>
Min Conc: 0

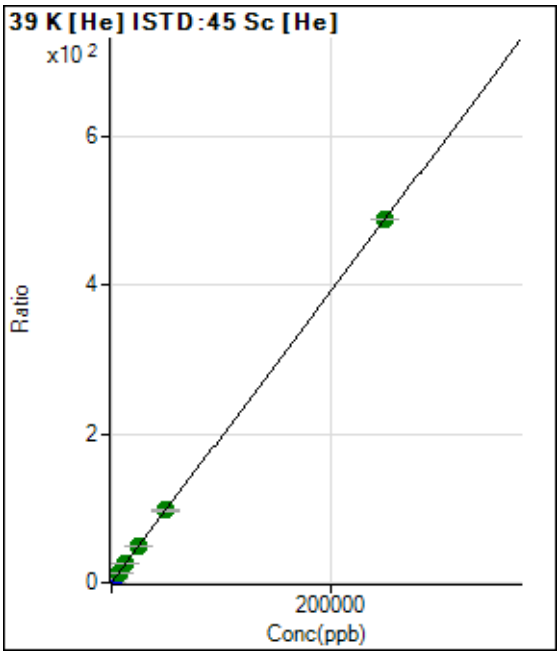


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

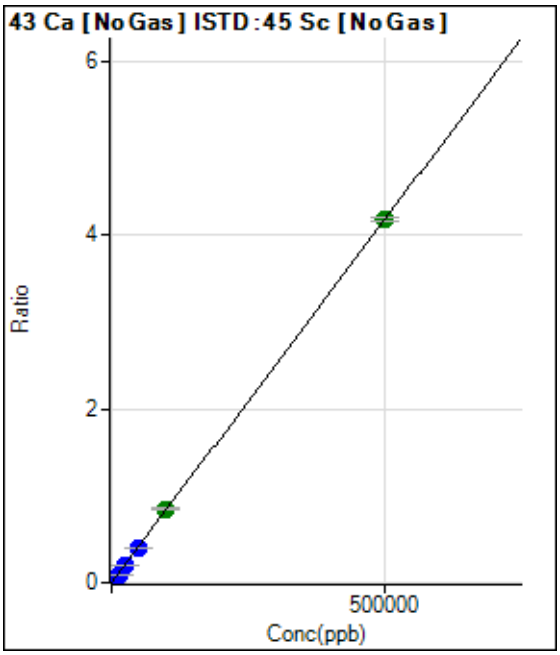


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59040.45	0.2826	P	0.7
2	☐	500.000	449.038	240157.54	1.1569	P	0.9
3	☐	2500.000	2383.979	1029389.14	4.9243	P	0.7
4	☐	6250.000	6345.565	2564852.91	12.6377	A	1.4
5	☐	12500.000	12610.200	4907378.68	24.8352	A	1.1
6	☐	25000.000	25095.212	9844639.65	49.1440	A	0.8
7	☐	50000.000	49708.098	19542693.04	97.0662	A	1.2
8	☐	250000.00	250042.22	101729151.8	487.1243	A	0.2

y = 0.0019 * x + 0.2826
R = 1.0000
DL = 3.137
BEC = 145.2

Weight: <None>
Min Conc: 0

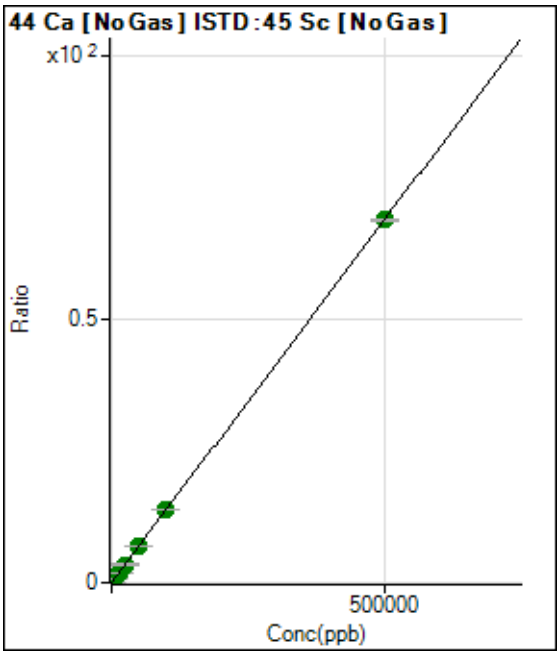
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	523.35	0.0002	P	8.4
2	☐	500.000	443.028	9310.71	0.0039	P	1.6
3	☐	5000.000	4744.973	93897.37	0.0398	P	0.9
4	☐	12500.000	11768.348	226130.56	0.0984	P	1.3
5	☐	25000.000	23753.922	436564.38	0.1983	P	0.6
6	☐	50000.000	46936.461	876410.01	0.3917	P	1.6
7	☐	100000.00	101459.96	1895811.72	0.8464	A	3.2
8	☐	500000.00	500097.56	9478477.91	4.1709	A	1.2

y = 8.3397E-006 * x + 2.1956E-004
R = 1.0000
DL = 6.628
BEC = 26.33

Weight: <None>
Min Conc: 0

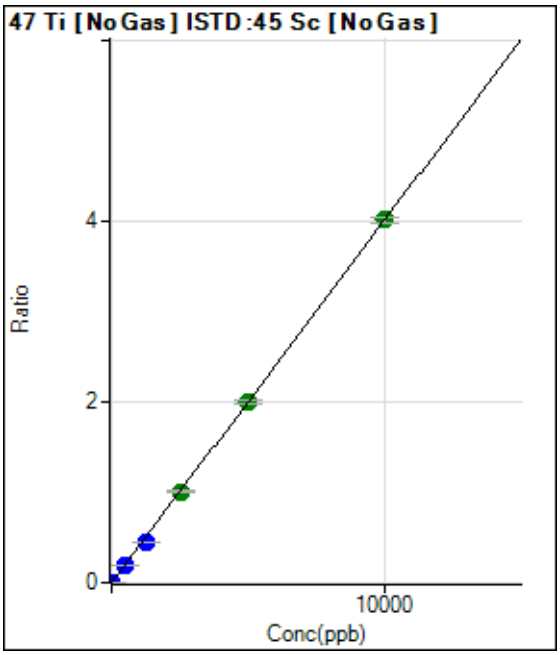


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13406.41	0.0056	P	1.9
2	☐	500.000	448.778	160554.02	0.0675	P	1.0
3	☐	5000.000	5115.259	1677682.09	0.7109	A	0.9
4	☐	12500.000	12589.290	4003663.14	1.7415	A	0.7
5	☐	25000.000	25017.594	7606052.94	3.4552	A	1.3
6	☐	50000.000	50111.999	15474881.71	6.9153	A	1.6
7	☐	100000.00	100292.36	30992951.48	13.8345	A	1.3
8	☐	500000.00	499926.11	156666081.0	68.9380	A	0.8

y = 1.3789E-004 * x + 0.0056
R = 1.0000
DL = 2.31
BEC = 40.79

Weight: <None>
Min Conc: 0

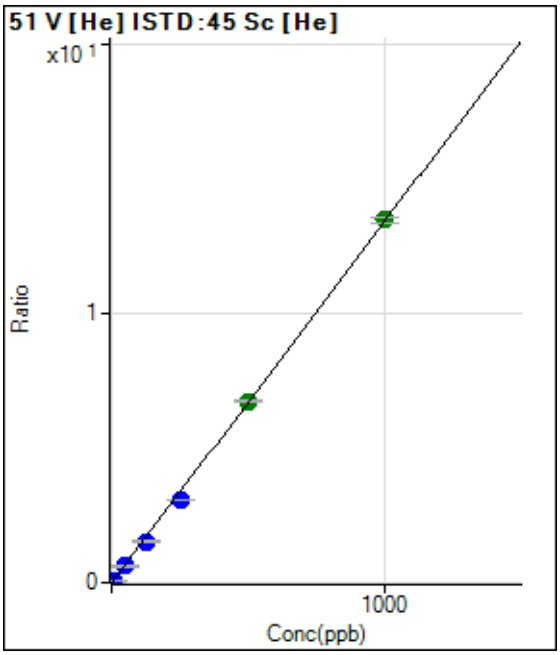
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	40.7
2	☐	5.000	4.417	4267.31	0.0018	P	3.0
3	☐	500.000	454.957	430752.39	0.1825	P	0.4
4	☐	1250.000	1124.457	1037067.72	0.4511	P	1.5
5	☐	2500.000	2511.802	2218193.98	1.0077	A	1.2
6	☐	5000.000	5003.813	4491761.32	2.0073	A	2.2
7	☐	10000.000	10013.088	8998323.41	4.0169	A	1.9
8	☐			422.23	0.0002	P	11.3

y = 4.0116E-004 * x + 2.2362E-005
R = 0.9999
DL = 0.06808
BEC = 0.05574

Weight: <None>
Min Conc: 0

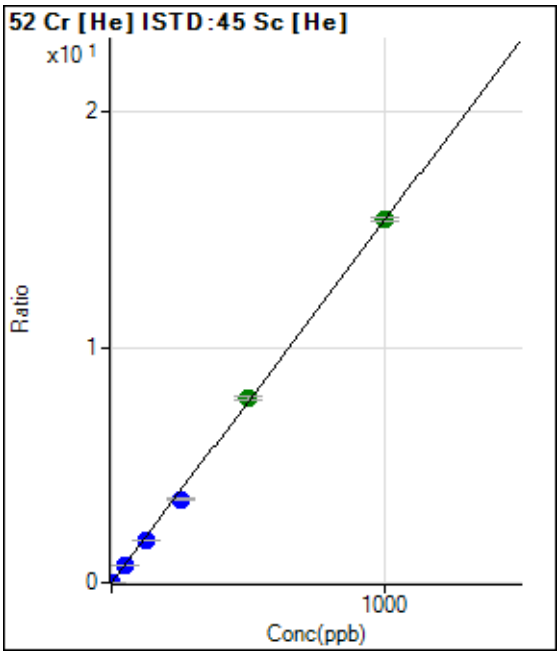


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0001	P	40.5
2	☐	5.000	4.464	12456.34	0.0600	P	1.6
3	☐	50.000	45.433	127393.13	0.6094	P	0.9
4	☐	125.000	114.370	311302.18	1.5339	P	1.0
5	☐	250.000	229.721	608754.64	3.0807	P	0.5
6	☐	500.000	503.214	1351667.72	6.7483	A	1.3
7	☐	1000.000	1005.022	2713594.35	13.4776	A	1.3
8	☐			646.69	0.0031	P	11.2

y = 0.0134 * x + 1.4886E-004
R = 0.9998
DL = 0.01347
BEC = 0.0111

Weight: <None>
Min Conc: 0

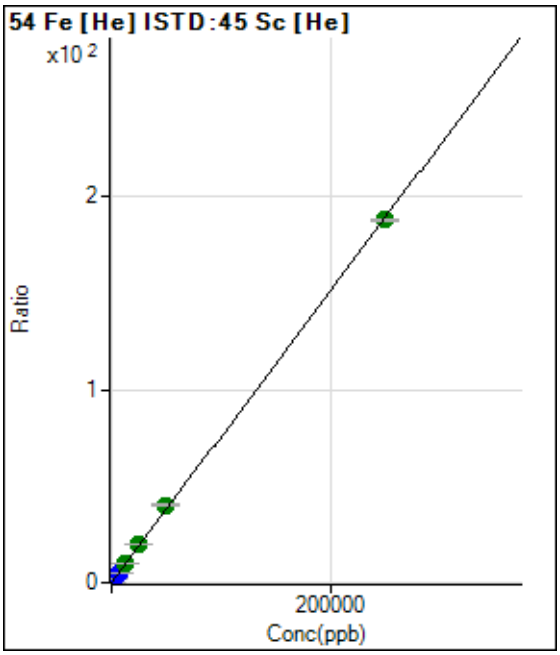
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	536.68	0.0026	P	8.5
2	☐	2.000	1.807	6304.71	0.0304	P	2.0
3	☐	50.000	46.071	148742.32	0.7115	P	0.9
4	☐	125.000	115.845	362326.93	1.7853	P	0.7
5	☐	250.000	230.582	701665.64	3.5509	P	0.4
6	☐	500.000	508.884	1569158.74	7.8336	A	2.2
7	☐	1000.000	1001.754	3104307.84	15.4181	A	1.2
8	☐			16728.26	0.0801	P	1.6

y = 0.0154 * x + 0.0026
R = 0.9997
DL = 0.0424
BEC = 0.167

Weight: <None>
Min Conc: 0

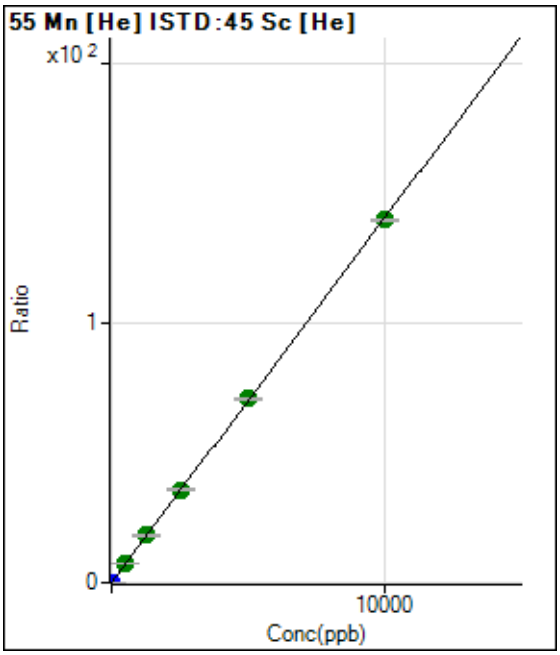


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3510.44	0.0168	P	0.7
2	☐	50.000	50.086	11326.57	0.0546	P	1.3
3	☐	2500.000	2594.464	412350.01	1.9727	P	1.7
4	☐	6250.000	6405.229	983431.03	4.8455	P	0.6
5	☐	12500.000	13746.546	2051018.01	10.3799	A	1.0
6	☐	25000.000	26804.341	4050679.21	20.2238	A	1.6
7	☐	50000.000	53369.533	8104147.52	40.2505	A	1.5
8	☐	250000.00	249078.50	39216394.97	187.7895	A	0.6

y = 7.5387E-004 * x + 0.0168
R = 0.9999
DL = 0.4901
BEC = 22.29

Weight: <None>
Min Conc: 0

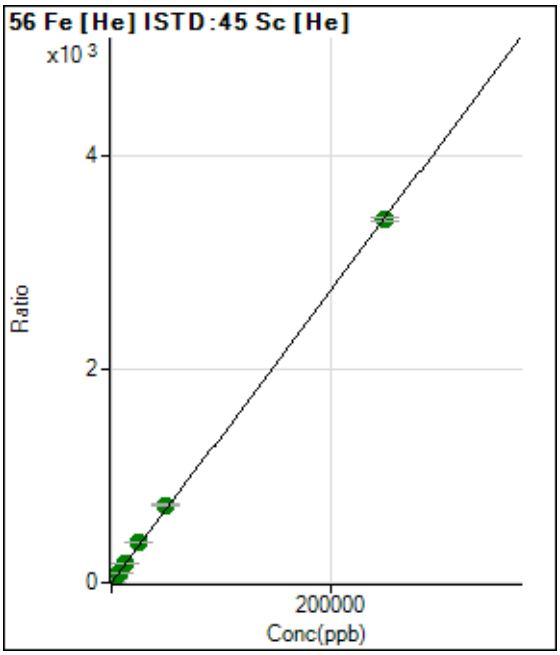
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1388.97	0.0066	P	5.8
2	☐	1.000	0.857	3873.88	0.0187	P	5.7
3	☐	500.000	508.897	1492949.87	7.1418	A	0.6
4	☐	1250.000	1294.275	3684371.99	18.1534	A	0.6
5	☐	2500.000	2558.376	7089224.27	35.8771	A	0.6
6	☐	5000.000	5045.466	14171602.71	70.7481	A	0.6
7	☐	10000.000	9956.694	28108357.36	139.6074	A	0.5
8	☐			13707.44	0.0656	P	4.0

y = 0.0140 * x + 0.0066
R = 1.0000
DL = 0.08188
BEC = 0.4743

Weight: <None>
Min Conc: 0

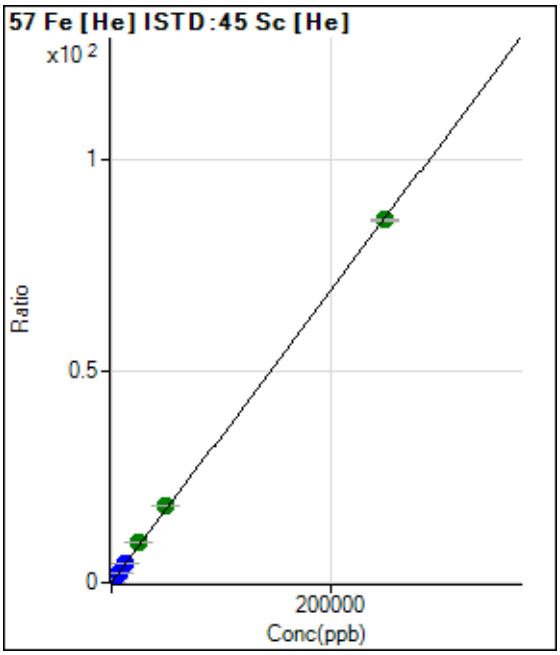


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30328.34	0.1452	P	1.3
2	☐	50.000	49.806	171232.28	0.8249	P	0.5
3	☐	2500.000	2747.467	7867808.77	37.6390	A	1.2
4	☐	6250.000	6862.138	19035320.55	93.7905	A	0.6
5	☐	12500.000	13739.246	37077245.28	187.6402	A	0.5
6	☐	25000.000	27179.989	74328983.34	371.0616	A	0.2
7	☐	50000.000	53295.793	146456988.9	727.4554	A	1.9
8	☐	250000.00	249043.10	709758202.7	3,398.754	A	1.1

y = 0.0136 * x + 0.1452
R = 0.9999
DL = 0.4198
BEC = 10.64

Weight: <None>
Min Conc: 0

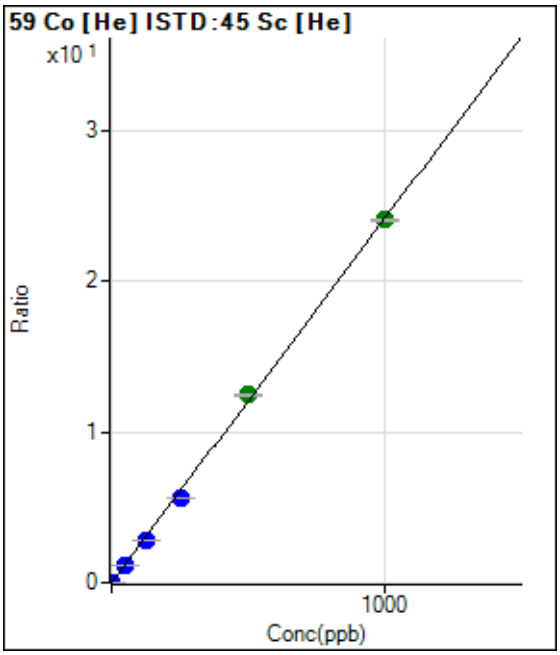
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1568.99	0.0075	P	8.3
2	☐	50.000	54.688	5468.83	0.0263	P	3.3
3	☐	2500.000	2568.592	186472.88	0.8921	P	1.2
4	☐	6250.000	6386.379	447886.02	2.2068	P	0.8
5	☐	12500.000	12795.548	872199.83	4.4140	P	0.3
6	☐	25000.000	27216.714	1879073.85	9.3803	A	1.1
7	☐	50000.000	53002.681	3676684.25	18.2604	A	0.9
8	☐	250000.00	249158.91	17920426.40	85.8119	A	0.8

y = 3.4438E-004 * x + 0.0075
R = 0.9999
DL = 5.417
BEC = 21.81

Weight: <None>
Min Conc: 0

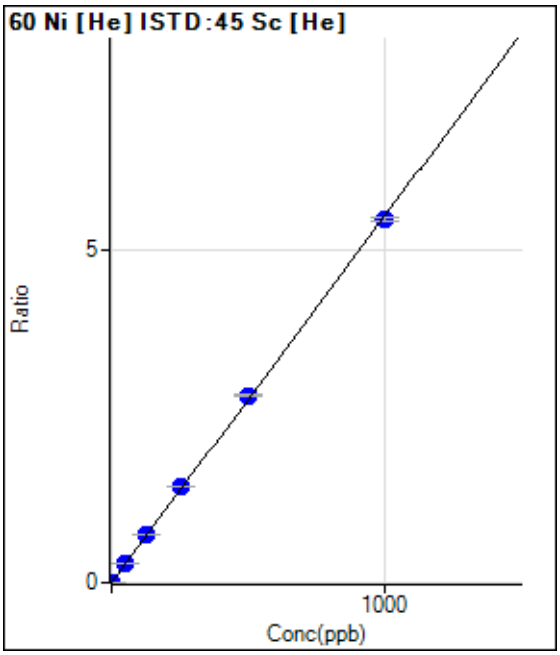


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	237.78	0.0011	P	5.9
2	☐	1.000	0.921	4844.16	0.0233	P	1.7
3	☐	50.000	46.476	234365.20	1.1212	P	1.0
4	☐	125.000	116.286	568979.44	2.8035	P	1.6
5	☐	250.000	231.330	1101800.57	5.5759	P	0.4
6	☐	500.000	516.645	2494131.68	12.4517	A	0.8
7	☐	1000.000	997.611	4840702.39	24.0425	A	0.5
8	☐			12143.88	0.0582	P	0.7

y = 0.0241 * x + 0.0011
R = 0.9996
DL = 0.008325
BEC = 0.04723

Weight: <None>
Min Conc: 0

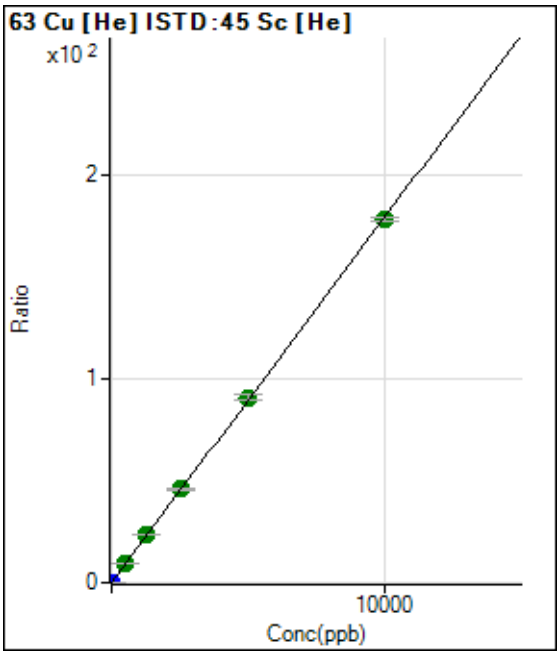
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.45	0.0014	P	15.8
2	☐	1.000	0.871	1285.63	0.0062	P	1.8
3	☐	50.000	52.649	60721.20	0.2905	P	1.4
4	☐	125.000	131.228	146525.33	0.7219	P	0.7
5	☐	250.000	261.064	283524.27	1.4348	P	0.3
6	☐	500.000	511.544	562855.25	2.8102	P	1.5
7	☐	1000.000	990.551	1095336.27	5.4403	P	1.2
8	☐			4855.28	0.0233	P	3.0

y = 0.0055 * x + 0.0014
R = 0.9998
DL = 0.1213
BEC = 0.2566

Weight: <None>
Min Conc: 0

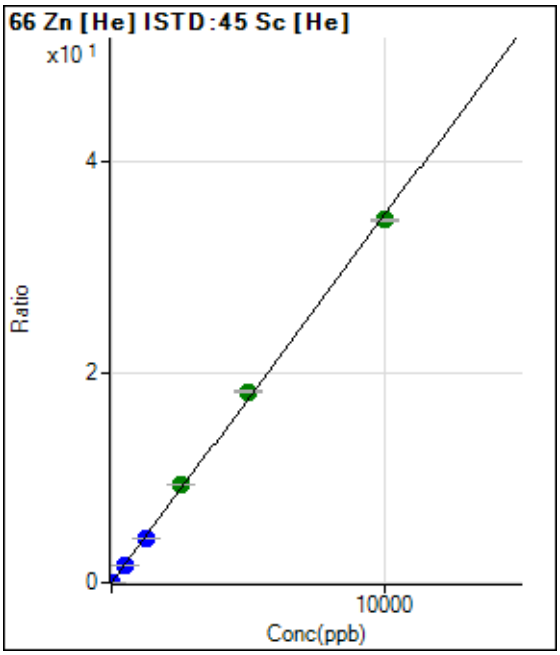


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2762.50	0.0132	P	4.3
2	☐	2.000	1.681	8983.86	0.0433	P	2.2
3	☐	500.000	522.982	1957136.90	9.3617	A	0.4
4	☐	1250.000	1307.085	4744723.54	23.3778	A	0.4
5	☐	2500.000	2570.814	9082823.27	45.9675	A	1.5
6	☐	5000.000	5078.203	18182838.20	90.7880	A	2.4
7	☐	10000.000	9934.911	35759122.25	177.6034	A	1.0
8	☐			9679.89	0.0464	P	1.3

y = 0.0179 * x + 0.0132
R = 0.9999
DL = 0.09442
BEC = 0.7398

Weight: <None>
Min Conc: 0

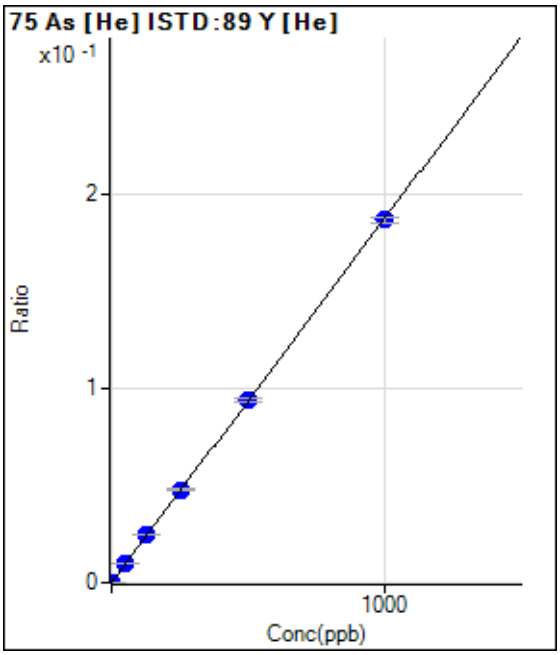
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	795.58	0.0038	P	4.2
2	☐	5.000	4.103	3771.62	0.0182	P	5.5
3	☐	500.000	483.618	354639.09	1.6965	P	0.8
4	☐	1250.000	1211.666	861499.57	4.2447	P	0.1
5	☐	2500.000	2669.127	1846755.86	9.3460	A	0.5
6	☐	5000.000	5193.703	3641731.16	18.1822	A	1.6
7	☐	10000.000	9866.478	6953598.65	34.5372	A	0.8
8	☐			11412.22	0.0546	P	1.4

y = 0.0035 * x + 0.0038
R = 0.9995
DL = 0.1358
BEC = 1.088

Weight: <None>
Min Conc: 0

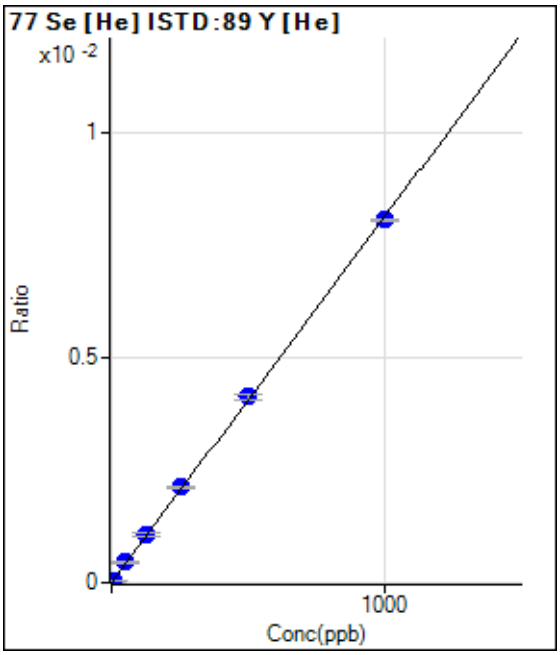


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	4.3
2	☐	1.000	0.991	461.13	0.0002	P	6.8
3	☐	50.000	52.420	21172.98	0.0098	P	2.2
4	☐	125.000	130.491	51614.98	0.0244	P	0.2
5	☐	250.000	254.632	100172.88	0.0476	P	1.4
6	☐	500.000	502.169	198518.84	0.0939	P	1.8
7	☐	1000.000	996.950	389978.74	0.1864	P	1.5
8	☐			271.12	0.0001	P	6.6

y = 1.8695E-004 * x + 2.0664E-005
R = 1.0000
DL = 0.01428
BEC = 0.1105

Weight: <None>
Min Conc: 0

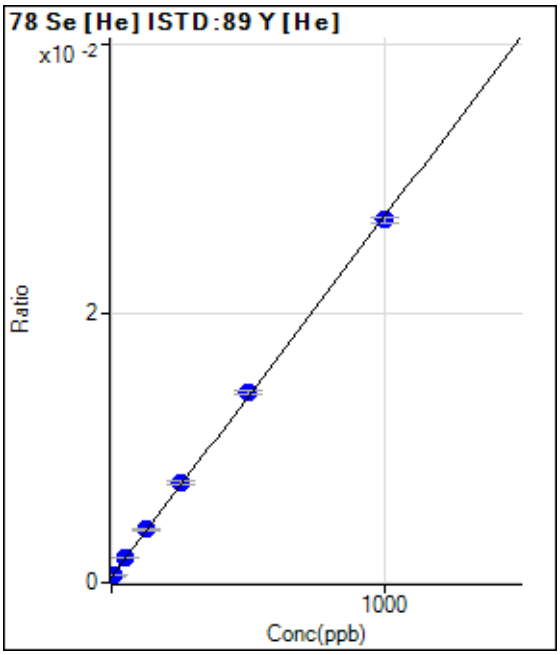
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.
2	☐	5.000	4.574	87.78	0.0000	P	15.1
3	☐	50.000	55.327	973.37	0.0005	P	9.4
4	☐	125.000	131.768	2266.86	0.0011	P	6.4
5	☐	250.000	260.284	4452.94	0.0021	P	3.1
6	☐	500.000	508.283	8737.09	0.0041	P	3.4
7	☐	1000.000	992.177	16874.16	0.0081	P	0.7
8	☐			11.11	0.0000	P	46.3

y = 8.1262E-006 * x + 2.0195E-006
R = 0.9999
DL = 0.8562
BEC = 0.2485

Weight: <None>
Min Conc: 0

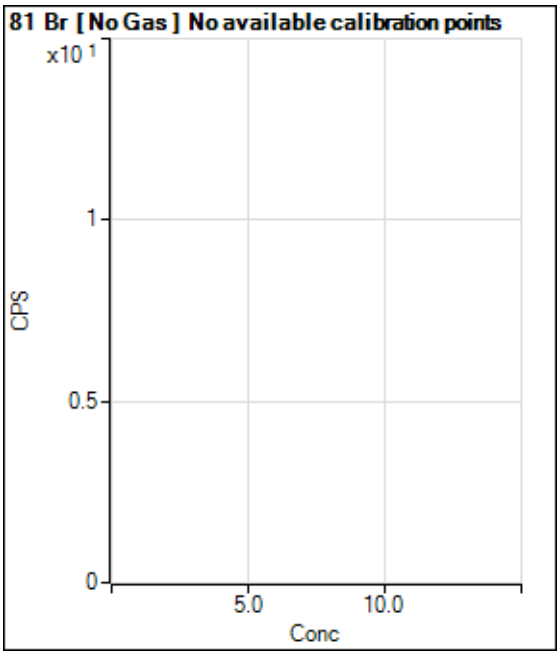


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	986.71	0.0004	P	4.2
2	☐	5.000	5.065	1305.63	0.0006	P	1.7
3	☐	50.000	54.321	4096.17	0.0019	P	1.8
4	☐	125.000	131.404	8370.22	0.0040	P	3.2
5	☐	250.000	259.864	15552.72	0.0074	P	3.1
6	☐	500.000	511.669	29861.25	0.0141	P	1.7
7	☐	1000.000	990.683	56343.29	0.0269	P	1.4
8	☐			936.70	0.0004	P	6.0

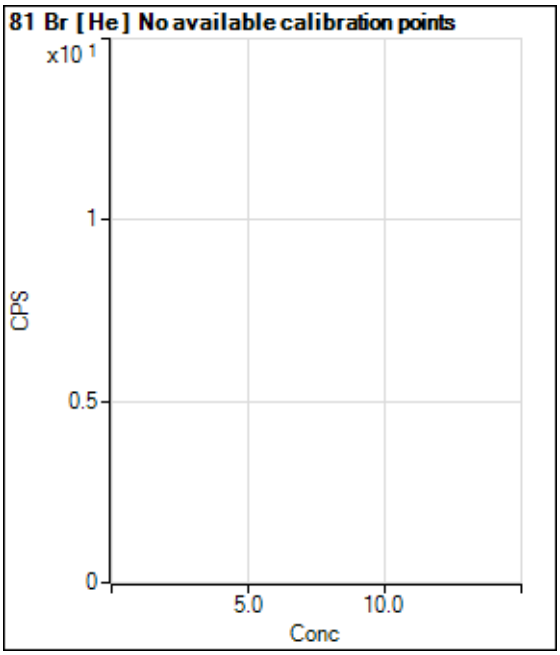
y = 2.6731E-005 * x + 4.4751E-004
R = 0.9998
DL = 2.118
BEC = 16.74

Weight: <None>
Min Conc: 0

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

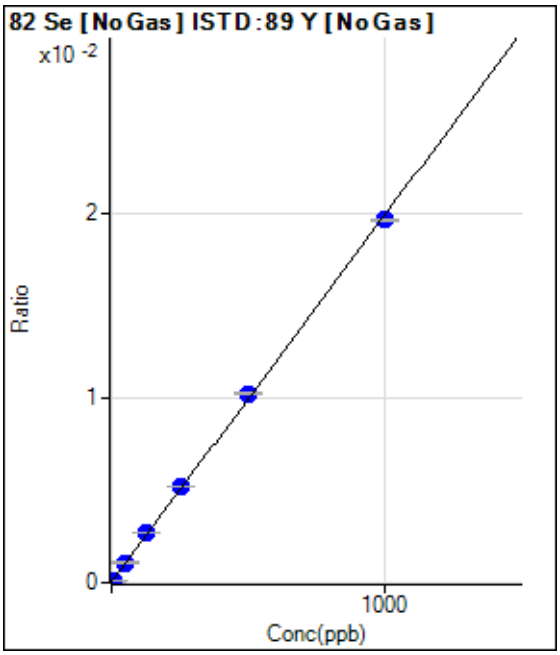


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			35130.75		P	1.6
2	☐			32896.61		P	2.4
3	☐			33496.94		P	0.6
4	☐			31862.19		P	3.2
5	☐			30483.79		P	0.3
6	☐			30905.72		P	1.0
7	☐			31959.06		P	0.2
8	☐			32588.28		P	2.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			214.45		P	7.2
2	☐			176.67		P	8.6
3	☐			231.12		P	16.7
4	☐			225.56		P	1.7
5	☐			221.11		P	10.7
6	☐			227.78		P	19.5
7	☐			221.12		P	16.7
8	☐			203.34		P	18.9

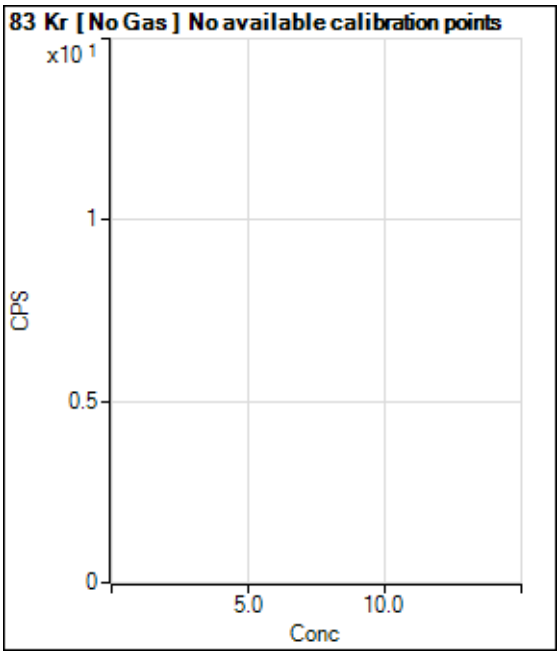
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	198.05	0.0000	P	26.6
2	☐	5.000	4.959	884.26	0.0001	P	8.9
3	☐	50.000	53.578	7630.23	0.0011	P	1.5
4	☐	125.000	134.396	18109.93	0.0027	P	1.1
5	☐	250.000	262.301	34441.67	0.0052	P	0.1
6	☐	500.000	514.960	68074.44	0.0103	P	1.2
7	☐	1000.000	988.091	131924.78	0.0197	P	0.9
8	☐			420.36	0.0001	P	8.6

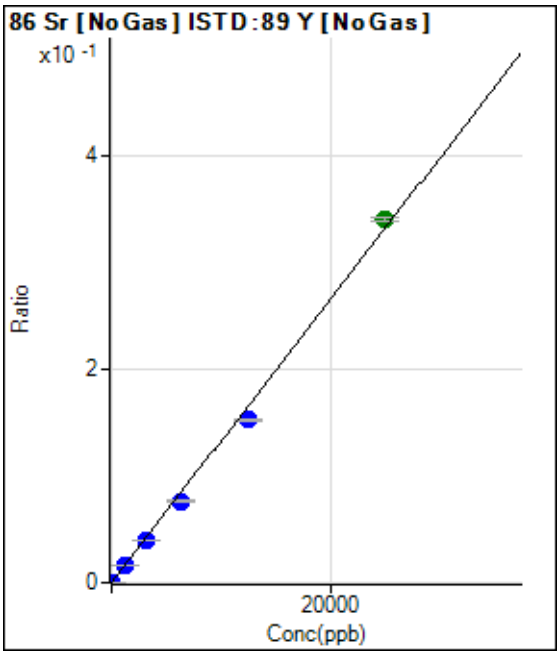
y = 1.9876E-005 * x + 2.8224E-005
R = 0.9997
DL = 1.134
BEC = 1.42

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			426.68		P	9.0
2	☐			452.23		P	11.1
3	☐			497.79		P	11.1
4	☐			436.68		P	7.0
5	☐			385.56		P	6.9
6	☐			380.01		P	11.5
7	☐			402.23		P	13.6
8	☐			476.68		P	7.9

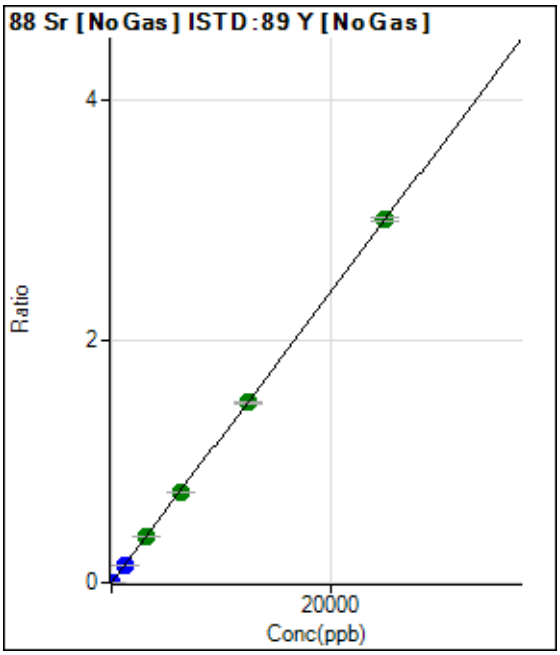
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	700.03	0.0001	P	12.1
2	☐	1.000	22.935	2812.51	0.0004	P	0.3
3	☐	1250.000	1162.528	108124.38	0.0155	P	0.6
4	☐	3125.000	2948.084	262512.35	0.0391	P	0.5
5	☐	6250.000	5761.241	501790.03	0.0764	P	0.7
6	☐	12500.000	11489.614	1009438.64	0.1522	P	2.2
7	☐	25000.000	25653.870	2278718.65	0.3397	A	1.0
8	☐			7652.04	0.0011	P	1.5

y = 1.3238E-005 * x + 9.9787E-005
R = 0.9986
DL = 2.737
BEC = 7.538

Weight: <None>
Min Conc: 0

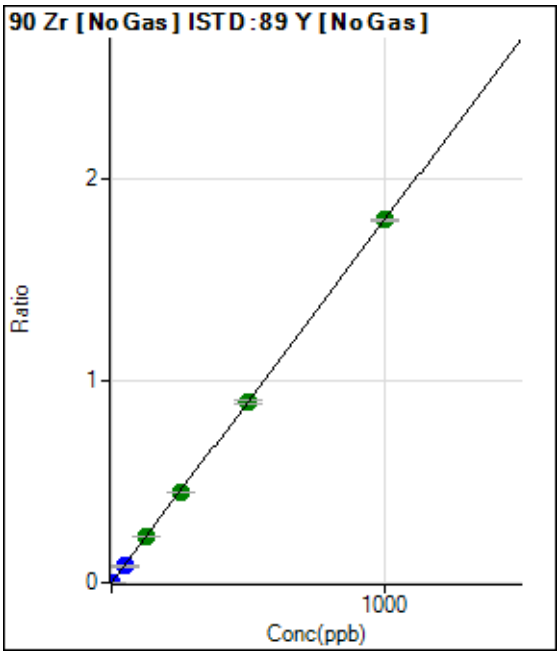


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0000	P	14.4
2	☐	1.000	22.071	18644.14	0.0027	P	1.8
3	☐	1250.000	1139.015	953785.93	0.1366	P	1.4
4	☐	3125.000	3190.432	2567290.67	0.3827	A	1.5
5	☐	6250.000	6239.553	4917529.65	0.7484	A	1.0
6	☐	12500.000	12424.393	9883841.03	1.4902	A	1.7
7	☐	25000.000	25037.785	20143956.50	3.0031	A	1.2
8	☐			60555.01	0.0091	P	0.1

y = 1.1994E-004 * x + 2.7084E-005
R = 1.0000
DL = 0.0973
BEC = 0.2258

Weight: <None>
Min Conc: 0

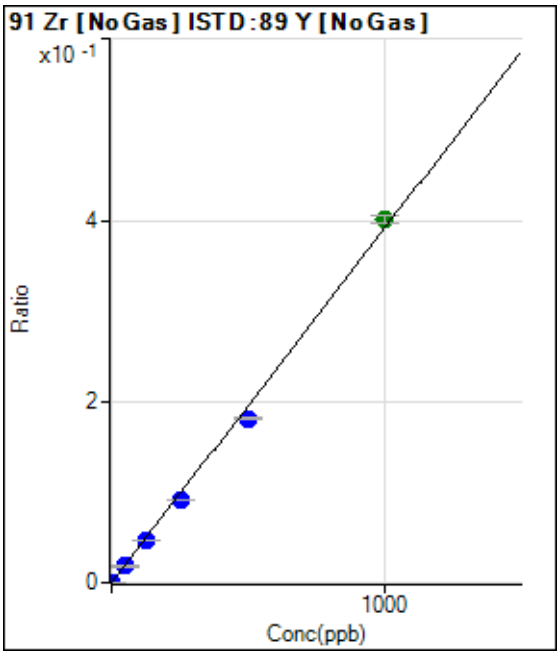
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	375.56	0.0001	P	12.4
2	☐	1.000	0.912	11761.46	0.0017	P	0.6
3	☐	50.000	45.259	566331.91	0.0811	P	1.1
4	☐	125.000	126.947	1526087.86	0.2275	A	1.0
5	☐	250.000	249.444	2936616.31	0.4469	A	0.1
6	☐	500.000	499.031	5929689.98	0.8941	A	1.8
7	☐	1000.000	1000.617	12024627.46	1.7926	A	0.6
8	☐			5178.74	0.0008	P	2.5

y = 0.0018 * x + 5.3537E-005
R = 1.0000
DL = 0.01111
BEC = 0.02988

Weight: <None>
Min Conc: 0

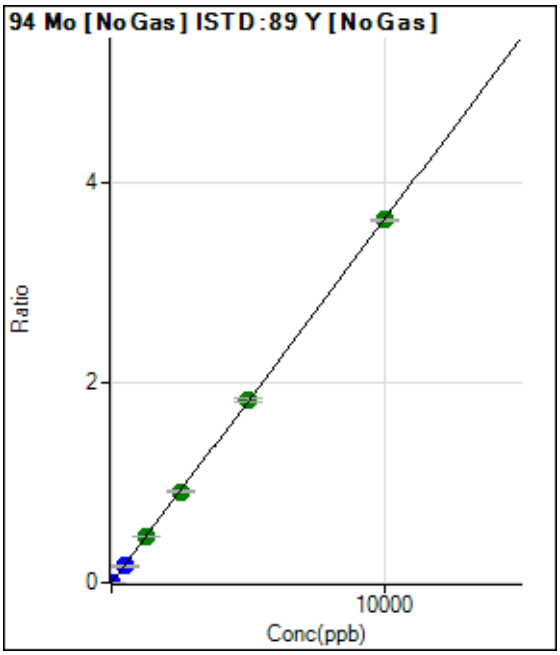


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0000	P	20.5
2	☐	1.000	0.946	2649.15	0.0004	P	4.6
3	☐	50.000	46.234	126242.50	0.0181	P	1.0
4	☐	125.000	117.410	308029.44	0.0459	P	0.7
5	☐	250.000	231.511	594783.94	0.0905	P	0.6
6	☐	500.000	463.166	1201099.23	0.1811	P	1.3
7	☐	1000.000	1024.176	2685999.72	0.4004	A	2.1
8	☐			1084.50	0.0002	P	2.7

y = 3.9096E-004 * x + 1.0121E-005
R = 0.9988
DL = 0.01594
BEC = 0.02589

Weight: <None>
Min Conc: 0

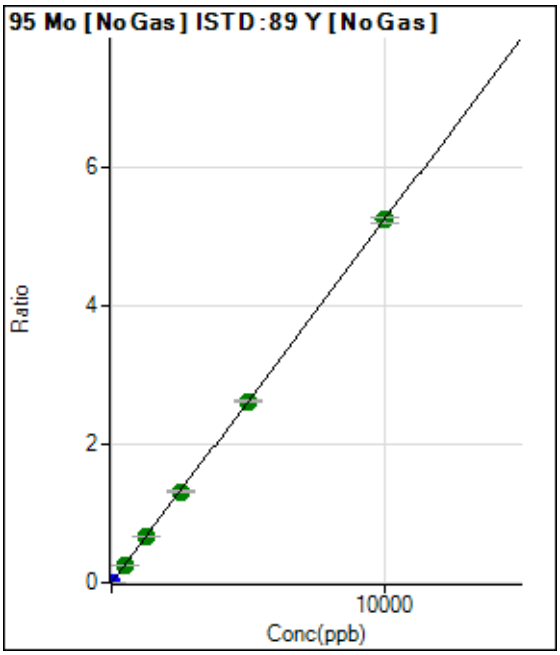
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.11	0.0000	P	12.5
2	☐	5.000	5.255	13432.91	0.0019	P	3.0
3	☐	500.000	451.203	1142145.84	0.1636	P	1.0
4	☐	1250.000	1269.759	3089191.79	0.4604	A	1.6
5	☐	2500.000	2505.417	5969235.12	0.9085	A	1.5
6	☐	5000.000	5023.426	12080282.32	1.8215	A	2.4
7	☐	10000.000	9986.903	24290590.75	3.6212	A	0.5
8	☐			5084.26	0.0008	P	0.8

y = 3.6259E-004 * x + 2.1539E-005
R = 1.0000
DL = 0.02231
BEC = 0.0594

Weight: <None>
Min Conc: 0

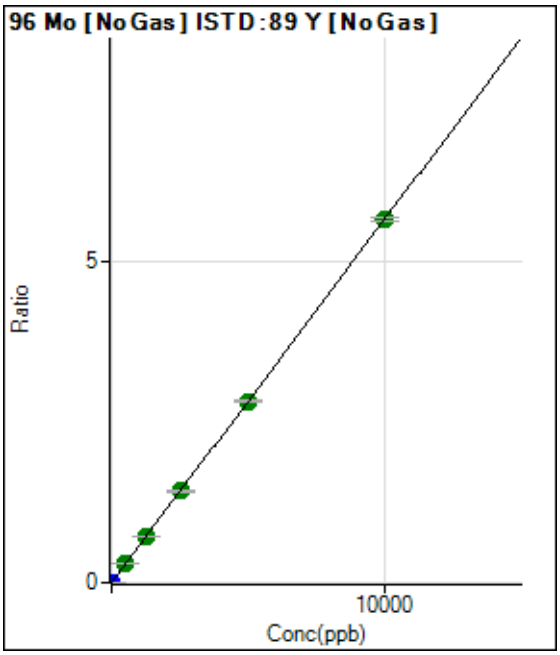


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	25.6
2	☐	5.000	4.440	16266.91	0.0023	P	2.1
3	☐	500.000	496.515	1813602.98	0.2598	A	1.1
4	☐	1250.000	1278.637	4489106.18	0.6691	A	0.7
5	☐	2500.000	2511.007	8633224.73	1.3139	A	1.1
6	☐	5000.000	4997.618	17344613.35	2.6151	A	1.4
7	☐	10000.000	9995.034	35082247.26	5.2300	A	1.3
8	☐			4301.78	0.0006	P	5.7

y = 5.2326E-004 * x + 9.7950E-006
R = 1.0000
DL = 0.01438
BEC = 0.01872

Weight: <None>
Min Conc: 0

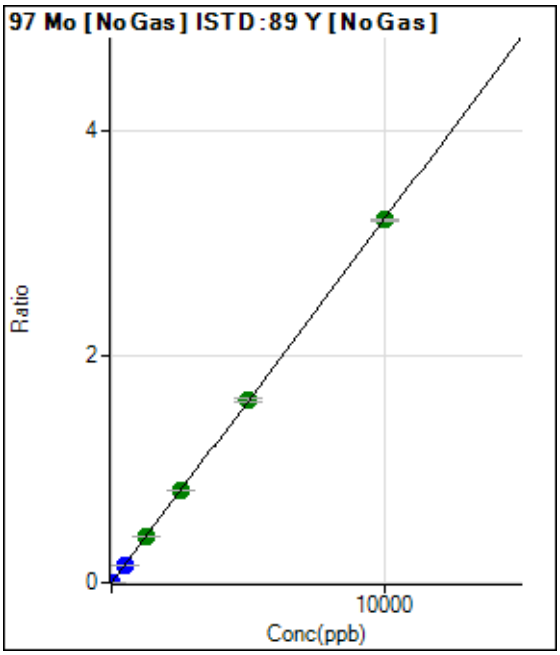
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	207.78	0.0000	P	4.2
2	☐	5.000	4.453	17770.89	0.0025	P	0.1
3	☐	500.000	504.447	1992371.03	0.2854	A	0.5
4	☐	1250.000	1286.536	4883664.06	0.7279	A	0.8
5	☐	2500.000	2519.971	9367641.25	1.4257	A	0.8
6	☐	5000.000	5003.074	18774419.58	2.8305	A	0.7
7	☐	10000.000	9988.681	37907068.60	5.6511	A	1.0
8	☐			20830.55	0.0031	P	1.2

y = 5.6575E-004 * x + 2.9596E-005
R = 1.0000
DL = 0.006631
BEC = 0.05231

Weight: <None>
Min Conc: 0

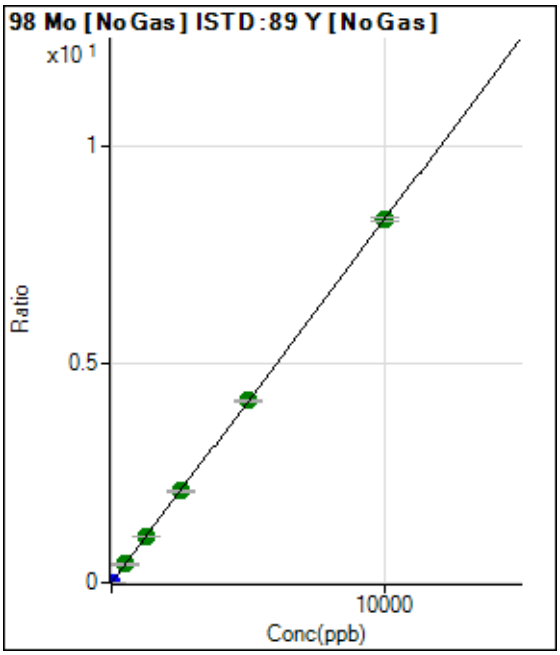


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0000	P	14.0
2	☐	5.000	4.459	10032.42	0.0014	P	4.7
3	☐	500.000	456.294	1022883.59	0.1465	P	1.1
4	☐	1250.000	1276.233	2750115.03	0.4099	A	1.0
5	☐	2500.000	2536.396	5352243.11	0.8145	A	0.9
6	☐	5000.000	5021.391	10695443.03	1.6126	A	1.3
7	☐	10000.000	9979.112	21496388.29	3.2047	A	0.5
8	☐			2703.61	0.0004	P	2.9

y = 3.2114E-004 * x + 7.2720E-006
R = 1.0000
DL = 0.009513
BEC = 0.02264

Weight: <None>
Min Conc: 0

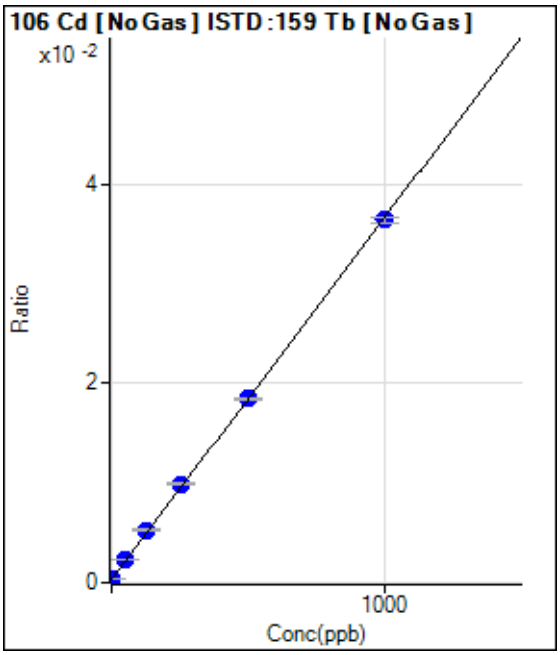
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0000	P	20.3
2	☐	5.000	4.305	25080.46	0.0036	P	0.9
3	☐	500.000	503.188	2919007.04	0.4182	A	1.3
4	☐	1250.000	1266.762	7063092.12	1.0527	A	1.5
5	☐	2500.000	2518.306	13751050.77	2.0928	A	0.5
6	☐	5000.000	5004.932	27586062.37	4.1592	A	1.5
7	☐	10000.000	9990.703	55691110.84	8.3025	A	1.1
8	☐			6045.76	0.0009	P	5.2

y = 8.3102E-004 * x + 2.0117E-005
R = 1.0000
DL = 0.01474
BEC = 0.02421

Weight: <None>
Min Conc: 0

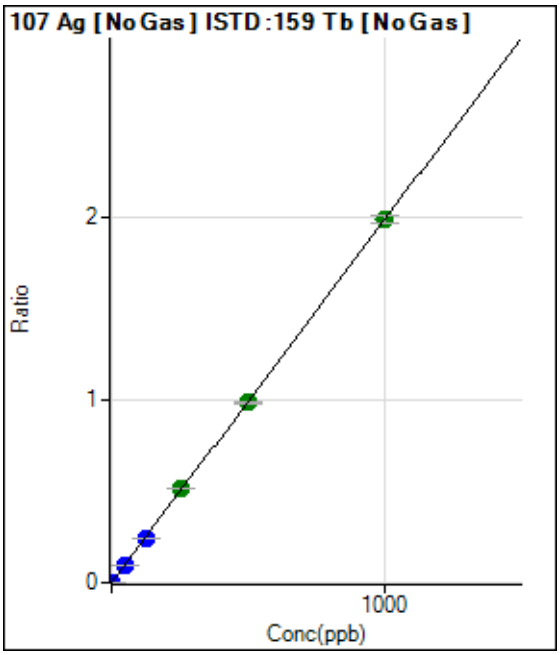


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1476.76	0.0003	P	3.6
2	☐	1.000	0.776	1644.56	0.0003	P	3.3
3	☐	50.000	55.138	11002.05	0.0023	P	0.7
4	☐	125.000	136.798	24889.21	0.0053	P	1.1
5	☐	250.000	263.917	46188.71	0.0099	P	2.4
6	☐	500.000	500.998	89628.52	0.0185	P	1.2
7	☐	1000.000	994.290	176105.53	0.0364	P	1.3
8	☐			1555.65	0.0003	P	5.0

y = 3.6288E-005 * x + 3.1355E-004
R = 0.9999
DL = 0.9224
BEC = 8.641

Weight: <None>
Min Conc: 0

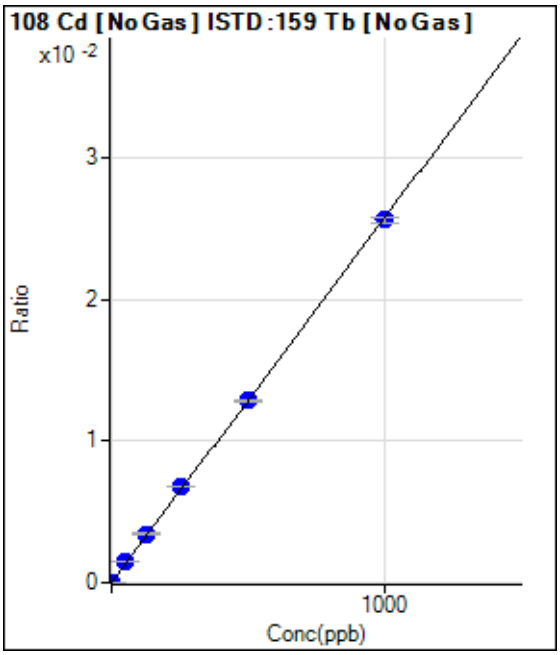
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.66	0.0000	P	25.4
2	☐	1.000	0.977	9392.00	0.0020	P	2.0
3	☐	50.000	49.931	471074.55	0.0991	P	0.8
4	☐	125.000	121.837	1140348.49	0.2418	P	0.5
5	☐	250.000	259.573	2405875.05	0.5151	A	1.1
6	☐	500.000	495.777	4768310.13	0.9838	A	0.6
7	☐	1000.000	1000.117	9602507.98	1.9847	A	2.0
8	☐			504.46	0.0001	P	8.4

y = 0.0020 * x + 1.1997E-005
R = 0.9999
DL = 0.004606
BEC = 0.006046

Weight: <None>
Min Conc: 0

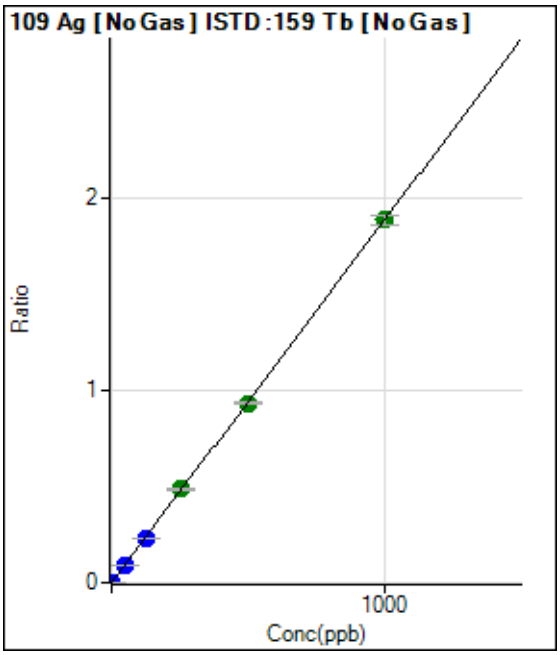


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0000	P	80.7
2	☐	1.000	0.812	116.67	0.0000	P	6.7
3	☐	50.000	56.400	6926.16	0.0015	P	1.4
4	☐	125.000	134.159	16325.94	0.0035	P	2.4
5	☐	250.000	263.652	31756.97	0.0068	P	0.8
6	☐	500.000	500.560	62547.44	0.0129	P	1.1
7	☐	1000.000	994.842	124087.30	0.0256	P	1.7
8	☐			53.33	0.0000	P	27.0

y = 2.5775E-005 * x + 3.2901E-006
R = 0.9999
DL = 0.3089
BEC = 0.1276

Weight: <None>
Min Conc: 0

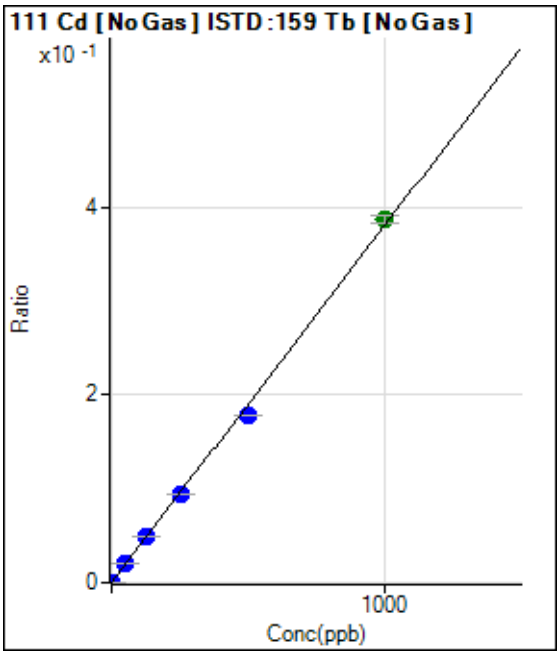
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.66	0.0000	P	67.5
2	☐	1.000	0.963	8771.61	0.0018	P	5.0
3	☐	50.000	49.487	443188.90	0.0932	P	0.8
4	☐	125.000	120.954	1074564.45	0.2279	P	1.2
5	☐	250.000	258.877	2277370.61	0.4877	A	2.4
6	☐	500.000	495.607	4525049.65	0.9336	A	0.7
7	☐	1000.000	1000.509	9118808.06	1.8848	A	2.5
8	☐			456.68	0.0001	P	2.0

y = 0.0019 * x + 7.7257E-006
R = 0.9999
DL = 0.008308
BEC = 0.004101

Weight: <None>
Min Conc: 0

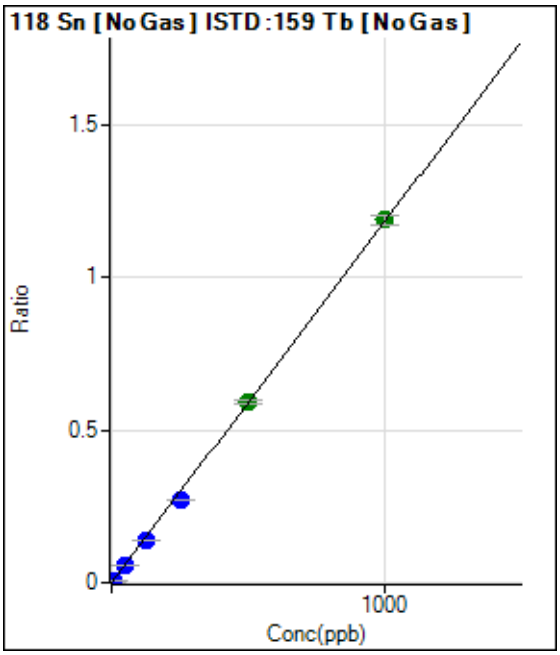


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1101.73	0.0002	P	2.5
2	☐	1.000	0.880	2735.19	0.0006	P	4.8
3	☐	50.000	51.522	94201.19	0.0198	P	0.5
4	☐	125.000	127.151	229001.73	0.0486	P	1.4
5	☐	250.000	246.790	439146.80	0.0940	P	1.6
6	☐	500.000	468.141	863445.59	0.1782	P	0.7
7	☐	1000.000	1016.387	1870230.22	0.3865	A	2.0
8	☐			1331.63	0.0003	P	3.6

y = 3.8007E-004 * x + 2.3393E-004
R = 0.9992
DL = 0.04625
BEC = 0.6155

Weight: <None>
Min Conc: 0

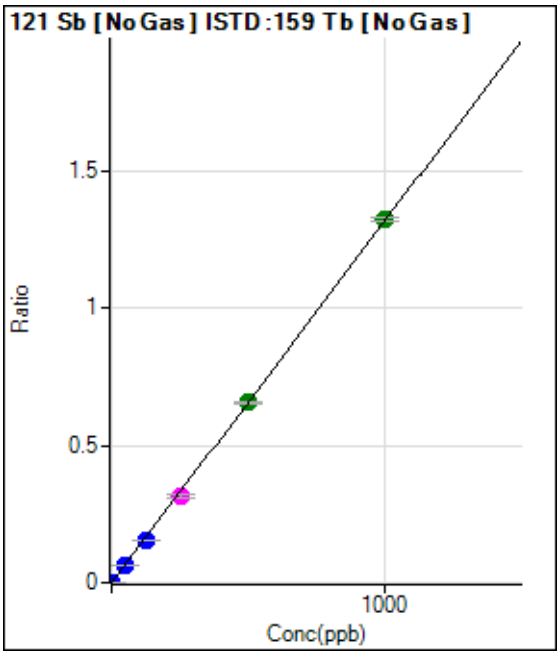
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1341.19	0.0003	P	0.9
2	☐	5.000	4.625	27667.78	0.0057	P	2.3
3	☐	50.000	47.784	269675.79	0.0567	P	0.5
4	☐	125.000	117.777	657419.50	0.1394	P	1.3
5	☐	250.000	229.690	1268484.85	0.2716	P	1.3
6	☐	500.000	500.632	2867446.87	0.5916	A	1.7
7	☐	1000.000	1005.777	5749440.89	1.1883	A	2.5
8	☐			1835.69	0.0004	P	4.3

y = 0.0012 * x + 2.8470E-004
R = 0.9998
DL = 0.006716
BEC = 0.241

Weight: <None>
Min Conc: 0

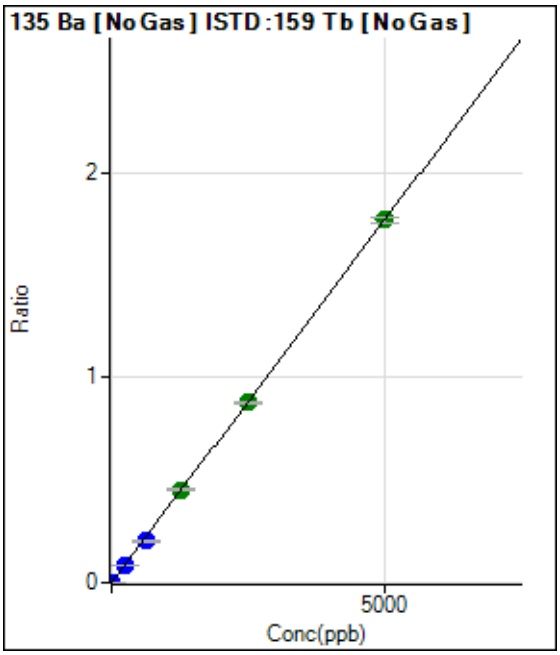


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	40.0
2	☐	2.000	1.853	11788.23	0.0024	P	1.6
3	☐	50.000	47.849	299405.27	0.0630	P	0.6
4	☐	125.000	118.085	732945.00	0.1554	P	1.3
5	☐	250.000	238.890	1468961.35	0.3144	M	5.4
6	☐	500.000	498.338	3178661.62	0.6559	A	1.3
7	☐	1000.000	1004.581	6397617.06	1.3221	A	1.2
8	☐			2189.08	0.0005	P	5.1

y = 0.0013 * x + 9.2329E-006
R = 0.9999
DL = 0.008409
BEC = 0.007015

Weight: <None>
Min Conc: 0

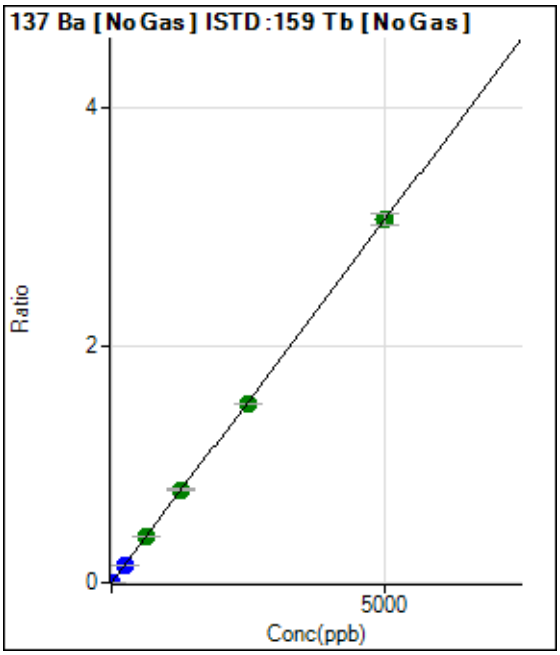
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	12.2
2	☐	10.000	8.674	14815.55	0.0031	P	0.7
3	☐	250.000	233.393	392323.99	0.0825	P	1.0
4	☐	625.000	572.432	954531.85	0.2024	P	0.9
5	☐	1250.000	1283.074	2118507.57	0.4537	A	2.6
6	☐	2500.000	2489.668	4266425.39	0.8803	A	0.9
7	☐	5000.000	5004.302	8560930.57	1.7694	A	1.9
8	☐			3224.85	0.0007	P	4.3

y = 3.5357E-004 * x + 1.0621E-005
R = 0.9999
DL = 0.01097
BEC = 0.03004

Weight: <None>
Min Conc: 0

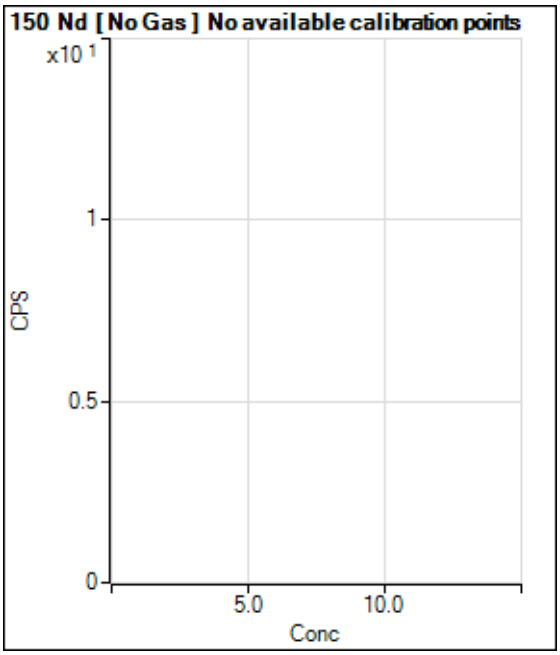


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	4.9
2	☐	10.000	8.690	25675.45	0.0053	P	1.4
3	☐	250.000	232.347	675559.93	0.1421	P	0.8
4	☐	625.000	643.466	1855953.58	0.3935	A	1.8
5	☐	1250.000	1285.532	3672010.29	0.7862	A	0.7
6	☐	2500.000	2468.644	7316536.63	1.5097	A	0.9
7	☐	5000.000	5005.372	14808626.72	3.0610	A	3.3
8	☐			5388.85	0.0012	P	4.0

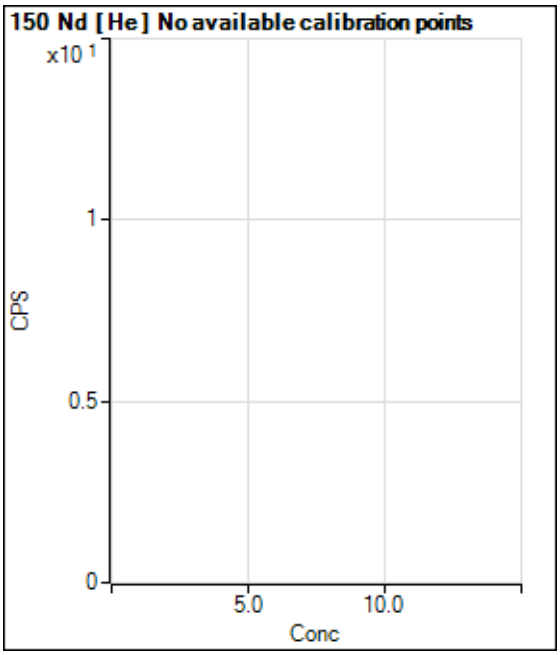
y = 6.1155E-004 * x + 2.0058E-005
R = 0.9999
DL = 0.004842
BEC = 0.0328

Weight: <None>
Min Conc: 0

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

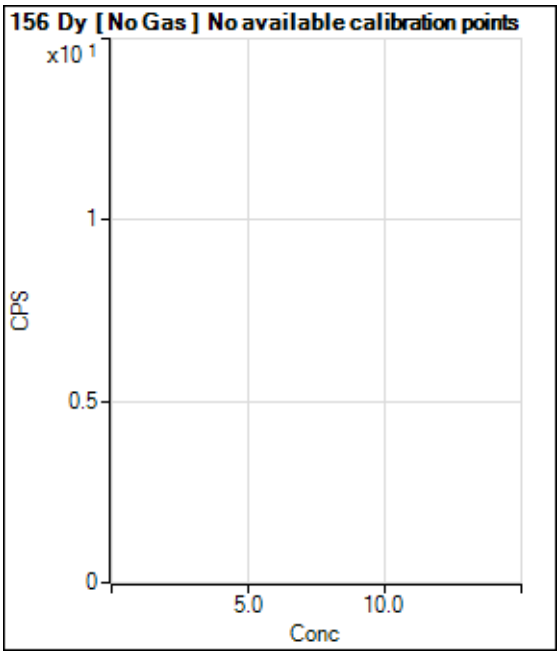


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.
2	☐			4.45		P	86.6
3	☐			38.89		P	9.9
4	☐			54.45		P	19.7
5	☐			103.34		P	11.6
6	☐			200.00		P	26.0
7	☐			395.57		P	8.6
8	☐			121.11		P	26.4

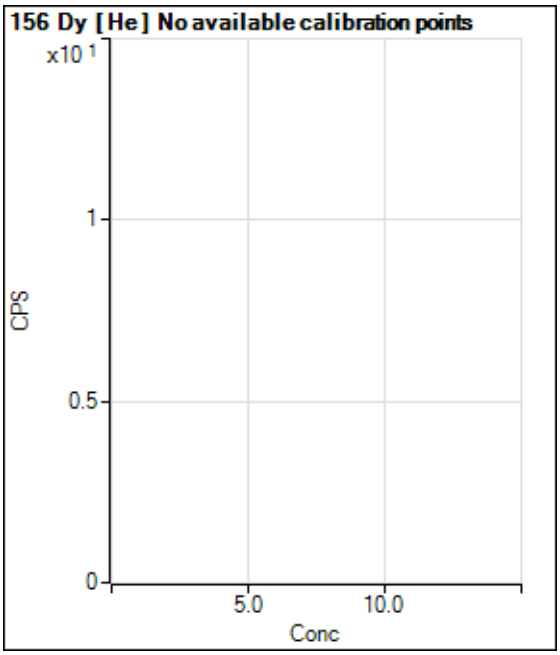


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			6.67		P	50.0
4	☐			25.55		P	52.7
5	☐			24.45		P	43.8
6	☐			55.56		P	33.0
7	☐			97.78		P	25.8
8	☐			91.11		P	11.8

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

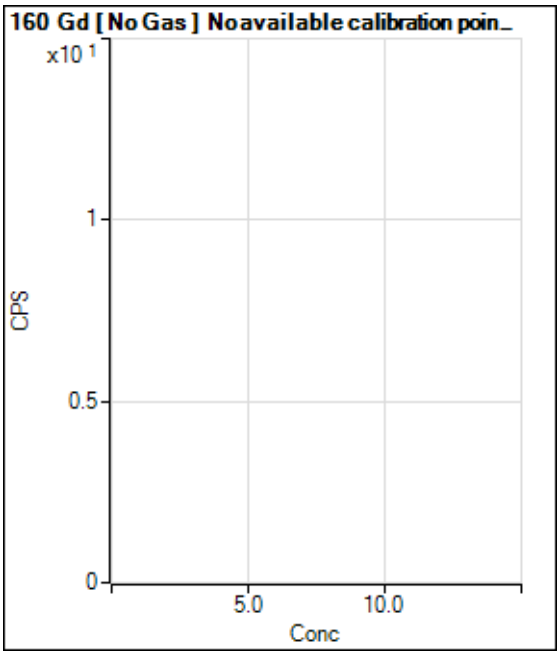


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.78		P	49.5
2	☐			3.33		P	100.
3	☐			12.22		P	41.7
4	☐			17.78		P	28.6
5	☐			33.33		P	20.0
6	☐			55.56		P	38.6
7	☐			104.45		P	24.8
8	☐			194.45		P	15.0

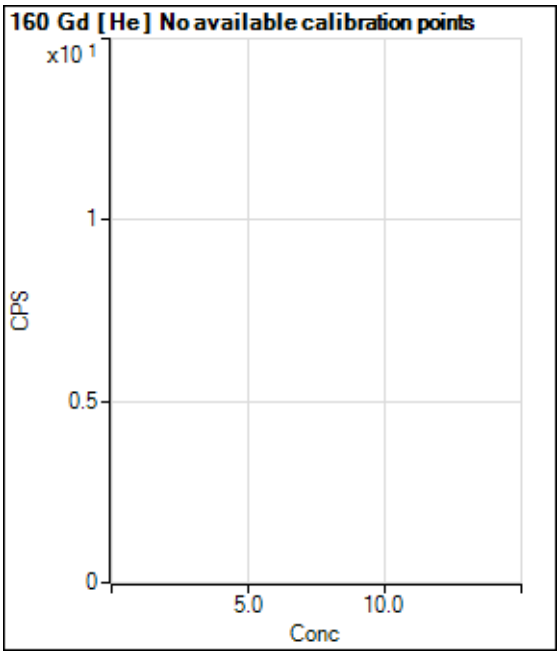


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	50.0
2	☐			3.33		P	100.
3	☐			21.11		P	24.1
4	☐			48.89		P	7.9
5	☐			116.67		P	9.9
6	☐			204.45		P	14.7
7	☐			416.68		P	14.0
8	☐			193.34		P	6.2

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

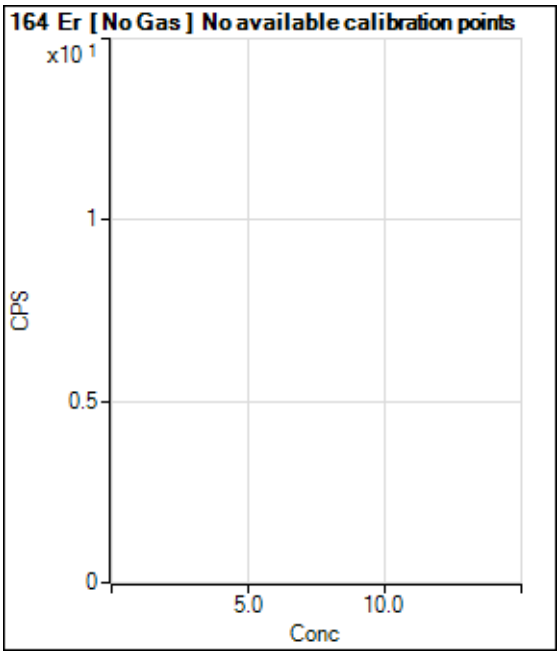


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15.56		P	12.4
2	☐			18.89		P	36.7
3	☐			23.33		P	14.3
4	☐			28.89		P	37.1
5	☐			35.56		P	35.5
6	☐			50.00		P	30.6
7	☐			84.45		P	16.0
8	☐			205.56		P	3.4

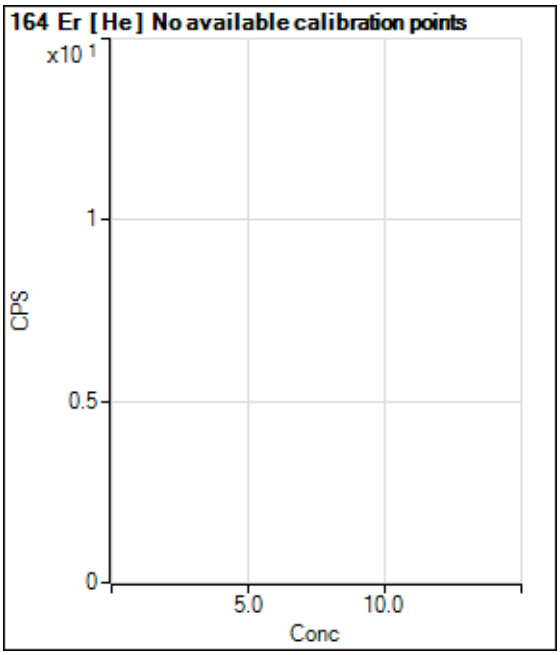


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			213.34		P	8.1
2	☐			195.56		P	5.2
3	☐			226.67		P	9.2
4	☐			200.00		P	7.6
5	☐			200.00		P	8.7
6	☐			203.34		P	4.3
7	☐			211.11		P	6.6
8	☐			346.68		P	8.5

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

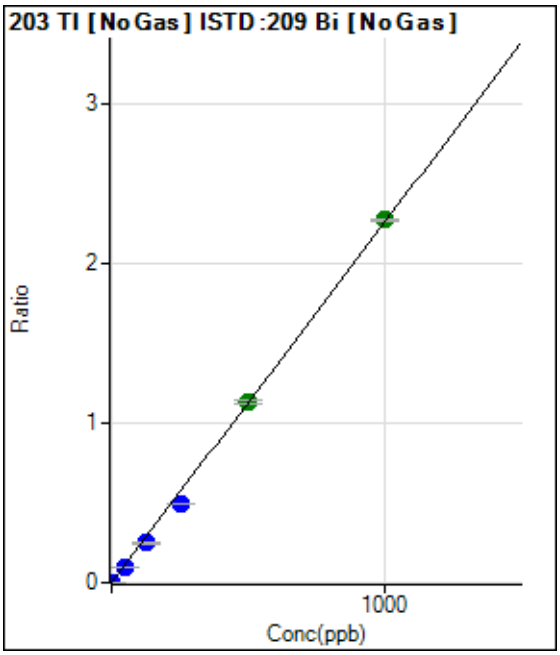


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	10.2
2	☐			25.55		P	27.1
3	☐			34.45		P	20.1
4	☐			41.11		P	4.7
5	☐			61.11		P	17.5
6	☐			67.78		P	34.5
7	☐			107.78		P	10.9
8	☐			263.34		P	5.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			23.33		P	28.6
2	☐			32.22		P	6.0
3	☐			24.44		P	7.9
4	☐			35.56		P	27.1
5	☐			33.33		P	10.0
6	☐			40.00		P	38.2
7	☐			72.22		P	10.7
8	☐			197.78		P	25.9

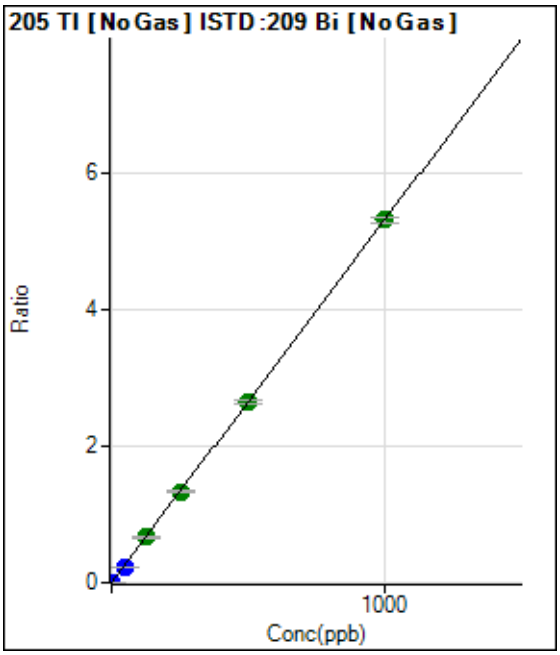
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	384.45	0.0001	P	17.0
2	☐	1.000	0.838	5754.59	0.0020	P	0.6
3	☐	50.000	43.848	284560.41	0.0991	P	1.5
4	☐	125.000	109.986	704502.49	0.2483	P	1.8
5	☐	250.000	219.870	1404783.99	0.4963	P	0.9
6	☐	500.000	504.346	3275513.39	1.1383	A	2.2
7	☐	1000.000	1007.544	6476785.80	2.2738	A	0.7
8	☐			700.03	0.0003	P	18.2

y = 0.0023 * x + 1.3585E-004
R = 0.9995
DL = 0.03078
BEC = 0.0602

Weight: <None>
Min Conc: 0

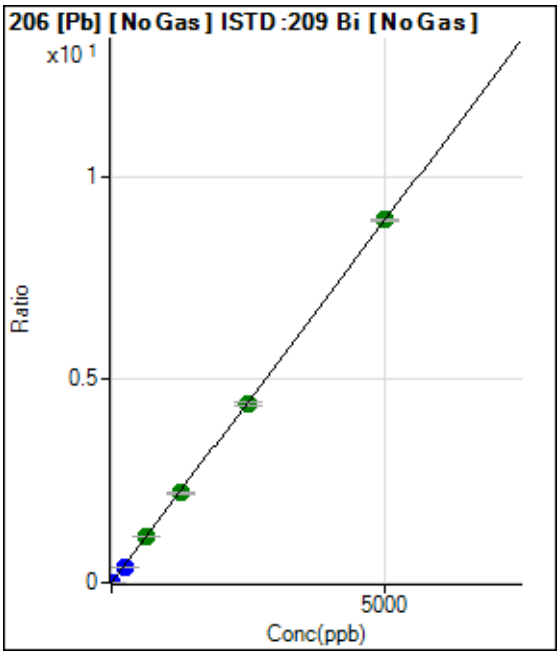


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	866.71	0.0003	P	5.5
2	☐	1.000	0.829	13341.10	0.0047	P	0.5
3	☐	50.000	43.746	667231.53	0.2323	P	0.7
4	☐	125.000	125.353	1886780.96	0.6651	A	2.6
5	☐	250.000	250.488	3761122.13	1.3288	A	1.7
6	☐	500.000	498.411	7607593.98	2.6437	A	1.5
7	☐	1000.000	1000.941	15121483.94	5.3090	A	1.7
8	☐			1594.56	0.0006	P	6.9

y = 0.0053 * x + 3.0643E-004
R = 1.0000
DL = 0.009592
BEC = 0.05778

Weight: <None>
Min Conc: 0

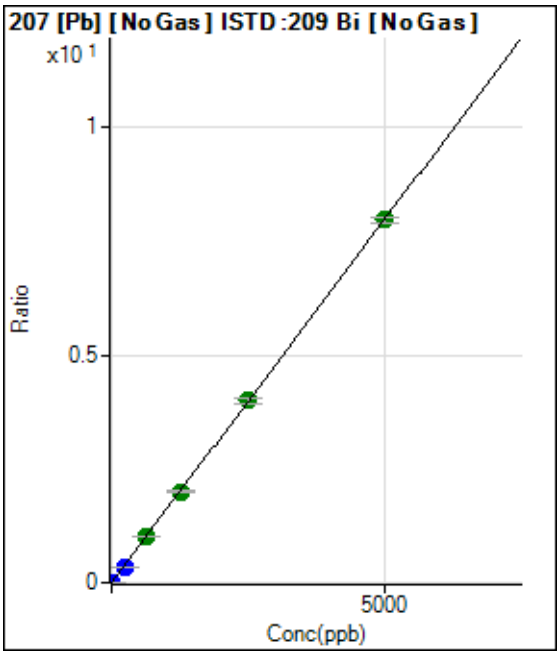
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1321.19	0.0005	P	5.5
2	☐	1.000	0.721	4969.85	0.0018	P	1.8
3	☐	250.000	221.601	1135818.70	0.3955	P	1.1
4	☐	625.000	632.532	3200048.53	1.1280	A	1.8
5	☐	1250.000	1240.274	6259193.80	2.2114	A	1.3
6	☐	2500.000	2476.943	12706757.59	4.4159	A	2.4
7	☐	5000.000	5014.438	25463106.01	8.9393	A	0.6
8	☐			10682.06	0.0042	P	0.9

y = 0.0018 * x + 4.6700E-004
R = 1.0000
DL = 0.04314
BEC = 0.262

Weight: <None>
Min Conc: 0

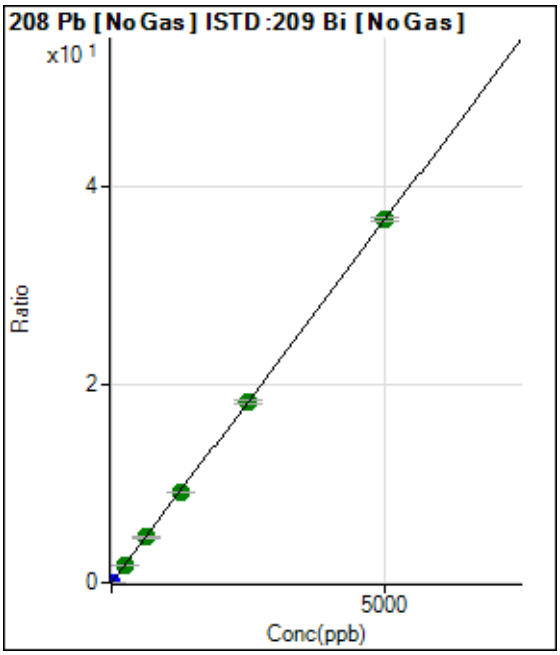


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1185.62	0.0004	P	4.1
2	☐	1.000	0.703	4372.97	0.0015	P	2.3
3	☐	250.000	216.274	991760.38	0.3453	P	1.2
4	☐	625.000	631.201	2857159.33	1.0071	A	1.0
5	☐	1250.000	1252.907	5656944.50	1.9986	A	1.0
6	☐	2500.000	2507.629	11509126.21	3.9997	A	2.8
7	☐	5000.000	4996.370	22697220.50	7.9688	A	1.3
8	☐			9729.13	0.0038	P	2.3

y = 0.0016 * x + 4.1918E-004
R = 1.0000
DL = 0.03195
BEC = 0.2628

Weight: <None>
Min Conc: 0

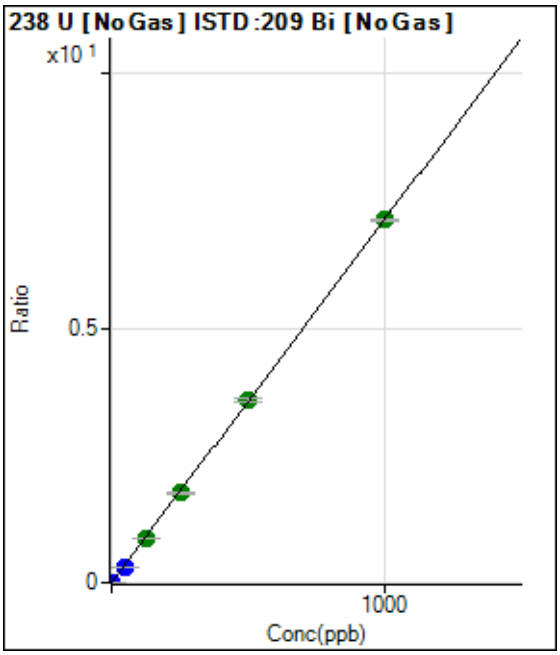
Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5422.70	0.0019	P	1.0
2	☐	1.000	0.769	21374.57	0.0075	P	1.1
3	☐	250.000	234.008	4914530.46	1.7114	A	1.8
4	☐	625.000	627.703	13014451.13	4.5874	A	1.4
5	☐	1250.000	1247.470	25799815.73	9.1150	A	0.5
6	☐	2500.000	2489.781	52344644.74	18.1904	A	2.0
7	☐	5000.000	5006.204	104173697.9	36.5735	A	1.0
8	☐			43481.16	0.0170	P	0.7

y = 0.0073 * x + 0.0019
R = 1.0000
DL = 0.007707
BEC = 0.2624

Weight: <None>
Min Conc: 0

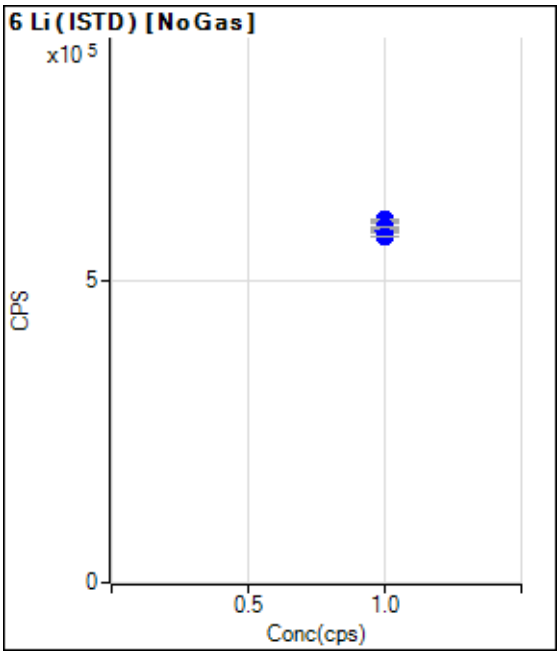


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	431.12	0.0002	P	12.9
2	☐	1.000	0.807	16772.84	0.0059	P	0.2
3	☐	50.000	41.633	853458.98	0.2972	P	1.6
4	☐	125.000	123.706	2504676.79	0.8828	A	0.4
5	☐	250.000	247.225	4993301.38	1.7641	A	1.0
6	☐	500.000	503.227	10332240.54	3.5906	A	1.6
7	☐	1000.000	999.660	20317650.81	7.1325	A	0.5
8	☐			912.26	0.0004	P	10.9

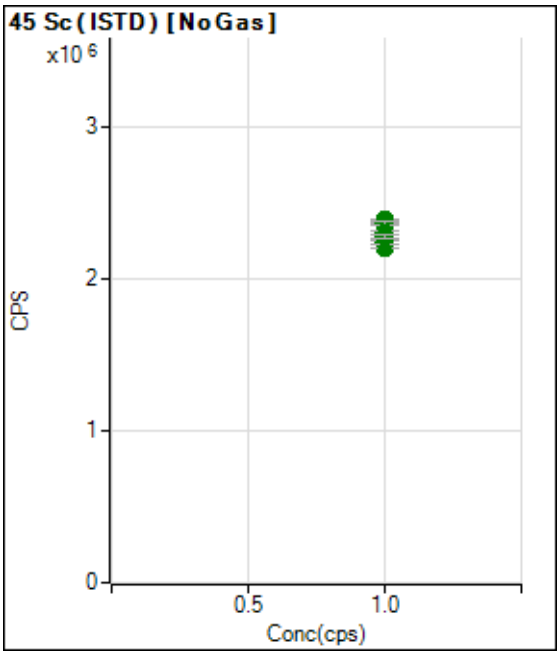
y = 0.0071 * x + 1.5236E-004
R = 1.0000
DL = 0.008253
BEC = 0.02135

Weight: <None>
Min Conc: 0

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

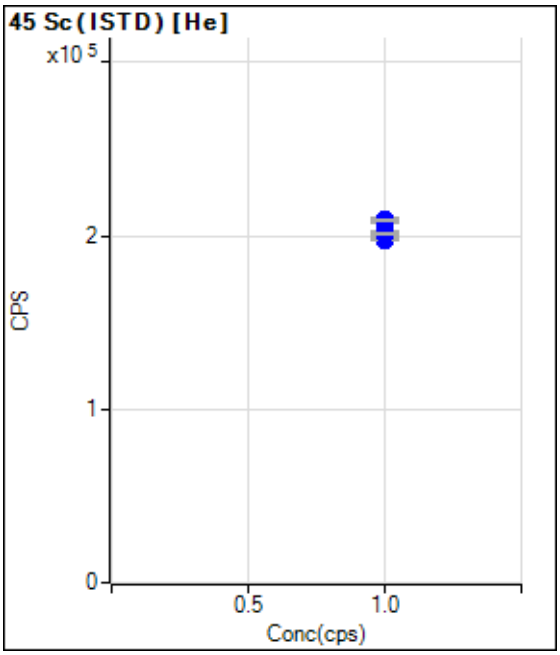


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		581535.39		P	0.5
2	☐	1.000		581462.25		P	1.5
3	☐	1.000		587090.68		P	0.5
4	☐	1.000		597517.67		P	0.3
5	☐	1.000		596741.45		P	0.5
6	☐	1.000		599040.57		P	0.4
7	☐	1.000		586374.24		P	0.5
8	☐	1.000		571228.43		P	0.1

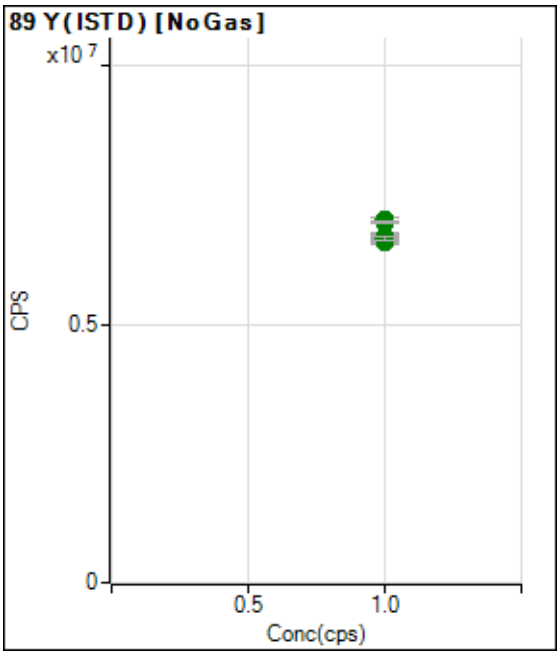


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2383804.72		A	0.5
2	☐	1.000		2378610.19		A	1.2
3	☐	1.000		2359910.87		A	1.0
4	☐	1.000		2299038.71		A	0.6
5	☐	1.000		2201328.40		A	0.1
6	☐	1.000		2237937.66		A	0.9
7	☐	1.000		2240427.50		A	1.1
8	☐	1.000		2272664.36		A	1.2

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

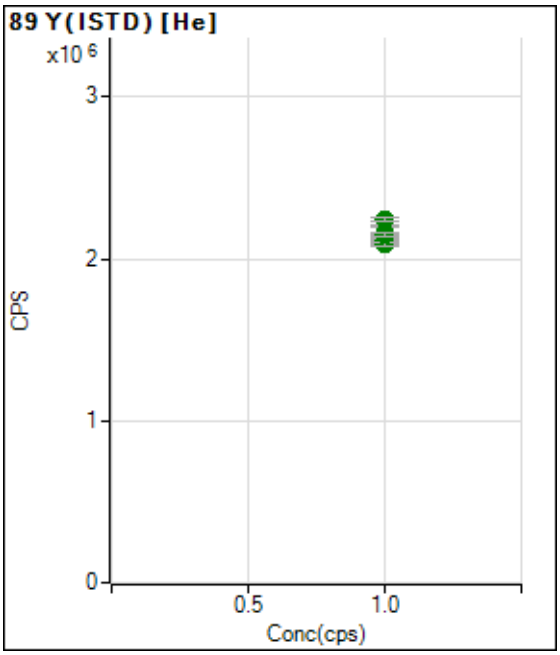


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		208908.11		P	0.4
2	☐	1.000		207587.00		P	0.3
3	☐	1.000		209053.55		P	1.2
4	☐	1.000		202957.18		P	0.3
5	☐	1.000		197600.65		P	0.5
6	☐	1.000		200317.94		P	1.3
7	☐	1.000		201341.88		P	0.6
8	☐	1.000		208834.90		P	0.6

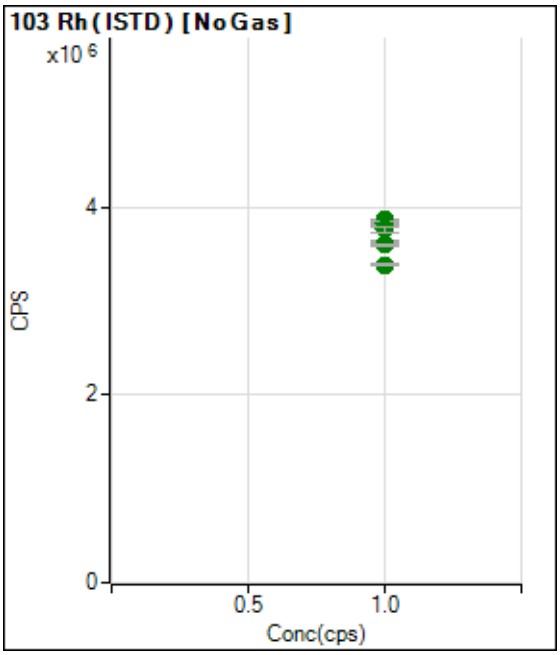


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7022548.30		A	1.3
2	☐	1.000		6971941.49		A	0.7
3	☐	1.000		6980510.94		A	0.6
4	☐	1.000		6709381.36		A	1.4
5	☐	1.000		6570705.81		A	0.5
6	☐	1.000		6633174.97		A	1.1
7	☐	1.000		6707930.60		A	0.5
8	☐	1.000		6657622.61		A	1.2

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

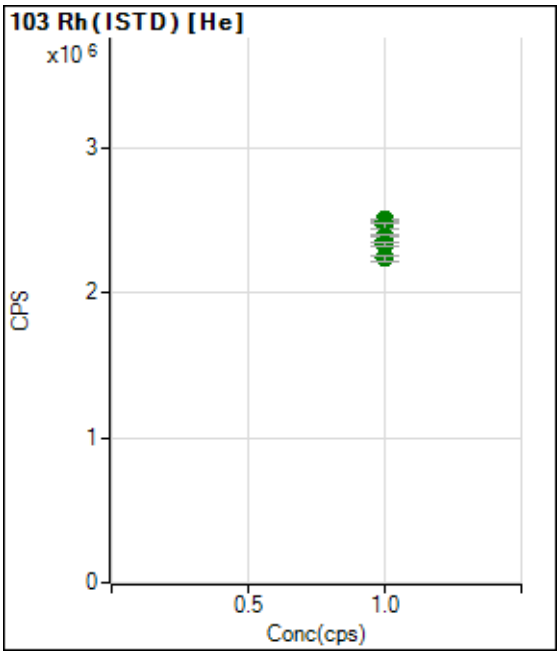


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2204701.89		A	0.3
2	☐	1.000		2239704.58		A	1.2
3	☐	1.000		2156165.54		A	0.8
4	☐	1.000		2114010.72		A	1.1
5	☐	1.000		2103566.08		A	0.9
6	☐	1.000		2114418.28		A	1.4
7	☐	1.000		2092410.58		A	1.3
8	☐	1.000		2150402.21		A	0.8

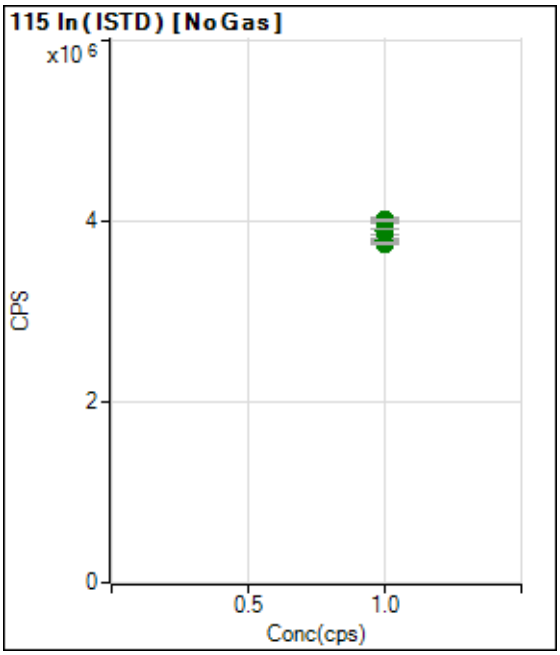


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3867151.85		A	0.9
2	☐	1.000		3844226.44		A	0.9
3	☐	1.000		3838313.76		A	1.2
4	☐	1.000		3764308.94		A	1.4
5	☐	1.000		3608597.06		A	1.7
6	☐	1.000		3606234.32		A	1.2
7	☐	1.000		3597830.33		A	0.6
8	☐	1.000		3391378.25		A	0.6

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

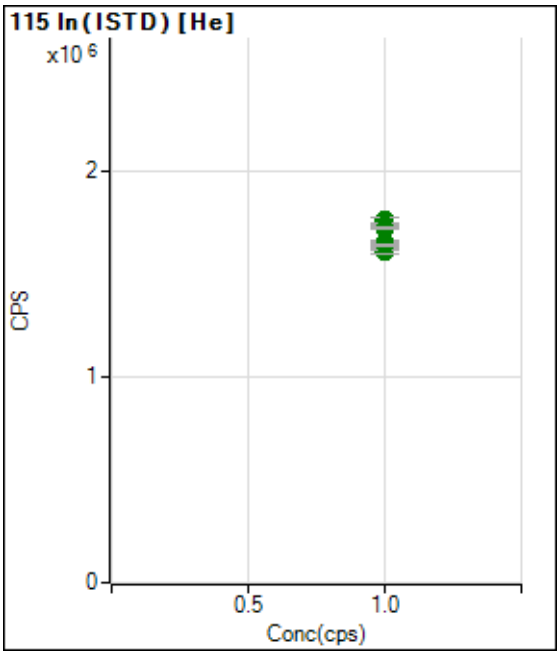


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2494952.13		A	0.0
2	☐	1.000		2504513.64		A	0.6
3	☐	1.000		2499901.94		A	1.0
4	☐	1.000		2465075.83		A	1.8
5	☐	1.000		2368469.69		A	1.7
6	☐	1.000		2393739.62		A	0.8
7	☐	1.000		2340327.54		A	1.0
8	☐	1.000		2239087.05		A	1.5

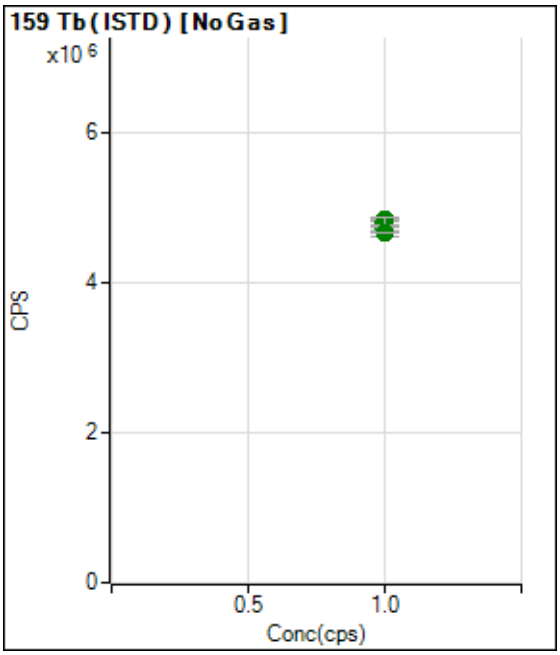


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4009238.32		A	1.0
2	☐	1.000		4004865.58		A	1.0
3	☐	1.000		4011332.49		A	0.4
4	☐	1.000		3884010.01		A	1.6
5	☐	1.000		3796779.88		A	1.0
6	☐	1.000		3794459.60		A	1.1
7	☐	1.000		3748662.25		A	0.5
8	☐	1.000		3747223.88		A	0.3

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

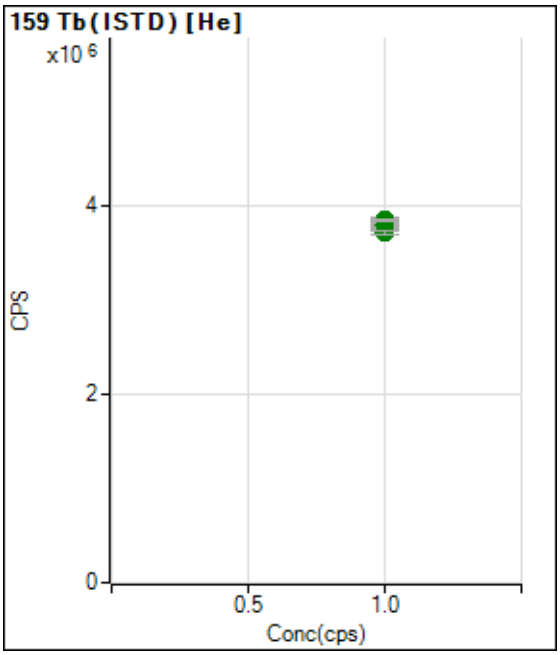


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1757226.02		A	2.1
2	☐	1.000		1759462.88		A	1.5
3	☐	1.000		1738724.62		A	0.7
4	☐	1.000		1718706.27		A	0.4
5	☐	1.000		1641659.17		A	1.9
6	☐	1.000		1653532.38		A	0.7
7	☐	1.000		1602966.36		A	0.9
8	☐	1.000		1636690.39		A	1.0

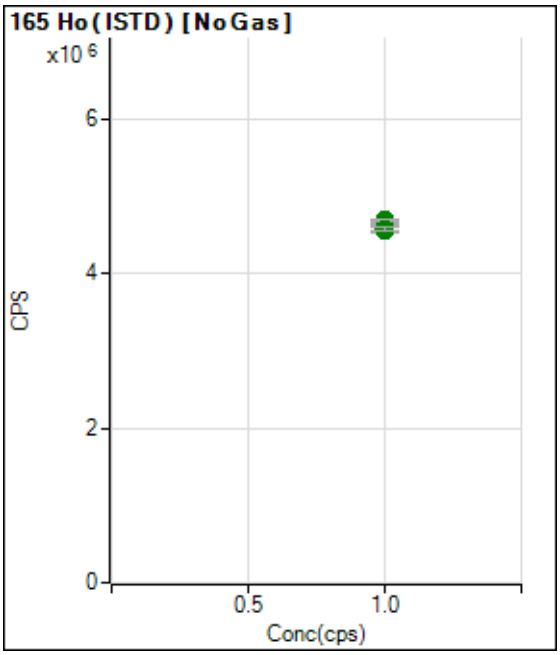


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4710341.80		A	1.8
2	☐	1.000		4813928.22		A	1.2
3	☐	1.000		4753810.55		A	0.5
4	☐	1.000		4716325.42		A	1.2
5	☐	1.000		4671060.28		A	1.7
6	☐	1.000		4846562.67		A	0.9
7	☐	1.000		4839652.78		A	2.0
8	☐	1.000		4677657.29		A	0.3

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

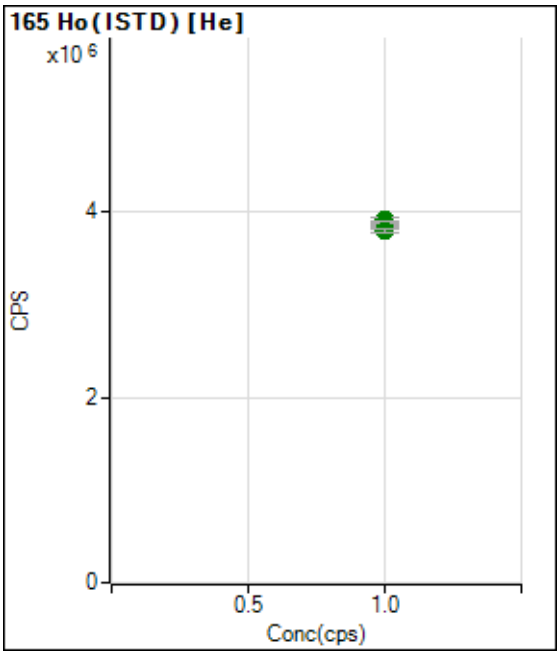


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3813783.90		A	0.6
2	☐	1.000		3811411.71		A	1.1
3	☐	1.000		3841987.03		A	0.6
4	☐	1.000		3782019.49		A	0.8
5	☐	1.000		3781018.07		A	1.3
6	☐	1.000		3842299.87		A	0.9
7	☐	1.000		3833668.73		A	0.4
8	☐	1.000		3707768.94		A	0.7

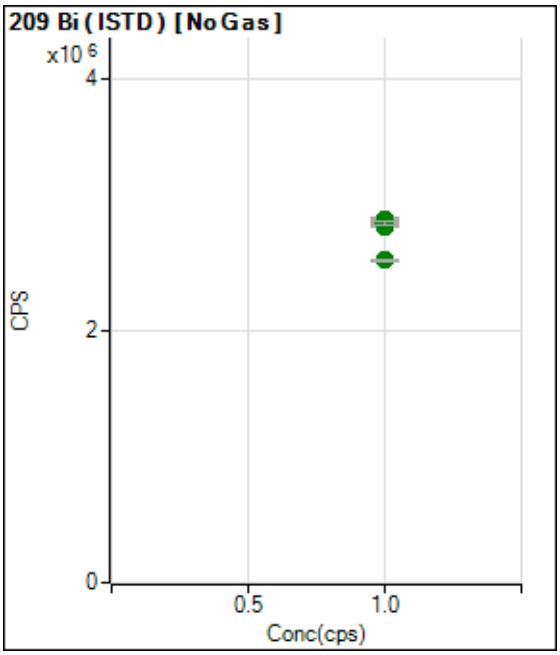


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4637239.93		A	1.1
2	☐	1.000		4636191.43		A	0.3
3	☐	1.000		4659962.95		A	1.3
4	☐	1.000		4610132.26		A	0.3
5	☐	1.000		4561648.75		A	1.7
6	☐	1.000		4677570.90		A	1.4
7	☐	1.000		4698832.47		A	0.3
8	☐	1.000		4584753.13		A	1.5

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

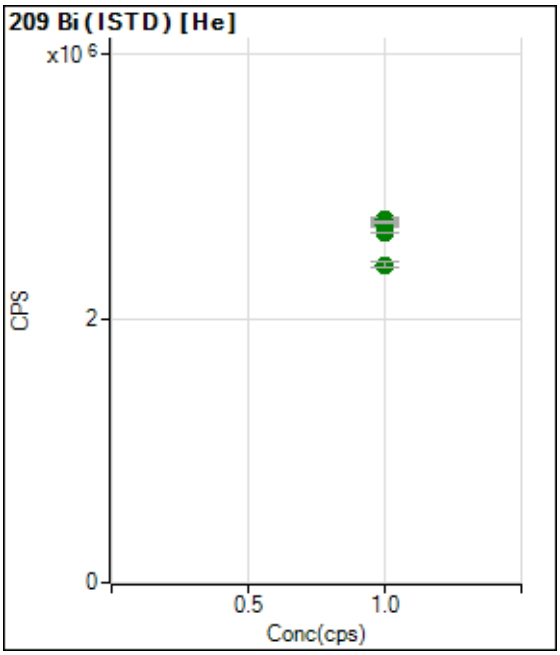


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3892499.35		A	0.6
2	☐	1.000		3835500.99		A	1.4
3	☐	1.000		3869617.37		A	2.1
4	☐	1.000		3886125.91		A	1.0
5	☐	1.000		3914625.11		A	0.9
6	☐	1.000		3879161.61		A	0.8
7	☐	1.000		3881874.91		A	0.5
8	☐	1.000		3797552.93		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2828561.00		A	0.7
2	☐	1.000		2837806.35		A	0.6
3	☐	1.000		2872227.73		A	1.7
4	☐	1.000		2837362.28		A	1.5
5	☐	1.000		2830515.20		A	0.4
6	☐	1.000		2877827.77		A	0.8
7	☐	1.000		2848510.72		A	1.0
8	☐	1.000		2557689.42		A	0.9

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2719981.19		A	1.8
2	☐	1.000		2722296.39		A	1.6
3	☐	1.000		2746087.88		A	0.9
4	☐	1.000		2717041.24		A	0.7
5	☐	1.000		2712352.22		A	1.5
6	☐	1.000		2728524.44		A	0.8
7	☐	1.000		2644767.29		A	0.2
8	☐	1.000		2407469.50		A	2.0

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7032325MS2.b
Acq. Date-Time	2025-03-23 14:08:56
Report Comment	---
Instrument Name	G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3950	39497.13			1.056	5.000
24		31991	319911.84			0.949	5.000
25		4268	42679.77			0.965	5.000
26		5032	50316.31			1.353	5.000
59		54618	546181.57			0.594	5.000
113		7346	73459.74			0.692	5.000
115		93886	938858.03			1.125	5.000
206		16749	167489.64			2.163	5.000
207		14725	147252.31			2.707	5.000
208		34767	347671.10			2.329	5.000
220		0	2.90			44.628	

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

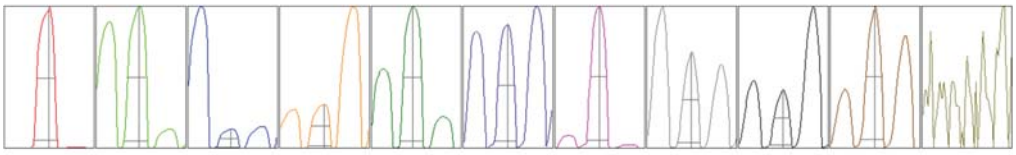
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4006	3978	3939	3919	3906
24	32368	32100	32129	31705	31654
25	4318	4290	4280	4231	4220
26	5114	5096	5003	4977	4969
59	55011	54528	54740	54684	54129
113	7368	7286	7393	7386	7296
115	93210	92368	94856	94586	94410
206	16530	16437	17105	17181	16492
207	14426	14395	15096	15219	14489
208	34109	34047	35556	35723	34401

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	6834.14	9.00	8.90 - 9.10	
24	52922.49	23.95	23.90 - 24.10	
25	6938.41	24.95	24.90 - 25.10	
26	7923.36	26.00	25.90 - 26.10	
59	91189.60	58.90	58.90 - 59.10	
113	13707.37	113.00	112.90 - 113.10	
115	177207.22	115.00	114.90 - 115.10	
206	32923.04	206.00	205.90 - 206.10	
207	28652.45	207.00	206.90 - 207.10	
208	68582.00	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779	0.900	
24	0.64	0.793	0.900	
25	0.64	0.775	0.900	
26	0.64	0.786	0.900	
59	0.63	0.780	0.900	
113	0.55	0.736	0.900	
115	0.53	0.734	0.900	
206	0.52	0.764	0.900	
207	0.52	0.746	0.900	
208	0.52	0.782	0.900	
220				

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

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	0.0 V	Omega Lens	7.5 V	Deflect	16.2 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-45 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	138	Axis Gain	0.9978	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.09		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2340 V	Pulse HV	1120 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18784	187839.86			0.552	
89		18499	184988.78			0.473	
205		20420	204199.20			1.012	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18895	18618	18793	18777	18838
89	18630	18464	18538	18458	18404
205	20785	20282	20332	20330	20370

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	0.0 V	Omega Lens	9.4 V	Deflect	3.2 V

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	138	Axis Gain	0.9978	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.09		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.4 mm

EM

Discriminator	4.7 mV	Analog HV	2340 V	Pulse HV	1120 V

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.05	0.03	0.03	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.01	-0.01	0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.05	-0.07	0.12	0.00	N/A	ppb
Cadmium	106-1	-0.32	0.02	0.30	0.00	N/A	ppb
Cadmium	111-1	-0.02	0.00	0.01	0.00	N/A	ppb
Calcium	43-1	1.32	-2.55	1.23	0.00	N/A	ppb
Calcium	44-1	0.71	0.11	-0.82	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	0.02	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.01	0.03	-0.03	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	56-2	-0.12	0.15	-0.03	0.00	N/A	ppb
Iron	57-2	-2.08	1.14	0.94	0.00	N/A	ppb
Iron	54-2	0.06	0.13	-0.18	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	-0.01	-0.01	0.00	N/A	ppb
Lead	207-1	-0.01	0.01	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.18	0.09	-0.27	0.00	N/A	ppb
Manganese	55-2	-0.03	0.00	0.03	0.00	N/A	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	-0.01	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.01	-0.04	0.00	N/A	ppb
Phosphorus	31-2	-127.11	-126.48	-132.62	-128.74		ppb
Potassium	39-2	-1.21	0.55	0.66	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.16	-0.43	0.27	0.00	N/A	ppb
Selenium	77-2	0.31	-0.06	-0.25	0.00	N/A	ppb
Selenium	78-2	-0.79	0.57	0.22	0.00	N/A	ppb
Silicon	28-1	-0.49	0.86	-0.36	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	0.14	-0.14	0.00	0.00	N/A	ppb
Strontium	86-1	-0.59	-0.46	1.05	0.00	N/A	ppb
Strontium	88-1	-0.01	-0.03	0.04	0.00	N/A	ppb
Sulfur	34-1	-77.82	-118.33	-92.14	-96.10		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.01	-0.01	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	0.00	0.00	N/A	ppb
Titanium	47-1	0.00	-0.02	0.02	0.00	N/A	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	-0.01	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.04	0.05	0.00	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.01	-0.01	0.00	0.00	N/A	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.59	18.36	17.56	17.83	2.55	ppb
Antimony	121-1	1.83	1.89	1.85	1.85	1.63	ppb
Arsenic	75-2	0.91	1.00	1.06	0.99	7.60	ppb
Barium	135-1	8.65	8.63	8.74	8.67	0.69	ppb
Barium	137-1	8.83	8.60	8.64	8.69	1.44	ppb
Beryllium	9-1	0.90	0.97	0.79	0.88	10.18	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.77	0.88	0.78	0.81	7.77	ppb
Cadmium	106-1	1.13	0.67	0.53	0.78	40.03	ppb
Cadmium	111-1	0.90	0.94	0.80	0.88	8.11	ppb
Calcium	43-1	446.35	448.13	434.61	443.03	1.66	ppb
Calcium	44-1	443.88	453.98	448.47	448.78	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.78	1.79	1.85	1.81	2.17	ppb
Cobalt	59-2	0.92	0.94	0.91	0.92	1.75	ppb
Copper	63-2	1.71	1.71	1.62	1.68	3.23	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				99		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	49.67	49.57	50.17	49.81	0.65	ppb
Iron	57-2	51.86	56.74	55.46	54.69	4.63	ppb
Iron	54-2	50.53	48.98	50.75	50.09	1.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.74	0.71	0.71	0.72	2.49	ppb
Lead	207-1	0.68	0.70	0.72	0.70	3.10	ppb
Lead	208-1	0.78	0.76	0.77	0.77	1.45	ppb
Lithium	6-1				100		%
Magnesium	24-2	433.28	433.47	430.83	432.53	0.34	ppb
Manganese	55-2	0.91	0.77	0.89	0.86	8.90	ppb
Molybdenum	94-1	5.07	5.34	5.35	5.25	3.03	ppb
Molybdenum	95-1	4.42	4.54	4.36	4.44	2.08	ppb
Molybdenum	96-1	4.45	4.46	4.45	4.45	0.11	ppb
Molybdenum	97-1	4.23	4.50	4.65	4.46	4.77	ppb
Molybdenum	98-1	4.26	4.32	4.34	4.30	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.89	0.86	0.86	0.87	2.39	ppb
Phosphorus	31-2	127.81	117.37	141.04	128.74	9.22	ppb
Potassium	39-2	452.21	451.81	443.09	449.04	1.15	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	5.11	5.44	4.33	4.96	11.44	ppb
Selenium	77-2	5.19	4.76	3.77	4.57	15.94	ppb
Selenium	78-2	5.02	4.71	5.46	5.06	7.51	ppb
Silicon	28-1	1.84	5.54	6.45	4.61	52.98	ppb
Silver	107-1	0.99	0.96	0.98	0.98	1.98	ppb
Silver	109-1	0.98	0.91	1.00	0.96	4.97	ppb
Sodium	23-2	420.94	428.51	425.13	424.86	0.89	ppb
Strontium	86-1	22.84	22.97	23.00	22.93	0.36	ppb
Strontium	88-1	21.62	22.39	22.21	22.07	1.83	ppb
Sulfur	34-1	60.55	113.69	114.05	96.10	32.03	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.84	0.84	0.83	0.84	0.67	ppb
Thallium	205-1	0.83	0.83	0.83	0.83	0.53	ppb
Tin	118-1	4.63	4.73	4.51	4.62	2.39	ppb
Titanium	47-1	4.29	4.41	4.55	4.42	3.00	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.81	0.81	0.81	0.81	0.18	ppb
Vanadium	51-2	4.39	4.48	4.53	4.46	1.60	ppb
Yttrium	89-1				99		%
Yttrium	89-2				102		%
Zinc	66-2	3.80	4.36	4.15	4.10	6.92	ppb
Zirconium	90-1	0.91	0.91	0.92	0.91	0.65	ppb
Zirconium	91-1	0.92	0.92	1.00	0.95	4.77	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	876.32	901.05	877.51	884.96	1.58	ppb
Antimony	121-1	48.10	47.90	47.54	47.85	0.59	ppb
Arsenic	75-2	53.74	51.57	51.95	52.42	2.21	ppb
Barium	135-1	236.09	231.38	232.72	233.39	1.04	ppb
Barium	137-1	232.48	234.24	230.32	232.35	0.85	ppb
Beryllium	9-1	47.25	46.94	47.29	47.16	0.40	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	56.44	57.20	55.56	56.40	1.45	ppb
Cadmium	106-1	55.54	55.19	54.69	55.14	0.78	ppb
Cadmium	111-1	51.45	51.83	51.29	51.52	0.54	ppb
Calcium	43-1	4721.53	4718.66	4794.73	4744.97	0.91	ppb
Calcium	44-1	5129.82	5065.65	5150.31	5115.26	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46.21	46.38	45.62	46.07	0.86	ppb
Cobalt	59-2	46.47	46.95	46.00	46.48	1.02	ppb
Copper	63-2	522.11	521.38	525.45	522.98	0.41	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				100		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	2732.21	2785.36	2724.83	2747.47	1.20	ppb
Iron	57-2	2555.23	2605.38	2545.17	2568.59	1.26	ppb
Iron	54-2	2592.69	2640.55	2550.15	2594.46	1.74	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	222.45	218.87	223.49	221.60	1.09	ppb
Lead	207-1	217.40	213.37	218.05	216.27	1.17	ppb
Lead	208-1	237.49	229.29	235.25	234.01	1.81	ppb
Lithium	6-1				101		%
Magnesium	24-2	5178.10	5136.04	5080.51	5131.55	0.95	ppb
Manganese	55-2	507.88	512.19	506.63	508.90	0.57	ppb
Molybdenum	94-1	447.98	456.26	449.37	451.20	0.98	ppb
Molybdenum	95-1	490.77	501.21	497.56	496.52	1.07	ppb
Molybdenum	96-1	506.54	505.22	501.58	504.45	0.51	ppb
Molybdenum	97-1	454.56	461.98	452.34	456.29	1.11	ppb
Molybdenum	98-1	496.10	508.57	504.89	503.19	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.03	53.48	52.44	52.65	1.42	ppb
Phosphorus	31-2	958.74	938.71	918.52	938.65	2.14	ppb
Potassium	39-2	2373.91	2403.92	2374.11	2383.98	0.72	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	52.95	54.51	53.28	53.58	1.54	ppb
Selenium	77-2	61.16	51.02	53.80	55.33	9.47	ppb
Selenium	78-2	53.23	55.69	54.04	54.32	2.31	ppb
Silicon	28-1	56.91	56.63	56.57	56.71	0.32	ppb
Silver	107-1	50.18	50.12	49.50	49.93	0.75	ppb
Silver	109-1	49.69	49.72	49.05	49.49	0.77	ppb
Sodium	23-2	5153.15	5186.84	5065.36	5135.12	1.22	ppb
Strontium	86-1	1162.53	1169.35	1155.70	1162.53	0.59	ppb
Strontium	88-1	1127.30	1157.45	1132.29	1139.01	1.42	ppb
Sulfur	34-1	1052.63	1019.76	1223.86	1098.75	9.97	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	43.83	43.22	44.49	43.85	1.45	ppb
Thallium	205-1	43.83	43.40	44.01	43.75	0.71	ppb
Tin	118-1	47.82	47.98	47.55	47.78	0.46	ppb
Titanium	47-1	452.70	455.47	456.70	454.96	0.45	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	41.97	40.85	42.08	41.63	1.63	ppb
Vanadium	51-2	45.51	45.82	44.97	45.43	0.94	ppb
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	479.98	487.61	483.26	483.62	0.79	ppb
Zirconium	90-1	44.90	45.81	45.07	45.26	1.07	ppb
Zirconium	91-1	45.99	46.79	45.92	46.23	1.05	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2179.40	2151.29	2174.80	2168.50	0.70	ppb
Antimony	121-1	116.82	119.74	117.70	118.09	1.27	ppb
Arsenic	75-2	130.77	130.56	130.15	130.49	0.24	ppb
Barium	135-1	567.33	577.88	572.08	572.43	0.92	ppb
Barium	137-1	644.45	654.36	631.58	643.47	1.78	ppb
Beryllium	9-1	116.72	116.21	117.02	116.65	0.35	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	137.06	134.77	130.65	134.16	2.42	ppb
Cadmium	106-1	135.23	138.44	136.73	136.80	1.17	ppb
Cadmium	111-1	125.55	129.06	126.84	127.15	1.40	ppb
Calcium	43-1	11838.69	11871.15	11595.20	11768.35	1.28	ppb
Calcium	44-1	12604.68	12667.56	12495.63	12589.29	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	116.31	114.87	116.36	115.84	0.73	ppb
Cobalt	59-2	117.25	114.18	117.43	116.29	1.57	ppb
Copper	63-2	1311.13	1308.04	1302.08	1307.08	0.35	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				99		%
Holmium	165-2				100		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	56-2	6889.41	6812.27	6884.73	6862.14	0.63	ppb
Iron	57-2	6361.97	6354.89	6442.28	6386.38	0.76	ppb
Iron	54-2	6451.18	6373.31	6391.20	6405.23	0.64	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	625.16	626.65	645.78	632.53	1.82	ppb
Lead	207-1	624.99	630.69	637.93	631.20	1.03	ppb
Lead	208-1	620.63	624.84	637.64	627.70	1.41	ppb
Lithium	6-1				103		%
Magnesium	24-2	13161.81	12943.94	13018.92	13041.56	0.85	ppb
Manganese	55-2	1303.71	1288.90	1290.21	1294.28	0.63	ppb
Molybdenum	94-1	1265.36	1292.11	1251.81	1269.76	1.62	ppb
Molybdenum	95-1	1278.18	1287.58	1270.15	1278.64	0.68	ppb
Molybdenum	96-1	1288.39	1275.22	1296.00	1286.54	0.82	ppb
Molybdenum	97-1	1290.67	1271.01	1267.03	1276.23	0.99	ppb
Molybdenum	98-1	1261.45	1288.49	1250.34	1266.76	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	130.44	132.20	131.04	131.23	0.68	ppb
Phosphorus	31-2	2493.99	2478.49	2568.07	2513.52	1.90	ppb
Potassium	39-2	6373.22	6243.39	6420.09	6345.57	1.44	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	132.74	135.23	135.22	134.40	1.07	ppb
Selenium	77-2	139.59	133.00	122.71	131.77	6.46	ppb
Selenium	78-2	136.85	128.70	128.67	131.40	3.59	ppb
Silicon	28-1	130.38	133.19	127.40	130.32	2.22	ppb
Silver	107-1	121.97	122.43	121.11	121.84	0.55	ppb
Silver	109-1	119.77	122.55	120.54	120.95	1.19	ppb
Sodium	23-2	12936.96	12898.07	12913.26	12916.09	0.15	ppb
Strontium	86-1	2932.97	2962.07	2949.21	2948.08	0.49	ppb
Strontium	88-1	3138.29	3204.68	3228.33	3190.43	1.46	ppb
Sulfur	34-1	2793.65	2777.70	2672.41	2747.92	2.40	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	108.20	109.59	112.17	109.99	1.83	ppb
Thallium	205-1	122.27	124.98	128.82	125.35	2.63	ppb
Tin	118-1	116.47	119.45	117.41	117.78	1.30	ppb
Titanium	47-1	1137.51	1130.71	1105.15	1124.46	1.52	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	123.66	123.28	124.18	123.71	0.37	ppb
Vanadium	51-2	114.50	113.21	115.40	114.37	0.96	ppb
Yttrium	89-1				96		%
Yttrium	89-2				96		%
Zinc	66-2	1212.82	1211.72	1210.45	1211.67	0.10	ppb
Zirconium	90-1	125.54	127.57	127.74	126.95	0.96	ppb
Zirconium	91-1	116.50	117.68	118.05	117.41	0.69	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4320.61	4273.60	4310.59	4301.60	0.58	ppb
Antimony	121-1	253.46	228.94	234.26	238.89	5.40	ppb
Arsenic	75-2	258.40	254.24	251.25	254.63	1.41	ppb
Barium	135-1	1254.00	1276.19	1319.03	1283.07	2.58	ppb
Barium	137-1	1278.52	1281.91	1296.17	1285.53	0.73	ppb
Beryllium	9-1	230.64	233.90	230.63	231.72	0.81	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	265.10	261.27	264.59	263.65	0.79	ppb
Cadmium	106-1	257.25	264.21	270.29	263.92	2.47	ppb
Cadmium	111-1	244.20	244.71	251.45	246.79	1.64	ppb
Calcium	43-1	23645.49	23930.26	23686.02	23753.92	0.65	ppb
Calcium	44-1	25397.69	24755.25	24899.84	25017.59	1.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	230.49	231.45	229.80	230.58	0.36	ppb
Cobalt	59-2	230.25	231.55	232.19	231.33	0.43	ppb
Copper	63-2	2537.56	2563.67	2611.21	2570.81	1.45	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				101		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	56-2	13719.87	13680.04	13817.83	13739.25	0.52	ppb
Iron	57-2	12789.11	12758.90	12838.63	12795.55	0.31	ppb
Iron	54-2	13616.50	13729.26	13893.87	13746.55	1.01	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1228.45	1233.06	1259.31	1240.27	1.34	ppb
Lead	207-1	1247.09	1244.16	1267.48	1252.91	1.01	ppb
Lead	208-1	1241.35	1246.78	1254.28	1247.47	0.52	ppb
Lithium	6-1				103		%
Magnesium	24-2	25561.33	25995.70	26063.58	25873.54	1.05	ppb
Manganese	55-2	2546.92	2554.08	2574.13	2558.38	0.55	ppb
Molybdenum	94-1	2505.50	2466.57	2544.18	2505.42	1.55	ppb
Molybdenum	95-1	2496.24	2494.33	2542.45	2511.01	1.09	ppb
Molybdenum	96-1	2500.11	2520.06	2539.74	2519.97	0.79	ppb
Molybdenum	97-1	2561.43	2524.84	2522.91	2536.40	0.86	ppb
Molybdenum	98-1	2513.03	2533.22	2508.66	2518.31	0.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	261.28	260.23	261.69	261.06	0.29	ppb
Phosphorus	31-2	5028.72	5040.63	5053.78	5041.04	0.25	ppb
Potassium	39-2	12712.75	12450.75	12667.09	12610.20	1.11	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				92		%
Scandium	45-2				95		%
Selenium	82-1	262.65	261.91	262.34	262.30	0.14	ppb
Selenium	77-2	267.86	251.92	261.07	260.28	3.07	ppb
Selenium	78-2	261.31	267.74	250.53	259.86	3.35	ppb
Silicon	28-1	259.22	261.37	262.36	260.98	0.61	ppb
Silver	107-1	259.16	256.82	262.74	259.57	1.15	ppb
Silver	109-1	256.39	254.23	266.01	258.88	2.42	ppb
Sodium	23-2	26113.27	26122.59	25989.16	26075.00	0.29	ppb
Strontium	86-1	5718.83	5798.96	5765.94	5761.24	0.70	ppb
Strontium	88-1	6224.32	6188.64	6305.70	6239.55	0.96	ppb
Sulfur	34-1	5313.55	5226.15	5230.94	5256.88	0.93	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	217.75	219.95	221.91	219.87	0.94	ppb
Thallium	205-1	247.17	248.88	255.41	250.49	1.74	ppb
Tin	118-1	227.53	228.48	233.06	229.69	1.29	ppb
Titanium	47-1	2542.55	2508.14	2484.72	2511.80	1.16	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	249.10	248.03	244.55	247.23	0.96	ppb
Vanadium	51-2	230.89	228.84	229.44	229.72	0.46	ppb
Yttrium	89-1				94		%
Yttrium	89-2				95		%
Zinc	66-2	2654.51	2677.79	2675.09	2669.13	0.48	ppb
Zirconium	90-1	249.23	249.29	249.81	249.44	0.13	ppb
Zirconium	91-1	230.12	231.37	233.04	231.51	0.63	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9535.29	9628.47	9741.47	9635.08	1.07	ppb
Antimony	121-1	491.35	504.47	499.19	498.34	1.32	ppb
Arsenic	75-2	492.94	502.16	511.41	502.17	1.84	ppb
Barium	135-1	2465.14	2494.76	2509.10	2489.67	0.90	ppb
Barium	137-1	2480.45	2482.43	2443.06	2468.64	0.90	ppb
Beryllium	9-1	440.35	450.62	443.29	444.75	1.19	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	494.73	501.52	505.43	500.56	1.08	ppb
Cadmium	106-1	495.76	507.62	499.62	501.00	1.21	ppb
Cadmium	111-1	465.54	471.62	467.26	468.14	0.67	ppb
Calcium	43-1	46265.02	46773.96	47770.40	46936.46	1.63	ppb
Calcium	44-1	49188.88	50486.61	50660.51	50112.00	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	506.17	499.51	520.98	508.88	2.16	ppb
Cobalt	59-2	511.77	519.55	518.62	516.64	0.82	ppb
Copper	63-2	4945.01	5178.53	5111.07	5078.20	2.37	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				101		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	56-2	27114.16	27194.17	27231.63	27179.99	0.22	ppb
Iron	57-2	27303.06	27476.41	26870.67	27216.71	1.15	ppb
Iron	54-2	26343.96	26905.70	27163.36	26804.34	1.56	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2407.86	2520.66	2502.32	2476.94	2.44	ppb
Lead	207-1	2427.64	2541.93	2553.31	2507.63	2.77	ppb
Lead	208-1	2432.50	2518.84	2518.00	2489.78	1.99	ppb
Lithium	6-1				103		%
Magnesium	24-2	49886.77	50478.48	51859.00	50741.42	1.99	ppb
Manganese	55-2	5019.24	5035.67	5081.49	5045.47	0.64	ppb
Molybdenum	94-1	4897.13	5033.95	5139.19	5023.43	2.42	ppb
Molybdenum	95-1	4923.65	5002.56	5066.65	4997.62	1.43	ppb
Molybdenum	96-1	4965.72	5005.35	5038.15	5003.07	0.72	ppb
Molybdenum	97-1	4950.11	5035.50	5078.56	5021.39	1.30	ppb
Molybdenum	98-1	4923.70	5026.20	5064.90	5004.93	1.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	502.81	516.64	515.18	511.54	1.48	ppb
Phosphorus	31-2	9972.30	10296.40	10265.85	10178.18	1.76	ppb
Potassium	39-2	25157.05	24865.00	25263.58	25095.21	0.82	ppb
Rhodium	103-1				93		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	509.22	514.13	521.52	514.96	1.20	ppb
Selenium	77-2	503.05	494.09	527.72	508.28	3.43	ppb
Selenium	78-2	501.31	517.68	516.02	511.67	1.76	ppb
Silicon	28-1	488.46	509.92	525.35	507.91	3.65	ppb
Silver	107-1	492.52	497.66	497.16	495.78	0.57	ppb
Silver	109-1	495.00	492.44	499.38	495.61	0.71	ppb
Sodium	23-2	50877.55	50321.24	52022.14	51073.65	1.70	ppb
Strontium	86-1	11205.50	11604.80	11658.54	11489.61	2.15	ppb
Strontium	88-1	12199.84	12452.57	12620.77	12424.39	1.71	ppb
Sulfur	34-1	9912.91	9987.89	9980.40	9960.40	0.41	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	491.40	510.26	511.38	504.35	2.23	ppb
Thallium	205-1	492.75	507.04	495.45	498.41	1.52	ppb
Tin	118-1	490.97	507.20	503.72	500.63	1.71	ppb
Titanium	47-1	4882.81	5025.33	5103.30	5003.81	2.23	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	494.14	510.18	505.36	503.23	1.63	ppb
Vanadium	51-2	496.68	509.36	503.61	503.21	1.26	ppb
Yttrium	89-1				94		%
Yttrium	89-2				96		%
Zinc	66-2	5100.33	5223.57	5257.21	5193.70	1.59	ppb
Zirconium	90-1	488.91	503.28	504.90	499.03	1.76	ppb
Zirconium	91-1	456.60	465.30	467.60	463.17	1.25	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19219.07	19266.30	18519.02	19001.46	2.20	ppb
Antimony	121-1	1013.09	1010.15	990.50	1004.58	1.22	ppb
Arsenic	75-2	1012.90	993.47	984.48	996.95	1.46	ppb
Barium	135-1	5076.10	5041.21	4895.59	5004.30	1.91	ppb
Barium	137-1	5069.37	5128.63	4818.11	5005.37	3.29	ppb
Beryllium	9-1	1043.85	1029.16	1027.13	1033.38	0.88	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1013.07	990.80	980.65	994.84	1.67	ppb
Cadmium	106-1	1007.02	995.02	980.82	994.29	1.32	ppb
Cadmium	111-1	1024.40	1031.91	992.85	1016.39	2.04	ppb
Calcium	43-1	99279.97	105143.68	99956.26	101459.97	3.16	ppb
Calcium	44-1	99035.46	101653.07	100188.57	100292.37	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	997.95	1015.37	991.94	1001.75	1.21	ppb
Cobalt	59-2	1000.52	1000.37	991.95	997.61	0.49	ppb
Copper	63-2	9893.77	10046.65	9864.31	9934.91	0.99	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				100		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	56-2	54342.27	53169.41	52375.69	53295.79	1.86	ppb
Iron	57-2	52477.71	53363.44	53166.89	53002.68	0.88	ppb
Iron	54-2	53034.15	54261.03	52813.41	53369.53	1.46	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4982.28	5016.03	5045.00	5014.44	0.63	ppb
Lead	207-1	4998.98	4930.73	5059.40	4996.37	1.29	ppb
Lead	208-1	4985.39	4968.43	5064.79	5006.20	1.03	ppb
Lithium	6-1				101		%
Magnesium	24-2	101131.63	100592.87	99181.94	100302.15	1.00	ppb
Manganese	55-2	9998.95	9963.65	9907.48	9956.69	0.46	ppb
Molybdenum	94-1	9970.13	10038.06	9952.52	9986.90	0.45	ppb
Molybdenum	95-1	10018.25	10110.63	9856.22	9995.03	1.29	ppb
Molybdenum	96-1	10020.76	10071.39	9873.90	9988.68	1.03	ppb
Molybdenum	97-1	9946.34	10035.69	9955.30	9979.11	0.49	ppb
Molybdenum	98-1	9869.59	10035.46	10067.07	9990.70	1.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	992.07	1001.83	977.75	990.55	1.22	ppb
Phosphorus	31-2	19913.49	19847.08	19945.50	19902.03	0.25	ppb
Potassium	39-2	50198.99	49902.04	49023.26	49708.10	1.23	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	978.75	989.91	995.62	988.09	0.87	ppb
Selenium	77-2	997.07	983.91	995.55	992.18	0.73	ppb
Selenium	78-2	997.74	999.67	974.64	990.68	1.41	ppb
Silicon	28-1	974.74	1007.84	994.49	992.35	1.68	ppb
Silver	107-1	1017.24	1005.68	977.43	1000.12	2.05	ppb
Silver	109-1	1012.01	1017.16	972.36	1000.51	2.45	ppb
Sodium	23-2	102345.02	99436.32	99426.26	100402.53	1.68	ppb
Strontium	86-1	25364.68	25816.00	25780.93	25653.87	0.98	ppb
Strontium	88-1	24845.35	25380.29	24887.71	25037.78	1.19	ppb
Sulfur	34-1	19820.16	20243.73	19695.07	19919.65	1.44	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	1005.33	1001.45	1015.86	1007.54	0.74	ppb
Thallium	205-1	1012.05	981.88	1008.89	1000.94	1.66	ppb
Tin	118-1	1015.30	1025.12	976.91	1005.78	2.53	ppb
Titanium	47-1	9900.25	10231.78	9907.24	10013.09	1.89	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	995.72	1005.67	997.59	999.66	0.53	ppb
Vanadium	51-2	1001.27	1019.93	993.87	1005.02	1.34	ppb
Yttrium	89-1				96		%
Yttrium	89-2				95		%
Zinc	66-2	9935.95	9876.96	9786.52	9866.48	0.76	ppb
Zirconium	90-1	994.37	1006.58	1000.90	1000.62	0.61	ppb
Zirconium	91-1	1033.71	1039.74	999.09	1024.18	2.14	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99715.49	100620.39	100505.79	100280.56	0.49	ppb
Antimony	121-1	0.34	0.34	0.37	0.35	5.15	ppb
Arsenic	75-2	0.51	0.58	0.60	0.56	7.92	ppb
Barium	135-1	1.88	1.86	2.02	1.92	4.32	ppb
Barium	137-1	1.78	1.93	1.84	1.85	4.02	ppb
Beryllium	9-1	0.08	0.08	0.11	0.09	16.13	ppb
Bismuth	209-1				90		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.45	0.23	0.26	0.31	37.95	ppb
Cadmium	106-1	1.05	0.23	0.29	0.52	87.86	ppb
Cadmium	111-1	0.16	0.11	0.13	0.13	20.11	ppb
Calcium	43-1	498008.32	495288.96	506995.41	500097.56	1.23	ppb
Calcium	44-1	499333.02	496161.24	504284.08	499926.11	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.07	5.10	4.95	5.04	1.63	ppb
Cobalt	59-2	2.35	2.38	2.36	2.37	0.70	ppb
Copper	63-2	1.82	1.88	1.86	1.85	1.80	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				98		%
Indium	115-1				93		%
Indium	115-2				93		%
Iron	56-2	248341.18	252043.37	246744.76	249043.10	1.09	ppb
Iron	57-2	249987.20	250715.42	246774.14	249158.92	0.84	ppb
Iron	54-2	247458.49	249317.14	250459.89	249078.51	0.61	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.11	2.07	2.06	2.08	1.02	ppb
Lead	207-1	2.06	2.17	2.13	2.12	2.62	ppb
Lead	208-1	2.08	2.07	2.05	2.06	0.77	ppb
Lithium	6-1				98		%
Magnesium	24-2	497594.61	505570.41	496255.88	499806.97	1.01	ppb
Manganese	55-2	4.08	4.42	4.12	4.21	4.43	ppb
Molybdenum	94-1	2.06	2.06	2.03	2.05	0.82	ppb
Molybdenum	95-1	1.15	1.21	1.29	1.22	5.76	ppb
Molybdenum	96-1	5.54	5.41	5.48	5.48	1.18	ppb
Molybdenum	97-1	1.28	1.22	1.22	1.24	2.99	ppb
Molybdenum	98-1	1.12	1.01	1.08	1.07	5.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.90	4.12	3.90	3.98	3.19	ppb
Phosphorus	31-2	-118.21	-118.06	-130.88	-122.38		ppb
Potassium	39-2	250361.51	249625.01	250140.14	250042.22	0.15	ppb
Rhodium	103-1				88		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				100		%
Selenium	82-1	2.06	1.70	1.52	1.76	15.58	ppb
Selenium	77-2	0.32	0.13	0.71	0.39	75.98	ppb
Selenium	78-2	-1.23	-0.74	0.65	-0.44		ppb
Silicon	28-1	6.17	3.90	9.58	6.55	43.67	ppb
Silver	107-1	0.05	0.05	0.04	0.05	9.46	ppb
Silver	109-1	0.05	0.05	0.05	0.05	2.16	ppb
Sodium	23-2	498681.30	498684.69	501874.11	499746.70	0.37	ppb
Strontium	86-1	78.94	78.16	80.75	79.28	1.68	ppb
Strontium	88-1	75.64	75.62	75.56	75.61	0.06	ppb
Sulfur	34-1	-36.21	203.99	504.75	224.18	120.91	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.08	0.06	0.04	0.06	36.06	ppb
Thallium	205-1	0.07	0.05	0.06	0.06	13.49	ppb
Tin	118-1	0.08	0.08	0.11	0.09	15.76	ppb
Titanium	47-1	0.35	0.43	0.44	0.41	12.88	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.02	0.03	18.98	ppb
Vanadium	51-2	0.19	0.24	0.23	0.22	11.78	ppb
Yttrium	89-1				95		%
Yttrium	89-2				98		%
Zinc	66-2	14.45	14.77	14.36	14.53	1.50	ppb
Zirconium	90-1	0.41	0.41	0.39	0.40	2.73	ppb
Zirconium	91-1	0.38	0.40	0.40	0.39	2.93	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	488.92	491.05	499.50	493.16	1.13	ppb
Antimony	121-1	193.04	196.20	194.99	194.74	0.82	ppb
Arsenic	75-2	216.62	213.48	214.54	214.88	0.74	ppb
Barium	135-1	96.48	96.22	96.68	96.46	0.24	ppb
Barium	137-1	96.68	97.33	96.07	96.70	0.65	ppb
Beryllium	9-1	96.37	96.44	97.39	96.73	0.59	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	99.80	104.59	104.63	103.01	2.70	ppb
Cadmium	106-1	98.87	100.36	99.31	99.51	0.77	ppb
Cadmium	111-1	105.40	104.84	106.00	105.41	0.55	ppb
Calcium	43-1	1817.80	1857.29	1864.73	1846.61	1.37	ppb
Calcium	44-1	1863.21	1906.03	1876.81	1882.02	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.92	95.66	96.94	96.51	0.76	ppb
Cobalt	59-2	95.89	96.34	97.66	96.63	0.95	ppb
Copper	63-2	99.45	99.14	99.59	99.39	0.23	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				100		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	56-2	2189.91	2195.89	2226.94	2204.24	0.90	ppb
Iron	57-2	2045.57	2029.89	2053.54	2043.00	0.59	ppb
Iron	54-2	2111.48	2113.45	2129.02	2117.98	0.45	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	183.84	184.87	187.52	185.41	1.02	ppb
Lead	207-1	171.78	174.15	175.10	173.67	0.99	ppb
Lead	208-1	204.73	207.98	207.17	206.63	0.82	ppb
Lithium	6-1				102		%
Magnesium	24-2	1109.49	1117.46	1113.32	1113.42	0.36	ppb
Manganese	55-2	101.09	99.65	101.80	100.85	1.09	ppb
Molybdenum	94-1	0.04	0.02	0.05	0.04	37.22	ppb
Molybdenum	95-1	0.02	0.02	0.03	0.02	18.77	ppb
Molybdenum	96-1	0.05	0.06	0.05	0.05	7.08	ppb
Molybdenum	97-1	0.01	0.03	0.03	0.03	39.18	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	12.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	120.83	119.59	120.93	120.45	0.62	ppb
Phosphorus	31-2	-135.07	-127.16	-124.68	-128.97		ppb
Potassium	39-2	1885.49	1879.82	1901.43	1888.91	0.59	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	219.22	219.71	220.40	219.78	0.27	ppb
Selenium	77-2	223.31	222.80	225.44	223.85	0.63	ppb
Selenium	78-2	223.82	221.42	225.17	223.47	0.85	ppb
Silicon	28-1	-3.08	0.33	-2.27	-1.67		ppb
Silver	107-1	47.39	48.34	47.83	47.86	0.99	ppb
Silver	109-1	47.62	47.96	47.15	47.58	0.86	ppb
Sodium	23-2	1858.35	1867.41	1869.94	1865.23	0.33	ppb
Strontium	86-1	6.18	6.31	5.79	6.09	4.43	ppb
Strontium	88-1	5.59	5.66	5.63	5.63	0.67	ppb
Sulfur	34-1	-264.96	-172.61	-162.91	-200.16		ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	176.52	180.15	181.67	179.45	1.48	ppb
Thallium	205-1	207.03	207.04	207.23	207.10	0.06	ppb
Tin	118-1	0.02	0.02	-0.02	0.01	347.13	ppb
Titanium	47-1	0.03	0.02	0.02	0.02	29.63	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	273.30	ppb
Vanadium	51-2	92.98	93.29	94.14	93.47	0.64	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	187.55	183.20	185.29	185.35	1.17	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	131.32	ppb
Zirconium	91-1	0.05	0.04	0.08	0.06	32.44	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.07	17.78	18.12	17.99	1.02	ppb
Antimony	121-1	1.88	1.95	1.90	1.91	1.76	ppb
Arsenic	75-2	1.25	1.10	1.13	1.16	6.61	ppb
Barium	135-1	9.07	8.90	9.25	9.08	1.93	ppb
Barium	137-1	9.20	9.09	9.32	9.20	1.24	ppb
Beryllium	9-1	1.06	1.03	1.02	1.03	2.00	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.90	0.81	1.06	0.92	13.25	ppb
Cadmium	106-1	1.93	1.68	1.72	1.78	7.55	ppb
Cadmium	111-1	1.00	0.99	0.98	0.99	0.92	ppb
Calcium	43-1	455.86	440.96	449.87	448.90	1.67	ppb
Calcium	44-1	446.50	452.16	454.54	451.07	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.94	1.78	1.83	1.85	4.44	ppb
Cobalt	59-2	0.98	0.97	0.96	0.97	1.04	ppb
Copper	63-2	1.77	1.72	1.81	1.77	2.52	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				100		%
Indium	115-1				101		%
Indium	115-2				103		%
Iron	56-2	50.96	50.16	50.96	50.69	0.91	ppb
Iron	57-2	52.23	53.82	57.09	54.38	4.56	ppb
Iron	54-2	51.26	51.96	53.42	52.21	2.11	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.77	0.75	0.79	0.77	2.39	ppb
Lead	207-1	0.77	0.79	0.79	0.78	1.45	ppb
Lead	208-1	0.81	0.82	0.82	0.82	0.48	ppb
Lithium	6-1				101		%
Magnesium	24-2	444.42	433.92	445.27	441.20	1.43	ppb
Manganese	55-2	0.79	0.83	0.81	0.81	2.58	ppb
Molybdenum	94-1	5.33	5.34	5.41	5.36	0.74	ppb
Molybdenum	95-1	4.44	4.49	4.37	4.43	1.37	ppb
Molybdenum	96-1	4.59	4.55	4.47	4.54	1.29	ppb
Molybdenum	97-1	4.39	4.37	4.39	4.38	0.37	ppb
Molybdenum	98-1	4.47	4.55	4.39	4.47	1.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.89	0.91	0.87	0.89	2.30	ppb
Phosphorus	31-2	122.26	133.39	134.99	130.22	5.32	ppb
Potassium	39-2	461.49	456.19	472.32	463.34	1.77	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	4.82	5.02	5.43	5.09	6.08	ppb
Selenium	77-2	3.87	5.70	3.79	4.45	24.29	ppb
Selenium	78-2	3.80	5.76	4.71	4.76	20.57	ppb
Silicon	28-1	-3.18	-0.87	0.69	-1.12		ppb
Silver	107-1	0.96	1.00	1.01	0.99	2.45	ppb
Silver	109-1	0.98	1.00	1.04	1.01	2.70	ppb
Sodium	23-2	438.83	437.63	442.90	439.79	0.63	ppb
Strontium	86-1	23.39	22.00	23.15	22.85	3.25	ppb
Strontium	88-1	23.11	23.41	23.14	23.22	0.72	ppb
Sulfur	34-1	28.00	116.59	108.67	84.42	58.07	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.83	0.90	0.86	0.86	4.21	ppb
Thallium	205-1	0.86	0.89	0.85	0.87	2.46	ppb
Tin	118-1	4.77	4.70	4.74	4.73	0.78	ppb
Titanium	47-1	4.48	4.69	4.28	4.48	4.52	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.82	0.81	0.84	0.82	1.57	ppb
Vanadium	51-2	4.49	4.50	4.51	4.50	0.33	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	4.22	4.12	4.55	4.30	5.26	ppb
Zirconium	90-1	0.96	0.95	0.95	0.95	0.59	ppb
Zirconium	91-1	0.97	1.03	0.93	0.98	5.06	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.15	5.87	6.74	6.25	7.14	ppb
Antimony	121-1	0.00	0.01	0.00	0.00	39.27	ppb
Arsenic	75-2	-0.05	-0.03	-0.08	-0.05		ppb
Barium	135-1	0.01	0.01	0.01	0.01	32.68	ppb
Barium	137-1	0.01	0.00	0.01	0.01	119.93	ppb
Beryllium	9-1	0.02	0.03	0.00	0.02	107.58	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.07	-0.02	0.01	445.95	ppb
Cadmium	106-1	0.31	0.69	0.29	0.43	52.28	ppb
Cadmium	111-1	0.01	0.05	0.03	0.03	57.73	ppb
Calcium	43-1	-2.65	-4.59	-2.02	-3.09		ppb
Calcium	44-1	-1.56	-1.46	-1.24	-1.42		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	-0.02	0.01	0.00	1226.62	ppb
Cobalt	59-2	-0.01	0.00	0.00	-0.01		ppb
Copper	63-2	0.01	-0.01	-0.03	-0.01		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				99		%
Holmium	165-2				97		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	0.93	1.22	1.06	1.07	13.22	ppb
Iron	57-2	-0.02	2.03	1.45	1.15	91.74	ppb
Iron	54-2	3.63	1.50	2.63	2.59	41.18	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.03	0.01	0.02	42.52	ppb
Lead	207-1	0.02	0.01	0.00	0.01	71.46	ppb
Lead	208-1	0.01	0.01	0.00	0.01	48.90	ppb
Lithium	6-1				99		%
Magnesium	24-2	0.14	0.20	0.13	0.16	25.58	ppb
Manganese	55-2	-0.04	0.01	-0.05	-0.03		ppb
Molybdenum	94-1	0.01	0.01	0.01	0.01	20.93	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.00	38.80	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	254.56	ppb
Molybdenum	97-1	-0.01	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	-0.01	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.07	0.02	0.04	0.05	49.71	ppb
Phosphorus	31-2	-129.18	-127.49	-128.31	-128.33		ppb
Potassium	39-2	3.89	7.77	1.31	4.32	75.22	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				97		%
Scandium	45-2				98		%
Selenium	82-1	0.23	0.42	0.13	0.26	55.19	ppb
Selenium	77-2	0.13	-0.25	-0.25	-0.12		ppb
Selenium	78-2	2.32	0.13	0.95	1.13	97.35	ppb
Silicon	28-1	0.89	5.95	8.12	4.99	74.40	ppb
Silver	107-1	0.00	0.00	0.00	0.00	440.26	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	4.06	4.01	4.30	4.12	3.79	ppb
Strontium	86-1	0.94	0.10	1.36	0.80	79.91	ppb
Strontium	88-1	0.11	0.02	0.06	0.06	74.03	ppb
Sulfur	34-1	-234.41	-153.64	-102.04	-163.36		ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	-0.01	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.01	0.04	0.00	0.01	257.75	ppb
Titanium	47-1	0.03	0.00	0.01	0.01	118.29	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.01	0.00	0.01	114.90	ppb
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	0.46	0.46	0.54	0.49	9.03	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	290.32	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	244.17	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88958.76	88387.09	88374.37	88573.40	0.38	ppb
Antimony	121-1	0.99	0.98	1.05	1.01	3.50	ppb
Arsenic	75-2	0.52	0.57	0.50	0.53	6.59	ppb
Barium	135-1	1.38	1.27	1.28	1.31	4.98	ppb
Barium	137-1	1.23	1.27	1.24	1.24	1.54	ppb
Beryllium	9-1	0.31	0.28	0.23	0.27	15.11	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.18	6.29	7.01	6.83	6.92	ppb
Cadmium	106-1	0.05	0.16	-1.34	-0.38		ppb
Cadmium	111-1	0.30	0.26	0.15	0.24	31.95	ppb
Calcium	43-1	98858.84	98134.43	96660.67	97884.64	1.14	ppb
Calcium	44-1	97619.30	96685.46	97991.50	97432.09	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.18	17.93	17.93	18.01	0.81	ppb
Cobalt	59-2	1.11	1.11	1.13	1.12	1.32	ppb
Copper	63-2	9.99	10.06	10.12	10.06	0.67	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				98		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	56-2	107429.09	105447.93	103328.84	105401.95	1.95	ppb
Iron	57-2	104447.87	100959.17	104029.46	103145.50	1.85	ppb
Iron	54-2	105262.67	102323.72	104002.07	103862.82	1.42	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.25	4.04	4.28	4.19	3.19	ppb
Lead	207-1	3.75	3.63	3.68	3.69	1.63	ppb
Lead	208-1	3.86	3.74	3.88	3.83	1.96	ppb
Lithium	6-1				97		%
Magnesium	24-2	94126.40	93262.58	92626.28	93338.42	0.81	ppb
Manganese	55-2	6.49	6.31	6.38	6.39	1.37	ppb
Molybdenum	94-1	1583.83	1549.73	1601.74	1578.43	1.67	ppb
Molybdenum	95-1	1894.66	1917.05	1939.98	1917.23	1.18	ppb
Molybdenum	96-1	1877.98	1869.02	1907.64	1884.88	1.07	ppb
Molybdenum	97-1	1931.04	1910.17	1958.16	1933.12	1.24	ppb
Molybdenum	98-1	1894.79	1901.73	1945.32	1913.95	1.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.46	5.38	5.08	5.31	3.87	ppb
Phosphorus	31-2	101498.31	99578.24	99879.25	100318.60	1.03	ppb
Potassium	39-2	97628.79	96249.00	97253.46	97043.75	0.74	ppb
Rhodium	103-1				92		%
Rhodium	103-2				94		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	0.99	1.30	0.62	0.97	34.82	ppb
Selenium	77-2	-0.06	0.14	0.34	0.14	140.87	ppb
Selenium	78-2	0.79	-0.16	-1.18	-0.18		ppb
Silicon	28-1	5.37	2.14	2.78	3.43	49.83	ppb
Silver	107-1	0.01	0.02	0.03	0.02	43.88	ppb
Silver	109-1	0.02	0.02	0.03	0.02	22.82	ppb
Sodium	23-2	100713.40	99210.66	99202.94	99709.00	0.87	ppb
Strontium	86-1	765.23	774.15	780.37	773.25	0.98	ppb
Strontium	88-1	744.41	751.42	767.45	754.43	1.57	ppb
Sulfur	34-1	115702.21	114886.41	114458.61	115015.75	0.55	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.07	0.10	0.13	0.10	28.11	ppb
Thallium	205-1	0.07	0.10	0.13	0.10	31.18	ppb
Tin	118-1	0.36	0.40	0.37	0.38	4.81	ppb
Titanium	47-1	2007.71	1974.93	1951.51	1978.05	1.43	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	14.49	ppb
Vanadium	51-2	0.17	0.20	0.18	0.18	8.10	ppb
Yttrium	89-1				96		%
Yttrium	89-2				96		%
Zinc	66-2	9.12	8.74	9.12	8.99	2.47	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	41.86	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	6.26	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90915.61	91186.31	92620.54	91574.15	1.00	ppb
Antimony	121-1	18.21	19.84	19.72	19.26	4.71	ppb
Arsenic	75-2	19.72	20.91	20.71	20.45	3.11	ppb
Barium	135-1	18.24	20.00	20.12	19.45	5.40	ppb
Barium	137-1	18.38	19.55	20.15	19.36	4.65	ppb
Beryllium	9-1	17.53	19.22	18.84	18.53	4.80	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.84	24.67	25.44	24.65	3.23	ppb
Cadmium	106-1	16.94	17.34	18.13	17.47	3.45	ppb
Cadmium	111-1	17.77	19.35	19.84	18.99	5.69	ppb
Calcium	43-1	89891.90	96189.60	101569.14	95883.55	6.10	ppb
Calcium	44-1	89323.72	97163.67	100911.17	95799.52	6.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.14	37.34	37.21	37.23	0.26	ppb
Cobalt	59-2	19.59	19.82	20.22	19.88	1.61	ppb
Copper	63-2	27.38	27.59	28.37	27.78	1.88	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				105		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	107316.00	106935.23	108063.23	107438.15	0.53	ppb
Iron	57-2	105822.22	108041.46	106393.22	106752.30	1.08	ppb
Iron	54-2	106520.09	106572.11	107727.64	106939.95	0.64	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	20.76	22.52	23.18	22.15	5.64	ppb
Lead	207-1	20.13	20.85	21.81	20.93	4.05	ppb
Lead	208-1	21.13	22.45	23.36	22.31	5.03	ppb
Lithium	6-1				101		%
Magnesium	24-2	93220.88	94867.71	94398.48	94162.36	0.90	ppb
Manganese	55-2	24.69	24.52	24.74	24.65	0.47	ppb
Molybdenum	94-1	1472.03	1604.78	1618.11	1564.97	5.16	ppb
Molybdenum	95-1	1831.24	1967.32	1983.50	1927.35	4.34	ppb
Molybdenum	96-1	1822.77	1946.40	1948.58	1905.92	3.78	ppb
Molybdenum	97-1	1851.17	1978.92	1982.90	1937.66	3.87	ppb
Molybdenum	98-1	1809.53	1957.54	1958.63	1908.56	4.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.89	26.22	26.20	26.10	0.70	ppb
Phosphorus	31-2	102084.23	103292.89	103362.62	102913.25	0.70	ppb
Potassium	39-2	99896.53	99598.07	100896.61	100130.41	0.68	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	19.69	20.71	21.31	20.57	3.96	ppb
Selenium	77-2	23.19	16.76	21.26	20.40	16.19	ppb
Selenium	78-2	18.90	20.47	19.59	19.65	4.01	ppb
Silicon	28-1	-11.71	-7.56	-0.29	-6.52		ppb
Silver	107-1	16.10	17.59	17.48	17.06	4.89	ppb
Silver	109-1	16.07	17.52	17.59	17.06	5.02	ppb
Sodium	23-2	101396.75	100814.25	101957.36	101389.45	0.56	ppb
Strontium	86-1	736.05	802.19	810.87	783.04	5.23	ppb
Strontium	88-1	726.53	779.83	783.58	763.31	4.18	ppb
Sulfur	34-1	104866.11	114802.65	119360.84	113009.87	6.56	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	16.66	17.97	18.88	17.84	6.26	ppb
Thallium	205-1	17.08	17.99	19.22	18.10	5.92	ppb
Tin	118-1	0.14	0.24	0.24	0.21	25.55	ppb
Titanium	47-1	1845.84	1983.29	2004.39	1944.51	4.43	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	8.04	ppb
Vanadium	51-2	18.50	19.07	19.06	18.88	1.73	ppb
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	35.73	36.13	35.97	35.94	0.57	ppb
Zirconium	90-1	0.07	0.07	0.09	0.08	8.63	ppb
Zirconium	91-1	0.09	0.09	0.08	0.09	7.06	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50597.68	49370.75	49399.18	49789.20	1.41	ppb
Antimony	121-1	494.43	500.63	518.13	504.40	2.44	ppb
Arsenic	75-2	485.01	486.39	489.85	487.09	0.51	ppb
Barium	135-1	2550.03	2637.46	2575.50	2587.66	1.74	ppb
Barium	137-1	2554.43	2554.66	2584.57	2564.55	0.68	ppb
Beryllium	9-1	454.37	451.82	452.44	452.88	0.29	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	481.69	495.16	492.01	489.62	1.44	ppb
Cadmium	106-1	487.58	493.26	490.57	490.47	0.58	ppb
Cadmium	111-1	450.59	458.97	459.95	456.50	1.13	ppb
Calcium	43-1	251247.33	247531.95	250141.92	249640.40	0.76	ppb
Calcium	44-1	242054.89	249725.29	244977.80	245585.99	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	505.75	501.56	500.60	502.64	0.55	ppb
Cobalt	59-2	488.12	497.73	485.46	490.44	1.32	ppb
Copper	63-2	5039.67	5074.33	5018.57	5044.19	0.56	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				100		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	56-2	131010.97	132101.99	129034.79	130715.92	1.19	ppb
Iron	57-2	126709.06	130634.12	129290.49	128877.89	1.55	ppb
Iron	54-2	128552.73	129564.10	130293.63	129470.15	0.68	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2532.22	2587.78	2646.02	2588.67	2.20	ppb
Lead	207-1	2546.17	2579.32	2623.88	2583.12	1.51	ppb
Lead	208-1	2553.23	2580.20	2598.14	2577.19	0.88	ppb
Lithium	6-1				98		%
Magnesium	24-2	249406.14	247166.30	246190.28	247587.58	0.67	ppb
Manganese	55-2	4956.70	5013.85	4982.57	4984.37	0.57	ppb
Molybdenum	94-1	5020.81	5135.37	5006.38	5054.19	1.40	ppb
Molybdenum	95-1	4989.81	5092.49	5059.93	5047.41	1.04	ppb
Molybdenum	96-1	5084.40	5076.91	5127.36	5096.22	0.53	ppb
Molybdenum	97-1	5155.03	5182.36	5060.86	5132.75	1.24	ppb
Molybdenum	98-1	5141.45	5126.51	5047.11	5105.02	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	507.71	511.02	505.73	508.16	0.53	ppb
Phosphorus	31-2	10048.88	10127.17	10086.56	10087.54	0.39	ppb
Potassium	39-2	123733.81	123949.98	123633.72	123772.50	0.13	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	475.28	482.35	477.04	478.22	0.77	ppb
Selenium	77-2	489.95	478.51	475.16	481.20	1.61	ppb
Selenium	78-2	468.32	493.27	492.61	484.73	2.93	ppb
Silicon	28-1	371.66	372.68	378.24	374.19	0.95	ppb
Silver	107-1	453.25	451.79	465.83	456.96	1.69	ppb
Silver	109-1	453.83	465.40	456.67	458.63	1.32	ppb
Sodium	23-2	246343.20	244612.89	242237.84	244397.97	0.84	ppb
Strontium	86-1	11521.94	11681.81	11545.34	11583.03	0.75	ppb
Strontium	88-1	12366.05	12677.72	12664.67	12569.48	1.40	ppb
Sulfur	34-1	10026.47	9863.62	9819.63	9903.24	1.10	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	516.19	526.18	523.43	521.93	0.99	ppb
Thallium	205-1	525.79	523.82	530.31	526.64	0.63	ppb
Tin	118-1	504.44	510.14	512.84	509.14	0.84	ppb
Titanium	47-1	4997.70	5050.84	5002.98	5017.17	0.58	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	517.39	522.15	535.00	524.85	1.74	ppb
Vanadium	51-2	505.35	499.86	509.01	504.74	0.91	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	4863.35	4964.47	4853.32	4893.71	1.26	ppb
Zirconium	90-1	502.08	507.36	510.01	506.48	0.80	ppb
Zirconium	91-1	464.14	472.48	470.46	469.03	0.93	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.71	6.11	5.22	5.68	7.86	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	1.03	ppb
Arsenic	75-2	-0.01	-0.01	0.09	0.02	285.47	ppb
Barium	135-1	0.04	0.02	0.01	0.03	55.05	ppb
Barium	137-1	0.02	0.02	0.00	0.01	98.46	ppb
Beryllium	9-1	0.08	-0.02	0.01	0.03	198.25	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.10	-0.07	-0.13	-0.10		ppb
Cadmium	106-1	-0.58	-0.99	0.12	-0.48		ppb
Cadmium	111-1	-0.03	-0.06	0.05	-0.01		ppb
Calcium	43-1	-6.52	-4.15	-5.80	-5.49		ppb
Calcium	44-1	-3.66	-2.13	-2.73	-2.84		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.02	0.03	-0.01		ppb
Cobalt	59-2	-0.01	-0.01	0.00	-0.01		ppb
Copper	63-2	0.52	0.62	0.55	0.56	9.10	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				101		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	56-2	0.17	0.35	0.38	0.30	38.02	ppb
Iron	57-2	-3.69	-2.68	0.30	-2.02		ppb
Iron	54-2	0.09	-0.46	0.88	0.17	390.95	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	-0.01	-0.01	0.00		ppb
Lead	207-1	-0.01	0.03	-0.02	0.00		ppb
Lead	208-1	0.01	0.01	0.00	0.01	57.12	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.55	0.73	0.50	0.59	20.19	ppb
Manganese	55-2	0.00	0.04	0.01	0.02	118.17	ppb
Molybdenum	94-1	0.07	0.05	0.08	0.06	23.35	ppb
Molybdenum	95-1	0.05	0.04	0.05	0.05	18.50	ppb
Molybdenum	96-1	0.03	0.02	0.04	0.03	27.35	ppb
Molybdenum	97-1	0.04	0.05	0.05	0.05	13.71	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	5.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.08	0.01	-0.03		ppb
Phosphorus	31-2	-134.56	-130.22	-133.16	-132.65		ppb
Potassium	39-2	3.34	5.42	7.04	5.27	35.24	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	-0.47	-0.04	0.00	-0.17		ppb
Selenium	77-2	-0.06	-0.06	-0.25	-0.12		ppb
Selenium	78-2	-1.94	-0.41	-0.13	-0.83		ppb
Silicon	28-1	-7.50	-4.21	-9.41	-7.04		ppb
Silver	107-1	0.00	0.01	0.01	0.01	43.01	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.68	ppb
Sodium	23-2	10.58	9.61	12.33	10.84	12.69	ppb
Strontium	86-1	0.44	-0.02	-0.12	0.10	304.47	ppb
Strontium	88-1	0.01	0.07	0.06	0.05	63.39	ppb
Sulfur	34-1	-745.98	-562.79	-708.69	-672.49		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.08	0.08	0.06	0.07	14.25	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	3.62	ppb
Tin	118-1	-0.03	-0.01	0.00	-0.01		ppb
Titanium	47-1	0.02	0.03	0.02	0.03	14.44	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	-0.16	-0.14	-0.04	-0.11		ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	50.29	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	39.74	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.17	16.86	18.08	17.70	4.14	ppb
Antimony	121-1	1.97	1.90	1.90	1.92	2.02	ppb
Arsenic	75-2	1.08	1.49	0.93	1.17	25.03	ppb
Barium	135-1	8.85	8.60	9.41	8.96	4.61	ppb
Barium	137-1	9.02	8.83	9.00	8.95	1.14	ppb
Beryllium	9-1	0.90	1.00	1.11	1.00	10.17	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.19	0.59	0.72	0.84	37.91	ppb
Cadmium	106-1	0.93	1.08	0.53	0.85	33.35	ppb
Cadmium	111-1	0.88	0.91	0.92	0.91	2.31	ppb
Calcium	43-1	432.05	462.03	446.42	446.84	3.36	ppb
Calcium	44-1	451.89	463.46	457.27	457.54	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.88	1.75	1.83	1.82	3.66	ppb
Cobalt	59-2	0.93	0.91	0.92	0.92	0.88	ppb
Copper	63-2	2.10	2.05	2.02	2.06	2.09	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				99		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	56-2	50.25	49.98	50.44	50.22	0.47	ppb
Iron	57-2	49.26	56.35	50.70	52.10	7.19	ppb
Iron	54-2	52.22	50.74	49.76	50.91	2.43	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.73	0.70	0.75	0.73	3.30	ppb
Lead	207-1	0.71	0.80	0.70	0.74	7.48	ppb
Lead	208-1	0.80	0.79	0.80	0.79	0.69	ppb
Lithium	6-1				99		%
Magnesium	24-2	442.94	437.32	433.78	438.02	1.05	ppb
Manganese	55-2	0.83	0.81	0.89	0.84	5.35	ppb
Molybdenum	94-1	5.36	5.40	5.38	5.38	0.38	ppb
Molybdenum	95-1	4.37	4.43	4.42	4.41	0.79	ppb
Molybdenum	96-1	4.53	4.54	4.55	4.54	0.19	ppb
Molybdenum	97-1	4.58	4.55	4.36	4.49	2.68	ppb
Molybdenum	98-1	4.40	4.51	4.38	4.43	1.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.84	0.87	0.87	0.86	2.06	ppb
Phosphorus	31-2	134.80	123.16	136.99	131.65	5.65	ppb
Potassium	39-2	457.58	456.87	454.26	456.24	0.38	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	5.58	5.46	5.33	5.46	2.23	ppb
Selenium	77-2	4.93	3.85	6.01	4.93	21.90	ppb
Selenium	78-2	4.86	3.30	5.50	4.55	24.89	ppb
Silicon	28-1	-4.76	-4.40	-4.88	-4.68		ppb
Silver	107-1	1.00	0.95	1.00	0.98	2.46	ppb
Silver	109-1	0.98	0.95	0.96	0.96	1.87	ppb
Sodium	23-2	446.80	442.95	437.95	442.57	1.00	ppb
Strontium	86-1	22.47	23.58	24.19	23.41	3.72	ppb
Strontium	88-1	22.79	22.88	23.00	22.89	0.45	ppb
Sulfur	34-1	-398.78	-338.95	-300.41	-346.05		ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.92	0.90	0.88	0.90	2.52	ppb
Thallium	205-1	0.93	0.91	0.89	0.91	2.48	ppb
Tin	118-1	4.81	4.62	4.79	4.74	2.27	ppb
Titanium	47-1	4.44	4.56	4.65	4.55	2.31	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.85	0.84	0.83	0.84	1.09	ppb
Vanadium	51-2	4.49	4.55	4.40	4.48	1.70	ppb
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	4.39	4.53	4.65	4.52	2.85	ppb
Zirconium	90-1	0.93	0.98	0.95	0.95	2.53	ppb
Zirconium	91-1	0.99	1.02	0.96	0.99	3.27	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.96	2.14	1.60	1.90	14.72	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	217.37	ppb
Arsenic	75-2	-0.08	-0.04	-0.04	-0.05		ppb
Barium	135-1	0.01	0.01	0.01	0.01	13.15	ppb
Barium	137-1	-0.01	0.00	0.01	0.00	1683.01	ppb
Beryllium	9-1	0.02	0.01	0.01	0.01	35.07	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	-0.05	-0.07	-0.05		ppb
Cadmium	106-1	0.28	-0.31	-0.83	-0.29		ppb
Cadmium	111-1	0.03	-0.02	-0.06	-0.02		ppb
Calcium	43-1	-3.91	-3.74	-1.69	-3.11		ppb
Calcium	44-1	-2.95	-2.39	-3.53	-2.96		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.01	0.00	0.00		ppb
Cobalt	59-2	-0.02	-0.01	-0.02	-0.02		ppb
Copper	63-2	0.21	0.19	0.25	0.22	14.53	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				100		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	56-2	-0.60	-0.44	-0.34	-0.46		ppb
Iron	57-2	-3.52	-3.20	-2.60	-3.11		ppb
Iron	54-2	1.48	0.56	0.98	1.01	45.75	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.01	-0.02	-0.02		ppb
Lead	207-1	-0.02	-0.03	-0.04	-0.03		ppb
Lead	208-1	-0.02	-0.02	-0.03	-0.03		ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.14	-0.04	0.01	-0.06		ppb
Manganese	55-2	-0.01	-0.03	0.00	-0.01		ppb
Molybdenum	94-1	0.00	0.01	0.03	0.02	80.53	ppb
Molybdenum	95-1	0.01	0.02	0.01	0.01	29.62	ppb
Molybdenum	96-1	-0.01	0.02	0.02	0.01	166.27	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	15.75	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.01	0.04	0.00	808.71	ppb
Phosphorus	31-2	-132.63	-135.55	-130.69	-132.96		ppb
Potassium	39-2	-3.57	-1.59	-1.26	-2.14		ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				97		%
Scandium	45-2				99		%
Selenium	82-1	-0.09	-0.05	0.05	-0.03		ppb
Selenium	77-2	-0.06	-0.06	0.13	0.00	4812.92	ppb
Selenium	78-2	0.87	0.05	1.53	0.82	90.37	ppb
Silicon	28-1	-5.71	-5.83	-5.78	-5.77		ppb
Silver	107-1	0.00	0.00	0.00	0.00	309.30	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	4.22	4.58	4.94	4.58	7.85	ppb
Strontium	86-1	-0.75	-0.16	-0.24	-0.38		ppb
Strontium	88-1	0.01	0.04	0.03	0.02	63.80	ppb
Sulfur	34-1	-573.70	-481.80	-548.12	-534.54		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.01	0.02	0.02	52.66	ppb
Thallium	205-1	0.01	0.02	0.02	0.01	32.59	ppb
Tin	118-1	-0.01	-0.02	-0.04	-0.03		ppb
Titanium	47-1	0.00	0.00	0.02	0.01	220.26	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.01	0.01	0.01	93.33	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	-0.15	-0.14	-0.17	-0.15		ppb
Zirconium	90-1	0.00	-0.01	0.00	0.00		ppb
Zirconium	91-1	0.01	0.00	0.01	0.00	104.11	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9589.76	9565.63	10041.70	9732.36	2.76	ppb
Antimony	121-1	523.70	513.75	526.10	521.19	1.26	ppb
Arsenic	75-2	494.30	507.17	519.42	506.97	2.48	ppb
Barium	135-1	2558.88	2550.08	2609.97	2572.98	1.26	ppb
Barium	137-1	2536.17	2543.66	2609.79	2563.21	1.58	ppb
Beryllium	9-1	446.78	449.08	452.47	449.44	0.64	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	516.79	521.73	522.39	520.30	0.59	ppb
Cadmium	106-1	519.78	515.99	530.32	522.03	1.42	ppb
Cadmium	111-1	485.41	485.86	495.07	488.78	1.12	ppb
Calcium	43-1	46720.07	47773.20	48486.85	47660.04	1.86	ppb
Calcium	44-1	49670.22	51213.69	51427.32	50770.41	1.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	493.88	521.89	523.95	513.24	3.27	ppb
Cobalt	59-2	498.89	511.71	517.61	509.40	1.88	ppb
Copper	63-2	5026.05	5174.79	5201.92	5134.25	1.84	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				102		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	27185.79	27124.10	27963.29	27424.39	1.71	ppb
Iron	57-2	26578.99	26776.14	28203.65	27186.26	3.26	ppb
Iron	54-2	27209.88	27837.10	28146.12	27731.03	1.72	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2464.69	2498.88	2478.51	2480.69	0.69	ppb
Lead	207-1	2425.05	2553.28	2484.49	2487.61	2.58	ppb
Lead	208-1	2451.43	2531.45	2499.71	2494.20	1.62	ppb
Lithium	6-1				103		%
Magnesium	24-2	49754.28	50883.54	51727.36	50788.40	1.95	ppb
Manganese	55-2	5079.41	5121.97	5131.74	5111.04	0.54	ppb
Molybdenum	94-1	5011.75	5010.57	5060.07	5027.46	0.56	ppb
Molybdenum	95-1	4969.12	5031.47	5049.89	5016.83	0.84	ppb
Molybdenum	96-1	4965.83	4996.83	5060.60	5007.75	0.96	ppb
Molybdenum	97-1	5015.79	5023.10	5069.68	5036.19	0.58	ppb
Molybdenum	98-1	5039.11	4975.16	5093.79	5036.02	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	499.66	518.49	520.61	512.92	2.25	ppb
Phosphorus	31-2	10082.53	10169.22	10465.20	10238.98	1.96	ppb
Potassium	39-2	24654.86	25326.87	25991.06	25324.26	2.64	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	512.64	516.61	524.12	517.79	1.13	ppb
Selenium	77-2	488.47	515.68	507.40	503.85	2.77	ppb
Selenium	78-2	505.70	519.61	517.31	514.20	1.45	ppb
Silicon	28-1	494.91	505.77	514.34	505.01	1.93	ppb
Silver	107-1	509.19	508.06	516.04	511.10	0.85	ppb
Silver	109-1	509.91	509.17	512.07	510.38	0.29	ppb
Sodium	23-2	49806.48	51499.55	51919.12	51075.05	2.19	ppb
Strontium	86-1	11387.07	11531.46	11550.52	11489.68	0.78	ppb
Strontium	88-1	12373.34	12483.60	12681.92	12512.95	1.25	ppb
Sulfur	34-1	9776.29	9947.79	10328.47	10017.52	2.82	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	497.64	517.55	513.55	509.58	2.07	ppb
Thallium	205-1	495.40	513.61	505.88	504.96	1.81	ppb
Tin	118-1	524.28	508.36	517.79	516.81	1.55	ppb
Titanium	47-1	4963.44	5084.43	5230.26	5092.71	2.62	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	491.56	501.32	500.50	497.79	1.09	ppb
Vanadium	51-2	494.18	511.53	528.31	511.34	3.34	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	5093.36	5247.01	5246.42	5195.60	1.70	ppb
Zirconium	90-1	504.46	502.53	492.84	499.95	1.25	ppb
Zirconium	91-1	503.39	518.79	463.41	495.19	5.77	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47.92	52.99	49.44	50.11	5.19	ppb
Antimony	121-1	0.08	0.09	0.09	0.09	6.52	ppb
Arsenic	75-2	0.56	0.56	0.49	0.54	7.81	ppb
Barium	135-1	64.07	61.06	62.06	62.40	2.46	ppb
Barium	137-1	63.64	61.73	62.10	62.49	1.62	ppb
Beryllium	9-1	0.08	0.06	0.14	0.09	46.62	ppb
Bismuth	209-1				112		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	0.00	0.02	0.02	124.38	ppb
Cadmium	106-1	-0.55	0.18	-0.37	-0.25		ppb
Cadmium	111-1	0.04	0.05	0.05	0.04	12.59	ppb
Calcium	43-1	6837.65	6904.35	6862.51	6868.17	0.49	ppb
Calcium	44-1	7272.04	7540.33	7526.75	7446.37	2.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.36	1.33	1.40	1.36	2.34	ppb
Cobalt	59-2	4.56	4.62	4.62	4.60	0.77	ppb
Copper	63-2	2.05	2.01	2.01	2.02	1.12	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				109		%
Holmium	165-2				108		%
Indium	115-1				109		%
Indium	115-2				108		%
Iron	56-2	20601.24	20582.02	20443.15	20542.14	0.42	ppb
Iron	57-2	20282.95	20199.57	20441.32	20307.95	0.60	ppb
Iron	54-2	20537.94	20230.13	20412.10	20393.39	0.76	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.28	0.28	0.28	0.28	1.22	ppb
Lead	207-1	0.27	0.27	0.26	0.27	2.52	ppb
Lead	208-1	0.27	0.25	0.27	0.27	3.50	ppb
Lithium	6-1				109		%
Magnesium	24-2	2779.35	2767.34	2756.84	2767.84	0.41	ppb
Manganese	55-2	137.98	135.58	136.92	136.83	0.88	ppb
Molybdenum	94-1	0.46	0.38	0.41	0.41	9.34	ppb
Molybdenum	95-1	0.31	0.31	0.33	0.32	4.19	ppb
Molybdenum	96-1	0.64	0.65	0.67	0.65	2.93	ppb
Molybdenum	97-1	0.30	0.29	0.33	0.31	6.49	ppb
Molybdenum	98-1	0.31	0.30	0.30	0.30	1.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.44	2.49	2.50	2.48	1.33	ppb
Phosphorus	31-2	-121.93	-116.32	-121.86	-120.04		ppb
Potassium	39-2	1229.97	1215.64	1221.38	1222.33	0.59	ppb
Rhodium	103-1				106		%
Rhodium	103-2				109		%
Scandium	45-1				103		%
Scandium	45-2				105		%
Selenium	82-1	1.03	0.70	0.84	0.85	19.37	ppb
Selenium	77-2	-0.25	0.63	0.27	0.22	203.61	ppb
Selenium	78-2	-1.87	-2.59	-1.90	-2.12		ppb
Silicon	28-1	685.75	705.64	684.11	691.84	1.73	ppb
Silver	107-1	0.01	0.01	0.01	0.01	32.28	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.80	ppb
Sodium	23-2	22348.38	21965.21	21990.76	22101.45	0.97	ppb
Strontium	86-1	901.52	915.12	912.77	909.80	0.80	ppb
Strontium	88-1	893.09	892.31	897.71	894.37	0.33	ppb
Sulfur	34-1	4648.78	4899.33	4782.19	4776.77	2.62	ppb
Terbium	159-1				110		%
Terbium	159-2				110		%
Thallium	203-1	0.06	0.04	0.04	0.05	25.86	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	3.33	ppb
Tin	118-1	0.12	0.11	0.14	0.12	9.67	ppb
Titanium	47-1	0.47	0.43	0.52	0.47	9.72	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.09	0.08	0.09	0.09	5.93	ppb
Vanadium	51-2	0.15	0.13	0.16	0.15	10.33	ppb
Yttrium	89-1				108		%
Yttrium	89-2				107		%
Zinc	66-2	9.30	8.95	8.71	8.99	3.34	ppb
Zirconium	90-1	0.04	0.04	0.05	0.04	19.60	ppb
Zirconium	91-1	0.07	0.06	0.05	0.06	18.38	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	70.67	67.72	63.39	67.26	5.45	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	11.59	ppb
Arsenic	75-2	16.76	17.14	16.73	16.87	1.35	ppb
Barium	135-1	15.11	14.43	15.00	14.85	2.47	ppb
Barium	137-1	14.67	14.61	14.82	14.70	0.74	ppb
Beryllium	9-1	0.02	0.00	0.04	0.02	83.05	ppb
Bismuth	209-1				111		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.10	-0.05	0.00	-0.05		ppb
Cadmium	106-1	0.53	0.33	0.15	0.34	57.43	ppb
Cadmium	111-1	0.04	0.02	0.00	0.02	103.45	ppb
Calcium	43-1	1921.52	1934.97	1931.26	1929.25	0.36	ppb
Calcium	44-1	1921.22	1951.96	1989.06	1954.08	1.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.64	0.67	0.63	0.65	3.22	ppb
Cobalt	59-2	0.03	0.04	0.03	0.03	7.45	ppb
Copper	63-2	0.77	0.66	0.82	0.75	10.66	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				110		%
Holmium	165-2				107		%
Indium	115-1				109		%
Indium	115-2				107		%
Iron	56-2	24587.16	24433.81	24442.00	24487.66	0.35	ppb
Iron	57-2	24324.33	24445.51	24005.71	24258.52	0.94	ppb
Iron	54-2	24661.54	24380.05	24215.74	24419.11	0.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.36	0.38	0.47	0.40	14.42	ppb
Lead	207-1	0.41	0.41	0.38	0.40	4.65	ppb
Lead	208-1	0.40	0.41	0.41	0.40	1.59	ppb
Lithium	6-1				106		%
Magnesium	24-2	483.17	484.57	472.89	480.21	1.33	ppb
Manganese	55-2	70.63	70.22	69.87	70.24	0.54	ppb
Molybdenum	94-1	0.70	0.72	0.64	0.69	5.94	ppb
Molybdenum	95-1	0.39	0.40	0.41	0.40	2.88	ppb
Molybdenum	96-1	0.87	0.88	0.85	0.86	1.66	ppb
Molybdenum	97-1	0.43	0.37	0.35	0.38	11.49	ppb
Molybdenum	98-1	0.41	0.38	0.38	0.39	4.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.28	0.39	0.38	0.35	17.42	ppb
Phosphorus	31-2	-122.39	-114.15	-118.27	-118.27		ppb
Potassium	39-2	820.57	823.86	816.36	820.26	0.46	ppb
Rhodium	103-1				107		%
Rhodium	103-2				108		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	0.69	0.69	0.13	0.50	63.91	ppb
Selenium	77-2	-0.07	-0.25	-0.25	-0.19		ppb
Selenium	78-2	-2.97	-1.65	-2.20	-2.27		ppb
Silicon	28-1	1368.71	1418.90	1451.00	1412.87	2.94	ppb
Silver	107-1	0.00	0.00	0.01	0.00	73.12	ppb
Silver	109-1	0.00	0.01	0.01	0.01	55.31	ppb
Sodium	23-2	3940.55	3857.08	3944.51	3914.05	1.26	ppb
Strontium	86-1	1072.20	1092.94	1080.88	1082.01	0.96	ppb
Strontium	88-1	1065.52	1078.32	1060.57	1068.13	0.86	ppb
Sulfur	34-1	-898.44	-804.54	-521.50	-741.49		ppb
Terbium	159-1				111		%
Terbium	159-2				109		%
Thallium	203-1	0.01	0.02	0.02	0.02	20.88	ppb
Thallium	205-1	0.01	0.02	0.02	0.02	31.35	ppb
Tin	118-1	0.67	0.74	0.67	0.69	5.33	ppb
Titanium	47-1	1.45	1.31	1.45	1.40	5.69	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.02	0.03	6.37	ppb
Vanadium	51-2	0.53	0.53	0.53	0.53	0.25	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	1.91	2.13	1.56	1.87	15.41	ppb
Zirconium	90-1	0.18	0.20	0.19	0.19	5.21	ppb
Zirconium	91-1	0.19	0.19	0.20	0.19	5.34	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100.04	84.39	72.92	85.78	15.87	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	8.69	ppb
Arsenic	75-2	16.26	16.45	17.37	16.69	3.53	ppb
Barium	135-1	15.09	14.88	14.78	14.92	1.07	ppb
Barium	137-1	15.48	14.63	15.04	15.05	2.81	ppb
Beryllium	9-1	0.02	0.04	0.04	0.03	27.10	ppb
Bismuth	209-1				109		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.12	0.12	-0.03	0.07	118.69	ppb
Cadmium	106-1	0.34	0.32	0.32	0.33	3.05	ppb
Cadmium	111-1	0.02	0.03	0.02	0.02	28.09	ppb
Calcium	43-1	1926.62	1972.98	1978.53	1959.37	1.45	ppb
Calcium	44-1	1929.37	1937.72	1933.23	1933.44	0.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.74	0.70	0.66	0.70	5.44	ppb
Cobalt	59-2	0.05	0.03	0.02	0.03	32.89	ppb
Copper	63-2	0.63	0.62	0.61	0.62	2.00	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				108		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				106		%
Iron	56-2	24653.37	24269.71	24127.63	24350.24	1.12	ppb
Iron	57-2	24049.10	24278.57	23900.13	24075.93	0.79	ppb
Iron	54-2	24114.51	24566.20	24106.98	24262.56	1.08	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.40	0.44	0.45	0.43	5.68	ppb
Lead	207-1	0.43	0.41	0.42	0.42	2.70	ppb
Lead	208-1	0.39	0.41	0.43	0.41	5.58	ppb
Lithium	6-1				106		%
Magnesium	24-2	475.84	484.05	477.74	479.21	0.90	ppb
Manganese	55-2	70.73	70.23	69.43	70.13	0.93	ppb
Molybdenum	94-1	0.72	0.66	0.78	0.72	8.62	ppb
Molybdenum	95-1	0.36	0.37	0.35	0.36	3.68	ppb
Molybdenum	96-1	0.86	0.87	0.84	0.86	1.66	ppb
Molybdenum	97-1	0.46	0.44	0.43	0.45	3.88	ppb
Molybdenum	98-1	0.38	0.38	0.36	0.37	3.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.19	0.28	0.24	20.91	ppb
Phosphorus	31-2	-114.15	-116.75	-119.78	-116.89		ppb
Potassium	39-2	832.98	841.19	830.70	834.96	0.66	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.56	1.06	1.18	0.93	35.23	ppb
Selenium	77-2	-0.25	-0.25	0.10	-0.13		ppb
Selenium	78-2	-0.87	-0.10	-2.11	-1.03		ppb
Silicon	28-1	1432.54	1409.20	1437.30	1426.35	1.05	ppb
Silver	107-1	0.00	0.01	0.00	0.00	154.30	ppb
Silver	109-1	0.01	0.00	0.00	0.00	70.83	ppb
Sodium	23-2	3868.63	4062.14	3900.09	3943.62	2.63	ppb
Strontium	86-1	1091.24	1076.40	1088.40	1085.34	0.73	ppb
Strontium	88-1	1065.01	1057.74	1060.84	1061.19	0.34	ppb
Sulfur	34-1	-616.14	-528.83	-446.59	-530.52		ppb
Terbium	159-1				110		%
Terbium	159-2				107		%
Thallium	203-1	0.01	0.01	0.02	0.01	51.86	ppb
Thallium	205-1	0.00	0.01	0.01	0.01	167.55	ppb
Tin	118-1	0.74	0.67	0.74	0.72	5.48	ppb
Titanium	47-1	1.95	3.21	2.00	2.39	29.75	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	7.43	ppb
Vanadium	51-2	0.54	0.52	0.57	0.54	4.87	ppb
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	1.40	1.37	1.38	1.38	1.13	ppb
Zirconium	90-1	0.19	0.17	0.19	0.18	5.02	ppb
Zirconium	91-1	0.32	0.25	0.22	0.26	20.43	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	330.93	301.02	264.70	298.88	11.10	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	23.23	ppb
Arsenic	75-2	3.26	3.61	3.39	3.42	5.12	ppb
Barium	135-1	3.76	3.39	3.57	3.57	5.28	ppb
Barium	137-1	3.41	4.60	3.25	3.75	19.71	ppb
Beryllium	9-1	-0.02	0.02	0.00	0.00	1114.98	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.09	0.03	-0.02	0.03	165.13	ppb
Cadmium	106-1	0.01	-0.59	-0.46	-0.34		ppb
Cadmium	111-1	-0.01	-0.04	-0.04	-0.03		ppb
Calcium	43-1	386.47	379.59	383.22	383.09	0.90	ppb
Calcium	44-1	379.33	372.25	372.01	374.53	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.40	0.32	0.37	11.14	ppb
Cobalt	59-2	0.00	0.01	0.00	0.00	441.99	ppb
Copper	63-2	0.26	0.20	0.24	0.23	14.30	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				100		%
Indium	115-1				101		%
Indium	115-2				103		%
Iron	56-2	4857.78	4654.38	4820.94	4777.70	2.27	ppb
Iron	57-2	4400.63	4338.65	4350.73	4363.34	0.75	ppb
Iron	54-2	4445.24	4367.64	4348.49	4387.12	1.17	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.13	0.14	0.08	0.12	26.62	ppb
Lead	207-1	0.17	0.08	0.08	0.11	44.22	ppb
Lead	208-1	0.12	0.09	0.07	0.09	23.72	ppb
Lithium	6-1				99		%
Magnesium	24-2	99.41	97.57	95.35	97.44	2.09	ppb
Manganese	55-2	14.43	14.06	14.14	14.21	1.40	ppb
Molybdenum	94-1	1.87	0.58	2.32	1.59	56.72	ppb
Molybdenum	95-1	0.14	0.13	0.14	0.13	4.19	ppb
Molybdenum	96-1	0.23	0.27	0.37	0.29	25.81	ppb
Molybdenum	97-1	0.09	0.13	0.10	0.11	17.35	ppb
Molybdenum	98-1	0.11	0.11	0.11	0.11	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.17	0.16	0.20	30.64	ppb
Phosphorus	31-2	-117.75	-128.42	-125.26	-123.81		ppb
Potassium	39-2	216.35	210.29	189.43	205.36	6.88	ppb
Rhodium	103-1				100		%
Rhodium	103-2				104		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	-0.08	0.07	-0.05	-0.02		ppb
Selenium	77-2	-0.07	-0.25	-0.06	-0.13		ppb
Selenium	78-2	1.34	-0.09	0.51	0.59	122.02	ppb
Silicon	28-1	708.77	374.03	398.20	493.67	37.81	ppb
Silver	107-1	0.00	0.00	0.00	0.00	28.69	ppb
Silver	109-1	0.00	0.00	0.00	0.00	62.10	ppb
Sodium	23-2	664.99	649.94	653.55	656.16	1.20	ppb
Strontium	86-1	215.64	212.57	209.66	212.62	1.41	ppb
Strontium	88-1	209.33	205.45	206.47	207.08	0.97	ppb
Sulfur	34-1	-683.68	-713.53	-732.39	-709.87		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.00	0.00	-0.01	0.00		ppb
Thallium	205-1	0.01	0.01	0.01	0.01	13.86	ppb
Tin	118-1	0.18	0.15	0.16	0.17	7.54	ppb
Titanium	47-1	7.50	8.39	9.66	8.52	12.71	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	16.62	ppb
Vanadium	51-2	0.37	0.45	0.44	0.42	10.01	ppb
Yttrium	89-1				99		%
Yttrium	89-2				101		%
Zinc	66-2	2.44	2.47	2.52	2.48	1.48	ppb
Zirconium	90-1	0.22	0.36	0.20	0.26	34.39	ppb
Zirconium	91-1	1.97	0.30	0.22	0.83	119.53	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8617.52	8677.87	8526.31	8607.23	0.89	ppb
Antimony	121-1	497.15	499.07	486.74	494.32	1.34	ppb
Arsenic	75-2	16.73	16.44	15.54	16.23	3.82	ppb
Barium	135-1	2242.15	2203.26	2235.15	2226.85	0.93	ppb
Barium	137-1	2202.48	2156.53	2217.97	2192.32	1.46	ppb
Beryllium	9-1	431.69	426.96	430.06	429.57	0.56	ppb
Bismuth	209-1				108		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	469.37	473.33	469.70	470.80	0.47	ppb
Cadmium	106-1	488.03	479.80	484.97	484.26	0.86	ppb
Cadmium	111-1	451.73	449.68	453.52	451.64	0.43	ppb
Calcium	43-1	44007.55	44912.23	44223.04	44380.94	1.06	ppb
Calcium	44-1	47042.93	48023.94	47291.92	47452.93	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	465.22	461.78	449.44	458.81	1.81	ppb
Cobalt	59-2	475.37	479.26	465.76	473.46	1.47	ppb
Copper	63-2	4323.23	4254.78	4245.33	4274.45	0.99	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				108		%
Holmium	165-2				107		%
Indium	115-1				104		%
Indium	115-2				100		%
Iron	56-2	45315.48	44965.16	44438.25	44906.30	0.98	ppb
Iron	57-2	45203.35	44136.31	44773.88	44704.51	1.20	ppb
Iron	54-2	46184.43	45331.17	44269.58	45261.73	2.12	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2344.42	2409.45	2352.93	2368.93	1.49	ppb
Lead	207-1	2383.57	2405.85	2321.00	2370.14	1.86	ppb
Lead	208-1	2359.42	2387.81	2337.53	2361.59	1.07	ppb
Lithium	6-1				108		%
Magnesium	24-2	46813.70	46988.17	45877.02	46559.63	1.28	ppb
Manganese	55-2	4410.59	4364.34	4291.53	4355.49	1.38	ppb
Molybdenum	94-1	2249.06	2265.87	2239.10	2251.34	0.60	ppb
Molybdenum	95-1	1682.20	1681.62	1669.16	1677.66	0.44	ppb
Molybdenum	96-1	1766.49	1780.89	1776.36	1774.58	0.41	ppb
Molybdenum	97-1	1728.68	1735.43	1695.27	1719.79	1.25	ppb
Molybdenum	98-1	1697.01	1728.51	1686.53	1704.02	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	470.92	464.37	459.43	464.91	1.24	ppb
Phosphorus	31-2	-117.97	-118.60	-117.53	-118.03		ppb
Potassium	39-2	21965.11	21787.03	21828.37	21860.17	0.43	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	487.39	492.84	489.62	489.95	0.56	ppb
Selenium	77-2	489.13	490.97	462.45	480.85	3.32	ppb
Selenium	78-2	479.93	483.61	468.45	477.33	1.66	ppb
Silicon	28-1	1335.15	1365.41	1353.52	1351.36	1.13	ppb
Silver	107-1	67.80	67.16	67.14	67.37	0.56	ppb
Silver	109-1	66.71	65.92	66.55	66.39	0.63	ppb
Sodium	23-2	50258.31	50073.58	48413.06	49581.65	2.05	ppb
Strontium	86-1	15731.26	15825.32	15309.35	15621.97	1.76	ppb
Strontium	88-1	15207.10	15358.07	15340.72	15301.96	0.54	ppb
Sulfur	34-1	-289.84	-140.04	-187.36	-205.74		ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	455.97	485.82	458.78	466.86	3.53	ppb
Thallium	205-1	466.43	474.43	465.16	468.67	1.07	ppb
Tin	118-1	441.36	442.65	440.62	441.54	0.23	ppb
Titanium	47-1	2.85	4.97	6.40	4.74	37.67	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	464.63	471.21	465.78	467.21	0.75	ppb
Vanadium	51-2	479.01	480.16	475.18	478.12	0.55	ppb
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	4438.47	4396.53	4233.18	4356.06	2.49	ppb
Zirconium	90-1	467.80	468.85	467.31	467.99	0.17	ppb
Zirconium	91-1	484.26	483.99	427.27	465.17	7.06	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9238.59	9081.97	8806.97	9042.51	2.42	ppb
Antimony	121-1	476.25	485.81	475.12	479.06	1.23	ppb
Arsenic	75-2	15.82	16.23	16.00	16.02	1.29	ppb
Barium	135-1	2118.58	2146.60	2103.97	2123.05	1.02	ppb
Barium	137-1	2082.73	2126.83	2119.18	2109.58	1.12	ppb
Beryllium	9-1	422.04	416.13	424.63	420.94	1.04	ppb
Bismuth	209-1				110		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	464.97	468.25	458.21	463.81	1.10	ppb
Cadmium	106-1	462.26	474.24	467.73	468.08	1.28	ppb
Cadmium	111-1	434.12	439.72	435.44	436.43	0.67	ppb
Calcium	43-1	44291.18	44585.20	44370.24	44415.54	0.34	ppb
Calcium	44-1	47174.22	47702.52	47524.94	47467.23	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	456.10	450.79	452.06	452.98	0.61	ppb
Cobalt	59-2	463.06	461.98	458.10	461.04	0.57	ppb
Copper	63-2	4298.85	4290.25	4293.71	4294.27	0.10	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				110		%
Holmium	165-2				110		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	45394.27	45603.07	44837.38	45278.24	0.87	ppb
Iron	57-2	44777.31	44229.66	44297.65	44434.87	0.67	ppb
Iron	54-2	45302.19	44981.00	44767.65	45016.95	0.60	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2375.65	2347.99	2323.39	2349.01	1.11	ppb
Lead	207-1	2343.81	2351.03	2325.56	2340.14	0.56	ppb
Lead	208-1	2332.38	2345.44	2328.85	2335.56	0.37	ppb
Lithium	6-1				111		%
Magnesium	24-2	46239.26	46271.36	46310.12	46273.58	0.08	ppb
Manganese	55-2	4379.13	4298.84	4374.69	4350.89	1.04	ppb
Molybdenum	94-1	4572.66	4563.12	4616.14	4583.97	0.62	ppb
Molybdenum	95-1	4585.25	4562.86	4581.58	4576.56	0.26	ppb
Molybdenum	96-1	4580.47	4641.66	4556.57	4592.90	0.96	ppb
Molybdenum	97-1	4635.56	4557.56	4598.26	4597.13	0.85	ppb
Molybdenum	98-1	4571.13	4491.69	4572.65	4545.16	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	459.03	458.79	461.23	459.69	0.29	ppb
Phosphorus	31-2	-116.22	-117.92	-117.55	-117.23		ppb
Potassium	39-2	22249.83	21990.78	21743.44	21994.68	1.15	ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				103		%
Scandium	45-2				105		%
Selenium	82-1	469.36	476.44	479.71	475.17	1.11	ppb
Selenium	77-2	469.84	468.25	446.45	461.51	2.83	ppb
Selenium	78-2	473.82	464.35	488.57	475.58	2.57	ppb
Silicon	28-1	1614.89	1605.53	1661.70	1627.38	1.85	ppb
Silver	107-1	63.87	64.68	63.69	64.08	0.83	ppb
Silver	109-1	62.88	63.70	62.72	63.10	0.84	ppb
Sodium	23-2	49455.94	49651.39	49718.34	49608.56	0.27	ppb
Strontium	86-1	15775.00	15354.13	15325.97	15485.03	1.62	ppb
Strontium	88-1	14687.79	14962.30	15069.26	14906.45	1.32	ppb
Sulfur	34-1	-713.68	-766.55	-851.05	-777.09		ppb
Terbium	159-1				112		%
Terbium	159-2				111		%
Thallium	203-1	468.47	456.58	454.98	460.01	1.60	ppb
Thallium	205-1	464.50	460.36	454.21	459.69	1.13	ppb
Tin	118-1	431.08	437.58	436.72	435.13	0.81	ppb
Titanium	47-1	2829.45	2929.81	2900.96	2886.74	1.79	ppb

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	462.96	472.76	466.79	467.51	1.06	ppb
Vanadium	51-2	477.99	470.88	462.70	470.52	1.63	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	4338.08	4388.71	4268.23	4331.67	1.40	ppb
Zirconium	90-1	459.73	455.91	457.98	457.88	0.42	ppb
Zirconium	91-1	419.74	418.65	420.73	419.70	0.25	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8867.88	8534.85	8893.96	8765.56	2.28	ppb
Antimony	121-1	480.99	472.52	486.79	480.10	1.50	ppb
Arsenic	75-2	16.16	16.81	16.28	16.41	2.11	ppb
Barium	135-1	2179.38	2209.22	2218.85	2202.48	0.93	ppb
Barium	137-1	2142.72	2128.19	2160.80	2143.90	0.76	ppb
Beryllium	9-1	427.54	430.46	430.93	429.64	0.43	ppb
Bismuth	209-1				112		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	458.82	450.95	460.71	456.83	1.13	ppb
Cadmium	106-1	476.56	475.00	475.77	475.78	0.16	ppb
Cadmium	111-1	441.89	445.58	446.56	444.68	0.55	ppb
Calcium	43-1	44146.22	44436.04	44440.42	44340.89	0.38	ppb
Calcium	44-1	47073.37	47700.91	47651.74	47475.34	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	474.04	448.60	461.10	461.25	2.76	ppb
Cobalt	59-2	470.74	474.23	477.01	474.00	0.66	ppb
Copper	63-2	4353.61	4302.03	4376.75	4344.13	0.88	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				111		%
Holmium	165-2				110		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	56-2	46127.56	46447.18	46358.13	46310.96	0.36	ppb
Iron	57-2	44860.47	45456.94	45006.40	45107.93	0.69	ppb
Iron	54-2	46403.34	44936.00	45517.46	45618.93	1.62	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2345.35	2369.86	2313.40	2342.87	1.21	ppb
Lead	207-1	2334.48	2385.89	2324.70	2348.36	1.40	ppb
Lead	208-1	2342.92	2383.65	2316.19	2347.59	1.45	ppb
Lithium	6-1				110		%
Magnesium	24-2	46636.32	46254.81	46639.60	46510.24	0.48	ppb
Manganese	55-2	4417.63	4352.49	4443.15	4404.42	1.06	ppb
Molybdenum	94-1	2464.17	2466.00	2441.45	2457.21	0.56	ppb
Molybdenum	95-1	1962.55	1975.36	1946.33	1961.41	0.74	ppb
Molybdenum	96-1	2007.94	2050.10	2024.13	2027.39	1.05	ppb
Molybdenum	97-1	1955.60	2029.66	1964.95	1983.40	2.03	ppb
Molybdenum	98-1	1962.11	1993.82	1923.83	1959.92	1.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	469.44	463.60	470.33	467.79	0.78	ppb
Phosphorus	31-2	-118.95	-107.51	-117.41	-114.63		ppb
Potassium	39-2	22008.52	21948.09	22119.13	22025.25	0.39	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				106		%
Selenium	82-1	488.95	490.05	481.03	486.68	1.01	ppb
Selenium	77-2	487.79	481.92	486.91	485.54	0.65	ppb
Selenium	78-2	494.02	493.79	482.84	490.22	1.30	ppb
Silicon	28-1	1408.24	1459.10	1437.16	1434.83	1.78	ppb
Silver	107-1	65.80	65.35	66.87	66.01	1.18	ppb
Silver	109-1	65.38	64.50	65.93	65.27	1.11	ppb
Sodium	23-2	49453.52	49588.64	50317.46	49786.54	0.93	ppb
Strontium	86-1	15719.22	15697.56	15647.08	15687.95	0.24	ppb
Strontium	88-1	15105.38	15315.64	14909.24	15110.09	1.35	ppb
Sulfur	34-1	-885.20	-943.63	-906.82	-911.88		ppb
Terbium	159-1				113		%
Terbium	159-2				111		%
Thallium	203-1	459.30	469.57	455.38	461.42	1.59	ppb
Thallium	205-1	451.55	457.12	456.96	455.21	0.70	ppb
Tin	118-1	437.09	425.43	443.69	435.41	2.12	ppb
Titanium	47-1	254.12	260.13	252.02	255.42	1.65	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	467.88	468.68	466.94	467.84	0.19	ppb
Vanadium	51-2	483.57	473.06	475.66	477.43	1.15	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	4358.65	4392.37	4474.90	4408.64	1.36	ppb
Zirconium	90-1	454.86	467.21	459.03	460.37	1.36	ppb
Zirconium	91-1	425.82	427.39	423.74	425.65	0.43	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51598.69	50433.91	50072.73	50701.78	1.57	ppb
Antimony	121-1	499.23	499.04	506.88	501.72	0.89	ppb
Arsenic	75-2	495.00	485.74	494.25	491.67	1.05	ppb
Barium	135-1	2538.47	2501.97	2609.50	2549.98	2.14	ppb
Barium	137-1	2516.92	2565.39	2575.42	2552.58	1.23	ppb
Beryllium	9-1	484.00	493.48	497.82	491.77	1.44	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	493.58	494.54	491.83	493.32	0.28	ppb
Cadmium	106-1	493.17	490.54	494.82	492.84	0.44	ppb
Cadmium	111-1	455.47	455.02	460.74	457.07	0.70	ppb
Calcium	43-1	248910.63	248156.04	253961.18	250342.62	1.26	ppb
Calcium	44-1	246671.35	248830.51	253736.52	249746.12	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	503.85	502.50	509.22	505.19	0.70	ppb
Cobalt	59-2	496.89	506.35	498.68	500.64	1.00	ppb
Copper	63-2	5179.76	5061.69	5204.65	5148.70	1.48	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				101		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	56-2	132321.87	133247.39	133262.77	132944.01	0.41	ppb
Iron	57-2	133077.77	130602.49	130766.13	131482.13	1.05	ppb
Iron	54-2	135467.54	130939.08	130911.39	132439.34	1.98	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2489.16	2561.29	2575.37	2541.94	1.82	ppb
Lead	207-1	2485.41	2514.97	2598.73	2533.04	2.32	ppb
Lead	208-1	2491.32	2531.31	2586.93	2536.52	1.89	ppb
Lithium	6-1				101		%
Magnesium	24-2	253829.87	250573.29	252868.31	252423.82	0.66	ppb
Manganese	55-2	5126.53	4951.77	5008.57	5028.96	1.77	ppb
Molybdenum	94-1	4961.85	5068.07	5131.47	5053.80	1.70	ppb
Molybdenum	95-1	5025.12	5091.78	5050.68	5055.86	0.67	ppb
Molybdenum	96-1	5100.54	5063.98	5128.63	5097.72	0.64	ppb
Molybdenum	97-1	5064.88	5036.99	5114.64	5072.17	0.78	ppb
Molybdenum	98-1	5045.71	5014.18	5067.09	5042.33	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	517.61	509.64	522.06	516.44	1.22	ppb
Phosphorus	31-2	10331.64	10190.13	10244.97	10255.58	0.70	ppb
Potassium	39-2	127516.96	126557.45	128838.41	127637.61	0.90	ppb
Rhodium	103-1				92		%
Rhodium	103-2				94		%
Scandium	45-1				95		%
Scandium	45-2				100		%
Selenium	82-1	473.29	478.02	479.71	477.01	0.70	ppb
Selenium	77-2	476.70	455.85	477.83	470.13	2.63	ppb
Selenium	78-2	479.49	465.81	477.25	474.18	1.55	ppb
Silicon	28-1	366.74	392.27	379.03	379.35	3.37	ppb
Silver	107-1	454.98	460.44	457.37	457.60	0.60	ppb
Silver	109-1	455.49	466.39	462.32	461.40	1.19	ppb
Sodium	23-2	253024.84	251543.18	252304.52	252290.85	0.29	ppb
Strontium	86-1	11430.17	11565.22	11549.63	11515.01	0.64	ppb
Strontium	88-1	12505.50	12560.91	12537.04	12534.48	0.22	ppb
Sulfur	34-1	9598.71	9966.92	10121.06	9895.57	2.71	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	510.28	523.87	529.04	521.06	1.86	ppb
Thallium	205-1	510.50	522.90	534.08	522.50	2.26	ppb
Tin	118-1	507.99	507.09	521.25	512.11	1.55	ppb
Titanium	47-1	5017.45	5059.13	5060.41	5045.66	0.48	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	517.32	520.51	538.12	525.32	2.13	ppb
Vanadium	51-2	522.58	504.99	521.72	516.43	1.92	ppb
Yttrium	89-1				97		%
Yttrium	89-2				99		%
Zinc	66-2	5103.53	4984.98	4971.55	5020.02	1.45	ppb
Zirconium	90-1	508.51	513.81	517.23	513.19	0.86	ppb
Zirconium	91-1	460.30	516.89	466.09	481.10	6.47	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.08	5.84	5.68	5.87	3.40	ppb
Antimony	121-1	0.03	0.03	0.05	0.04	25.63	ppb
Arsenic	75-2	-0.05	-0.04	-0.07	-0.05		ppb
Barium	135-1	0.04	0.01	0.01	0.02	71.60	ppb
Barium	137-1	0.02	0.00	0.00	0.01	95.93	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	7.19	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.07	-0.05	0.12	0.00		ppb
Cadmium	106-1	-0.77	-0.77	-0.68	-0.74		ppb
Cadmium	111-1	-0.04	-0.03	-0.05	-0.04		ppb
Calcium	43-1	-7.16	-5.99	-8.71	-7.29		ppb
Calcium	44-1	-3.97	-3.28	-4.61	-3.95		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.03	0.02	0.00		ppb
Cobalt	59-2	-0.01	-0.01	-0.02	-0.01		ppb
Copper	63-2	0.23	0.21	0.25	0.23	7.51	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				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	0.10	0.12	0.25	0.16	50.44	ppb
Iron	57-2	-1.43	-2.08	-0.96	-1.49		ppb
Iron	54-2	1.22	0.66	1.56	1.15	39.78	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	-0.02	-0.01	-0.01		ppb
Lead	207-1	-0.06	0.00	0.00	-0.02		ppb
Lead	208-1	-0.03	-0.01	0.00	-0.01		ppb
Lithium	6-1				99		%
Magnesium	24-2	0.75	0.65	0.54	0.65	16.55	ppb
Manganese	55-2	0.03	0.01	0.06	0.04	71.41	ppb
Molybdenum	94-1	0.04	0.02	0.05	0.04	34.22	ppb
Molybdenum	95-1	0.04	0.03	0.02	0.03	21.43	ppb
Molybdenum	96-1	0.04	0.03	0.02	0.03	29.86	ppb
Molybdenum	97-1	0.03	0.04	0.03	0.03	21.20	ppb
Molybdenum	98-1	0.03	0.02	0.01	0.02	28.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.02	0.02	0.02	34.27	ppb
Phosphorus	31-2	-133.04	-136.31	-137.38	-135.58		ppb
Potassium	39-2	1.36	1.10	0.03	0.83	85.21	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	0.12	0.23	0.23	0.19	33.81	ppb
Selenium	77-2	-0.06	-0.25	-0.25	-0.19		ppb
Selenium	78-2	-1.61	-2.41	0.99	-1.01		ppb
Silicon	28-1	-7.11	-9.00	-3.28	-6.46		ppb
Silver	107-1	0.03	0.04	0.04	0.04	23.85	ppb
Silver	109-1	0.02	0.03	0.04	0.03	30.10	ppb
Sodium	23-2	10.28	9.16	8.20	9.22	11.31	ppb
Strontium	86-1	1.06	0.66	-0.13	0.53	113.70	ppb
Strontium	88-1	0.12	0.09	0.11	0.10	15.42	ppb
Sulfur	34-1	-931.21	-915.02	-832.71	-892.98		ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.07	0.06	0.06	0.06	9.81	ppb
Thallium	205-1	0.06	0.07	0.07	0.06	8.88	ppb
Tin	118-1	-0.03	-0.02	-0.01	-0.02		ppb
Titanium	47-1	0.02	0.00	0.00	0.01	159.35	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.01	0.01	0.01	117.57	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	-0.04	0.00	-0.10	-0.04		ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	24.88	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	45.64	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	78.93	78.30	75.51	77.58	2.35	ppb
Antimony	121-1	0.24	0.24	0.23	0.23	3.03	ppb
Arsenic	75-2	-0.03	0.00	0.00	-0.01		ppb
Barium	135-1	12.14	12.02	12.46	12.21	1.85	ppb
Barium	137-1	12.33	12.17	12.46	12.32	1.18	ppb
Beryllium	9-1	0.01	0.03	0.02	0.02	55.72	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.17	-0.02	0.09	0.08	122.87	ppb
Cadmium	106-1	1.01	-0.24	-0.26	0.17	434.14	ppb
Cadmium	111-1	0.19	0.11	0.15	0.15	28.17	ppb
Calcium	43-1	3875.73	3994.76	3902.78	3924.42	1.59	ppb
Calcium	44-1	3998.17	4234.00	4281.35	4171.17	3.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.18	0.12	0.16	0.15	19.56	ppb
Cobalt	59-2	0.31	0.35	0.31	0.33	6.39	ppb
Copper	63-2	3.11	2.99	2.97	3.03	2.53	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				103		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	56-2	776.13	769.42	767.66	771.07	0.58	ppb
Iron	57-2	713.86	724.49	727.11	721.82	0.97	ppb
Iron	54-2	702.15	695.07	714.10	703.78	1.37	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.24	1.23	1.26	1.24	1.58	ppb
Lead	207-1	1.10	1.04	1.13	1.09	4.05	ppb
Lead	208-1	1.14	1.13	1.16	1.14	1.37	ppb
Lithium	6-1				99		%
Magnesium	24-2	161.71	156.98	162.06	160.25	1.77	ppb
Manganese	55-2	66.90	66.03	66.23	66.39	0.69	ppb
Molybdenum	94-1	0.09	0.05	0.09	0.08	27.83	ppb
Molybdenum	95-1	0.07	0.06	0.08	0.07	14.81	ppb
Molybdenum	96-1	0.11	0.09	0.09	0.09	11.55	ppb
Molybdenum	97-1	0.08	0.07	0.05	0.06	24.50	ppb
Molybdenum	98-1	0.07	0.07	0.06	0.07	7.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.31	1.16	1.33	1.27	7.16	ppb
Phosphorus	31-2	-124.41	-125.83	-129.44	-126.56		ppb
Potassium	39-2	1359.66	1349.29	1363.41	1357.45	0.54	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				99		%
Selenium	82-1	-0.07	0.85	0.44	0.40	113.66	ppb
Selenium	77-2	-0.25	-0.06	-0.06	-0.12		ppb
Selenium	78-2	-0.96	-0.41	-1.11	-0.83		ppb
Silicon	28-1	56.00	64.53	63.66	61.39	7.65	ppb
Silver	107-1	0.01	0.01	0.01	0.01	33.40	ppb
Silver	109-1	0.01	0.01	0.01	0.01	18.13	ppb
Sodium	23-2	150553.64	150065.47	149274.27	149964.46	0.43	ppb
Strontium	86-1	622.03	628.43	623.69	624.72	0.53	ppb
Strontium	88-1	606.83	618.05	612.01	612.30	0.92	ppb
Sulfur	34-1	-243.27	-89.16	-133.39	-155.27		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.06	0.04	0.05	0.05	21.92	ppb
Thallium	205-1	0.04	0.05	0.04	0.04	19.25	ppb
Tin	118-1	0.26	0.21	0.25	0.24	10.11	ppb
Titanium	47-1	0.25	0.19	0.18	0.21	17.38	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.00	0.01	52.14	ppb
Vanadium	51-2	0.10	0.10	0.12	0.11	8.78	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	107.17	107.79	108.19	107.72	0.48	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	20.52	ppb
Zirconium	91-1	0.03	0.03	0.01	0.02	40.79	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	122.01	122.91	122.61	122.51	0.37	ppb
Antimony	121-1	0.24	0.22	0.23	0.23	4.45	ppb
Arsenic	75-2	0.02	0.03	0.03	0.03	37.77	ppb
Barium	135-1	12.02	12.29	12.61	12.31	2.42	ppb
Barium	137-1	12.18	12.14	12.33	12.21	0.85	ppb
Beryllium	9-1	0.02	0.03	0.01	0.02	31.07	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.13	0.08	0.13	30.95	ppb
Cadmium	106-1	0.18	-0.08	-0.58	-0.16		ppb
Cadmium	111-1	0.14	0.13	0.07	0.11	33.49	ppb
Calcium	43-1	3938.71	3993.93	4036.68	3989.77	1.23	ppb
Calcium	44-1	4197.93	4233.78	4225.19	4218.96	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.18	0.19	0.18	0.19	4.11	ppb
Cobalt	59-2	0.30	0.34	0.32	0.32	4.89	ppb
Copper	63-2	4.70	5.00	4.74	4.81	3.33	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				103		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	56-2	766.89	758.63	777.87	767.79	1.26	ppb
Iron	57-2	715.23	728.26	728.67	724.05	1.06	ppb
Iron	54-2	695.18	707.44	712.15	704.92	1.24	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.17	1.24	1.16	1.19	3.64	ppb
Lead	207-1	1.15	1.12	1.11	1.13	1.61	ppb
Lead	208-1	1.14	1.17	1.11	1.14	2.80	ppb
Lithium	6-1				101		%
Magnesium	24-2	158.47	162.20	162.18	160.95	1.34	ppb
Manganese	55-2	65.98	66.71	67.39	66.69	1.06	ppb
Molybdenum	94-1	0.13	0.13	0.13	0.13	0.69	ppb
Molybdenum	95-1	0.12	0.08	0.09	0.10	19.39	ppb
Molybdenum	96-1	0.11	0.10	0.13	0.12	12.02	ppb
Molybdenum	97-1	0.12	0.10	0.14	0.12	16.94	ppb
Molybdenum	98-1	0.10	0.12	0.09	0.10	13.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.81	1.64	1.82	1.75	5.71	ppb
Phosphorus	31-2	-129.63	-125.81	-132.52	-129.32		ppb
Potassium	39-2	1323.04	1348.07	1376.65	1349.25	1.99	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	0.83	0.46	0.09	0.46	79.78	ppb
Selenium	77-2	-0.25	-0.25	-0.07	-0.19		ppb
Selenium	78-2	-0.95	0.30	0.15	-0.17		ppb
Silicon	28-1	56.35	61.74	62.46	60.19	5.55	ppb
Silver	107-1	0.01	0.01	0.01	0.01	3.14	ppb
Silver	109-1	0.01	0.01	0.01	0.01	24.18	ppb
Sodium	23-2	146660.35	152001.54	150533.61	149731.83	1.84	ppb
Strontium	86-1	634.26	635.50	616.45	628.74	1.70	ppb
Strontium	88-1	622.04	616.88	614.00	617.64	0.66	ppb
Sulfur	34-1	-89.23	46.33	115.48	24.20	430.39	ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.04	0.03	0.04	0.04	19.15	ppb
Thallium	205-1	0.03	0.03	0.04	0.03	20.79	ppb
Tin	118-1	0.22	0.22	0.25	0.23	8.10	ppb
Titanium	47-1	0.79	0.78	0.75	0.77	2.66	ppb

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.01	0.00	0.01	85.78	ppb
Vanadium	51-2	0.11	0.09	0.09	0.10	7.32	ppb
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	105.47	109.52	109.50	108.16	2.16	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	11.40	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	18.57	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	25.73	25.08	26.44	25.75	2.65	ppb
Antimony	121-1	0.06	0.06	0.05	0.05	9.29	ppb
Arsenic	75-2	-0.02	-0.03	0.00	-0.02		ppb
Barium	135-1	2.60	2.57	2.41	2.53	4.08	ppb
Barium	137-1	2.55	2.51	2.43	2.50	2.35	ppb
Beryllium	9-1	0.01	-0.02	0.02	0.01	335.00	ppb
Bismuth	209-1				107		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	-0.10	0.05	-0.01		ppb
Cadmium	106-1	-0.02	0.15	-1.16	-0.34		ppb
Cadmium	111-1	0.01	0.02	-0.04	0.00		ppb
Calcium	43-1	809.57	835.81	809.54	818.31	1.85	ppb
Calcium	44-1	821.56	839.53	819.27	826.79	1.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.10	0.07	0.07	29.51	ppb
Cobalt	59-2	0.04	0.05	0.05	0.05	10.17	ppb
Copper	63-2	0.74	0.72	0.73	0.73	1.87	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				105		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	140.29	143.10	143.34	142.25	1.19	ppb
Iron	57-2	140.07	143.10	141.24	141.47	1.08	ppb
Iron	54-2	138.73	145.30	144.96	143.00	2.58	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.17	0.21	0.24	0.21	15.98	ppb
Lead	207-1	0.17	0.20	0.19	0.19	9.37	ppb
Lead	208-1	0.18	0.20	0.22	0.20	10.81	ppb
Lithium	6-1				103		%
Magnesium	24-2	45.26	46.23	45.94	45.81	1.09	ppb
Manganese	55-2	14.05	14.42	14.24	14.24	1.30	ppb
Molybdenum	94-1	0.10	0.09	0.08	0.09	8.26	ppb
Molybdenum	95-1	0.03	0.02	0.02	0.02	37.11	ppb
Molybdenum	96-1	0.03	0.03	0.02	0.02	28.06	ppb
Molybdenum	97-1	0.02	0.01	0.02	0.02	37.84	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.02	16.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.24	0.26	0.26	7.60	ppb
Phosphorus	31-2	-138.93	-128.65	-132.21	-133.26		ppb
Potassium	39-2	262.69	269.48	271.91	268.03	1.78	ppb
Rhodium	103-1				101		%
Rhodium	103-2				104		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	0.72	-0.24	0.31	0.26	185.75	ppb
Selenium	77-2	-0.07	-0.25	-0.06	-0.13		ppb
Selenium	78-2	1.66	-2.16	0.57	0.02	8070.01	ppb
Silicon	28-1	14.44	15.75	12.61	14.27	11.09	ppb
Silver	107-1	0.00	0.00	0.01	0.00	47.92	ppb
Silver	109-1	0.01	0.01	0.01	0.01	10.94	ppb
Sodium	23-2	29046.38	29466.74	30363.93	29625.68	2.27	ppb
Strontium	86-1	131.95	125.40	129.93	129.09	2.60	ppb
Strontium	88-1	123.86	123.52	124.16	123.84	0.26	ppb
Sulfur	34-1	-557.99	-477.80	-525.89	-520.56		ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.02	0.03	0.02	0.03	21.28	ppb
Thallium	205-1	0.03	0.04	0.02	0.03	29.35	ppb
Tin	118-1	0.00	0.02	0.01	0.01	109.32	ppb
Titanium	47-1	0.63	0.61	0.60	0.61	2.18	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	97.12	ppb
Vanadium	51-2	0.02	0.02	0.02	0.02	16.78	ppb
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	22.24	22.60	22.33	22.39	0.84	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	6.70	ppb
Zirconium	91-1	0.05	0.04	0.04	0.04	24.18	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1544.32	1562.82	1546.56	1551.23	0.65	ppb
Antimony	121-1	87.58	86.37	87.75	87.24	0.86	ppb
Arsenic	75-2	0.04	0.00	0.13	0.06	111.43	ppb
Barium	135-1	395.76	388.53	395.98	393.42	1.08	ppb
Barium	137-1	397.55	389.48	398.37	395.13	1.24	ppb
Beryllium	9-1	85.05	84.69	85.85	85.20	0.69	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	95.69	93.83	100.43	96.65	3.52	ppb
Cadmium	106-1	96.28	96.08	95.33	95.89	0.52	ppb
Cadmium	111-1	89.98	88.83	89.26	89.36	0.65	ppb
Calcium	43-1	12137.48	12381.29	12346.33	12288.37	1.07	ppb
Calcium	44-1	12756.86	13305.31	13225.39	13095.85	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	82.23	82.80	83.40	82.81	0.71	ppb
Cobalt	59-2	85.43	86.13	85.10	85.55	0.61	ppb
Copper	63-2	876.41	871.64	888.54	878.86	0.99	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				105		%
Indium	115-1				103		%
Indium	115-2				101		%
Iron	56-2	5286.06	5226.48	5248.95	5253.83	0.57	ppb
Iron	57-2	4895.44	4837.17	4938.51	4890.37	1.04	ppb
Iron	54-2	4883.67	4913.94	4915.50	4904.37	0.37	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	471.82	465.19	462.12	466.38	1.06	ppb
Lead	207-1	473.94	461.60	481.20	472.25	2.10	ppb
Lead	208-1	470.22	462.11	477.95	470.10	1.68	ppb
Lithium	6-1				104		%
Magnesium	24-2	9550.79	9446.87	9604.53	9534.06	0.84	ppb
Manganese	55-2	930.03	923.57	913.54	922.38	0.90	ppb
Molybdenum	94-1	910.28	939.55	924.07	924.63	1.58	ppb
Molybdenum	95-1	910.08	939.93	917.20	922.40	1.69	ppb
Molybdenum	96-1	902.48	934.79	925.84	921.04	1.81	ppb
Molybdenum	97-1	915.55	944.53	922.01	927.36	1.64	ppb
Molybdenum	98-1	895.26	937.61	931.16	921.34	2.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	94.62	94.92	94.42	94.65	0.27	ppb
Phosphorus	31-2	-138.81	-127.65	-130.33	-132.26		ppb
Potassium	39-2	5602.96	5637.64	5696.80	5645.80	0.84	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	94.77	97.19	96.78	96.25	1.35	ppb
Selenium	77-2	99.00	93.84	102.45	98.43	4.40	ppb
Selenium	78-2	92.04	91.57	95.35	92.99	2.21	ppb
Silicon	28-1	50.77	56.85	57.95	55.19	7.01	ppb
Silver	107-1	14.18	13.97	14.38	14.17	1.45	ppb
Silver	109-1	13.96	13.83	14.13	13.97	1.11	ppb
Sodium	23-2	150738.47	147863.22	151431.49	150011.06	1.26	ppb
Strontium	86-1	3103.07	3203.01	3174.61	3160.23	1.63	ppb
Strontium	88-1	3329.12	3497.87	3445.11	3424.04	2.52	ppb
Sulfur	34-1	125.04	114.50	151.93	130.49	14.79	ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	78.97	80.04	81.63	80.21	1.67	ppb
Thallium	205-1	79.06	79.07	81.13	79.75	1.49	ppb
Tin	118-1	79.66	78.94	80.56	79.72	1.02	ppb
Titanium	47-1	508.40	517.47	515.87	513.91	0.94	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	91.70	92.12	95.62	93.15	2.31	ppb
Vanadium	51-2	86.20	85.66	85.96	85.94	0.31	ppb
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	884.98	892.51	899.02	892.17	0.79	ppb
Zirconium	90-1	81.19	83.64	83.20	82.68	1.58	ppb
Zirconium	91-1	83.60	85.27	85.97	84.95	1.44	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1573.15	1556.72	1571.83	1567.23	0.58	ppb
Antimony	121-1	86.25	87.40	88.30	87.32	1.18	ppb
Arsenic	75-2	0.10	0.16	0.11	0.12	25.48	ppb
Barium	135-1	388.20	393.20	400.03	393.81	1.51	ppb
Barium	137-1	390.51	394.05	399.64	394.74	1.17	ppb
Beryllium	9-1	84.43	86.82	85.72	85.66	1.40	ppb
Bismuth	209-1				104		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	91.82	94.07	98.37	94.75	3.51	ppb
Cadmium	106-1	95.01	94.62	98.55	96.06	2.25	ppb
Cadmium	111-1	89.56	88.79	91.55	89.96	1.58	ppb
Calcium	43-1	12353.32	12232.56	12275.00	12286.96	0.50	ppb
Calcium	44-1	13112.89	12919.46	13046.96	13026.44	0.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	84.53	83.66	84.77	84.32	0.69	ppb
Cobalt	59-2	86.18	85.82	87.09	86.36	0.76	ppb
Copper	63-2	908.15	892.58	926.48	909.07	1.87	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				103		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	56-2	5378.92	5343.18	5711.45	5477.85	3.71	ppb
Iron	57-2	4936.38	4914.59	4987.33	4946.10	0.75	ppb
Iron	54-2	4961.34	4954.51	4988.65	4968.17	0.36	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	480.68	493.92	471.06	481.89	2.38	ppb
Lead	207-1	480.06	489.01	479.47	482.85	1.11	ppb
Lead	208-1	473.88	494.71	476.95	481.85	2.33	ppb
Lithium	6-1				105		%
Magnesium	24-2	9584.75	9634.70	9657.90	9625.78	0.39	ppb
Manganese	55-2	974.98	947.47	965.01	962.49	1.45	ppb
Molybdenum	94-1	938.04	926.79	936.81	933.88	0.66	ppb
Molybdenum	95-1	929.23	916.83	921.77	922.61	0.68	ppb
Molybdenum	96-1	948.24	925.35	913.19	928.93	1.92	ppb
Molybdenum	97-1	938.16	928.13	924.59	930.29	0.76	ppb
Molybdenum	98-1	932.08	916.67	925.84	924.86	0.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.06	96.69	96.85	96.87	0.20	ppb
Phosphorus	31-2	-132.95	-135.36	-128.49	-132.26		ppb
Potassium	39-2	5809.79	5783.36	5705.34	5766.16	0.94	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	97.29	95.71	94.11	95.70	1.66	ppb
Selenium	77-2	98.05	96.11	88.64	94.27	5.27	ppb
Selenium	78-2	96.50	98.71	92.14	95.78	3.49	ppb
Silicon	28-1	54.93	52.70	56.70	54.78	3.66	ppb
Silver	107-1	14.06	14.11	14.35	14.17	1.08	ppb
Silver	109-1	13.96	13.96	14.41	14.11	1.84	ppb
Sodium	23-2	150828.10	151137.97	153111.65	151692.57	0.82	ppb
Strontium	86-1	3159.44	3171.10	3129.05	3153.20	0.69	ppb
Strontium	88-1	3468.42	3461.76	3477.29	3469.16	0.22	ppb
Sulfur	34-1	176.33	168.64	166.58	170.52	3.01	ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	80.36	83.16	81.18	81.56	1.77	ppb
Thallium	205-1	80.69	83.17	81.21	81.69	1.61	ppb
Tin	118-1	78.19	78.87	79.85	78.97	1.06	ppb
Titanium	47-1	518.40	520.44	516.80	518.54	0.35	ppb

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	95.24	96.87	94.61	95.57	1.22	ppb
Vanadium	51-2	87.62	86.83	88.02	87.49	0.69	ppb
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	906.00	895.13	915.01	905.38	1.10	ppb
Zirconium	90-1	82.22	82.55	82.52	82.43	0.22	ppb
Zirconium	91-1	84.99	84.71	84.84	84.85	0.17	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1596.16	1583.89	1571.70	1583.92	0.77	ppb
Antimony	121-1	87.17	87.82	88.46	87.82	0.74	ppb
Arsenic	75-2	0.02	0.00	0.04	0.02	108.10	ppb
Barium	135-1	392.84	401.56	398.96	397.79	1.13	ppb
Barium	137-1	389.41	397.42	399.32	395.39	1.33	ppb
Beryllium	9-1	85.01	86.42	85.47	85.63	0.84	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	91.12	95.51	94.38	93.67	2.43	ppb
Cadmium	106-1	92.93	93.87	100.12	95.64	4.09	ppb
Cadmium	111-1	89.47	90.64	90.92	90.34	0.85	ppb
Calcium	43-1	12472.38	12447.10	12585.78	12501.76	0.59	ppb
Calcium	44-1	13094.62	13288.53	13510.76	13297.97	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	84.37	83.66	82.12	83.38	1.38	ppb
Cobalt	59-2	86.24	86.92	84.50	85.89	1.45	ppb
Copper	63-2	881.26	894.43	863.77	879.82	1.75	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				101		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	5385.54	5284.26	5198.74	5289.51	1.77	ppb
Iron	57-2	4902.40	4897.54	4808.66	4869.53	1.08	ppb
Iron	54-2	4898.70	4889.22	4833.02	4873.65	0.73	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	482.22	464.33	470.74	472.43	1.92	ppb
Lead	207-1	477.08	470.12	466.71	471.30	1.12	ppb
Lead	208-1	479.58	469.09	471.31	473.33	1.17	ppb
Lithium	6-1				102		%
Magnesium	24-2	9451.71	9629.38	9313.95	9465.01	1.67	ppb
Manganese	55-2	945.42	939.49	934.56	939.83	0.58	ppb
Molybdenum	94-1	395.70	402.05	407.18	401.64	1.43	ppb
Molybdenum	95-1	298.64	300.93	306.27	301.95	1.30	ppb
Molybdenum	96-1	311.75	313.70	318.22	314.56	1.05	ppb
Molybdenum	97-1	306.17	308.86	310.56	308.53	0.72	ppb
Molybdenum	98-1	342.73	339.25	342.68	341.55	0.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	96.14	94.28	94.78	95.07	1.02	ppb
Phosphorus	31-2	-125.82	-132.70	-126.18	-128.23		ppb
Potassium	39-2	5757.90	5762.84	5681.31	5734.02	0.80	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	96.96	96.51	98.82	97.43	1.26	ppb
Selenium	77-2	94.15	88.55	90.56	91.08	3.11	ppb
Selenium	78-2	92.27	91.54	91.18	91.66	0.61	ppb
Silicon	28-1	56.29	55.28	63.07	58.21	7.28	ppb
Silver	107-1	13.95	14.22	14.16	14.11	1.00	ppb
Silver	109-1	13.90	13.99	14.11	14.00	0.74	ppb
Sodium	23-2	151978.71	152306.95	148611.33	150965.66	1.35	ppb
Strontium	86-1	3162.15	3189.43	3228.77	3193.45	1.05	ppb
Strontium	88-1	3519.81	3467.84	3601.19	3529.61	1.90	ppb
Sulfur	34-1	281.31	273.39	255.68	270.13	4.86	ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	80.70	81.38	81.93	81.34	0.76	ppb
Thallium	205-1	81.27	81.20	82.12	81.53	0.63	ppb
Tin	118-1	78.65	80.39	79.81	79.61	1.11	ppb
Titanium	47-1	0.84	0.85	1.13	0.94	17.54	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	96.03	92.43	96.21	94.89	2.25	ppb
Vanadium	51-2	86.42	87.13	85.48	86.35	0.96	ppb
Yttrium	89-1				98		%
Yttrium	89-2				100		%
Zinc	66-2	899.76	897.76	883.02	893.51	1.02	ppb
Zirconium	90-1	82.89	83.34	85.11	83.78	1.40	ppb
Zirconium	91-1	84.60	85.65	86.41	85.55	1.06	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2854.34	2903.70	2849.05	2869.03	1.05	ppb
Antimony	121-1	0.26	0.25	0.29	0.27	6.78	ppb
Arsenic	75-2	1.98	1.96	2.30	2.08	9.08	ppb
Barium	135-1	57.69	58.81	59.32	58.60	1.42	ppb
Barium	137-1	57.41	57.97	59.20	58.19	1.57	ppb
Beryllium	9-1	1.39	1.52	1.52	1.48	4.98	ppb
Bismuth	209-1				113		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.32	0.44	0.48	0.42	20.07	ppb
Cadmium	106-1	0.50	0.81	1.12	0.81	38.68	ppb
Cadmium	111-1	0.05	0.08	0.10	0.08	36.36	ppb
Calcium	43-1	3981.77	4027.65	3982.11	3997.18	0.66	ppb
Calcium	44-1	4293.76	4393.59	4372.29	4353.21	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.69	24.82	24.60	24.70	0.44	ppb
Cobalt	59-2	4.35	4.34	4.27	4.32	1.06	ppb
Copper	63-2	18.36	18.52	18.04	18.31	1.33	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				113		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				108		%
Iron	56-2	6791.09	6819.79	6879.73	6830.20	0.66	ppb
Iron	57-2	6291.05	6358.80	6294.70	6314.85	0.60	ppb
Iron	54-2	6263.04	6344.35	6272.27	6293.22	0.71	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.63	8.83	8.90	8.79	1.58	ppb
Lead	207-1	7.73	7.69	8.01	7.81	2.23	ppb
Lead	208-1	8.06	8.19	8.37	8.21	1.87	ppb
Lithium	6-1				110		%
Magnesium	24-2	898.26	900.17	880.29	892.91	1.23	ppb
Manganese	55-2	81.52	82.59	81.64	81.92	0.72	ppb
Molybdenum	94-1	8.83	9.11	9.08	9.01	1.70	ppb
Molybdenum	95-1	4.62	4.84	4.64	4.70	2.61	ppb
Molybdenum	96-1	5.19	5.37	5.25	5.27	1.80	ppb
Molybdenum	97-1	4.73	4.84	4.99	4.85	2.60	ppb
Molybdenum	98-1	4.60	4.83	4.72	4.72	2.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.31	10.80	11.52	11.21	3.28	ppb
Phosphorus	31-2	68.79	77.06	68.26	71.37	6.91	ppb
Potassium	39-2	1476.01	1475.95	1459.63	1470.53	0.64	ppb
Rhodium	103-1				108		%
Rhodium	103-2				109		%
Scandium	45-1				111		%
Scandium	45-2				112		%
Selenium	82-1	1.58	1.67	1.22	1.49	16.16	ppb
Selenium	77-2	14.60	17.60	15.73	15.98	9.50	ppb
Selenium	78-2	1.36	1.66	2.41	1.81	29.84	ppb
Silicon	28-1	2680.06	2775.17	2693.49	2716.24	1.90	ppb
Silver	107-1	0.03	0.03	0.04	0.03	12.57	ppb
Silver	109-1	0.04	0.03	0.04	0.04	10.07	ppb
Sodium	23-2	15400.87	15430.17	15211.06	15347.37	0.78	ppb
Strontium	86-1	1211.46	1265.42	1258.11	1244.99	2.35	ppb
Strontium	88-1	1187.42	1240.36	1228.04	1218.61	2.27	ppb
Sulfur	34-1	3192.80	3184.28	3079.44	3152.17	2.00	ppb
Terbium	159-1				115		%
Terbium	159-2				112		%
Thallium	203-1	0.13	0.13	0.13	0.13	1.30	ppb
Thallium	205-1	0.14	0.14	0.14	0.14	0.82	ppb
Tin	118-1	0.53	0.57	0.55	0.55	3.79	ppb
Titanium	47-1	48.01	48.52	48.19	48.24	0.54	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.67	3.78	3.83	3.76	2.15	ppb
Vanadium	51-2	86.62	87.08	85.84	86.52	0.73	ppb
Yttrium	89-1				120		%
Yttrium	89-2				120		%
Zinc	66-2	25.04	25.67	24.33	25.01	2.67	ppb
Zirconium	90-1	2.81	2.91	2.86	2.86	1.90	ppb
Zirconium	91-1	2.99	3.03	2.92	2.98	1.89	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3282.03	3277.65	3262.77	3274.15	0.31	ppb
Antimony	121-1	0.27	0.26	0.27	0.26	2.12	ppb
Arsenic	75-2	2.19	2.17	2.14	2.16	1.14	ppb
Barium	135-1	63.62	60.94	61.47	62.01	2.29	ppb
Barium	137-1	62.56	61.46	61.59	61.87	0.97	ppb
Beryllium	9-1	1.43	1.61	1.50	1.51	6.14	ppb
Bismuth	209-1				112		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.48	0.39	0.23	0.37	35.06	ppb
Cadmium	106-1	1.28	0.62	1.12	1.01	34.54	ppb
Cadmium	111-1	0.10	0.06	0.10	0.09	24.20	ppb
Calcium	43-1	4066.70	4137.10	4235.72	4146.51	2.05	ppb
Calcium	44-1	4371.67	4414.20	4622.26	4469.38	3.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.79	27.02	27.10	27.30	1.55	ppb
Cobalt	59-2	4.42	4.49	4.42	4.44	0.93	ppb
Copper	63-2	18.92	18.68	18.53	18.71	1.07	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				112		%
Holmium	165-2				111		%
Indium	115-1				111		%
Indium	115-2				111		%
Iron	56-2	7505.92	7480.46	7611.45	7532.61	0.92	ppb
Iron	57-2	6977.16	6863.43	6860.63	6900.40	0.96	ppb
Iron	54-2	7496.22	7514.65	7319.14	7443.34	1.45	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.88	9.21	9.05	9.05	1.87	ppb
Lead	207-1	7.97	8.21	8.11	8.10	1.53	ppb
Lead	208-1	8.30	8.45	8.37	8.37	0.91	ppb
Lithium	6-1				107		%
Magnesium	24-2	924.03	931.31	916.63	923.99	0.79	ppb
Manganese	55-2	84.40	83.90	82.55	83.61	1.14	ppb
Molybdenum	94-1	8.68	8.73	8.79	8.73	0.58	ppb
Molybdenum	95-1	3.84	3.79	3.62	3.75	3.16	ppb
Molybdenum	96-1	4.32	4.42	4.33	4.36	1.35	ppb
Molybdenum	97-1	3.78	3.69	3.68	3.72	1.57	ppb
Molybdenum	98-1	3.71	3.72	3.68	3.70	0.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.84	11.77	11.67	11.76	0.72	ppb
Phosphorus	31-2	89.17	79.21	95.66	88.01	9.42	ppb
Potassium	39-2	1509.21	1505.70	1490.56	1501.82	0.66	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				112		%
Scandium	45-2				114		%
Selenium	82-1	1.87	0.84	1.76	1.49	37.84	ppb
Selenium	77-2	20.72	16.81	16.49	18.01	13.10	ppb
Selenium	78-2	-0.22	-0.19	-0.10	-0.17		ppb
Silicon	28-1	2886.38	2956.41	3006.33	2949.71	2.04	ppb
Silver	107-1	0.04	0.03	0.04	0.04	11.01	ppb
Silver	109-1	0.04	0.03	0.04	0.04	4.72	ppb
Sodium	23-2	15535.80	15640.74	15379.10	15518.55	0.85	ppb
Strontium	86-1	1282.47	1311.22	1287.97	1293.89	1.18	ppb
Strontium	88-1	1249.25	1257.99	1251.66	1252.97	0.36	ppb
Sulfur	34-1	2831.92	3111.67	3250.18	3064.59	6.95	ppb
Terbium	159-1				115		%
Terbium	159-2				113		%
Thallium	203-1	0.11	0.13	0.11	0.12	9.68	ppb
Thallium	205-1	0.11	0.13	0.12	0.12	5.96	ppb
Tin	118-1	0.52	0.49	0.55	0.52	6.02	ppb
Titanium	47-1	57.10	54.78	59.96	57.28	4.53	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.87	3.92	3.85	3.88	0.89	ppb
Vanadium	51-2	92.39	92.10	92.16	92.22	0.16	ppb
Yttrium	89-1				122		%
Yttrium	89-2				123		%
Zinc	66-2	26.06	25.55	25.11	25.58	1.85	ppb
Zirconium	90-1	3.17	3.18	3.15	3.17	0.42	ppb
Zirconium	91-1	3.27	3.35	3.34	3.32	1.21	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	613.36	620.60	609.49	614.48	0.92	ppb
Antimony	121-1	0.06	0.05	0.05	0.05	13.00	ppb
Arsenic	75-2	0.56	0.43	0.45	0.48	14.76	ppb
Barium	135-1	11.54	11.96	11.76	11.75	1.77	ppb
Barium	137-1	11.53	11.77	12.05	11.78	2.21	ppb
Beryllium	9-1	0.28	0.28	0.31	0.29	6.28	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.03	0.13	0.06	102.05	ppb
Cadmium	106-1	-0.10	-0.22	0.01	-0.10		ppb
Cadmium	111-1	0.00	-0.03	0.00	-0.01		ppb
Calcium	43-1	856.60	833.58	833.80	841.33	1.57	ppb
Calcium	44-1	827.83	824.88	821.84	824.85	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.03	5.15	5.11	5.10	1.22	ppb
Cobalt	59-2	0.88	0.86	0.86	0.87	1.06	ppb
Copper	63-2	3.87	3.87	3.80	3.85	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				106		%
Holmium	165-2				102		%
Indium	115-1				105		%
Indium	115-2				102		%
Iron	56-2	1419.66	1417.15	1417.14	1417.98	0.10	ppb
Iron	57-2	1315.64	1300.92	1302.42	1306.32	0.62	ppb
Iron	54-2	1324.41	1325.57	1315.59	1321.86	0.41	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.70	1.67	1.77	1.71	2.86	ppb
Lead	207-1	1.51	1.48	1.56	1.52	2.58	ppb
Lead	208-1	1.58	1.54	1.60	1.58	2.03	ppb
Lithium	6-1				101		%
Magnesium	24-2	180.06	181.70	181.41	181.06	0.48	ppb
Manganese	55-2	16.88	16.72	16.47	16.69	1.23	ppb
Molybdenum	94-1	1.73	1.83	1.88	1.81	4.24	ppb
Molybdenum	95-1	0.87	0.90	0.88	0.88	1.83	ppb
Molybdenum	96-1	1.06	0.97	1.04	1.02	4.37	ppb
Molybdenum	97-1	0.93	0.90	0.94	0.92	2.10	ppb
Molybdenum	98-1	0.85	0.87	0.86	0.86	1.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.31	2.39	2.23	2.31	3.35	ppb
Phosphorus	31-2	-86.42	-89.85	-87.62	-87.96		ppb
Potassium	39-2	295.39	301.78	296.15	297.77	1.17	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				101		%
Scandium	45-2				102		%
Selenium	82-1	0.23	-0.14	0.60	0.23	160.29	ppb
Selenium	77-2	3.49	3.13	2.30	2.98	20.48	ppb
Selenium	78-2	1.18	0.02	-0.67	0.18	525.50	ppb
Silicon	28-1	569.04	565.19	573.90	569.38	0.77	ppb
Silver	107-1	0.01	0.01	0.02	0.02	38.30	ppb
Silver	109-1	0.01	0.02	0.02	0.02	16.00	ppb
Sodium	23-2	3073.71	3147.23	3034.70	3085.21	1.85	ppb
Strontium	86-1	263.05	268.51	267.18	266.25	1.07	ppb
Strontium	88-1	258.21	257.51	260.91	258.88	0.69	ppb
Sulfur	34-1	-430.04	-400.68	-395.62	-408.78		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.03	0.04	0.03	0.03	14.17	ppb
Thallium	205-1	0.04	0.04	0.03	0.03	7.49	ppb
Tin	118-1	0.11	0.07	0.08	0.09	24.32	ppb
Titanium	47-1	10.13	10.84	10.39	10.45	3.41	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.75	0.71	0.73	0.73	2.18	ppb
Vanadium	51-2	17.75	17.76	17.37	17.63	1.28	ppb
Yttrium	89-1				106		%
Yttrium	89-2				104		%
Zinc	66-2	4.79	4.90	5.06	4.92	2.74	ppb
Zirconium	90-1	0.61	0.62	0.63	0.62	1.43	ppb
Zirconium	91-1	0.56	0.65	0.60	0.61	7.60	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11544.54	11792.15	11882.84	11739.84	1.49	ppb
Antimony	121-1	471.75	482.49	477.10	477.11	1.13	ppb
Arsenic	75-2	2.36	2.18	2.34	2.29	4.41	ppb
Barium	135-1	2217.27	2218.47	2244.90	2226.88	0.70	ppb
Barium	137-1	2117.70	2201.16	2234.55	2184.47	2.76	ppb
Beryllium	9-1	419.05	418.32	418.94	418.77	0.09	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	462.75	464.05	475.57	467.46	1.51	ppb
Cadmium	106-1	460.37	474.85	470.32	468.51	1.58	ppb
Cadmium	111-1	430.83	442.20	441.81	438.28	1.47	ppb
Calcium	43-1	43012.17	43342.71	44699.33	43684.74	2.05	ppb
Calcium	44-1	46233.35	46953.21	47959.71	47048.75	1.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	473.81	471.57	479.05	474.81	0.81	ppb
Cobalt	59-2	459.60	458.61	461.54	459.91	0.32	ppb
Copper	63-2	4201.15	4083.47	4149.63	4144.75	1.42	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				103		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	56-2	29502.35	29276.89	29126.41	29301.88	0.65	ppb
Iron	57-2	29878.12	28083.56	29215.87	29059.18	3.12	ppb
Iron	54-2	29251.07	29042.38	29582.35	29291.93	0.93	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2343.55	2394.43	2397.64	2378.54	1.28	ppb
Lead	207-1	2340.78	2370.60	2375.88	2362.42	0.80	ppb
Lead	208-1	2339.41	2376.83	2375.30	2363.84	0.90	ppb
Lithium	6-1				103		%
Magnesium	24-2	45070.69	45481.41	45559.58	45370.56	0.58	ppb
Manganese	55-2	4236.30	4264.68	4234.81	4245.26	0.40	ppb
Molybdenum	94-1	3996.14	3992.12	4163.56	4050.61	2.42	ppb
Molybdenum	95-1	3984.85	4008.52	4115.91	4036.43	1.73	ppb
Molybdenum	96-1	4046.73	4102.02	4152.55	4100.43	1.29	ppb
Molybdenum	97-1	3995.60	4067.60	4180.71	4081.31	2.29	ppb
Molybdenum	98-1	4019.13	4026.57	4135.99	4060.56	1.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	454.83	451.37	460.22	455.47	0.98	ppb
Phosphorus	31-2	114.14	90.60	102.94	102.56	11.48	ppb
Potassium	39-2	21606.35	21548.58	21880.33	21678.42	0.82	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	413.84	419.12	428.38	420.45	1.75	ppb
Selenium	77-2	427.63	444.76	444.26	438.89	2.22	ppb
Selenium	78-2	423.70	415.24	407.68	415.54	1.93	ppb
Silicon	28-1	2617.18	2685.21	2741.55	2681.31	2.32	ppb
Silver	107-1	63.20	64.63	64.73	64.19	1.33	ppb
Silver	109-1	62.60	63.46	63.95	63.33	1.08	ppb
Sodium	23-2	59227.19	59453.38	59775.81	59485.46	0.46	ppb
Strontium	86-1	13832.49	13826.24	12836.90	13498.55	4.24	ppb
Strontium	88-1	13657.37	13784.53	13918.46	13786.78	0.95	ppb
Sulfur	34-1	3510.69	3567.57	3852.38	3643.54	5.02	ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	461.18	474.03	471.08	468.76	1.44	ppb
Thallium	205-1	460.87	468.81	464.19	464.62	0.86	ppb
Tin	118-1	423.53	443.66	437.18	434.79	2.36	ppb
Titanium	47-1	2739.00	2730.42	2818.58	2762.67	1.76	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	452.38	465.78	466.27	461.48	1.71	ppb
Vanadium	51-2	570.78	555.82	583.77	570.12	2.45	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	4175.75	4120.12	4187.19	4161.02	0.86	ppb
Zirconium	90-1	401.65	402.61	418.92	407.73	2.38	ppb
Zirconium	91-1	369.73	373.45	387.02	376.73	2.42	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50861.57	50930.23	50667.11	50819.64	0.27	ppb
Antimony	121-1	486.61	497.65	504.75	496.33	1.84	ppb
Arsenic	75-2	486.93	481.89	474.29	481.04	1.32	ppb
Barium	135-1	2519.77	2546.77	2554.93	2540.49	0.72	ppb
Barium	137-1	2506.86	2519.94	2548.26	2525.02	0.84	ppb
Beryllium	9-1	479.55	487.76	491.31	486.21	1.24	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	480.94	484.62	488.45	484.67	0.78	ppb
Cadmium	106-1	474.64	485.25	497.04	485.64	2.31	ppb
Cadmium	111-1	448.35	454.00	455.96	452.77	0.87	ppb
Calcium	43-1	249238.76	249882.21	246859.94	248660.30	0.64	ppb
Calcium	44-1	247820.53	250403.93	246643.54	248289.33	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.61	496.13	500.20	497.65	0.45	ppb
Cobalt	59-2	504.26	495.37	486.69	495.44	1.77	ppb
Copper	63-2	5122.54	5156.56	5127.31	5135.47	0.36	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				99		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	56-2	132924.30	133379.25	126934.61	131079.39	2.74	ppb
Iron	57-2	131844.49	129612.80	131265.32	130907.54	0.88	ppb
Iron	54-2	130005.82	129900.77	131695.95	130534.18	0.77	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2539.51	2625.03	2540.54	2568.36	1.91	ppb
Lead	207-1	2498.12	2586.37	2546.60	2543.70	1.74	ppb
Lead	208-1	2523.27	2580.50	2539.44	2547.74	1.16	ppb
Lithium	6-1				103		%
Magnesium	24-2	251507.77	253042.40	253116.04	252555.40	0.36	ppb
Manganese	55-2	5036.91	5054.33	4979.68	5023.64	0.78	ppb
Molybdenum	94-1	4966.69	5056.28	5013.70	5012.22	0.89	ppb
Molybdenum	95-1	4920.89	5049.42	5044.80	5005.04	1.46	ppb
Molybdenum	96-1	4992.67	5095.74	5033.12	5040.51	1.03	ppb
Molybdenum	97-1	5003.18	5046.07	4971.73	5006.99	0.75	ppb
Molybdenum	98-1	5036.40	5076.64	4982.59	5031.88	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	514.84	513.80	513.02	513.89	0.18	ppb
Phosphorus	31-2	10134.77	9990.20	10228.25	10117.74	1.19	ppb
Potassium	39-2	126262.85	124886.60	126248.07	125799.17	0.63	ppb
Rhodium	103-1				90		%
Rhodium	103-2				94		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	475.37	477.93	475.02	476.10	0.33	ppb
Selenium	77-2	487.16	469.25	470.42	475.61	2.11	ppb
Selenium	78-2	475.71	460.52	459.42	465.21	1.96	ppb
Silicon	28-1	367.76	378.93	375.56	374.08	1.53	ppb
Silver	107-1	447.70	453.72	459.30	453.58	1.28	ppb
Silver	109-1	448.54	454.03	464.20	455.59	1.74	ppb
Sodium	23-2	253417.91	252369.43	253704.19	253163.84	0.28	ppb
Strontium	86-1	11422.31	11524.83	11391.69	11446.28	0.61	ppb
Strontium	88-1	12387.46	12593.11	12576.07	12518.88	0.91	ppb
Sulfur	34-1	10120.96	10062.52	10010.96	10064.81	0.55	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	522.25	530.38	517.04	523.22	1.29	ppb
Thallium	205-1	513.05	521.87	505.20	513.37	1.62	ppb
Tin	118-1	501.51	501.52	511.82	504.95	1.18	ppb
Titanium	47-1	5090.40	5025.29	4984.02	5033.24	1.07	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	519.08	531.36	521.66	524.03	1.24	ppb
Vanadium	51-2	506.54	515.28	511.08	510.97	0.86	ppb
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	4933.92	4882.86	5042.13	4952.97	1.64	ppb
Zirconium	90-1	498.25	508.95	501.84	503.01	1.08	ppb
Zirconium	91-1	455.53	463.50	461.11	460.05	0.89	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.62	3.07	3.07	2.92	8.82	ppb
Antimony	121-1	0.02	0.03	0.04	0.03	39.69	ppb
Arsenic	75-2	-0.06	-0.06	-0.02	-0.05		ppb
Barium	135-1	0.00	-0.02	0.02	0.00	3353.73	ppb
Barium	137-1	0.02	0.00	0.00	0.01	96.11	ppb
Beryllium	9-1	0.06	0.05	0.03	0.05	34.65	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.10	0.04	-0.04	-0.04		ppb
Cadmium	106-1	-1.07	-0.89	-0.65	-0.87		ppb
Cadmium	111-1	-0.06	-0.07	-0.02	-0.05		ppb
Calcium	43-1	-3.13	-6.99	-7.35	-5.82		ppb
Calcium	44-1	-3.40	-2.78	-1.79	-2.66		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	-0.01	-0.01	-0.02		ppb
Copper	63-2	0.06	0.13	0.13	0.11	39.96	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				101		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	-0.49	-0.39	-0.01	-0.30		ppb
Iron	57-2	-4.61	-2.05	-3.34	-3.33		ppb
Iron	54-2	-0.12	0.82	1.53	0.74	110.96	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.04	-0.05	-0.01	-0.03		ppb
Lead	207-1	-0.05	-0.01	-0.04	-0.03		ppb
Lead	208-1	-0.04	-0.02	-0.02	-0.03		ppb
Lithium	6-1				99		%
Magnesium	24-2	0.42	0.44	0.51	0.46	10.53	ppb
Manganese	55-2	-0.01	-0.01	-0.04	-0.02		ppb
Molybdenum	94-1	0.05	0.03	0.05	0.05	22.66	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	19.88	ppb
Molybdenum	96-1	0.02	0.03	0.03	0.02	21.18	ppb
Molybdenum	97-1	0.06	0.03	0.03	0.04	38.97	ppb
Molybdenum	98-1	0.03	0.02	0.03	0.03	9.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.02	0.00	0.01	120.56	ppb
Phosphorus	31-2	-125.78	-128.01	-130.97	-128.26		ppb
Potassium	39-2	0.09	2.72	3.79	2.20	86.62	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				95		%
Scandium	45-2				96		%
Selenium	82-1	-0.79	-0.03	-0.19	-0.33		ppb
Selenium	77-2	-0.25	-0.25	-0.06	-0.18		ppb
Selenium	78-2	-1.77	-2.05	0.04	-1.26		ppb
Silicon	28-1	-9.09	-4.82	0.26	-4.55		ppb
Silver	107-1	0.01	0.01	0.01	0.01	24.82	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.81	ppb
Sodium	23-2	16.50	16.89	18.23	17.21	5.27	ppb
Strontium	86-1	0.15	0.93	0.15	0.41	110.42	ppb
Strontium	88-1	-0.02	0.11	0.05	0.04	152.78	ppb
Sulfur	34-1	-778.81	-629.45	-547.06	-651.77		ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.04	0.04	0.01	0.03	51.03	ppb
Thallium	205-1	0.03	0.04	0.03	0.03	14.51	ppb
Tin	118-1	-0.05	-0.04	-0.04	-0.04		ppb
Titanium	47-1	0.01	0.01	0.02	0.01	34.05	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	231.73	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	-0.06	0.05	-0.10	-0.04		ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	76.85	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	45.13	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11931.69	11699.55	11502.24	11711.16	1.84	ppb
Antimony	121-1	487.40	485.50	484.96	485.95	0.26	ppb
Arsenic	75-2	2.41	2.33	2.36	2.37	1.67	ppb
Barium	135-1	2239.53	2215.80	2221.68	2225.67	0.56	ppb
Barium	137-1	2192.19	2180.44	2224.65	2199.10	1.04	ppb
Beryllium	9-1	418.49	418.22	429.90	422.20	1.58	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	466.19	468.30	474.44	469.64	0.91	ppb
Cadmium	106-1	473.07	468.23	473.40	471.57	0.61	ppb
Cadmium	111-1	438.53	435.96	439.62	438.04	0.43	ppb
Calcium	43-1	45236.38	45102.11	44752.26	45030.25	0.56	ppb
Calcium	44-1	48197.14	47670.53	48251.32	48039.66	0.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	469.49	475.19	484.32	476.33	1.57	ppb
Cobalt	59-2	461.38	464.54	455.51	460.48	0.99	ppb
Copper	63-2	4107.58	4136.38	4117.67	4120.54	0.35	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				104		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	28896.95	29021.45	29124.64	29014.34	0.39	ppb
Iron	57-2	28804.01	28592.41	28308.67	28568.37	0.87	ppb
Iron	54-2	29234.71	28740.29	29092.50	29022.50	0.88	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2407.22	2432.51	2362.63	2400.78	1.47	ppb
Lead	207-1	2405.41	2442.07	2402.87	2416.78	0.91	ppb
Lead	208-1	2405.81	2422.88	2389.38	2406.02	0.70	ppb
Lithium	6-1				102		%
Magnesium	24-2	45646.95	44505.96	45385.46	45179.45	1.32	ppb
Manganese	55-2	4214.92	4205.82	4225.14	4215.29	0.23	ppb
Molybdenum	94-1	4080.27	4168.52	4127.76	4125.52	1.07	ppb
Molybdenum	95-1	4120.22	4069.71	4098.01	4095.98	0.62	ppb
Molybdenum	96-1	4108.76	4114.19	4089.68	4104.21	0.31	ppb
Molybdenum	97-1	4169.81	4200.26	4121.25	4163.77	0.96	ppb
Molybdenum	98-1	4111.15	4113.59	4104.45	4109.73	0.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	454.27	455.66	454.04	454.65	0.19	ppb
Phosphorus	31-2	97.00	105.26	104.85	102.37	4.55	ppb
Potassium	39-2	21979.79	21576.55	21834.65	21796.99	0.94	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				106		%
Selenium	82-1	420.93	414.31	414.06	416.43	0.94	ppb
Selenium	77-2	423.88	454.98	448.23	442.37	3.70	ppb
Selenium	78-2	410.34	433.75	421.82	421.97	2.77	ppb
Silicon	28-1	2829.52	2778.68	2754.56	2787.59	1.37	ppb
Silver	107-1	60.90	59.92	61.02	60.62	1.00	ppb
Silver	109-1	60.42	60.08	59.90	60.13	0.44	ppb
Sodium	23-2	60100.98	59713.39	58629.88	59481.42	1.28	ppb
Strontium	86-1	12647.85	14150.41	14333.16	13710.47	6.75	ppb
Strontium	88-1	14000.63	13888.81	13870.53	13919.99	0.51	ppb
Sulfur	34-1	3639.08	3538.08	3662.98	3613.38	1.83	ppb
Terbium	159-1				106		%
Terbium	159-2				107		%
Thallium	203-1	468.63	474.50	475.35	472.83	0.77	ppb
Thallium	205-1	467.61	467.65	469.86	468.38	0.27	ppb
Tin	118-1	439.28	427.22	438.32	434.94	1.54	ppb
Titanium	47-1	2855.88	2802.78	2820.16	2826.28	0.96	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	474.73	468.94	473.28	472.32	0.64	ppb
Vanadium	51-2	574.01	568.33	562.31	568.21	1.03	ppb
Yttrium	89-1				112		%
Yttrium	89-2				113		%
Zinc	66-2	4127.71	4107.55	4143.19	4126.15	0.43	ppb
Zirconium	90-1	419.67	419.21	414.47	417.78	0.69	ppb
Zirconium	91-1	384.61	382.43	381.93	382.99	0.37	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11387.27	11521.24	11607.58	11505.36	0.96	ppb
Antimony	121-1	489.56	481.89	481.67	484.37	0.93	ppb
Arsenic	75-2	2.48	2.28	2.40	2.39	4.32	ppb
Barium	135-1	2257.70	2222.95	2251.19	2243.95	0.82	ppb
Barium	137-1	2207.49	2212.00	2193.81	2204.43	0.43	ppb
Beryllium	9-1	426.51	421.09	425.40	424.33	0.67	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	477.51	470.54	463.14	470.40	1.53	ppb
Cadmium	106-1	472.88	468.56	466.89	469.44	0.66	ppb
Cadmium	111-1	443.30	443.82	441.18	442.77	0.32	ppb
Calcium	43-1	44952.21	44489.04	44898.43	44779.89	0.57	ppb
Calcium	44-1	47800.44	48071.35	48251.64	48041.14	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	471.33	467.51	474.55	471.13	0.75	ppb
Cobalt	59-2	459.07	453.21	453.14	455.14	0.75	ppb
Copper	63-2	4143.59	4165.54	4195.57	4168.23	0.63	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				106		%
Holmium	165-2				105		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	29051.79	28561.07	28595.40	28736.08	0.95	ppb
Iron	57-2	28835.88	28192.46	28850.41	28626.25	1.31	ppb
Iron	54-2	28948.50	28967.76	28942.17	28952.81	0.05	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2475.45	2385.81	2387.52	2416.26	2.12	ppb
Lead	207-1	2438.01	2416.55	2413.18	2422.58	0.56	ppb
Lead	208-1	2445.77	2409.87	2396.82	2417.49	1.05	ppb
Lithium	6-1				103		%
Magnesium	24-2	44186.15	44379.84	44583.32	44383.11	0.45	ppb
Manganese	55-2	4221.09	4212.74	4120.69	4184.84	1.33	ppb
Molybdenum	94-1	4097.19	4126.46	4076.39	4100.01	0.61	ppb
Molybdenum	95-1	4078.15	4077.73	4059.19	4071.69	0.27	ppb
Molybdenum	96-1	4088.24	4120.69	4060.78	4089.90	0.73	ppb
Molybdenum	97-1	4089.89	4172.86	4095.04	4119.26	1.13	ppb
Molybdenum	98-1	4065.07	4096.14	4067.60	4076.27	0.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	453.33	455.64	457.57	455.51	0.47	ppb
Phosphorus	31-2	113.25	77.26	101.83	97.45	18.87	ppb
Potassium	39-2	21510.68	21258.56	22077.49	21615.58	1.94	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				103		%
Scandium	45-2				106		%
Selenium	82-1	421.38	426.31	421.86	423.19	0.64	ppb
Selenium	77-2	427.64	435.20	445.89	436.24	2.10	ppb
Selenium	78-2	418.61	412.84	418.15	416.53	0.77	ppb
Silicon	28-1	2777.49	2760.70	2767.60	2768.60	0.30	ppb
Silver	107-1	65.27	65.10	64.79	65.05	0.37	ppb
Silver	109-1	64.72	64.07	64.45	64.41	0.50	ppb
Sodium	23-2	58659.64	59127.18	59300.95	59029.26	0.56	ppb
Strontium	86-1	13871.34	14461.59	14333.68	14222.20	2.18	ppb
Strontium	88-1	13824.42	13811.22	13816.85	13817.50	0.05	ppb
Sulfur	34-1	3437.20	3360.37	3522.38	3439.98	2.36	ppb
Terbium	159-1				106		%
Terbium	159-2				107		%
Thallium	203-1	476.47	465.91	469.51	470.63	1.14	ppb
Thallium	205-1	471.58	463.61	464.24	466.47	0.95	ppb
Tin	118-1	439.15	441.07	434.31	438.18	0.79	ppb
Titanium	47-1	2713.16	2778.18	2804.79	2765.37	1.70	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	473.66	477.18	472.92	474.59	0.48	ppb
Vanadium	51-2	554.57	564.42	580.73	566.57	2.33	ppb
Yttrium	89-1				113		%
Yttrium	89-2				114		%
Zinc	66-2	4183.96	4183.16	4289.43	4218.85	1.45	ppb
Zirconium	90-1	417.70	418.62	417.18	417.83	0.17	ppb
Zirconium	91-1	382.20	382.14	380.97	381.77	0.18	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	204.22	201.23	199.80	201.75	1.12	ppb
Antimony	121-1	11.81	12.15	12.09	12.02	1.51	ppb
Arsenic	75-2	98.74	99.03	104.02	100.60	2.95	ppb
Barium	135-1	39.72	40.07	40.54	40.11	1.02	ppb
Barium	137-1	39.17	40.20	39.83	39.73	1.31	ppb
Beryllium	9-1	0.04	0.10	0.15	0.10	57.44	ppb
Bismuth	209-1				48		%
Bismuth	209-2				46		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	137.92	134.65	137.15	136.57	1.25	ppb
Cadmium	106-1	0.15	-0.71	-1.10	-0.55		ppb
Cadmium	111-1	4.60	4.95	4.71	4.75	3.70	ppb
Calcium	43-1	3336.09	3033.18	2944.55	3104.61	6.61	ppb
Calcium	44-1	3794.22	3416.83	3348.94	3520.00	6.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.91	7.04	7.08	7.01	1.24	ppb
Cobalt	59-2	0.40	0.41	0.42	0.41	3.36	ppb
Copper	63-2	108.33	105.59	105.07	106.33	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				54		%
Holmium	165-2				55		%
Indium	115-1				53		%
Indium	115-2				47		%
Iron	56-2	283.47	279.07	280.07	280.87	0.82	ppb
Iron	57-2	305.17	293.90	339.32	312.80	7.56	ppb
Iron	54-2	299.63	290.39	293.00	294.34	1.62	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.81	2.92	2.98	2.90	2.97	ppb
Lead	207-1	2.79	2.86	2.81	2.82	1.31	ppb
Lead	208-1	2.84	2.92	2.93	2.90	1.80	ppb
Lithium	6-1				55		%
Magnesium	24-2	962.50	951.75	964.95	959.73	0.73	ppb
Manganese	55-2	43.32	42.84	43.15	43.10	0.56	ppb
Molybdenum	94-1	32732.42	32677.12	32669.70	32693.08	0.10	ppb
Molybdenum	95-1	40166.17	39526.80	40172.69	39955.22	0.93	ppb
Molybdenum	96-1	39349.68	38931.91	39352.18	39211.26	0.62	ppb
Molybdenum	97-1	40233.61	40165.21	40103.44	40167.42	0.16	ppb
Molybdenum	98-1	39840.38	39856.15	40145.55	39947.36	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	0.96	1.15	1.05	8.84	ppb
Phosphorus	31-2	1717.21	1579.44	1593.41	1630.02	4.65	ppb
Potassium	39-2	1035460.14	1020230.10	1011608.15	1022432.79	1.18	ppb
Rhodium	103-1				50		%
Rhodium	103-2				46		%
Scandium	45-1				49		%
Scandium	45-2				52		%
Selenium	82-1	108.50	146.33	164.89	139.90	20.54	ppb
Selenium	77-2	170.10	172.07	193.76	178.64	7.35	ppb
Selenium	78-2	204.70	213.05	211.33	209.69	2.10	ppb
Silicon	28-1	2809.78	2700.59	2776.47	2762.28	2.03	ppb
Silver	107-1	0.07	0.08	0.08	0.08	12.35	ppb
Silver	109-1	0.09	0.10	0.09	0.09	7.44	ppb
Sodium	23-2	580268.23	570494.32	589860.39	580207.65	1.67	ppb
Strontium	86-1	565.53	561.34	559.82	562.23	0.53	ppb
Strontium	88-1	550.89	546.31	544.49	547.23	0.60	ppb
Sulfur	34-1	9159.15	7632.07	7104.35	7965.19	13.40	ppb
Terbium	159-1				56		%
Terbium	159-2				55		%
Thallium	203-1	1.31	1.35	1.37	1.34	2.05	ppb
Thallium	205-1	1.30	1.29	1.29	1.29	0.24	ppb
Tin	118-1	1.37	1.48	1.50	1.45	4.97	ppb
Titanium	47-1	3.64	3.50	3.37	3.50	3.76	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.01	0.02	32.31	ppb
Vanadium	51-2	1.32	1.29	1.28	1.30	1.81	ppb
Yttrium	89-1				52		%
Yttrium	89-2				47		%
Zinc	66-2	148.56	143.65	142.44	144.88	2.24	ppb
Zirconium	90-1	0.16	0.17	0.18	0.17	7.28	ppb
Zirconium	91-1	0.23	0.17	0.19	0.20	16.62	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33.05	32.42	34.15	33.21	2.63	ppb
Antimony	121-1	1.90	1.88	1.84	1.88	1.51	ppb
Arsenic	75-2	13.53	14.20	13.48	13.74	2.94	ppb
Barium	135-1	6.30	6.27	6.13	6.23	1.48	ppb
Barium	137-1	6.31	6.47	6.34	6.37	1.31	ppb
Beryllium	9-1	0.07	0.02	0.02	0.04	65.33	ppb
Bismuth	209-1				83		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	21.76	20.77	21.88	21.47	2.85	ppb
Cadmium	106-1	-1.11	-1.88	-1.14	-1.38		ppb
Cadmium	111-1	0.80	0.72	0.57	0.70	16.54	ppb
Calcium	43-1	466.72	457.04	471.72	465.16	1.61	ppb
Calcium	44-1	505.21	519.54	516.39	513.71	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.09	1.04	1.20	1.11	7.15	ppb
Cobalt	59-2	0.06	0.05	0.04	0.05	17.17	ppb
Copper	63-2	17.22	17.06	17.10	17.13	0.48	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				82		%
Holmium	165-2				81		%
Indium	115-1				81		%
Indium	115-2				71		%
Iron	56-2	44.85	44.61	44.85	44.77	0.30	ppb
Iron	57-2	43.08	45.83	50.56	46.49	8.13	ppb
Iron	54-2	47.64	49.31	47.65	48.20	2.00	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.39	0.36	0.36	0.37	4.44	ppb
Lead	207-1	0.30	0.36	0.32	0.33	10.17	ppb
Lead	208-1	0.36	0.38	0.38	0.37	3.31	ppb
Lithium	6-1				81		%
Magnesium	24-2	150.69	154.01	150.51	151.74	1.30	ppb
Manganese	55-2	6.65	7.04	6.69	6.79	3.19	ppb
Molybdenum	94-1	5095.45	5088.13	5197.81	5127.13	1.20	ppb
Molybdenum	95-1	6271.14	6221.45	6351.03	6281.21	1.04	ppb
Molybdenum	96-1	6257.65	6175.88	6315.19	6249.58	1.12	ppb
Molybdenum	97-1	6384.94	6341.93	6446.51	6391.12	0.82	ppb
Molybdenum	98-1	6302.38	6322.81	6421.82	6349.00	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.35	0.36	0.27	0.33	15.59	ppb
Phosphorus	31-2	112.11	125.12	132.13	123.12	8.25	ppb
Potassium	39-2	163393.84	165413.94	165242.92	164683.57	0.68	ppb
Rhodium	103-1				77		%
Rhodium	103-2				79		%
Scandium	45-1				77		%
Scandium	45-2				78		%
Selenium	82-1	22.01	23.80	25.36	23.73	7.06	ppb
Selenium	77-2	23.98	27.15	22.93	24.69	8.91	ppb
Selenium	78-2	29.73	30.51	26.97	29.07	6.39	ppb
Silicon	28-1	342.44	360.12	367.35	356.64	3.59	ppb
Silver	107-1	0.02	0.01	0.01	0.01	8.91	ppb
Silver	109-1	0.01	0.02	0.02	0.02	19.13	ppb
Sodium	23-2	91618.17	89858.51	92169.81	91215.50	1.32	ppb
Strontium	86-1	88.32	91.94	92.60	90.95	2.54	ppb
Strontium	88-1	84.83	85.51	87.66	86.00	1.72	ppb
Sulfur	34-1	350.76	527.42	437.92	438.70	20.13	ppb
Terbium	159-1				83		%
Terbium	159-2				82		%
Thallium	203-1	0.15	0.13	0.15	0.14	6.59	ppb
Thallium	205-1	0.14	0.15	0.17	0.15	8.06	ppb
Tin	118-1	0.22	0.17	0.17	0.19	15.98	ppb
Titanium	47-1	0.53	0.45	0.51	0.50	8.98	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.24	0.23	0.26	0.24	6.62	ppb
Yttrium	89-1				78		%
Yttrium	89-2				78		%
Zinc	66-2	23.78	24.09	23.83	23.90	0.71	ppb
Zirconium	90-1	0.02	0.03	0.03	0.03	9.64	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	12.93	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50633.83	51197.59	51179.75	51003.72	0.63	ppb
Antimony	121-1	502.84	509.16	521.55	511.18	1.86	ppb
Arsenic	75-2	499.00	495.74	499.19	497.98	0.39	ppb
Barium	135-1	2530.22	2595.42	2573.75	2566.46	1.29	ppb
Barium	137-1	2498.07	2572.46	2531.39	2533.97	1.47	ppb
Beryllium	9-1	451.79	457.79	462.75	457.44	1.20	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	520.17	532.34	536.58	529.70	1.61	ppb
Cadmium	106-1	530.65	527.56	529.29	529.17	0.29	ppb
Cadmium	111-1	489.92	496.73	496.72	494.46	0.79	ppb
Calcium	43-1	245703.06	251153.99	253498.20	250118.42	1.60	ppb
Calcium	44-1	243922.81	249034.19	247403.92	246786.97	1.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.08	506.02	499.83	500.64	1.00	ppb
Cobalt	59-2	502.87	487.55	507.46	499.30	2.09	ppb
Copper	63-2	5098.66	5147.44	5177.71	5141.27	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				103		%
Holmium	165-2				101		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	56-2	130880.92	132919.48	130432.13	131410.84	1.01	ppb
Iron	57-2	129232.00	129779.70	129521.43	129511.04	0.21	ppb
Iron	54-2	128851.76	128801.02	129889.40	129180.73	0.48	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2542.31	2652.43	2532.79	2575.84	2.58	ppb
Lead	207-1	2542.35	2656.36	2553.64	2584.12	2.43	ppb
Lead	208-1	2531.52	2652.02	2524.90	2569.48	2.78	ppb
Lithium	6-1				99		%
Magnesium	24-2	256569.97	249422.18	256467.22	254153.12	1.61	ppb
Manganese	55-2	5006.98	5020.86	4921.18	4983.01	1.08	ppb
Molybdenum	94-1	4988.79	5205.44	5004.98	5066.40	2.38	ppb
Molybdenum	95-1	4938.17	5157.28	4954.12	5016.52	2.44	ppb
Molybdenum	96-1	5034.05	5207.46	5002.34	5081.28	2.17	ppb
Molybdenum	97-1	5030.45	5065.94	5063.28	5053.23	0.39	ppb
Molybdenum	98-1	4990.30	5100.38	4981.14	5023.94	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	491.91	487.05	490.72	489.89	0.52	ppb
Phosphorus	31-2	10170.75	10087.62	10222.38	10160.25	0.67	ppb
Potassium	39-2	125332.16	125108.58	127234.04	125891.59	0.93	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				98		%
Scandium	45-2				102		%
Selenium	82-1	480.49	480.26	473.13	477.96	0.88	ppb
Selenium	77-2	488.59	480.45	464.24	477.76	2.59	ppb
Selenium	78-2	480.54	482.31	491.41	484.75	1.20	ppb
Silicon	28-1	507.87	526.06	528.06	520.66	2.14	ppb
Silver	107-1	664.02	327.08	416.22	469.11	37.22	ppb
Silver	109-1	708.74	1005.21	169.70	627.88	67.46	ppb
Sodium	23-2	251673.24	246619.14	250985.47	249759.28	1.10	ppb
Strontium	86-1	11420.09	11559.06	11322.54	11433.90	1.04	ppb
Strontium	88-1	12502.33	12502.16	12429.09	12477.86	0.34	ppb
Sulfur	34-1	9820.17	9955.57	9845.82	9873.85	0.73	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	515.39	535.94	519.78	523.70	2.07	ppb
Thallium	205-1	511.03	538.87	513.18	521.03	2.97	ppb
Tin	118-1	514.49	516.20	518.37	516.35	0.38	ppb
Titanium	47-1	4965.81	5121.81	5025.68	5037.76	1.56	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	511.08	532.28	522.84	522.06	2.03	ppb
Vanadium	51-2	519.40	505.63	516.57	513.87	1.41	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	4991.29	4971.46	5104.79	5022.51	1.43	ppb
Zirconium	90-1	505.10	503.76	498.73	502.53	0.67	ppb
Zirconium	91-1	512.49	469.85	495.74	492.69	4.36	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.66	2.64	2.96	2.76	6.50	ppb
Antimony	121-1	0.03	0.05	0.04	0.04	19.97	ppb
Arsenic	75-2	-0.01	0.00	0.02	0.01	226.87	ppb
Barium	135-1	0.01	0.03	0.01	0.02	44.05	ppb
Barium	137-1	0.02	0.01	0.01	0.01	19.51	ppb
Beryllium	9-1	0.01	0.03	0.07	0.04	86.23	ppb
Bismuth	209-1				102		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	-0.05	0.03	0.01	708.86	ppb
Cadmium	106-1	0.35	-1.17	0.72	-0.03		ppb
Cadmium	111-1	0.05	-0.04	0.06	0.02	262.93	ppb
Calcium	43-1	-4.31	-8.31	-3.46	-5.36		ppb
Calcium	44-1	0.72	-0.14	-1.51	-0.31		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.01	0.03	0.01	346.68	ppb
Cobalt	59-2	-0.02	0.00	-0.02	-0.01		ppb
Copper	63-2	0.16	0.05	0.09	0.10	55.15	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				101		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				102		%
Iron	56-2	0.45	0.72	0.66	0.61	23.60	ppb
Iron	57-2	-2.57	-1.99	7.98	1.14	521.74	ppb
Iron	54-2	1.01	0.32	1.11	0.81	53.12	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.00	0.00	0.00	192.49	ppb
Lead	207-1	0.03	-0.02	0.00	0.01	399.40	ppb
Lead	208-1	0.02	0.00	0.01	0.01	75.42	ppb
Lithium	6-1				99		%
Magnesium	24-2	1.21	1.38	1.31	1.30	6.72	ppb
Manganese	55-2	-0.02	0.01	-0.01	-0.01		ppb
Molybdenum	94-1	0.07	0.06	0.09	0.07	23.83	ppb
Molybdenum	95-1	0.06	0.05	0.07	0.06	12.62	ppb
Molybdenum	96-1	0.05	0.03	0.04	0.04	34.97	ppb
Molybdenum	97-1	0.07	0.05	0.06	0.06	12.09	ppb
Molybdenum	98-1	0.05	0.04	0.04	0.05	11.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.04	0.08	0.05	45.93	ppb
Phosphorus	31-2	-136.68	-132.77	-141.62	-137.02		ppb
Potassium	39-2	15.36	12.26	15.06	14.23	12.01	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	1.03	0.88	0.67	0.86	21.12	ppb
Selenium	77-2	0.87	-0.06	1.06	0.62	96.58	ppb
Selenium	78-2	1.14	0.22	0.65	0.67	69.51	ppb
Silicon	28-1	3.29	4.49	2.88	3.55	23.54	ppb
Silver	107-1	0.09	0.06	0.06	0.07	23.27	ppb
Silver	109-1	0.10	0.07	0.05	0.08	28.76	ppb
Sodium	23-2	22.92	22.21	22.38	22.50	1.64	ppb
Strontium	86-1	0.01	-0.10	1.39	0.43	191.74	ppb
Strontium	88-1	0.07	0.08	0.01	0.05	73.57	ppb
Sulfur	34-1	-410.65	-341.11	-461.56	-404.44		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.02	0.02	19.75	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	8.59	ppb
Tin	118-1	-0.02	-0.02	-0.02	-0.02		ppb
Titanium	47-1	0.05	0.04	0.06	0.05	16.31	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.02	0.00	0.00	0.01	148.38	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.03	-0.03	0.09	0.01	819.73	ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	122.49	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	25.39	ppb

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143	157	157	152	5.06	cps
Antimony	121-1	43	60	27	43	38.46	cps
Arsenic	75-2	47	47	43	46	4.23	cps
Barium	135-1	53	53	43	50	11.55	cps
Barium	137-1	97	97	90	94	4.08	cps
Beryllium	9-1	80	57	77	71	17.74	cps
Bismuth	209-1	2847644	2828607	2809433	2828561	0.68	cps
Bismuth	209-2	2721023	2768574	2670346	2719981	1.81	cps
Bromine	81-1	35389	34474	35529	35131	1.63	cps
Bromine	81-2	197	223	223	214	7.18	cps
Cadmium	108-1	10	7	30	16	81.11	cps
Cadmium	106-1	1443	1450	1537	1477	3.53	cps
Cadmium	111-1	1087	1087	1131	1102	2.33	cps
Calcium	43-1	547	473	550	523	8.28	cps
Calcium	44-1	13567	13463	13190	13406	1.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	523	500	587	537	8.36	cps
Cobalt	59-2	230	230	253	238	5.67	cps
Copper	63-2	2797	2860	2630	2763	4.30	cps
Dysprosium	156-1	3	10	10	8	49.52	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	17	20	20	19	10.18	cps
Erbium	164-2	17	30	23	23	28.56	cps
Gadolinium	160-1	13	17	17	16	12.40	cps
Gadolinium	160-2	223	193	223	213	8.12	cps
Holmium	165-1	4590408	4689021	4632290	4637240	1.07	cps
Holmium	165-2	3863899	3908830	3904770	3892499	0.64	cps
Indium	115-1	3989873	4055666	3982176	4009238	1.01	cps
Indium	115-2	1781940	1774562	1715176	1757226	2.08	cps
Iron	56-2	30127	30675	30184	30328	0.99	cps
Iron	57-2	1427	1647	1633	1569	7.86	cps
Iron	54-2	3537	3520	3474	3510	0.94	cps
Krypton	83-1	390	467	423	427	9.01	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1413	1270	1280	1321	6.06	cps
Lead	207-1	1157	1240	1160	1186	3.98	cps
Lead	208-1	5516	5415	5337	5423	1.65	cps
Lithium	6-1	582633	578289	583684	581535	0.49	cps
Magnesium	24-2	453	423	317	398	18.06	cps
Manganese	55-2	1317	1383	1467	1389	5.41	cps
Molybdenum	94-1	147	137	170	151	11.32	cps
Molybdenum	95-1	90	57	60	69	26.65	cps
Molybdenum	96-1	200	213	210	208	3.34	cps
Molybdenum	97-1	60	47	47	51	15.06	cps
Molybdenum	98-1	110	163	150	141	19.67	cps
Neodymium	150-1	0	7	13	7	99.98	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	347	283	253	294	16.18	cps
Phosphorus	31-2	317	320	263	300	10.60	cps
Potassium	39-2	58846	59097	59178	59040	0.29	cps
Rhodium	103-1	3854847	3905289	3841320	3867152	0.87	cps
Rhodium	103-2	2494022	2495829	2495006	2494952	0.04	cps
Scandium	45-1	2371015	2387173	2393227	2383805	0.48	cps
Scandium	45-2	209961	208315	208448	208908	0.44	cps
Selenium	82-1	224	138	232	198	26.22	cps
Selenium	77-2	10	3	0	4	114.60	cps
Selenium	78-2	937	1023	1000	987	4.55	cps
Silicon	28-1	1507129	1532949	1522727	1520935	0.85	cps
Silver	107-1	73	43	53	57	26.96	cps
Silver	109-1	63	13	33	37	68.64	cps
Sodium	23-2	14814	14560	14637	14670	0.89	cps
Strontium	86-1	653	660	787	700	10.73	cps
Strontium	88-1	187	167	217	190	13.25	cps
Sulfur	34-1	134368	134190	135239	134599	0.42	cps
Terbium	159-1	4778315	4614917	4737794	4710342	1.81	cps
Terbium	159-2	3828649	3786138	3826565	3813784	0.63	cps
Thallium	203-1	403	440	310	384	17.43	cps
Thallium	205-1	887	813	900	867	5.38	cps
Tin	118-1	1370	1300	1353	1341	2.73	cps
Titanium	47-1	50	33	77	53	40.99	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:44:14	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	450	477	367	431	13.31	cps
Vanadium	51-2	37	17	40	31	40.56	cps
Yttrium	89-1	7104102	7044290	6919253	7022548	1.34	cps
Yttrium	89-2	2196662	2211164	2206280	2204702	0.33	cps
Zinc	66-2	767	827	793	796	3.78	cps
Zirconium	90-1	350	353	423	376	11.03	cps
Zirconium	91-1	87	57	70	71	21.14	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3434	3564	3434	3477	2.16	cps
Antimony	121-1	11461	12092	11812	11788	2.68	cps
Arsenic	75-2	433	457	493	461	6.56	cps
Barium	135-1	14584	14858	15005	14816	1.44	cps
Barium	137-1	25753	25617	25656	25675	0.27	cps
Beryllium	9-1	990	1033	863	962	9.18	cps
Bismuth	209-1	2828600	2826519	2858299	2837806	0.63	cps
Bismuth	209-2	2674217	2761867	2730805	2722296	1.63	cps
Bromine	81-1	33628	32997	32065	32897	2.39	cps
Bromine	81-2	160	190	180	177	8.65	cps
Cadmium	108-1	110	127	113	117	7.56	cps
Cadmium	106-1	1683	1640	1610	1645	2.24	cps
Cadmium	111-1	2732	2870	2605	2735	4.85	cps
Calcium	43-1	9500	9326	9106	9311	2.12	cps
Calcium	44-1	161051	160802	159809	160554	0.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6231	6218	6465	6305	2.20	cps
Cobalt	59-2	4828	4918	4787	4844	1.37	cps
Copper	63-2	9106	9073	8773	8984	2.04	cps
Dysprosium	156-1	7	0	3	3	100.05	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	23	20	33	26	27.15	cps
Erbium	164-2	33	33	30	32	5.97	cps
Gadolinium	160-1	27	13	17	19	36.75	cps
Gadolinium	160-2	207	187	193	196	5.21	cps
Holmium	165-1	4648036	4639686	4620852	4636191	0.30	cps
Holmium	165-2	3850669	3879378	3776457	3835501	1.38	cps
Indium	115-1	4027440	4028512	3958645	4004866	1.00	cps
Indium	115-2	1788934	1739974	1749480	1759463	1.48	cps
Iron	56-2	170984	170026	172687	171232	0.79	cps
Iron	57-2	5271	5598	5538	5469	3.18	cps
Iron	54-2	11404	11118	11458	11327	1.62	cps
Krypton	83-1	403	450	503	452	11.07	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5058	4908	4944	4970	1.57	cps
Lead	207-1	4257	4361	4501	4373	2.79	cps
Lead	208-1	21549	21077	21497	21375	1.21	cps
Lithium	6-1	590947	574009	579431	581462	1.49	cps
Magnesium	24-2	130381	129914	129856	130050	0.22	cps
Manganese	55-2	4027	3607	3987	3874	5.99	cps
Molybdenum	94-1	13046	13683	13570	13433	2.53	cps
Molybdenum	95-1	16289	16660	15852	16267	2.49	cps
Molybdenum	96-1	17868	17821	17624	17771	0.73	cps
Molybdenum	97-1	9573	10147	10377	10032	4.13	cps
Molybdenum	98-1	24971	25182	25088	25080	0.42	cps
Neodymium	150-1	0	7	7	4	86.60	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1313	1273	1270	1286	1.88	cps
Phosphorus	31-2	2667	2560	2794	2674	4.37	cps
Potassium	39-2	241633	240508	238332	240158	0.70	cps
Rhodium	103-1	3861777	3805423	3865479	3844226	0.88	cps
Rhodium	103-2	2487091	2507900	2518550	2504514	0.64	cps
Scandium	45-1	2409903	2357043	2368884	2378610	1.17	cps
Scandium	45-2	207752	206921	208089	207587	0.29	cps
Selenium	82-1	910	952	791	884	9.43	cps
Selenium	77-2	100	90	73	88	15.35	cps
Selenium	78-2	1317	1267	1333	1306	2.66	cps
Silicon	28-1	1558953	1566773	1585112	1570279	0.86	cps
Silver	107-1	9433	9270	9473	9392	1.15	cps
Silver	109-1	8833	8346	9136	8772	4.55	cps
Sodium	23-2	215667	218409	218022	217366	0.68	cps
Strontium	86-1	2820	2820	2797	2813	0.48	cps
Strontium	88-1	18372	18942	18619	18644	1.54	cps
Sulfur	34-1	140344	138682	139388	139471	0.60	cps
Terbium	159-1	4750450	4853347	4837988	4813928	1.15	cps
Terbium	159-2	3859011	3795019	3780204	3811412	1.10	cps
Thallium	203-1	5758	5751	5755	5755	0.06	cps
Thallium	205-1	13260	13250	13514	13341	1.12	cps
Tin	118-1	27316	28522	27166	27668	2.69	cps
Titanium	47-1	4197	4227	4377	4267	2.26	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:50:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16721	16734	16864	16773	0.47	cps
Vanadium	51-2	12248	12462	12659	12456	1.65	cps
Yttrium	89-1	7012908	6983271	6919645	6971941	0.68	cps
Yttrium	89-2	2263109	2209524	2246481	2239705	1.22	cps
Zinc	66-2	3554	3947	3814	3772	5.30	cps
Zirconium	90-1	11778	11748	11758	11761	0.13	cps
Zirconium	91-1	2584	2594	2770	2649	3.96	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	166125	167008	165909	166347	0.35	cps
Antimony	121-1	299264	300097	298855	299405	0.21	cps
Arsenic	75-2	21586	21028	20905	21173	1.71	cps
Barium	135-1	394591	389394	392987	392324	0.68	cps
Barium	137-1	672087	681865	672728	675560	0.81	cps
Beryllium	9-1	47997	48108	48051	48052	0.11	cps
Bismuth	209-1	2837883	2929346	2849454	2872228	1.73	cps
Bismuth	209-2	2769141	2720482	2748641	2746088	0.89	cps
Bromine	81-1	33705	33348	33438	33497	0.56	cps
Bromine	81-2	187	257	250	231	16.72	cps
Cadmium	108-1	6892	7032	6855	6926	1.35	cps
Cadmium	106-1	11008	11024	10974	11002	0.23	cps
Cadmium	111-1	93536	94865	94203	94201	0.71	cps
Calcium	43-1	93848	94096	93748	93897	0.19	cps
Calcium	44-1	1689816	1674263	1668967	1677682	0.65	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	150456	147625	148146	148742	1.01	cps
Cobalt	59-2	236313	233455	233327	234365	0.72	cps
Copper	63-2	1970212	1923679	1977519	1957137	1.49	cps
Dysprosium	156-1	17	7	13	12	41.65	cps
Dysprosium	156-2	20	17	27	21	24.12	cps
Erbium	164-1	40	37	27	34	20.14	cps
Erbium	164-2	23	27	23	24	7.89	cps
Gadolinium	160-1	23	27	20	23	14.29	cps
Gadolinium	160-2	220	250	210	227	9.18	cps
Holmium	165-1	4588197	4687229	4704462	4659963	1.35	cps
Holmium	165-2	3866663	3791592	3950597	3869617	2.06	cps
Indium	115-1	4016290	3995148	4022559	4011332	0.36	cps
Indium	115-2	1752628	1736595	1726951	1738725	0.75	cps
Iron	56-2	7890539	7864441	7848447	7867809	0.27	cps
Iron	57-2	187082	186479	185858	186473	0.33	cps
Iron	54-2	415568	413757	407725	412350	1.00	cps
Krypton	83-1	497	443	553	498	11.05	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1126649	1144273	1136534	1135819	0.78	cps
Lead	207-1	985108	998059	992114	991760	0.65	cps
Lead	208-1	4928909	4912325	4902358	4914530	0.27	cps
Lithium	6-1	585335	590461	585476	587091	0.50	cps
Magnesium	24-2	1576655	1529054	1542847	1549519	1.58	cps
Manganese	55-2	1502494	1481525	1494831	1492950	0.71	cps
Molybdenum	94-1	1137998	1147407	1141033	1142146	0.42	cps
Molybdenum	95-1	1798968	1818801	1823040	1813603	0.71	cps
Molybdenum	96-1	2007678	1982317	1987117	1992371	0.68	cps
Molybdenum	97-1	1022615	1028878	1017157	1022884	0.57	cps
Molybdenum	98-1	2888111	2930938	2937972	2919007	0.92	cps
Neodymium	150-1	37	43	37	39	9.89	cps
Neodymium	150-2	3	7	10	7	50.03	cps
Nickel	60-2	60515	60813	60836	60721	0.29	cps
Phosphorus	31-2	10490	10073	10087	10217	2.32	cps
Potassium	39-2	1033930	1022965	1031272	1029389	0.56	cps
Rhodium	103-1	3890200	3822459	3802282	3838314	1.20	cps
Rhodium	103-2	2512101	2516392	2471213	2499902	1.00	cps
Scandium	45-1	2370174	2377868	2331691	2359911	1.05	cps
Scandium	45-2	210803	206113	210245	209054	1.23	cps
Selenium	82-1	7569	7709	7612	7630	0.94	cps
Selenium	77-2	1070	907	943	973	8.81	cps
Selenium	78-2	4011	4214	4064	4096	2.57	cps
Silicon	28-1	2162464	2166277	2123574	2150772	1.10	cps
Silver	107-1	470685	473415	469124	471075	0.46	cps
Silver	109-1	442450	445841	441276	443189	0.53	cps
Sodium	23-2	2512574	2472635	2463477	2482895	1.05	cps
Strontium	86-1	108506	108043	107824	108124	0.32	cps
Strontium	88-1	947341	962905	951112	953786	0.85	cps
Sulfur	34-1	164629	164279	166472	165127	0.71	cps
Terbium	159-1	4726603	4759293	4775536	4753811	0.52	cps
Terbium	159-2	3866447	3842169	3817345	3841987	0.64	cps
Thallium	203-1	281099	286092	286491	284560	1.06	cps
Thallium	205-1	660499	675197	665998	667232	1.11	cps
Tin	118-1	268350	271102	269575	269676	0.51	cps
Titanium	47-1	430492	434530	427236	430752	0.85	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:54:06	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	850245	854229	855903	853459	0.34	cps
Vanadium	51-2	128683	126673	126824	127393	0.88	cps
Yttrium	89-1	7005002	6934659	7001872	6980511	0.57	cps
Yttrium	89-2	2144218	2176480	2147798	2156166	0.82	cps
Zinc	66-2	354946	352555	356416	354639	0.55	cps
Zirconium	90-1	563809	569464	565722	566332	0.51	cps
Zirconium	91-1	126022	126929	125776	126242	0.48	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	397804	393275	395604	395561	0.57	cps
Antimony	121-1	735002	735611	728222	732945	0.56	cps
Arsenic	75-2	51248	51519	52078	51615	0.82	cps
Barium	135-1	958966	953718	950911	954532	0.43	cps
Barium	137-1	1884137	1867921	1815803	1855954	1.92	cps
Beryllium	9-1	120988	120796	120802	120862	0.09	cps
Bismuth	209-1	2869267	2852680	2790140	2837362	1.47	cps
Bismuth	209-2	2702563	2737298	2711262	2717041	0.67	cps
Bromine	81-1	31303	33027	31256	31862	3.17	cps
Bromine	81-2	230	223	223	226	1.70	cps
Cadmium	108-1	16903	16229	15845	16326	3.28	cps
Cadmium	106-1	24958	24912	24798	24889	0.33	cps
Cadmium	111-1	229226	230050	227729	229002	0.51	cps
Calcium	43-1	227539	226635	224218	226131	0.76	cps
Calcium	44-1	4009512	4002488	3998989	4003663	0.13	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	364016	360053	362912	362327	0.56	cps
Cobalt	59-2	574056	559911	572972	568979	1.38	cps
Copper	63-2	4762380	4758442	4713349	4744724	0.57	cps
Dysprosium	156-1	13	17	23	18	28.64	cps
Dysprosium	156-2	47	47	53	49	7.86	cps
Erbium	164-1	40	40	43	41	4.68	cps
Erbium	164-2	30	30	47	36	27.07	cps
Gadolinium	160-1	33	37	17	29	37.08	cps
Gadolinium	160-2	217	197	187	200	7.64	cps
Holmium	165-1	4615514	4620452	4594431	4610132	0.30	cps
Holmium	165-2	3907858	3843348	3907172	3886126	0.95	cps
Indium	115-1	3951333	3825812	3874885	3884010	1.63	cps
Indium	115-2	1725940	1716414	1713765	1718706	0.37	cps
Iron	56-2	19123123	18938180	19044659	19035321	0.49	cps
Iron	57-2	446469	446654	450536	447886	0.51	cps
Iron	54-2	991090	980662	978541	983431	0.68	cps
Krypton	83-1	470	410	430	437	7.00	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3198900	3187995	3213250	3200049	0.40	cps
Lead	207-1	2861147	2870529	2839802	2857159	0.55	cps
Lead	208-1	13014399	13026825	13002129	13014451	0.09	cps
Lithium	6-1	597780	599433	595340	597518	0.34	cps
Magnesium	24-2	3860267	3802164	3805274	3822569	0.86	cps
Manganese	55-2	3713582	3677010	3662524	3684372	0.71	cps
Molybdenum	94-1	3127482	3126617	3013476	3089192	2.12	cps
Molybdenum	95-1	4558862	4496105	4412352	4489106	1.64	cps
Molybdenum	96-1	4968552	4814608	4867832	4883664	1.60	cps
Molybdenum	97-1	2825211	2723834	2701300	2750115	2.40	cps
Molybdenum	98-1	7145454	7145569	6898254	7063092	2.02	cps
Neodymium	150-1	67	50	47	54	19.68	cps
Neodymium	150-2	23	13	40	26	52.73	cps
Nickel	60-2	145743	147928	145905	146525	0.83	cps
Phosphorus	31-2	23962	23859	24546	24122	1.54	cps
Potassium	39-2	2577468	2529986	2587105	2564853	1.19	cps
Rhodium	103-1	3822880	3718242	3751805	3764309	1.42	cps
Rhodium	103-2	2418448	2508514	2468266	2465076	1.83	cps
Scandium	45-1	2299529	2284142	2313445	2299039	0.64	cps
Scandium	45-2	203086	203396	202390	202957	0.25	cps
Selenium	82-1	18176	18124	18030	18110	0.41	cps
Selenium	77-2	2380	2284	2137	2267	5.41	cps
Selenium	78-2	8599	8199	8312	8370	2.46	cps
Silicon	28-1	2912429	2923828	2896870	2911042	0.46	cps
Silver	107-1	1157082	1134062	1129901	1140348	1.28	cps
Silver	109-1	1078593	1077570	1067531	1074564	0.57	cps
Sodium	23-2	6055342	6046392	6023559	6041764	0.27	cps
Strontium	86-1	265336	262342	259859	262512	1.04	cps
Strontium	88-1	2565870	2565199	2570802	2567291	0.12	cps
Sulfur	34-1	205009	203225	203077	203771	0.53	cps
Terbium	159-1	4780455	4667549	4700972	4716325	1.23	cps
Terbium	159-2	3790325	3747626	3808107	3782019	0.82	cps
Thallium	203-1	701013	705867	706627	704502	0.43	cps
Thallium	205-1	1861492	1891732	1907120	1886781	1.23	cps
Tin	118-1	659049	659930	653280	657420	0.55	cps
Titanium	47-1	1049376	1036129	1025698	1037068	1.14	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 14:57:15	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2531881	2509622	2472528	2504677	1.20	cps
Vanadium	51-2	311856	308811	313239	311302	0.73	cps
Yttrium	89-1	6816143	6673207	6638794	6709381	1.40	cps
Yttrium	89-2	2094530	2108973	2138529	2114011	1.06	cps
Zinc	66-2	862868	863400	858230	861500	0.33	cps
Zirconium	90-1	1533335	1525386	1519543	1526088	0.45	cps
Zirconium	91-1	310535	307095	306458	308029	0.71	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	769122	761015	761309	763815	0.60	cps
Antimony	121-1	1574997	1419127	1412760	1468961	6.26	cps
Arsenic	75-2	100577	100417	99524	100173	0.57	cps
Barium	135-1	2093364	2125162	2136996	2118508	1.07	cps
Barium	137-1	3691578	3692241	3632212	3672010	0.94	cps
Beryllium	9-1	239545	240457	239101	239701	0.29	cps
Bismuth	209-1	2845063	2825000	2821483	2830515	0.45	cps
Bismuth	209-2	2686061	2691345	2759650	2712352	1.51	cps
Bromine	81-1	30421	30582	30448	30484	0.28	cps
Bromine	81-2	200	247	217	221	10.70	cps
Cadmium	108-1	32276	31731	31264	31757	1.60	cps
Cadmium	106-1	45555	46631	46380	46189	1.22	cps
Cadmium	111-1	439313	439142	438986	439147	0.04	cps
Calcium	43-1	435066	439513	435115	436564	0.58	cps
Calcium	44-1	7730074	7521389	7566695	7606053	1.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	703144	706322	695531	701666	0.79	cps
Cobalt	59-2	1099411	1106028	1099963	1101801	0.33	cps
Copper	63-2	8988275	9083828	9176367	9082823	1.04	cps
Dysprosium	156-1	33	27	40	33	20.00	cps
Dysprosium	156-2	110	130	110	117	9.90	cps
Erbium	164-1	57	73	53	61	17.53	cps
Erbium	164-2	30	37	33	33	10.01	cps
Gadolinium	160-1	27	50	30	36	35.49	cps
Gadolinium	160-2	190	220	190	200	8.66	cps
Holmium	165-1	4594850	4617097	4472999	4561649	1.70	cps
Holmium	165-2	3894609	3892855	3956411	3914625	0.92	cps
Indium	115-1	3809859	3755521	3824961	3796780	0.96	cps
Indium	115-2	1611730	1673431	1639817	1641659	1.88	cps
Iron	56-2	37118572	37023559	37089604	37077245	0.13	cps
Iron	57-2	873960	872197	870443	872200	0.20	cps
Iron	54-2	2036808	2054348	2061898	2051018	0.63	cps
Krypton	83-1	383	360	413	386	6.93	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6231565	6210863	6335153	6259194	1.06	cps
Lead	207-1	5659708	5606587	5704538	5656945	0.87	cps
Lead	208-1	25805576	25735721	25858150	25799816	0.24	cps
Lithium	6-1	599135	593038	598051	596741	0.55	cps
Magnesium	24-2	7312434	7439233	7397513	7383060	0.88	cps
Manganese	55-2	7075326	7097628	7094719	7089224	0.17	cps
Molybdenum	94-1	6003673	5865850	6038182	5969235	1.53	cps
Molybdenum	95-1	8631793	8560186	8707695	8633225	0.85	cps
Molybdenum	96-1	9347274	9350835	9404814	9367641	0.34	cps
Molybdenum	97-1	5435868	5317833	5303029	5352243	1.36	cps
Molybdenum	98-1	13800862	13806877	13645413	13751051	0.67	cps
Neodymium	150-1	90	113	107	103	11.63	cps
Neodymium	150-2	17	20	37	24	43.83	cps
Nickel	60-2	284469	283424	282680	283524	0.32	cps
Phosphorus	31-2	45688	45808	45548	45681	0.29	cps
Potassium	39-2	4959324	4859932	4902880	4907379	1.02	cps
Rhodium	103-1	3679239	3559424	3587128	3608597	1.74	cps
Rhodium	103-2	2324870	2379505	2401033	2368470	1.66	cps
Scandium	45-1	2203814	2199876	2200296	2201328	0.10	cps
Scandium	45-2	198097	198165	196540	197601	0.47	cps
Selenium	82-1	34685	34327	34314	34442	0.61	cps
Selenium	77-2	4534	4327	4497	4453	2.48	cps
Selenium	78-2	15468	16059	15131	15553	3.02	cps
Silicon	28-1	4159944	4175276	4186581	4173934	0.32	cps
Silver	107-1	2428157	2400298	2389170	2405875	0.83	cps
Silver	109-1	2280376	2255558	2296177	2277371	0.90	cps
Sodium	23-2	11908291	11916606	11758621	11861173	0.75	cps
Strontium	86-1	500962	504144	500264	501790	0.41	cps
Strontium	88-1	4933678	4868424	4950487	4917530	0.88	cps
Sulfur	34-1	259296	256657	256826	257593	0.57	cps
Terbium	159-1	4721345	4709703	4582132	4671060	1.65	cps
Terbium	159-2	3767718	3740453	3834883	3781018	1.29	cps
Thallium	203-1	1398459	1402583	1413310	1404784	0.55	cps
Thallium	205-1	3730514	3729864	3822988	3761122	1.42	cps
Tin	118-1	1270255	1272438	1262761	1268485	0.40	cps
Titanium	47-1	2247866	2213481	2193235	2218194	1.25	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:00:12	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5056959	4999599	4923346	4993301	1.34	cps
Vanadium	51-2	613384	608147	604733	608755	0.72	cps
Yttrium	89-1	6608325	6558523	6545269	6570706	0.51	cps
Yttrium	89-2	2081097	2111745	2117856	2103566	0.94	cps
Zinc	66-2	1841270	1858043	1840955	1846756	0.53	cps
Zirconium	90-1	2950877	2929406	2929566	2936616	0.42	cps
Zirconium	91-1	594614	593327	596411	594784	0.26	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1741810	1718605	1741837	1734084	0.77	cps
Antimony	121-1	3127232	3194230	3214523	3178662	1.44	cps
Arsenic	75-2	198090	196801	200665	198519	0.99	cps
Barium	135-1	4214940	4243720	4340617	4266425	1.54	cps
Barium	137-1	7335637	7303854	7310119	7316537	0.23	cps
Beryllium	9-1	459298	466565	459470	461778	0.90	cps
Bismuth	209-1	2897884	2851473	2884127	2877828	0.83	cps
Bismuth	209-2	2738797	2704359	2742417	2728524	0.77	cps
Bromine	81-1	30735	30725	31256	30906	0.98	cps
Bromine	81-2	257	177	250	228	19.49	cps
Cadmium	108-1	61680	62206	63756	62547	1.73	cps
Cadmium	106-1	88514	90131	90241	89629	1.08	cps
Cadmium	111-1	856771	863504	870062	863446	0.77	cps
Calcium	43-1	870500	875662	883067	876410	0.72	cps
Calcium	44-1	15306131	15630917	15487597	15474882	1.05	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1584068	1527492	1595917	1569159	2.33	cps
Cobalt	59-2	2507565	2487456	2487374	2494132	0.47	cps
Copper	63-2	17973256	18391415	18183843	18182838	1.15	cps
Dysprosium	156-1	40	80	47	56	38.57	cps
Dysprosium	156-2	233	207	173	204	14.70	cps
Erbium	164-1	70	43	90	68	34.55	cps
Erbium	164-2	37	57	27	40	38.18	cps
Gadolinium	160-1	63	53	33	50	30.55	cps
Gadolinium	160-2	207	193	210	203	4.34	cps
Holmium	165-1	4671560	4745257	4615896	4677571	1.39	cps
Holmium	165-2	3906886	3883286	3847314	3879162	0.77	cps
Indium	115-1	3842844	3760927	3779608	3794460	1.13	cps
Indium	115-2	1665998	1643033	1651567	1653532	0.70	cps
Iron	56-2	75254527	73750364	73982059	74328983	1.09	cps
Iron	57-2	1913068	1881175	1842978	1879074	1.87	cps
Iron	54-2	4040953	4032662	4078423	4050679	0.60	cps
Krypton	83-1	387	333	420	380	11.50	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12439838	12814001	12866433	12706758	1.83	cps
Lead	207-1	11220856	11560883	11745640	11509126	2.31	cps
Lead	208-1	51501123	52474790	53058021	52344645	1.50	cps
Lithium	6-1	601763	597354	598005	599041	0.40	cps
Magnesium	24-2	14645845	14480632	14902865	14676447	1.45	cps
Manganese	55-2	14308394	14026914	14179501	14171603	0.99	cps
Molybdenum	94-1	11921793	12049821	12269233	12080282	1.45	cps
Molybdenum	95-1	17297465	17280616	17455759	17344613	0.56	cps
Molybdenum	96-1	18861884	18694285	18767089	18774420	0.45	cps
Molybdenum	97-1	10672854	10675317	10738158	10695443	0.35	cps
Molybdenum	98-1	27471320	27573983	27712885	27586062	0.44	cps
Neodymium	150-1	140	227	233	200	26.04	cps
Neodymium	150-2	47	77	43	56	33.05	cps
Nickel	60-2	561565	563804	563196	562855	0.21	cps
Phosphorus	31-2	91552	92319	92212	92028	0.45	cps
Potassium	39-2	10015489	9673475	9844954	9844640	1.74	cps
Rhodium	103-1	3641201	3556459	3621042	3606234	1.23	cps
Rhodium	103-2	2413262	2392031	2375926	2393740	0.78	cps
Scandium	45-1	2254867	2243571	2215375	2237938	0.91	cps
Scandium	45-2	203301	198651	199001	200318	1.29	cps
Selenium	82-1	68142	67646	68435	68074	0.59	cps
Selenium	77-2	8789	8419	9003	8737	3.38	cps
Selenium	78-2	29760	29940	29884	29861	0.31	cps
Silicon	28-1	6748098	6946358	7023924	6906127	2.06	cps
Silver	107-1	4726473	4751310	4827147	4768310	1.10	cps
Silver	109-1	4509342	4463049	4602758	4525050	1.57	cps
Sodium	23-2	23797361	22999011	23817825	23538066	1.98	cps
Strontium	86-1	996624	1014845	1016847	1009439	1.10	cps
Strontium	88-1	9824430	9860160	9966933	9883841	0.75	cps
Sulfur	34-1	382618	382604	377608	380943	0.76	cps
Terbium	159-1	4835847	4811062	4892779	4846563	0.86	cps
Terbium	159-2	3863349	3802906	3860645	3842300	0.89	cps
Thallium	203-1	3213968	3283850	3328723	3275513	1.77	cps
Thallium	205-1	7574227	7669006	7579549	7607594	0.70	cps
Tin	118-1	2805941	2883765	2912634	2867447	1.92	cps
Titanium	47-1	4416846	4522992	4535446	4491761	1.45	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:03:06	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10217288	10379869	10399564	10332241	0.97	cps
Vanadium	51-2	1354116	1356917	1343970	1351668	0.50	cps
Yttrium	89-1	6713881	6601544	6584101	6633175	1.06	cps
Yttrium	89-2	2149044	2095834	2098377	2114418	1.42	cps
Zinc	66-2	3630010	3632676	3662508	3641731	0.50	cps
Zirconium	90-1	5880845	5952441	5955784	5929690	0.71	cps
Zirconium	91-1	1198582	1200993	1203722	1201099	0.21	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3454791	3490715	3366111	3437206	1.87	cps
Antimony	121-1	6337565	6406895	6448391	6397617	0.88	cps
Arsenic	75-2	390234	390577	389125	389979	0.19	cps
Barium	135-1	8530775	8589809	8562208	8560931	0.35	cps
Barium	137-1	14735670	15114985	14575225	14808627	1.87	cps
Beryllium	9-1	1064208	1048036	1038358	1050201	1.24	cps
Bismuth	209-1	2847727	2876343	2821462	2848511	0.96	cps
Bismuth	209-2	2638150	2648184	2647967	2644767	0.22	cps
Bromine	81-1	31891	31941	32045	31959	0.25	cps
Bromine	81-2	187	260	217	221	16.68	cps
Cadmium	108-1	124129	123087	125046	124087	0.79	cps
Cadmium	106-1	175185	175520	177611	176106	0.75	cps
Cadmium	111-1	1851726	1891196	1867769	1870230	1.06	cps
Calcium	43-1	1860821	1941505	1885109	1895812	2.18	cps
Calcium	44-1	30694943	31039209	31244703	30992951	0.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3072971	3151376	3088577	3104308	1.34	cps
Cobalt	59-2	4824175	4861662	4836270	4840702	0.40	cps
Copper	63-2	35385860	36217259	35674247	35759122	1.18	cps
Dysprosium	156-1	83	97	133	104	24.79	cps
Dysprosium	156-2	420	357	473	417	14.02	cps
Erbium	164-1	97	107	120	108	10.86	cps
Erbium	164-2	77	77	63	72	10.66	cps
Gadolinium	160-1	87	70	97	84	15.95	cps
Gadolinium	160-2	200	207	227	211	6.57	cps
Holmium	165-1	4713517	4687935	4695045	4698832	0.28	cps
Holmium	165-2	3858180	3890339	3897106	3881875	0.54	cps
Indium	115-1	3753066	3726529	3766391	3748662	0.54	cps
Indium	115-2	1596539	1619786	1592574	1602966	0.92	cps
Iron	56-2	148398641	146346631	144625695	146456989	1.29	cps
Iron	57-2	3617168	3707332	3705553	3676684	1.40	cps
Iron	54-2	8002296	8252201	8057946	8104148	1.62	cps
Krypton	83-1	423	443	340	402	13.63	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	25293320	25720500	25375497	25463106	0.89	cps
Lead	207-1	22704713	22619796	22767152	22697220	0.33	cps
Lead	208-1	103718468	104404327	104398299	104173698	0.38	cps
Lithium	6-1	588248	587576	583299	586374	0.46	cps
Magnesium	24-2	29218051	29292627	28974589	29161756	0.57	cps
Manganese	55-2	28049695	28172071	28103306	28108357	0.22	cps
Molybdenum	94-1	24371520	24295907	24204345	24290591	0.34	cps
Molybdenum	95-1	35340375	35314976	34591390	35082247	1.21	cps
Molybdenum	96-1	38219574	38034348	37467284	37907069	1.03	cps
Molybdenum	97-1	21533431	21512882	21442852	21496388	0.22	cps
Molybdenum	98-1	55293079	55668594	56111659	55691111	0.74	cps
Neodymium	150-1	357	410	420	396	8.61	cps
Neodymium	150-2	127	80	87	98	25.81	cps
Nickel	60-2	1090101	1109548	1086360	1095336	1.14	cps
Phosphorus	31-2	178485	179304	180765	179518	0.64	cps
Potassium	39-2	19611181	19649945	19366953	19542693	0.79	cps
Rhodium	103-1	3585830	3586935	3620727	3597830	0.55	cps
Rhodium	103-2	2329608	2368014	2323362	2340328	1.03	cps
Scandium	45-1	2246879	2213595	2260809	2240428	1.08	cps
Scandium	45-2	200069	201654	202302	201342	0.57	cps
Selenium	82-1	131336	131523	132916	131925	0.65	cps
Selenium	77-2	16700	16816	17107	16874	1.24	cps
Selenium	78-2	55878	57130	56022	56343	1.22	cps
Silicon	28-1	11991160	12166743	12280759	12146221	1.20	cps
Silver	107-1	9595040	9617739	9594745	9602508	0.14	cps
Silver	109-1	9061483	9234142	9060799	9118808	1.10	cps
Sodium	23-2	47095486	46119889	46263431	46492935	1.13	cps
Strontium	86-1	2264390	2281970	2289796	2278719	0.57	cps
Strontium	88-1	20089958	20320379	20021533	20143957	0.78	cps
Sulfur	34-1	633070	634299	633796	633721	0.10	cps
Terbium	159-1	4753172	4819192	4946594	4839653	2.03	cps
Terbium	159-2	3847257	3837474	3816275	3833669	0.41	cps
Thallium	203-1	6461044	6500795	6468519	6476786	0.33	cps
Thallium	205-1	15286421	14979807	15098224	15121484	1.02	cps
Tin	118-1	5701813	5836937	5709573	5749441	1.32	cps
Titanium	47-1	8923700	9085910	8985360	8998323	0.91	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:05:49	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	20231392	20638974	20082586	20317651	1.42	cps
Vanadium	51-2	2686386	2758122	2696276	2713594	1.43	cps
Yttrium	89-1	6741529	6675131	6707132	6707931	0.50	cps
Yttrium	89-2	2060540	2102697	2113994	2092411	1.35	cps
Zinc	66-2	6958485	6971973	6930339	6953599	0.31	cps
Zirconium	90-1	12009681	12037372	12026829	12024627	0.12	cps
Zirconium	91-1	2724597	2713492	2619910	2686000	2.14	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18823167	18767892	18854188	18815082	0.23	cps
Antimony	121-1	2114	2147	2307	2189	4.72	cps
Arsenic	75-2	253	277	283	271	5.81	cps
Barium	135-1	3170	3134	3370	3225	3.95	cps
Barium	137-1	5204	5618	5344	5389	3.90	cps
Beryllium	9-1	153	150	177	160	9.08	cps
Bismuth	209-1	2548711	2539528	2584830	2557689	0.94	cps
Bismuth	209-2	2353094	2426156	2443158	2407469	1.99	cps
Bromine	81-1	31671	33224	32870	32588	2.50	cps
Bromine	81-2	207	163	240	203	18.90	cps
Cadmium	108-1	70	43	47	53	27.24	cps
Cadmium	106-1	1650	1507	1510	1556	5.26	cps
Cadmium	111-1	1383	1284	1328	1332	3.70	cps
Calcium	43-1	9349387	9519182	9566865	9478478	1.21	cps
Calcium	44-1	154995351	157668808	157334084	156666081	0.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16930	16829	16426	16728	1.59	cps
Cobalt	59-2	12162	12168	12102	12144	0.30	cps
Copper	63-2	9603	9733	9703	9680	0.70	cps
Dysprosium	156-1	227	187	170	194	14.98	cps
Dysprosium	156-2	203	197	180	193	6.22	cps
Erbium	164-1	257	253	280	263	5.52	cps
Erbium	164-2	163	173	257	198	25.91	cps
Gadolinium	160-1	213	203	200	206	3.38	cps
Gadolinium	160-2	380	337	323	347	8.55	cps
Holmium	165-1	4579333	4657625	4517302	4584753	1.53	cps
Holmium	165-2	3763017	3776132	3853509	3797553	1.29	cps
Indium	115-1	3749475	3735393	3756803	3747224	0.29	cps
Indium	115-2	1653623	1633889	1622560	1636690	0.96	cps
Iron	56-2	712081936	714094469	703098203	709758203	0.82	cps
Iron	57-2	18089412	17926151	17745716	17920426	0.96	cps
Iron	54-2	39198864	39023156	39427164	39216395	0.52	cps
Krypton	83-1	433	500	497	477	7.88	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10754	10571	10721	10682	0.91	cps
Lead	207-1	9457	9870	9860	9729	2.43	cps
Lead	208-1	43542	43300	43602	43481	0.37	cps
Lithium	6-1	570924	571570	571191	571228	0.06	cps
Magnesium	24-2	150970088	151564081	149626184	150720118	0.66	cps
Manganese	55-2	13409	14250	13463	13707	3.43	cps
Molybdenum	94-1	5041	5161	5051	5084	1.31	cps
Molybdenum	95-1	4014	4327	4564	4302	6.42	cps
Molybdenum	96-1	20802	20788	20902	20831	0.30	cps
Molybdenum	97-1	2760	2690	2660	2704	1.90	cps
Molybdenum	98-1	6251	5771	6115	6046	4.09	cps
Neodymium	150-1	87	150	127	121	26.45	cps
Neodymium	150-2	83	87	103	91	11.77	cps
Nickel	60-2	4801	4994	4771	4855	2.50	cps
Phosphorus	31-2	400	397	280	359	19.04	cps
Potassium	39-2	102477742	100960212	101749502	101729152	0.75	cps
Rhodium	103-1	3406713	3370482	3396940	3391378	0.55	cps
Rhodium	103-2	2271200	2241900	2204161	2239087	1.50	cps
Scandium	45-1	2250999	2304462	2262532	2272664	1.24	cps
Scandium	45-2	210105	207604	208796	208835	0.60	cps
Selenium	82-1	454	417	390	420	7.70	cps
Selenium	77-2	10	7	17	11	45.82	cps
Selenium	78-2	900	917	993	937	5.31	cps
Silicon	28-1	1503096	1513583	1547984	1521554	1.54	cps
Silver	107-1	543	513	457	504	8.72	cps
Silver	109-1	457	467	447	457	2.19	cps
Sodium	23-2	240928503	238062263	240960810	239983859	0.69	cps
Strontium	86-1	7525	7629	7802	7652	1.83	cps
Strontium	88-1	59814	61173	60678	60555	1.14	cps
Sulfur	34-1	128626	137942	143130	136566	5.38	cps
Terbium	159-1	4690814	4681313	4660846	4677657	0.33	cps
Terbium	159-2	3736323	3698506	3688479	3707769	0.68	cps
Thallium	203-1	833	677	590	700	17.62	cps
Thallium	205-1	1710	1493	1580	1595	6.84	cps
Tin	118-1	1787	1800	1920	1836	4.00	cps
Titanium	47-1	363	453	450	422	12.09	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:08:36	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	967	963	807	912	10.02	cps
Vanadium	51-2	570	703	667	647	10.65	cps
Yttrium	89-1	6573504	6724102	6675261	6657623	1.15	cps
Yttrium	89-2	2170791	2143843	2136573	2150402	0.84	cps
Zinc	66-2	11424	11525	11288	11412	1.04	cps
Zirconium	90-1	5201	5294	5041	5179	2.48	cps
Zirconium	91-1	1037	1110	1107	1085	3.82	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	92745	92916	93633	93098	0.51	cps
Antimony	121-1	1211243	1224889	1224360	1220164	0.63	cps
Arsenic	75-2	90192	88060	87171	88474	1.76	cps
Barium	135-1	162680	161417	163135	162411	0.55	cps
Barium	137-1	281962	282445	280399	281602	0.38	cps
Beryllium	9-1	98698	99435	99466	99200	0.44	cps
Bismuth	209-1	2887353	2861484	2857238	2868691	0.57	cps
Bismuth	209-2	2765707	2728162	2740025	2744631	0.70	cps
Bromine	81-1	33521	33919	33602	33681	0.62	cps
Bromine	81-2	233	247	233	238	3.24	cps
Cadmium	108-1	12279	12802	12882	12655	2.59	cps
Cadmium	106-1	18599	18762	18689	18683	0.44	cps
Cadmium	111-1	192098	190110	193328	191845	0.85	cps
Calcium	43-1	36521	36724	37232	36826	1.00	cps
Calcium	44-1	623424	627563	624231	625072	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	314918	310048	311283	312083	0.81	cps
Cobalt	59-2	487322	488408	490482	488737	0.33	cps
Copper	63-2	377484	375386	373592	375487	0.52	cps
Dysprosium	156-1	20	13	7	13	49.99	cps
Dysprosium	156-2	7	10	10	9	21.63	cps
Erbium	164-1	30	30	27	29	6.65	cps
Erbium	164-2	33	37	23	31	22.31	cps
Gadolinium	160-1	3	7	23	11	96.43	cps
Gadolinium	160-2	183	190	223	199	10.78	cps
Holmium	165-1	4618260	4698591	4665460	4660770	0.87	cps
Holmium	165-2	3958851	3859228	3844492	3887524	1.60	cps
Indium	115-1	4011464	3918351	4062436	3997417	1.83	cps
Indium	115-2	1755888	1786782	1790979	1777883	1.08	cps
Iron	56-2	6329921	6331240	6360681	6340614	0.27	cps
Iron	57-2	150071	148559	148876	149169	0.53	cps
Iron	54-2	339066	338531	337830	338476	0.18	cps
Krypton	83-1	463	443	390	432	8.77	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	947573	944347	956422	949447	0.66	cps
Lead	207-1	792204	795927	799107	795746	0.43	cps
Lead	208-1	4323915	4353060	4329644	4335540	0.36	cps
Lithium	6-1	590526	594526	588894	591315	0.49	cps
Magnesium	24-2	338111	339684	335283	337693	0.66	cps
Manganese	55-2	300151	295172	298707	298010	0.86	cps
Molybdenum	94-1	247	213	287	249	14.75	cps
Molybdenum	95-1	137	147	167	150	10.18	cps
Molybdenum	96-1	423	437	407	422	3.56	cps
Molybdenum	97-1	83	117	127	109	20.84	cps
Molybdenum	98-1	243	247	270	253	5.74	cps
Neodymium	150-1	20	20	10	17	34.64	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	140145	138365	138607	139039	0.69	cps
Phosphorus	31-2	243	317	337	299	16.44	cps
Potassium	39-2	833390	828985	830047	830807	0.28	cps
Rhodium	103-1	3800036	3831459	3815932	3815809	0.41	cps
Rhodium	103-2	2553833	2519725	2527164	2533574	0.71	cps
Scandium	45-1	2374644	2337830	2360854	2357776	0.79	cps
Scandium	45-2	210786	210258	208305	209783	0.62	cps
Selenium	82-1	30677	30686	30816	30726	0.25	cps
Selenium	77-2	4044	3997	3984	4008	0.79	cps
Selenium	78-2	14314	14040	14047	14134	1.10	cps
Silicon	28-1	1479814	1495333	1480445	1485197	0.59	cps
Silver	107-1	448423	455124	452916	452154	0.76	cps
Silver	109-1	427703	428605	423793	426700	0.60	cps
Sodium	23-2	915483	917574	910259	914439	0.41	cps
Strontium	86-1	1270	1280	1233	1261	1.95	cps
Strontium	88-1	4878	4931	4908	4905	0.55	cps
Sulfur	34-1	129546	129980	131520	130349	0.80	cps
Terbium	159-1	4767368	4743427	4770898	4760564	0.31	cps
Terbium	159-2	3969233	3872587	3735515	3859112	3.04	cps
Thallium	203-1	1150573	1163700	1171797	1162023	0.92	cps
Thallium	205-1	3171267	3143061	3141301	3151876	0.53	cps
Tin	118-1	1497	1467	1230	1398	10.45	cps
Titanium	47-1	80	67	73	73	9.09	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:35:50	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	453	413	483	450	7.80	cps
Vanadium	51-2	262844	263065	262991	262967	0.04	cps
Yttrium	89-1	6995302	6981739	6989531	6988858	0.10	cps
Yttrium	89-2	2225957	2205335	2172274	2201188	1.23	cps
Zinc	66-2	139172	135623	135882	136892	1.45	cps
Zirconium	90-1	377	387	450	404	9.83	cps
Zirconium	91-1	210	183	280	224	22.24	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3570	3510	3504	3528	1.04	cps
Antimony	121-1	11885	12349	11828	12021	2.38	cps
Arsenic	75-2	557	500	497	518	6.51	cps
Barium	135-1	15405	15175	15428	15336	0.91	cps
Barium	137-1	27022	26819	26892	26911	0.38	cps
Beryllium	9-1	1157	1123	1110	1130	2.13	cps
Bismuth	209-1	2844522	2849204	2854574	2849433	0.18	cps
Bismuth	209-2	2813606	2747142	2758610	2773120	1.28	cps
Bromine	81-1	36077	35960	35189	35742	1.35	cps
Bromine	81-2	280	303	277	287	5.07	cps
Cadmium	108-1	127	117	143	129	10.45	cps
Cadmium	106-1	1837	1800	1767	1801	1.94	cps
Cadmium	111-1	2934	2939	2850	2907	1.72	cps
Calcium	43-1	9687	9256	9440	9461	2.28	cps
Calcium	44-1	161847	161445	162341	161878	0.28	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6825	6295	6331	6484	4.57	cps
Cobalt	59-2	5188	5174	4988	5116	2.19	cps
Copper	63-2	9450	9253	9396	9366	1.09	cps
Dysprosium	156-1	0	3	3	2	86.60	cps
Dysprosium	156-2	7	3	17	9	78.08	cps
Erbium	164-1	33	37	33	34	5.60	cps
Erbium	164-2	20	23	20	21	9.11	cps
Gadolinium	160-1	13	17	23	18	28.64	cps
Gadolinium	160-2	173	223	190	196	13.02	cps
Holmium	165-1	4649275	4684904	4666146	4666775	0.38	cps
Holmium	165-2	3938625	3873220	3897983	3903276	0.85	cps
Indium	115-1	4047123	4031995	4013567	4030895	0.42	cps
Indium	115-2	1825741	1810717	1773302	1803253	1.50	cps
Iron	56-2	176935	174382	173169	174829	1.10	cps
Iron	57-2	5368	5474	5598	5480	2.10	cps
Iron	54-2	11671	11765	11758	11731	0.44	cps
Krypton	83-1	430	420	377	409	6.93	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5251	5138	5331	5240	1.85	cps
Lead	207-1	4684	4784	4788	4752	1.24	cps
Lead	208-1	22388	22588	22564	22514	0.49	cps
Lithium	6-1	591668	589501	588789	589986	0.25	cps
Magnesium	24-2	135487	132102	132851	133480	1.33	cps
Manganese	55-2	3720	3837	3714	3757	1.85	cps
Molybdenum	94-1	13470	13613	13973	13685	1.90	cps
Molybdenum	95-1	16056	16389	16182	16209	1.04	cps
Molybdenum	96-1	18081	18095	18051	18076	0.12	cps
Molybdenum	97-1	9767	9790	9997	9851	1.29	cps
Molybdenum	98-1	25726	26437	25840	26001	1.47	cps
Neodymium	150-1	3	13	10	9	57.30	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1330	1350	1277	1319	2.87	cps
Phosphorus	31-2	2650	2750	2710	2704	1.86	cps
Potassium	39-2	248628	246095	247668	247464	0.52	cps
Rhodium	103-1	3802809	3857373	3813704	3824629	0.76	cps
Rhodium	103-2	2544060	2523901	2520339	2529433	0.51	cps
Scandium	45-1	2408796	2375219	2376957	2386991	0.79	cps
Scandium	45-2	210495	210186	206004	208895	1.20	cps
Selenium	82-1	855	889	960	901	5.95	cps
Selenium	77-2	73	107	70	83	24.33	cps
Selenium	78-2	1203	1327	1223	1251	5.29	cps
Silicon	28-1	1499972	1505444	1524421	1509946	0.85	cps
Silver	107-1	9223	9580	9493	9432	1.97	cps
Silver	109-1	8909	9120	9223	9084	1.76	cps
Sodium	23-2	227173	226262	224257	225897	0.66	cps
Strontium	86-1	2820	2717	2864	2800	2.69	cps
Strontium	88-1	19279	19700	19757	19579	1.33	cps
Sulfur	34-1	139392	139829	139719	139647	0.16	cps
Terbium	159-1	4788060	4804884	4700728	4764557	1.17	cps
Terbium	159-2	3971692	3851688	3797047	3873476	2.31	cps
Thallium	203-1	5691	6165	5908	5921	4.00	cps
Thallium	205-1	13850	14384	13810	14015	2.29	cps
Tin	118-1	28338	28017	27637	27997	1.25	cps
Titanium	47-1	4387	4517	4134	4346	4.49	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:47:37	DataFile Name :	019LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17084	16911	17465	17153	1.65	cps
Vanadium	51-2	12692	12709	12502	12634	0.91	cps
Yttrium	89-1	6887334	6947896	7049914	6961715	1.18	cps
Yttrium	89-2	2191215	2205824	2133198	2176746	1.76	cps
Zinc	66-2	3907	3834	4067	3936	3.03	cps
Zirconium	90-1	12178	12182	12332	12231	0.72	cps
Zirconium	91-1	2677	2870	2644	2730	4.48	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1280	1220	1383	1295	6.38	cps
Antimony	121-1	70	87	63	73	16.39	cps
Arsenic	75-2	23	33	13	23	42.86	cps
Barium	135-1	70	60	63	64	7.90	cps
Barium	137-1	127	87	123	112	19.78	cps
Beryllium	9-1	93	100	67	87	20.35	cps
Bismuth	209-1	2809953	2795381	2748974	2784769	1.14	cps
Bismuth	209-2	2682688	2658587	2730224	2690500	1.35	cps
Bromine	81-1	35068	33491	34474	34344	2.32	cps
Bromine	81-2	180	210	163	184	12.82	cps
Cadmium	108-1	13	23	13	17	34.65	cps
Cadmium	106-1	1527	1583	1503	1538	2.68	cps
Cadmium	111-1	1126	1182	1133	1147	2.66	cps
Calcium	43-1	463	420	460	448	5.38	cps
Calcium	44-1	12692	12566	12375	12544	1.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	577	463	547	529	11.10	cps
Cobalt	59-2	163	237	213	204	18.32	cps
Copper	63-2	2734	2664	2580	2659	2.89	cps
Dysprosium	156-1	7	0	3	3	100.05	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	40	40	23	34	27.94	cps
Erbium	164-2	37	30	17	28	36.66	cps
Gadolinium	160-1	17	17	13	16	12.40	cps
Gadolinium	160-2	237	217	197	217	9.23	cps
Holmium	165-1	4569153	4553750	4623711	4582205	0.80	cps
Holmium	165-2	3818471	3739646	3796091	3784736	1.07	cps
Indium	115-1	3950075	3943628	3986026	3959910	0.58	cps
Indium	115-2	1766697	1712396	1737176	1738757	1.56	cps
Iron	56-2	32338	32903	32555	32599	0.87	cps
Iron	57-2	1537	1670	1633	1613	4.27	cps
Iron	54-2	4001	3647	3831	3826	4.62	cps
Krypton	83-1	413	397	417	409	2.62	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1370	1433	1357	1387	2.95	cps
Lead	207-1	1280	1220	1173	1225	4.37	cps
Lead	208-1	5648	5659	5366	5557	2.99	cps
Lithium	6-1	576426	579603	574731	576920	0.43	cps
Magnesium	24-2	430	447	427	434	2.47	cps
Manganese	55-2	1260	1367	1227	1285	5.69	cps
Molybdenum	94-1	167	170	177	171	2.98	cps
Molybdenum	95-1	87	90	77	84	8.22	cps
Molybdenum	96-1	207	197	213	206	4.08	cps
Molybdenum	97-1	33	40	47	40	16.68	cps
Molybdenum	98-1	127	123	103	118	10.72	cps
Neodymium	150-1	0	7	7	4	86.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	367	313	337	339	7.89	cps
Phosphorus	31-2	290	303	297	297	2.25	cps
Potassium	39-2	59422	60553	58144	59373	2.03	cps
Rhodium	103-1	3759350	3759455	3838653	3785819	1.21	cps
Rhodium	103-2	2496242	2428210	2475178	2466544	1.41	cps
Scandium	45-1	2346224	2317089	2269273	2310862	1.68	cps
Scandium	45-2	204765	203373	203894	204011	0.34	cps
Selenium	82-1	224	250	211	228	8.87	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	1107	987	1003	1032	6.30	cps
Silicon	28-1	1507023	1544775	1536685	1529494	1.30	cps
Silver	107-1	50	93	43	62	43.63	cps
Silver	109-1	33	37	27	32	15.80	cps
Sodium	23-2	16289	16159	16335	16261	0.56	cps
Strontium	86-1	763	693	803	753	7.39	cps
Strontium	88-1	273	200	233	236	15.59	cps
Sulfur	34-1	128807	129324	127980	128704	0.53	cps
Terbium	159-1	4700841	4675924	4637788	4671517	0.68	cps
Terbium	159-2	3830940	3774271	3697360	3767524	1.78	cps
Thallium	203-1	317	367	373	352	8.79	cps
Thallium	205-1	810	913	820	848	6.72	cps
Tin	118-1	1303	1557	1300	1387	10.62	cps
Titanium	47-1	80	53	57	63	22.94	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:50:55	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	400	350	380	377	6.68	cps
Vanadium	51-2	67	50	27	48	42.05	cps
Yttrium	89-1	6805156	6854697	6822566	6827473	0.37	cps
Yttrium	89-2	2172413	2187272	2122145	2160610	1.58	cps
Zinc	66-2	1110	1103	1160	1125	2.75	cps
Zirconium	90-1	340	413	380	378	9.72	cps
Zirconium	91-1	63	70	93	76	20.85	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15676905	15817389	15797601	15763965	0.48	cps
Antimony	121-1	6225	6148	6535	6303	3.25	cps
Arsenic	75-2	250	270	240	253	6.03	cps
Barium	135-1	2370	2160	2174	2235	5.26	cps
Barium	137-1	3657	3744	3667	3689	1.29	cps
Beryllium	9-1	373	347	290	337	12.64	cps
Bismuth	209-1	2666808	2724520	2712277	2701201	1.13	cps
Bismuth	209-2	2621001	2633488	2614320	2622936	0.37	cps
Bromine	81-1	33622	33471	32429	33174	1.96	cps
Bromine	81-2	413	343	343	367	11.02	cps
Cadmium	108-1	893	780	867	847	7.00	cps
Cadmium	106-1	1497	1507	1247	1417	10.40	cps
Cadmium	111-1	1652	1569	1376	1532	9.25	cps
Calcium	43-1	1836912	1825647	1778428	1813662	1.71	cps
Calcium	44-1	29994649	29743534	29813073	29850418	0.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	55371	55461	55395	55409	0.08	cps
Cobalt	59-2	5481	5531	5661	5558	1.67	cps
Copper	63-2	37617	38469	38636	38241	1.43	cps
Dysprosium	156-1	20	33	10	21	55.45	cps
Dysprosium	156-2	27	13	37	26	45.82	cps
Erbium	164-1	57	40	37	44	24.11	cps
Erbium	164-2	43	7	27	26	71.82	cps
Gadolinium	160-1	50	27	33	37	32.78	cps
Gadolinium	160-2	213	257	230	233	9.37	cps
Holmium	165-1	4570030	4708885	4579924	4619613	1.68	cps
Holmium	165-2	3799675	3841595	3844225	3828498	0.65	cps
Indium	115-1	3890999	3785803	3802899	3826567	1.48	cps
Indium	115-2	1642593	1632890	1666370	1647285	1.05	cps
Iron	56-2	287586596	286655249	280584176	284942007	1.33	cps
Iron	57-2	7056676	6926659	7129359	7037565	1.46	cps
Iron	54-2	15568239	15368036	15602757	15513010	0.82	cps
Krypton	83-1	403	407	467	426	8.38	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21467	20869	21944	21427	2.51	cps
Lead	207-1	17064	16914	17047	17008	0.48	cps
Lead	208-1	80266	79727	82174	80723	1.59	cps
Lithium	6-1	565747	567414	559042	564067	0.79	cps
Magnesium	24-2	26660775	26825205	26612690	26699557	0.42	cps
Manganese	55-2	19142	18952	19126	19073	0.55	cps
Molybdenum	94-1	3923620	3798056	3809891	3843856	1.80	cps
Molybdenum	95-1	6773249	6779953	6658946	6737383	1.01	cps
Molybdenum	96-1	7258880	7146950	7079727	7161852	1.26	cps
Molybdenum	97-1	4236692	4146065	4125041	4169266	1.42	cps
Molybdenum	98-1	10757729	10681590	10604532	10681284	0.72	cps
Neodymium	150-1	27	27	27	27	0.00	cps
Neodymium	150-2	33	23	20	26	27.15	cps
Nickel	60-2	6161	6168	5825	6051	3.25	cps
Phosphorus	31-2	886134	882862	884546	884514	0.19	cps
Potassium	39-2	37340019	37383192	37730915	37484709	0.57	cps
Rhodium	103-1	3576969	3523194	3528738	3542967	0.83	cps
Rhodium	103-2	2377571	2318659	2320975	2339069	1.43	cps
Scandium	45-1	2227455	2230132	2205565	2221051	0.61	cps
Scandium	45-2	196145	199183	198962	198096	0.85	cps
Selenium	82-1	327	365	267	320	15.58	cps
Selenium	77-2	3	7	10	7	50.03	cps
Selenium	78-2	997	943	873	938	6.60	cps
Silicon	28-1	1478786	1445895	1436732	1453804	1.52	cps
Silver	107-1	167	253	337	252	33.70	cps
Silver	109-1	183	250	267	233	18.90	cps
Sodium	23-2	45435838	45451259	45397404	45428167	0.06	cps
Strontium	86-1	69892	69942	68421	69418	1.24	cps
Strontium	88-1	610176	609336	603997	607836	0.55	cps
Sulfur	34-1	3043518	3026595	2982582	3017565	1.04	cps
Terbium	159-1	4744178	4715731	4708145	4722685	0.40	cps
Terbium	159-2	3789123	3771360	3737092	3765859	0.70	cps
Thallium	203-1	790	977	1143	970	18.22	cps
Thallium	205-1	1787	2300	2717	2268	20.54	cps
Tin	118-1	3390	3567	3420	3459	2.73	cps
Titanium	47-1	1794065	1766899	1726711	1762558	1.92	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:54:13	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	593	670	630	631	6.08	cps
Vanadium	51-2	480	567	517	521	8.35	cps
Yttrium	89-1	6831891	6758793	6559696	6716793	2.10	cps
Yttrium	89-2	2126417	2128487	2099951	2118285	0.75	cps
Zinc	66-2	7005	6848	7112	6988	1.90	cps
Zirconium	90-1	517	450	417	461	11.04	cps
Zirconium	91-1	117	113	107	112	4.54	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	16742473	16722522	16992009	16819002	0.89	cps
Antimony	121-1	123811	128999	127946	126919	2.16	cps
Arsenic	75-2	8046	8629	8539	8405	3.74	cps
Barium	135-1	33363	34986	35106	34485	2.82	cps
Barium	137-1	58141	59162	60826	59377	2.28	cps
Beryllium	9-1	18968	19229	18751	18983	1.26	cps
Bismuth	209-1	3014410	2903253	2785915	2901193	3.94	cps
Bismuth	209-2	2741149	2715633	2680835	2712539	1.12	cps
Bromine	81-1	34607	34497	34022	34376	0.90	cps
Bromine	81-2	517	490	570	526	7.75	cps
Cadmium	108-1	3190	3157	3247	3198	1.42	cps
Cadmium	106-1	4794	4657	4788	4746	1.62	cps
Cadmium	111-1	36091	37486	38319	37299	3.02	cps
Calcium	43-1	1851798	1885744	1915151	1884231	1.68	cps
Calcium	44-1	30428486	31498600	31463913	31130333	1.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	117685	117802	117450	117646	0.15	cps
Cobalt	59-2	97011	97749	99756	98172	1.45	cps
Copper	63-2	103038	103351	106267	104219	1.71	cps
Dysprosium	156-1	23	17	23	21	18.21	cps
Dysprosium	156-2	27	13	43	28	54.11	cps
Erbium	164-1	43	73	47	54	30.20	cps
Erbium	164-2	43	23	47	38	33.41	cps
Gadolinium	160-1	33	27	50	37	32.78	cps
Gadolinium	160-2	217	183	210	203	8.67	cps
Holmium	165-1	5036120	4762490	4802942	4867184	3.03	cps
Holmium	165-2	3878539	3950559	3936109	3921736	0.97	cps
Indium	115-1	4229767	3941945	3986250	4052654	3.82	cps
Indium	115-2	1685111	1722279	1682355	1696582	1.31	cps
Iron	56-2	300207049	297898529	301155236	299753604	0.56	cps
Iron	57-2	7471123	7596065	7483053	7516747	0.92	cps
Iron	54-2	16462854	16402428	16586551	16483944	0.57	cps
Krypton	83-1	347	403	490	413	17.46	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	112947	117902	116393	115748	2.19	cps
Lead	207-1	98014	97748	98084	97949	0.18	cps
Lead	208-1	470986	481753	480672	477804	1.24	cps
Lithium	6-1	621996	575189	572079	589755	4.74	cps
Magnesium	24-2	27592063	27962774	27835066	27796634	0.68	cps
Manganese	55-2	72309	71533	72195	72012	0.58	cps
Molybdenum	94-1	3849346	4018789	4049119	3972418	2.71	cps
Molybdenum	95-1	6910384	7109539	7162626	7060850	1.88	cps
Molybdenum	96-1	7437048	7605222	7608029	7550100	1.30	cps
Molybdenum	97-1	4287208	4389012	4394543	4356921	1.39	cps
Molybdenum	98-1	10844649	11234956	11232754	11104120	2.02	cps
Neodymium	150-1	33	57	50	47	25.76	cps
Neodymium	150-2	37	7	23	22	67.63	cps
Nickel	60-2	29429	29673	29663	29588	0.47	cps
Phosphorus	31-2	931333	938426	939416	936392	0.47	cps
Potassium	39-2	39924732	39640160	40171520	39912137	0.67	cps
Rhodium	103-1	3939519	3733593	3686906	3786673	3.55	cps
Rhodium	103-2	2379172	2383137	2407227	2389845	0.64	cps
Scandium	45-1	2469435	2350106	2260374	2359972	4.44	cps
Scandium	45-2	204968	204116	204194	204426	0.23	cps
Selenium	82-1	3026	3038	3117	3061	1.61	cps
Selenium	77-2	413	303	383	367	15.51	cps
Selenium	78-2	2067	2184	2130	2127	2.75	cps
Silicon	28-1	1436196	1413805	1439054	1429685	0.97	cps
Silver	107-1	164993	172522	170978	169497	2.35	cps
Silver	109-1	156380	163042	163312	160911	2.44	cps
Sodium	23-2	47801781	47329693	47884423	47671965	0.63	cps
Strontium	86-1	70990	74032	74769	73264	2.73	cps
Strontium	88-1	628625	646158	648781	641188	1.71	cps
Sulfur	34-1	3071455	3187190	3182046	3146897	2.08	cps
Terbium	159-1	5163806	4939346	4928174	5010442	2.65	cps
Terbium	159-2	3900471	3912714	3855237	3889474	0.78	cps
Thallium	203-1	113747	118130	119081	116986	2.43	cps
Thallium	205-1	274065	277964	284836	278955	1.95	cps
Tin	118-1	2354	2784	2774	2637	9.31	cps
Titanium	47-1	1828607	1869836	1817570	1838671	1.50	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 15:57:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	833	787	810	810	2.88	cps
Vanadium	51-2	50879	52223	52230	51777	1.50	cps
Yttrium	89-1	7211613	6906261	6901077	7006317	2.54	cps
Yttrium	89-2	2169692	2195341	2193630	2186221	0.66	cps
Zinc	66-2	26410	26590	26484	26495	0.34	cps
Zirconium	90-1	1350	1287	1433	1357	5.42	cps
Zirconium	91-1	330	300	283	304	7.77	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9458927	9160651	9250285	9289954	1.65	cps
Antimony	121-1	3146559	3177271	3266548	3196793	1.95	cps
Arsenic	75-2	195706	194487	196459	195551	0.51	cps
Barium	135-1	4359742	4496861	4362119	4406240	1.78	cps
Barium	137-1	7553845	7533817	7571496	7553052	0.25	cps
Beryllium	9-1	449450	446128	447197	447592	0.38	cps
Bismuth	209-1	2738276	2712511	2685102	2711963	0.98	cps
Bismuth	209-2	2563565	2560001	2499092	2540886	1.43	cps
Bromine	81-1	33799	34367	34791	34319	1.45	cps
Bromine	81-2	243	247	263	251	4.27	cps
Cadmium	108-1	60050	61560	60763	60791	1.24	cps
Cadmium	106-1	87072	87827	86777	87225	0.62	cps
Cadmium	111-1	829225	842319	838527	836690	0.81	cps
Calcium	43-1	4740808	4718101	4775942	4744951	0.61	cps
Calcium	44-1	75519969	78703242	77338419	77187210	2.07	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1619919	1594484	1606090	1606831	0.79	cps
Cobalt	59-2	2447814	2477368	2438565	2454582	0.83	cps
Copper	63-2	18747108	18735103	18699768	18727327	0.13	cps
Dysprosium	156-1	127	137	140	134	5.16	cps
Dysprosium	156-2	270	237	277	261	8.21	cps
Erbium	164-1	173	160	160	164	4.68	cps
Erbium	164-2	107	120	143	123	15.05	cps
Gadolinium	160-1	113	87	113	104	14.74	cps
Gadolinium	160-2	237	257	260	251	5.03	cps
Holmium	165-1	4677298	4740911	4624283	4680831	1.25	cps
Holmium	165-2	3865080	3899642	3895200	3886641	0.48	cps
Indium	115-1	3822143	3809123	3785163	3805476	0.49	cps
Indium	115-2	1662254	1648031	1636804	1649030	0.77	cps
Iron	56-2	372034568	372331648	367034568	370466928	0.80	cps
Iron	57-2	9080902	9292250	9281333	9218162	1.29	cps
Iron	54-2	20168163	20175039	20475343	20272849	0.87	cps
Krypton	83-1	370	460	450	427	11.56	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12361755	12514098	12666379	12514078	1.22	cps
Lead	207-1	11120470	11159214	11237290	11172325	0.53	cps
Lead	208-1	51079551	51133399	50968587	51060512	0.16	cps
Lithium	6-1	570700	569670	570251	570207	0.09	cps
Magnesium	24-2	74937859	73710381	74095021	74247753	0.85	cps
Manganese	55-2	14461740	14519252	14561458	14514150	0.34	cps
Molybdenum	94-1	12322742	12589036	12392838	12434872	1.11	cps
Molybdenum	95-1	17673140	18015511	18075367	17921339	1.21	cps
Molybdenum	96-1	19470458	19418859	19803572	19564296	1.07	cps
Molybdenum	97-1	11205507	11251608	11095250	11184122	0.72	cps
Molybdenum	98-1	28920619	28802540	28633696	28785618	0.50	cps
Neodymium	150-1	220	287	300	269	15.94	cps
Neodymium	150-2	87	117	67	90	27.96	cps
Nickel	60-2	580337	579760	579045	579714	0.11	cps
Phosphorus	31-2	94409	94422	94915	94582	0.31	cps
Potassium	39-2	50186346	49898558	50229458	50104787	0.36	cps
Rhodium	103-1	3547055	3553108	3605690	3568618	0.90	cps
Rhodium	103-2	2339836	2302877	2282078	2308264	1.27	cps
Scandium	45-1	2262336	2285291	2289173	2278933	0.64	cps
Scandium	45-2	208072	206518	208419	207670	0.49	cps
Selenium	82-1	64132	65007	64922	64687	0.75	cps
Selenium	77-2	8596	8319	8286	8400	2.03	cps
Selenium	78-2	27980	29152	29202	28778	2.40	cps
Silicon	28-1	5496610	5563723	5634436	5564923	1.24	cps
Silver	107-1	4349313	4323389	4428264	4366989	1.25	cps
Silver	109-1	4133939	4227744	4120948	4160877	1.40	cps
Sodium	23-2	117872002	116170282	116101262	116714515	0.86	cps
Strontium	86-1	1033122	1046212	1044107	1041147	0.68	cps
Strontium	88-1	10039636	10280525	10370355	10230172	1.67	cps
Sulfur	34-1	386791	386506	386024	386440	0.10	cps
Terbium	159-1	4835472	4822215	4790257	4815981	0.48	cps
Terbium	159-2	3843107	3809290	3801779	3818059	0.58	cps
Thallium	203-1	3190104	3221256	3172051	3194470	0.78	cps
Thallium	205-1	7636924	7536675	7553062	7575554	0.71	cps
Tin	118-1	2882615	2907193	2903230	2897679	0.46	cps
Titanium	47-1	4535743	4630485	4594399	4586876	1.04	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:00:40	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10108613	10105694	10249854	10154720	0.81	cps
Vanadium	51-2	1410083	1384352	1422680	1405705	1.39	cps
Yttrium	89-1	6768737	6760749	6826854	6785447	0.53	cps
Yttrium	89-2	2157879	2138333	2144756	2146990	0.46	cps
Zinc	66-2	3542613	3589253	3541203	3557690	0.77	cps
Zirconium	90-1	6088659	6145374	6237830	6157287	1.22	cps
Zirconium	91-1	1228343	1248917	1255742	1244334	1.15	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1210	1270	1107	1196	6.91	cps
Antimony	121-1	410	400	390	400	2.50	cps
Arsenic	75-2	40	40	80	53	43.30	cps
Barium	135-1	127	93	73	98	27.56	cps
Barium	137-1	160	163	90	138	30.06	cps
Beryllium	9-1	153	53	83	97	53.09	cps
Bismuth	209-1	2912473	2879881	2957968	2916774	1.34	cps
Bismuth	209-2	2818382	2866915	2818257	2834518	0.99	cps
Bromine	81-1	34193	34500	34176	34290	0.53	cps
Bromine	81-2	237	250	313	267	15.36	cps
Cadmium	108-1	3	7	0	3	100.05	cps
Cadmium	106-1	1437	1347	1510	1431	5.72	cps
Cadmium	111-1	1100	1031	1197	1110	7.50	cps
Calcium	43-1	383	413	393	397	3.85	cps
Calcium	44-1	11882	11915	12059	11952	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	467	447	613	509	17.88	cps
Cobalt	59-2	207	177	227	203	12.38	cps
Copper	63-2	4641	4954	4707	4767	3.46	cps
Dysprosium	156-1	10	3	7	7	50.03	cps
Dysprosium	156-2	3	10	7	7	50.03	cps
Erbium	164-1	17	33	33	28	34.63	cps
Erbium	164-2	37	10	20	22	60.63	cps
Gadolinium	160-1	23	7	20	17	52.90	cps
Gadolinium	160-2	177	183	197	186	5.49	cps
Holmium	165-1	4839943	4750671	4764587	4785067	1.00	cps
Holmium	165-2	3894628	4025724	3919353	3946568	1.76	cps
Indium	115-1	4001806	4038593	4073065	4037821	0.88	cps
Indium	115-2	1773045	1802841	1737045	1770977	1.86	cps
Iron	56-2	30481	30638	30735	30618	0.42	cps
Iron	57-2	1290	1347	1557	1398	10.05	cps
Iron	54-2	3487	3364	3570	3474	2.99	cps
Krypton	83-1	423	467	450	447	4.89	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1407	1310	1350	1356	3.58	cps
Lead	207-1	1160	1333	1130	1208	9.09	cps
Lead	208-1	5758	5834	5768	5787	0.71	cps
Lithium	6-1	578243	580045	578523	578937	0.17	cps
Magnesium	24-2	557	603	537	566	6.05	cps
Manganese	55-2	1377	1473	1390	1413	3.71	cps
Molybdenum	94-1	323	267	340	310	12.40	cps
Molybdenum	95-1	263	200	240	234	13.66	cps
Molybdenum	96-1	340	293	363	332	10.73	cps
Molybdenum	97-1	140	167	153	153	8.70	cps
Molybdenum	98-1	363	377	387	376	3.12	cps
Neodymium	150-1	7	10	7	8	24.71	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	257	203	303	254	19.66	cps
Phosphorus	31-2	243	280	253	259	7.32	cps
Potassium	39-2	59753	59914	60570	60079	0.72	cps
Rhodium	103-1	3817388	3828582	3795598	3813856	0.44	cps
Rhodium	103-2	2540463	2521269	2521918	2527884	0.43	cps
Scandium	45-1	2321069	2235177	2297511	2284586	1.94	cps
Scandium	45-2	206670	204369	204397	205145	0.64	cps
Selenium	82-1	131	189	194	171	20.50	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	877	953	957	929	4.87	cps
Silicon	28-1	1397003	1380782	1361682	1379822	1.28	cps
Silver	107-1	103	170	160	144	24.89	cps
Silver	109-1	127	130	103	120	12.11	cps
Sodium	23-2	19539	18868	20147	19518	3.28	cps
Strontium	86-1	733	683	677	698	4.44	cps
Strontium	88-1	200	247	233	227	10.61	cps
Sulfur	34-1	113994	114408	113806	114069	0.27	cps
Terbium	159-1	4909247	4853197	4752628	4838357	1.64	cps
Terbium	159-2	3865846	3977644	3844065	3895852	1.84	cps
Thallium	203-1	897	923	813	878	6.54	cps
Thallium	205-1	2004	2000	1977	1994	0.73	cps
Tin	118-1	1250	1310	1360	1307	4.22	cps
Titanium	47-1	73	77	73	74	2.59	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:04:59	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	417	387	403	402	3.74	cps
Vanadium	51-2	27	37	27	30	19.24	cps
Yttrium	89-1	6945011	6870641	6890709	6902120	0.56	cps
Yttrium	89-2	2216338	2184272	2154635	2185082	1.41	cps
Zinc	66-2	673	680	750	701	6.06	cps
Zirconium	90-1	430	407	473	437	7.75	cps
Zirconium	91-1	110	107	87	101	12.48	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3464	3230	3464	3386	3.98	cps
Antimony	121-1	12192	12169	11832	12064	1.67	cps
Arsenic	75-2	493	660	420	524	23.45	cps
Barium	135-1	14748	14821	15739	15103	3.66	cps
Barium	137-1	25994	26321	26041	26118	0.68	cps
Beryllium	9-1	977	1083	1163	1074	8.72	cps
Bismuth	209-1	2839215	2902962	2891328	2877835	1.18	cps
Bismuth	209-2	2743521	2773220	2722772	2746504	0.92	cps
Bromine	81-1	32867	32740	33408	33005	1.08	cps
Bromine	81-2	297	283	260	280	6.63	cps
Cadmium	108-1	160	90	103	118	31.56	cps
Cadmium	106-1	1630	1713	1570	1638	4.40	cps
Cadmium	111-1	2673	2823	2754	2750	2.74	cps
Calcium	43-1	8803	9236	8953	8997	2.45	cps
Calcium	44-1	156430	157678	155946	156685	0.57	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6411	6008	6265	6228	3.28	cps
Cobalt	59-2	4787	4717	4764	4756	0.75	cps
Copper	63-2	10320	10157	10060	10179	1.29	cps
Dysprosium	156-1	17	10	10	12	31.50	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	47	23	33	34	34.00	cps
Erbium	164-2	7	30	23	20	60.08	cps
Gadolinium	160-1	10	20	10	13	43.30	cps
Gadolinium	160-2	170	247	177	198	21.47	cps
Holmium	165-1	4666470	4686658	4588159	4647095	1.12	cps
Holmium	165-2	3878196	3879816	3845884	3867965	0.49	cps
Indium	115-1	4063768	3961266	3965073	3996702	1.45	cps
Indium	115-2	1779058	1781630	1742080	1767589	1.25	cps
Iron	56-2	168765	168333	170150	169083	0.56	cps
Iron	57-2	4971	5478	5098	5182	5.09	cps
Iron	54-2	11408	11204	11088	11233	1.44	cps
Krypton	83-1	363	410	413	396	7.07	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5018	4991	5218	5075	2.44	cps
Lead	207-1	4411	4924	4441	4592	6.28	cps
Lead	208-1	22017	22293	22379	22229	0.85	cps
Lithium	6-1	579335	584245	570551	578044	1.20	cps
Magnesium	24-2	130293	128898	128253	129148	0.81	cps
Manganese	55-2	3714	3657	3917	3763	3.63	cps
Molybdenum	94-1	13416	13453	13610	13493	0.76	cps
Molybdenum	95-1	15682	15835	16036	15851	1.12	cps
Molybdenum	96-1	17724	17667	17964	17785	0.89	cps
Molybdenum	97-1	10090	9977	9697	9921	2.04	cps
Molybdenum	98-1	25122	25599	25249	25323	0.98	cps
Neodymium	150-1	7	0	3	3	100.05	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1223	1257	1267	1249	1.82	cps
Phosphorus	31-2	2670	2570	2704	2648	2.62	cps
Potassium	39-2	238348	238530	238233	238370	0.06	cps
Rhodium	103-1	3771508	3790685	3755209	3772467	0.47	cps
Rhodium	103-2	2481196	2487706	2536042	2501648	1.20	cps
Scandium	45-1	2302710	2267816	2270772	2280433	0.85	cps
Scandium	45-2	203099	203497	204126	203574	0.25	cps
Selenium	82-1	950	930	926	935	1.37	cps
Selenium	77-2	93	73	110	92	19.91	cps
Selenium	78-2	1280	1180	1287	1249	4.78	cps
Silicon	28-1	1416331	1398807	1395407	1403515	0.80	cps
Silver	107-1	9343	9253	9376	9324	0.68	cps
Silver	109-1	8736	8709	8556	8667	1.12	cps
Sodium	23-2	222917	221552	219888	221452	0.68	cps
Strontium	86-1	2714	2800	2897	2804	3.27	cps
Strontium	88-1	18855	18839	19209	18968	1.10	cps
Sulfur	34-1	122136	121821	122969	122309	0.49	cps
Terbium	159-1	4696015	4855075	4715505	4755532	1.82	cps
Terbium	159-2	3890238	3841774	3911812	3881275	0.92	cps
Thallium	203-1	6298	6275	6118	6230	1.57	cps
Thallium	205-1	14938	14895	14521	14785	1.55	cps
Tin	118-1	28041	27850	28004	27965	0.36	cps
Titanium	47-1	4151	4197	4284	4211	1.61	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:11:35	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17625	17785	17575	17662	0.62	cps
Vanadium	51-2	12265	12435	12062	12254	1.53	cps
Yttrium	89-1	6830244	6797575	6896952	6841591	0.74	cps
Yttrium	89-2	2216535	2202954	2164188	2194559	1.24	cps
Zinc	66-2	3894	4001	4097	3997	2.55	cps
Zirconium	90-1	11755	12272	12052	12026	2.16	cps
Zirconium	91-1	2700	2780	2647	2709	2.48	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	520	547	443	503	10.66	cps
Antimony	121-1	57	33	67	52	32.76	cps
Arsenic	75-2	13	30	30	24	39.37	cps
Barium	135-1	67	63	67	66	2.94	cps
Barium	137-1	80	87	127	98	25.81	cps
Beryllium	9-1	90	83	80	84	6.03	cps
Bismuth	209-1	2938051	2929351	2946521	2937975	0.29	cps
Bismuth	209-2	2803543	2833804	2792408	2809918	0.76	cps
Bromine	81-1	33201	34086	33521	33603	1.33	cps
Bromine	81-2	337	360	347	348	3.37	cps
Cadmium	108-1	13	10	7	10	33.30	cps
Cadmium	106-1	1560	1450	1357	1456	6.99	cps
Cadmium	111-1	1179	1078	1008	1089	7.90	cps
Calcium	43-1	433	430	477	447	5.83	cps
Calcium	44-1	12095	12089	11918	12034	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	557	497	523	526	5.72	cps
Cobalt	59-2	160	160	133	151	10.19	cps
Copper	63-2	3540	3417	3630	3529	3.04	cps
Dysprosium	156-1	3	7	10	7	50.03	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	17	17	27	20	28.86	cps
Erbium	164-2	20	20	20	20	0.00	cps
Gadolinium	160-1	37	27	20	28	30.20	cps
Gadolinium	160-2	220	207	200	209	4.87	cps
Holmium	165-1	4683474	4675830	4698133	4685812	0.24	cps
Holmium	165-2	3851241	3923928	3943220	3906129	1.24	cps
Indium	115-1	4073632	4073818	3984537	4043996	1.27	cps
Indium	115-2	1760428	1789580	1796001	1782003	1.06	cps
Iron	56-2	28571	28644	28824	28680	0.46	cps
Iron	57-2	1313	1320	1357	1330	1.75	cps
Iron	54-2	3737	3547	3597	3627	2.72	cps
Krypton	83-1	440	437	427	434	1.60	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1253	1320	1287	1287	2.59	cps
Lead	207-1	1117	1103	1063	1095	2.54	cps
Lead	208-1	5166	5104	4981	5084	1.85	cps
Lithium	6-1	584219	584012	577367	581866	0.67	cps
Magnesium	24-2	353	380	393	376	5.42	cps
Manganese	55-2	1367	1277	1353	1332	3.65	cps
Molybdenum	94-1	160	180	220	187	16.37	cps
Molybdenum	95-1	107	123	100	110	10.93	cps
Molybdenum	96-1	170	267	287	241	25.88	cps
Molybdenum	97-1	53	53	53	53	0.00	cps
Molybdenum	98-1	133	133	133	133	0.00	cps
Neodymium	150-1	0	0	0	0	0.00	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	257	300	330	296	12.48	cps
Phosphorus	31-2	263	233	277	258	8.61	cps
Potassium	39-2	57482	57552	57455	57496	0.09	cps
Rhodium	103-1	3812634	3782105	3786913	3793884	0.43	cps
Rhodium	103-2	2509514	2562535	2512514	2528188	1.18	cps
Scandium	45-1	2318252	2283217	2319709	2307059	0.90	cps
Scandium	45-2	208522	205893	205073	206496	0.87	cps
Selenium	82-1	183	186	199	189	4.53	cps
Selenium	77-2	3	3	7	4	43.40	cps
Selenium	78-2	1023	973	1070	1022	4.73	cps
Silicon	28-1	1415239	1392633	1415370	1407747	0.93	cps
Silver	107-1	43	70	77	63	27.85	cps
Silver	109-1	27	40	37	34	20.14	cps
Sodium	23-2	16666	16629	16729	16675	0.30	cps
Strontium	86-1	623	663	660	649	3.42	cps
Strontium	88-1	193	213	210	206	5.21	cps
Sulfur	34-1	118374	118958	119119	118817	0.33	cps
Terbium	159-1	4820262	4799157	4785769	4801730	0.36	cps
Terbium	159-2	3828198	3998750	3921332	3916094	2.18	cps
Thallium	203-1	537	440	543	507	11.41	cps
Thallium	205-1	1053	1200	1140	1131	6.52	cps
Tin	118-1	1300	1227	1110	1212	7.91	cps
Titanium	47-1	53	47	73	58	24.02	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BL	Instrumnet Name :	P7
Client Sample ID :	PB167118BL	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:18:25	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	350	437	347	378	13.51	cps
Vanadium	51-2	30	60	70	53	39.03	cps
Yttrium	89-1	6932800	6794820	6835673	6854431	1.03	cps
Yttrium	89-2	2173627	2168085	2190614	2177442	0.54	cps
Zinc	66-2	683	687	660	677	2.15	cps
Zirconium	90-1	350	293	360	334	10.75	cps
Zirconium	91-1	87	67	90	81	15.56	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1824757	1755292	1820277	1800109	2.16	cps
Antimony	121-1	3377392	3328318	3340505	3348738	0.76	cps
Arsenic	75-2	208132	204479	206705	206439	0.89	cps
Barium	135-1	4433331	4438232	4452070	4441211	0.22	cps
Barium	137-1	7600054	7657264	7699992	7652437	0.66	cps
Beryllium	9-1	465152	463795	469847	466265	0.68	cps
Bismuth	209-1	2969019	2895927	2932640	2932529	1.25	cps
Bismuth	209-2	2754760	2728854	2727392	2737002	0.56	cps
Bromine	81-1	34621	35055	33458	34378	2.40	cps
Bromine	81-2	507	570	533	537	5.93	cps
Cadmium	108-1	65286	66210	64975	65490	0.98	cps
Cadmium	106-1	93961	93713	94357	94010	0.35	cps
Cadmium	111-1	905161	910122	908903	908062	0.28	cps
Calcium	43-1	916356	912107	903085	910516	0.74	cps
Calcium	44-1	16111572	16170494	15840777	16040948	1.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1610040	1640675	1627153	1625956	0.94	cps
Cobalt	59-2	2546303	2518690	2516764	2527252	0.65	cps
Copper	63-2	19028976	18893749	18762250	18894992	0.71	cps
Dysprosium	156-1	50	77	43	57	31.13	cps
Dysprosium	156-2	177	213	190	193	9.60	cps
Erbium	164-1	30	37	73	47	49.99	cps
Erbium	164-2	60	73	67	67	10.00	cps
Gadolinium	160-1	43	37	43	41	9.35	cps
Gadolinium	160-2	223	200	207	210	5.72	cps
Holmium	165-1	4772670	4837427	4829935	4813344	0.74	cps
Holmium	165-2	3972405	3989200	3915922	3959175	0.97	cps
Indium	115-1	3973864	3932565	3926720	3944383	0.65	cps
Indium	115-2	1741969	1699387	1710143	1717166	1.29	cps
Iron	56-2	78597469	75624209	77016662	77079447	1.93	cps
Iron	57-2	1939981	1884703	1961004	1928563	2.04	cps
Iron	54-2	4347586	4289199	4284133	4306973	0.82	cps
Krypton	83-1	473	433	437	448	4.96	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13045995	12901339	12958386	12968573	0.56	cps
Lead	207-1	11484024	11793535	11621328	11632962	1.33	cps
Lead	208-1	53175928	53559704	53558607	53431413	0.41	cps
Lithium	6-1	600664	595851	599093	598536	0.41	cps
Magnesium	24-2	15215632	15006357	15070030	15097340	0.71	cps
Manganese	55-2	15083296	14667584	14517163	14756014	1.99	cps
Molybdenum	94-1	12771685	12610355	12687209	12689750	0.64	cps
Molybdenum	95-1	18274030	18273867	18272047	18273315	0.01	cps
Molybdenum	96-1	19744850	19621760	19797697	19721436	0.46	cps
Molybdenum	97-1	11320472	11196397	11257877	11258249	0.55	cps
Molybdenum	98-1	29430730	28696919	29271121	29132923	1.32	cps
Neodymium	150-1	233	170	193	199	16.11	cps
Neodymium	150-2	70	57	83	70	19.04	cps
Nickel	60-2	581296	581695	576983	579991	0.45	cps
Phosphorus	31-2	96404	93755	95271	95143	1.40	cps
Potassium	39-2	10225773	10128526	10266480	10206926	0.69	cps
Rhodium	103-1	3830196	3747191	3719838	3765742	1.53	cps
Rhodium	103-2	2513707	2434527	2409595	2452610	2.22	cps
Scandium	45-1	2350540	2288094	2232136	2290257	2.59	cps
Scandium	45-2	211773	204225	201746	205914	2.54	cps
Selenium	82-1	71808	71466	72230	71834	0.53	cps
Selenium	77-2	8943	9039	8779	8921	1.47	cps
Selenium	78-2	31447	30912	30381	30913	1.72	cps
Silicon	28-1	7107449	7038469	6958557	7034825	1.06	cps
Silver	107-1	4951350	4962903	4940553	4951602	0.23	cps
Silver	109-1	4706856	4721437	4653818	4694037	0.76	cps
Sodium	23-2	24267472	24197583	24098489	24187848	0.35	cps
Strontium	86-1	1060149	1060270	1058043	1059487	0.12	cps
Strontium	88-1	10430359	10392817	10518361	10447179	0.62	cps
Sulfur	34-1	395220	389159	389254	391211	0.89	cps
Terbium	159-1	4900083	4922428	4824468	4882327	1.05	cps
Terbium	159-2	3967974	4010467	3858129	3945523	1.99	cps
Thallium	203-1	3334637	3382717	3399126	3372160	0.99	cps
Thallium	205-1	7801924	7889494	7869315	7853578	0.58	cps
Tin	118-1	3035981	2957244	2952131	2981785	1.58	cps
Titanium	47-1	4680285	4666996	4683445	4676909	0.19	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	PB167118BS	Instrumnet Name :	P7
Client Sample ID :	PB167118BS	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:21:43	DataFile Name :	029LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10413277	10358673	10472754	10414901	0.55	cps
Vanadium	51-2	1403457	1400930	1429343	1411243	1.11	cps
Yttrium	89-1	7028020	6940870	6914868	6961253	0.85	cps
Yttrium	89-2	2251763	2156099	2128177	2178679	2.97	cps
Zinc	66-2	3776106	3751349	3705397	3744284	0.96	cps
Zirconium	90-1	6351854	6249048	6105582	6235494	1.98	cps
Zirconium	91-1	1383220	1407864	1252867	1347984	6.18	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9653	10617	9937	10069	4.92	cps
Antimony	121-1	603	650	700	651	7.43	cps
Arsenic	75-2	300	293	267	287	6.15	cps
Barium	135-1	115547	113360	115285	114731	1.04	cps
Barium	137-1	198536	198232	199559	198776	0.35	cps
Beryllium	9-1	170	140	230	180	25.46	cps
Bismuth	209-1	3210438	3187587	3113829	3170618	1.59	cps
Bismuth	209-2	3075577	3019342	3004899	3033273	1.23	cps
Bromine	81-1	45958	51346	53610	50305	7.81	cps
Bromine	81-2	5641	5554	5311	5502	3.11	cps
Cadmium	108-1	23	17	20	20	16.65	cps
Cadmium	106-1	1497	1680	1577	1585	5.80	cps
Cadmium	111-1	1268	1328	1320	1305	2.48	cps
Calcium	43-1	142198	141614	141544	141785	0.25	cps
Calcium	44-1	2504788	2561144	2570815	2545583	1.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5181	5064	5291	5179	2.19	cps
Cobalt	59-2	24487	24730	24750	24656	0.60	cps
Copper	63-2	10994	10814	10807	10872	0.97	cps
Dysprosium	156-1	3417	3470	3284	3390	2.84	cps
Dysprosium	156-2	3420	3090	3170	3227	5.34	cps
Erbium	164-1	4047	3981	4057	4028	1.03	cps
Erbium	164-2	3317	3364	3424	3368	1.59	cps
Gadolinium	160-1	3881	3787	3971	3879	2.36	cps
Gadolinium	160-2	3590	3607	3594	3597	0.25	cps
Holmium	165-1	5128214	5080042	4999863	5069373	1.28	cps
Holmium	165-2	4209244	4136042	4210388	4185224	1.02	cps
Indium	115-1	4322668	4415765	4335321	4357918	1.16	cps
Indium	115-2	1913534	1886079	1896954	1898856	0.73	cps
Iron	56-2	62021381	61725362	61439291	61728678	0.47	cps
Iron	57-2	1541800	1529566	1551139	1540835	0.70	cps
Iron	54-2	3417600	3353493	3390810	3387301	0.95	cps
Krypton	83-1	380	403	377	387	3.76	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3090	3054	3020	3055	1.15	cps
Lead	207-1	2750	2717	2604	2690	2.86	cps
Lead	208-1	12466	12035	12147	12216	1.83	cps
Lithium	6-1	640039	638410	627282	635244	1.09	cps
Magnesium	24-2	885370	878155	876684	880070	0.53	cps
Manganese	55-2	428042	418997	424035	423691	1.07	cps
Molybdenum	94-1	1427	1207	1267	1300	8.76	cps
Molybdenum	95-1	1313	1303	1380	1332	3.13	cps
Molybdenum	96-1	2974	3010	3080	3021	1.79	cps
Molybdenum	97-1	780	770	847	799	5.22	cps
Molybdenum	98-1	2094	2017	2003	2038	2.38	cps
Neodymium	150-1	4321	4391	4397	4370	0.97	cps
Neodymium	150-2	3217	3440	3130	3263	4.90	cps
Nickel	60-2	3264	3310	3334	3303	1.08	cps
Phosphorus	31-2	383	437	383	401	7.68	cps
Potassium	39-2	590355	581957	585652	585988	0.72	cps
Rhodium	103-1	4114039	4102372	4077019	4097810	0.46	cps
Rhodium	103-2	2749196	2643698	2749670	2714188	2.25	cps
Scandium	45-1	2484094	2450096	2463759	2465983	0.69	cps
Scandium	45-2	220494	219647	220113	220085	0.19	cps
Selenium	82-1	371	318	336	342	7.80	cps
Selenium	77-2	0	17	10	9	94.38	cps
Selenium	78-2	947	883	943	924	3.86	cps
Silicon	28-1	9796660	9897450	9696963	9797025	1.02	cps
Silver	107-1	187	130	157	158	17.97	cps
Silver	109-1	110	137	113	120	12.11	cps
Sodium	23-2	11345898	11108767	11145288	11199984	1.14	cps
Strontium	86-1	91764	92431	91224	91806	0.66	cps
Strontium	88-1	817001	810109	806409	811173	0.66	cps
Sulfur	34-1	273593	276792	275072	275152	0.58	cps
Terbium	159-1	5098275	5248115	5251589	5199326	1.68	cps
Terbium	159-2	4166842	4175010	4188961	4176937	0.27	cps
Thallium	203-1	873	750	680	768	12.75	cps
Thallium	205-1	1707	1697	1617	1673	2.95	cps
Tin	118-1	2177	2187	2334	2232	3.93	cps
Titanium	47-1	523	477	570	523	8.92	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-01	Instrumnet Name :	P7
Client Sample ID :	TAPIAL3-MW03D-03102	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:24:26	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2527	2294	2414	2411	4.84	cps
Vanadium	51-2	463	420	510	464	9.69	cps
Yttrium	89-1	7625130	7567356	7487557	7560014	0.91	cps
Yttrium	89-2	2382162	2335147	2377223	2364844	1.09	cps
Zinc	66-2	8019	7719	7545	7761	3.09	cps
Zirconium	90-1	917	940	1110	989	10.67	cps
Zirconium	91-1	300	263	227	263	13.92	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14079	13490	12743	13437	4.99	cps
Antimony	121-1	237	243	277	252	8.50	cps
Arsenic	75-2	7425	7459	7479	7454	0.36	cps
Barium	135-1	28091	26742	27453	27429	2.46	cps
Barium	137-1	47191	46864	46931	46995	0.37	cps
Beryllium	9-1	93	80	113	96	17.56	cps
Bismuth	209-1	3205360	3112435	3061195	3126330	2.34	cps
Bismuth	209-2	2912223	3026439	2995534	2978065	1.98	cps
Bromine	81-1	41886	42468	42501	42285	0.82	cps
Bromine	81-2	1993	1887	1913	1931	2.87	cps
Cadmium	108-1	3	10	17	10	66.70	cps
Cadmium	106-1	1747	1703	1647	1699	2.95	cps
Cadmium	111-1	1317	1265	1208	1263	4.33	cps
Calcium	43-1	40979	40561	39374	40305	2.06	cps
Calcium	44-1	682454	681378	675038	679623	0.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2737	2824	2707	2756	2.20	cps
Cobalt	59-2	420	447	433	433	3.08	cps
Copper	63-2	5915	5491	6155	5853	5.74	cps
Dysprosium	156-1	220	187	250	219	14.47	cps
Dysprosium	156-2	200	237	233	223	9.08	cps
Erbium	164-1	197	193	233	208	10.68	cps
Erbium	164-2	173	213	203	197	10.58	cps
Gadolinium	160-1	290	220	247	252	14.01	cps
Gadolinium	160-2	343	383	423	383	10.43	cps
Holmium	165-1	5157418	5118053	4998871	5091448	1.62	cps
Holmium	165-2	4146755	4151197	4187455	4161802	0.54	cps
Indium	115-1	4436732	4370289	4266775	4357932	1.97	cps
Indium	115-2	1869735	1864799	1893627	1876053	0.82	cps
Iron	56-2	73589622	73087011	73720731	73465788	0.46	cps
Iron	57-2	1838048	1846089	1828012	1837383	0.49	cps
Iron	54-2	4079457	4030517	4036739	4048904	0.66	cps
Krypton	83-1	410	403	470	428	8.58	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3567	3537	3987	3697	6.81	cps
Lead	207-1	3440	3364	3140	3315	4.70	cps
Lead	208-1	15459	15197	15048	15235	1.37	cps
Lithium	6-1	619607	615293	617411	617437	0.35	cps
Magnesium	24-2	153375	153727	151279	152794	0.87	cps
Manganese	55-2	218541	217155	217879	217858	0.32	cps
Molybdenum	94-1	2094	2080	1873	2016	6.12	cps
Molybdenum	95-1	1613	1617	1663	1631	1.71	cps
Molybdenum	96-1	3927	3884	3761	3857	2.24	cps
Molybdenum	97-1	1107	937	877	973	12.26	cps
Molybdenum	98-1	2737	2500	2494	2577	5.38	cps
Neodymium	150-1	397	487	403	429	11.69	cps
Neodymium	150-2	313	237	303	284	14.65	cps
Nickel	60-2	647	783	767	732	10.18	cps
Phosphorus	31-2	377	457	420	418	9.59	cps
Potassium	39-2	412214	413371	413585	413057	0.18	cps
Rhodium	103-1	4199220	4093933	4076738	4123297	1.61	cps
Rhodium	103-2	2709141	2708351	2660313	2692602	1.04	cps
Scandium	45-1	2522632	2479805	2411823	2471420	2.26	cps
Scandium	45-2	219227	219095	220921	219748	0.46	cps
Selenium	82-1	317	309	228	285	17.47	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	867	933	923	908	3.96	cps
Silicon	28-1	18253774	18543772	18408612	18402053	0.79	cps
Silver	107-1	70	97	113	93	23.42	cps
Silver	109-1	63	103	123	97	31.61	cps
Sodium	23-2	2001732	1958484	2019216	1993144	1.57	cps
Strontium	86-1	108026	107573	106270	107290	0.85	cps
Strontium	88-1	966047	955206	938387	953214	1.46	cps
Sulfur	34-1	119543	120147	124576	121422	2.26	cps
Terbium	159-1	5248434	5232042	5165177	5215218	0.85	cps
Terbium	159-2	4179234	4156608	4154411	4163418	0.33	cps
Thallium	203-1	537	573	547	552	3.43	cps
Thallium	205-1	1190	1233	1313	1246	5.02	cps
Tin	118-1	5661	6045	5581	5762	4.30	cps
Titanium	47-1	1527	1360	1453	1447	5.77	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:27:40	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1120	1037	1000	1052	5.84	cps
Vanadium	51-2	1580	1587	1597	1588	0.53	cps
Yttrium	89-1	7557444	7383926	7375302	7438891	1.38	cps
Yttrium	89-2	2354514	2313075	2375674	2347754	1.36	cps
Zinc	66-2	2300	2467	2047	2271	9.31	cps
Zirconium	90-1	2807	3000	2880	2896	3.37	cps
Zirconium	91-1	627	613	663	634	4.08	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19853	16718	14569	17047	15.59	cps
Antimony	121-1	207	200	180	196	7.10	cps
Arsenic	75-2	7165	7289	7629	7361	3.26	cps
Barium	135-1	27630	27457	26839	27308	1.52	cps
Barium	137-1	49017	46717	47245	47660	2.53	cps
Beryllium	9-1	100	113	117	110	8.02	cps
Bismuth	209-1	3194475	3051809	3027896	3091394	2.91	cps
Bismuth	209-2	2940236	2971787	2947333	2953119	0.56	cps
Bromine	81-1	40195	40515	40409	40373	0.40	cps
Bromine	81-2	1503	1513	1617	1545	4.06	cps
Cadmium	108-1	33	33	13	27	43.31	cps
Cadmium	106-1	1683	1693	1667	1681	0.80	cps
Cadmium	111-1	1238	1272	1244	1252	1.44	cps
Calcium	43-1	40969	41567	41841	41459	1.08	cps
Calcium	44-1	683331	680106	681145	681527	0.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3054	2924	2807	2928	4.22	cps
Cobalt	59-2	490	413	377	427	13.55	cps
Copper	63-2	5368	5311	5291	5323	0.75	cps
Dysprosium	156-1	160	260	253	224	24.91	cps
Dysprosium	156-2	267	333	257	286	14.60	cps
Erbium	164-1	183	253	197	211	17.61	cps
Erbium	164-2	170	163	190	174	7.95	cps
Gadolinium	160-1	267	217	253	246	10.54	cps
Gadolinium	160-2	343	397	407	382	8.91	cps
Holmium	165-1	5051962	5049179	4955751	5018964	1.09	cps
Holmium	165-2	4209511	3978200	4090195	4092635	2.83	cps
Indium	115-1	4339082	4360107	4242595	4313928	1.45	cps
Indium	115-2	1866774	1849755	1876003	1864177	0.71	cps
Iron	56-2	73748259	72363554	72444222	72852012	1.07	cps
Iron	57-2	1816297	1827613	1811758	1818556	0.45	cps
Iron	54-2	3986917	4048240	4000471	4011876	0.80	cps
Krypton	83-1	450	417	430	432	3.88	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3771	3797	3824	3797	0.70	cps
Lead	207-1	3541	3277	3277	3365	4.53	cps
Lead	208-1	15181	15071	15404	15219	1.12	cps
Lithium	6-1	621761	616440	616279	618160	0.50	cps
Magnesium	24-2	150973	153070	152138	152060	0.69	cps
Manganese	55-2	218734	216495	215563	216931	0.75	cps
Molybdenum	94-1	2124	1957	2257	2112	7.12	cps
Molybdenum	95-1	1513	1547	1420	1493	4.40	cps
Molybdenum	96-1	3911	3941	3761	3871	2.49	cps
Molybdenum	97-1	1180	1130	1080	1130	4.43	cps
Molybdenum	98-1	2557	2540	2357	2485	4.47	cps
Neodymium	150-1	417	343	367	376	9.98	cps
Neodymium	150-2	297	313	320	310	3.88	cps
Nickel	60-2	623	530	650	601	10.48	cps
Phosphorus	31-2	457	430	403	430	6.20	cps
Potassium	39-2	417287	419414	417861	418187	0.26	cps
Rhodium	103-1	4120742	4105653	4103144	4109846	0.23	cps
Rhodium	103-2	2690420	2621170	2629644	2647078	1.43	cps
Scandium	45-1	2515429	2492992	2502480	2503634	0.45	cps
Scandium	45-2	219110	218393	219923	219142	0.35	cps
Selenium	82-1	297	372	384	351	13.44	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	993	1047	913	984	6.82	cps
Silicon	28-1	18975649	18525853	18935346	18812283	1.32	cps
Silver	107-1	83	117	50	83	40.00	cps
Silver	109-1	117	83	53	84	37.52	cps
Sodium	23-2	1964430	2055175	1987629	2002411	2.35	cps
Strontium	86-1	109691	108331	107701	108574	0.94	cps
Strontium	88-1	963482	957986	944744	955404	1.01	cps
Sulfur	34-1	127234	128562	131379	129058	1.64	cps
Terbium	159-1	5166942	5208064	5125107	5166704	0.80	cps
Terbium	159-2	4131973	4049222	4022409	4067868	1.40	cps
Thallium	203-1	487	487	547	507	6.84	cps
Thallium	205-1	910	1040	1137	1029	11.06	cps
Tin	118-1	5985	5624	5958	5856	3.43	cps
Titanium	47-1	2027	3264	2067	2453	28.65	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:30:53	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1007	913	977	966	4.93	cps
Vanadium	51-2	1627	1543	1710	1627	5.12	cps
Yttrium	89-1	7540963	7549489	7423360	7504604	0.94	cps
Yttrium	89-2	2340853	2353650	2335001	2343168	0.41	cps
Zinc	66-2	1907	1877	1903	1896	0.87	cps
Zirconium	90-1	2964	2734	2874	2857	4.06	cps
Zirconium	91-1	1024	824	700	849	19.25	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	61962	57352	50489	56601	10.20	cps
Antimony	121-1	93	117	93	101	13.33	cps
Arsenic	75-2	1417	1530	1453	1467	3.94	cps
Barium	135-1	6408	5855	6188	6150	4.53	cps
Barium	137-1	10050	13745	9763	11186	19.85	cps
Beryllium	9-1	53	93	70	72	27.82	cps
Bismuth	209-1	2903128	2870120	2948686	2907312	1.36	cps
Bismuth	209-2	2818715	2781316	2853408	2817813	1.28	cps
Bromine	81-1	35586	35907	36418	35971	1.17	cps
Bromine	81-2	570	647	700	639	10.23	cps
Cadmium	108-1	27	20	13	20	33.35	cps
Cadmium	106-1	1500	1417	1443	1453	2.93	cps
Cadmium	111-1	1095	1058	1068	1073	1.78	cps
Calcium	43-1	8006	8016	8019	8013	0.09	cps
Calcium	44-1	134709	134850	133632	134397	0.50	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1743	1847	1590	1727	7.48	cps
Cobalt	59-2	237	270	227	244	9.28	cps
Copper	63-2	3717	3537	3714	3656	2.82	cps
Dysprosium	156-1	70	90	70	77	15.06	cps
Dysprosium	156-2	110	233	123	156	43.52	cps
Erbium	164-1	57	167	90	104	54.01	cps
Erbium	164-2	183	70	77	110	57.82	cps
Gadolinium	160-1	93	117	93	101	13.32	cps
Gadolinium	160-2	220	240	257	239	7.69	cps
Holmium	165-1	4740663	4667137	4760203	4722668	1.04	cps
Holmium	165-2	3894552	3849353	3929437	3891114	1.03	cps
Indium	115-1	4054280	4095287	4027469	4059012	0.84	cps
Indium	115-2	1791422	1782525	1835604	1803184	1.58	cps
Iron	56-2	13811809	13463819	13955029	13743552	1.84	cps
Iron	57-2	316615	317580	318700	317632	0.33	cps
Iron	54-2	700164	699908	697381	699151	0.22	cps
Krypton	83-1	477	470	453	467	2.57	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2020	2054	1803	1959	6.93	cps
Lead	207-1	1984	1580	1617	1727	12.93	cps
Lead	208-1	8023	7477	7191	7564	5.59	cps
Lithium	6-1	574970	580936	571843	575917	0.80	cps
Magnesium	24-2	30240	30200	29545	29995	1.30	cps
Manganese	55-2	43453	43088	43359	43300	0.44	cps
Molybdenum	94-1	4862	1624	6008	4165	54.59	cps
Molybdenum	95-1	567	533	563	554	3.31	cps
Molybdenum	96-1	1100	1263	1675	1346	21.99	cps
Molybdenum	97-1	260	340	273	291	14.72	cps
Molybdenum	98-1	790	777	763	777	1.72	cps
Neodymium	150-1	100	120	117	112	9.55	cps
Neodymium	150-2	180	223	107	170	34.70	cps
Nickel	60-2	600	493	483	526	12.30	cps
Phosphorus	31-2	400	307	337	348	13.70	cps
Potassium	39-2	146329	146362	137877	143522	3.41	cps
Rhodium	103-1	3864269	3905833	3863620	3877907	0.62	cps
Rhodium	103-2	2613223	2572904	2573711	2586613	0.89	cps
Scandium	45-1	2325455	2367791	2347779	2347009	0.90	cps
Scandium	45-2	207891	211489	211648	210343	1.01	cps
Selenium	82-1	185	207	190	194	5.78	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	1087	980	1023	1030	5.21	cps
Silicon	28-1	9429004	5779915	6004666	7071195	28.92	cps
Silver	107-1	70	73	67	70	4.76	cps
Silver	109-1	63	43	67	58	21.85	cps
Sodium	23-2	332474	330907	332912	332098	0.32	cps
Strontium	86-1	20488	20378	20040	20302	1.15	cps
Strontium	88-1	174286	172523	172787	173199	0.55	cps
Sulfur	34-1	115848	117158	115667	116224	0.70	cps
Terbium	159-1	4778277	4847883	4860708	4828956	0.92	cps
Terbium	159-2	3941330	3932598	3944466	3939465	0.16	cps
Thallium	203-1	410	403	367	393	5.93	cps
Thallium	205-1	987	997	997	993	0.58	cps
Tin	118-1	2367	2260	2320	2316	2.31	cps
Titanium	47-1	7053	8027	9151	8077	13.00	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:34:08	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	637	587	663	629	6.19	cps
Vanadium	51-2	1070	1307	1283	1220	10.69	cps
Yttrium	89-1	6934268	6993379	6969659	6965769	0.43	cps
Yttrium	89-2	2248127	2201357	2219419	2222968	1.06	cps
Zinc	66-2	2570	2634	2670	2625	1.93	cps
Zirconium	90-1	3118	4933	2847	3633	31.22	cps
Zirconium	91-1	5406	887	657	2316	115.60	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1671650	1694406	1663846	1676634	0.95	cps
Antimony	121-1	3405281	3411784	3245690	3354252	2.80	cps
Arsenic	75-2	7168	7058	6815	7014	2.58	cps
Barium	135-1	4125873	4046425	4004084	4058794	1.52	cps
Barium	137-1	7010049	6850433	6872433	6910972	1.25	cps
Beryllium	9-1	475699	465884	466873	469486	1.15	cps
Bismuth	209-1	3103423	3016345	3053849	3057872	1.43	cps
Bismuth	209-2	2810390	2973077	2910621	2898029	2.83	cps
Bromine	81-1	38380	38664	39329	38791	1.26	cps
Bromine	81-2	2034	1977	1843	1951	5.00	cps
Cadmium	108-1	62979	63388	61356	62574	1.72	cps
Cadmium	106-1	93800	92066	90754	92207	1.66	cps
Cadmium	111-1	894752	888962	874511	886075	1.18	cps
Calcium	43-1	929591	922146	901462	917733	1.59	cps
Calcium	44-1	16434075	16307087	15943033	16228065	1.57	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1546117	1544754	1502634	1531168	1.61	cps
Cobalt	59-2	2473485	2510067	2437940	2473830	1.46	cps
Copper	63-2	16686634	16530288	16483992	16566971	0.64	cps
Dysprosium	156-1	353	340	360	351	2.90	cps
Dysprosium	156-2	473	470	403	449	8.80	cps
Erbium	164-1	233	253	240	242	4.20	cps
Erbium	164-2	213	137	197	182	22.13	cps
Gadolinium	160-1	323	303	307	311	3.44	cps
Gadolinium	160-2	403	487	440	443	9.42	cps
Holmium	165-1	5050951	5085646	4945095	5027231	1.46	cps
Holmium	165-2	4180611	4173291	4130018	4161307	0.66	cps
Indium	115-1	4296924	4209702	4045819	4184148	3.05	cps
Indium	115-2	1759827	1785935	1741508	1762423	1.27	cps
Iron	56-2	133538578	133376391	131736925	132883965	0.75	cps
Iron	57-2	3362363	3304584	3350341	3339096	0.91	cps
Iron	54-2	7520258	7429847	7251702	7400602	1.85	cps
Krypton	83-1	440	440	513	464	9.12	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12971233	12956945	12810346	12912841	0.69	cps
Lead	207-1	11798614	11574714	11305375	11559568	2.14	cps
Lead	208-1	53497055	52621697	52154119	52757624	1.29	cps
Lithium	6-1	635758	629529	626317	630534	0.76	cps
Magnesium	24-2	14594691	14745251	14388175	14576039	1.23	cps
Manganese	55-2	13352039	13298782	13069321	13240047	1.13	cps
Molybdenum	94-1	6081163	6016226	5896343	5997911	1.56	cps
Molybdenum	95-1	6563801	6443319	6343061	6450060	1.71	cps
Molybdenum	96-1	7452508	7377867	7298679	7376351	1.04	cps
Molybdenum	97-1	4139664	4080942	3953766	4058124	2.34	cps
Molybdenum	98-1	10516149	10518302	10178661	10404371	1.88	cps
Neodymium	150-1	543	597	493	544	9.49	cps
Neodymium	150-2	343	317	607	422	37.99	cps
Nickel	60-2	558530	554387	548169	553695	0.94	cps
Phosphorus	31-2	413	410	420	414	1.23	cps
Potassium	39-2	9293940	9279606	9291672	9288406	0.08	cps
Rhodium	103-1	4104565	3983276	3977609	4021817	1.78	cps
Rhodium	103-2	2573887	2603696	2513479	2563687	1.79	cps
Scandium	45-1	2531377	2460550	2442822	2478250	1.89	cps
Scandium	45-2	215889	217307	217180	216792	0.36	cps
Selenium	82-1	72447	71935	70879	71754	1.11	cps
Selenium	77-2	9056	9106	8759	8974	2.09	cps
Selenium	78-2	30234	30511	30214	30320	0.55	cps
Silicon	28-1	17907516	17765356	17497370	17723414	1.18	cps
Silver	107-1	700323	692328	675112	689255	1.87	cps
Silver	109-1	654082	645041	635231	644785	1.46	cps
Sodium	23-2	24963516	25035101	24191281	24729966	1.89	cps
Strontium	86-1	1553675	1534794	1472590	1520353	2.79	cps
Strontium	88-1	13601237	13488727	13362898	13484287	0.88	cps
Sulfur	34-1	137384	137710	135410	136835	0.91	cps
Terbium	159-1	5204440	5194300	5066635	5155125	1.49	cps
Terbium	159-2	4072187	4163593	4135371	4123717	1.14	cps
Thallium	203-1	3193769	3307338	3162160	3221089	2.37	cps
Thallium	205-1	7678247	7590802	7534999	7601349	0.95	cps
Tin	118-1	2714787	2717435	2638515	2690246	1.67	cps
Titanium	47-1	2950	4958	6323	4744	35.76	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:37:24	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10288381	10141425	10149197	10193001	0.81	cps
Vanadium	51-2	1386802	1399264	1383946	1390004	0.59	cps
Yttrium	89-1	7456828	7322451	7262345	7347208	1.36	cps
Yttrium	89-2	2277275	2281269	2329605	2296050	1.27	cps
Zinc	66-2	3354660	3344784	3218662	3306035	2.29	cps
Zirconium	90-1	6249578	6150821	6080222	6160207	1.38	cps
Zirconium	91-1	1411854	1385630	1213222	1336902	8.07	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1819596	1788275	1746481	1784784	2.06	cps
Antimony	121-1	3348083	3349230	3306678	3334663	0.73	cps
Arsenic	75-2	6912	7125	7032	7023	1.52	cps
Barium	135-1	4001210	3975673	3933793	3970225	0.86	cps
Barium	137-1	6803579	6813196	6853271	6823349	0.39	cps
Beryllium	9-1	475610	465767	467394	469590	1.12	cps
Bismuth	209-1	3139199	3098033	3129584	3122272	0.69	cps
Bismuth	209-2	2958051	2926271	2908560	2930961	0.86	cps
Bromine	81-1	37665	38748	38660	38358	1.57	cps
Bromine	81-2	1887	1900	1893	1893	0.35	cps
Cadmium	108-1	64034	63237	62470	63247	1.24	cps
Cadmium	106-1	91278	91788	91412	91492	0.29	cps
Cadmium	111-1	882581	876654	876393	878543	0.40	cps
Calcium	43-1	909024	905362	905031	906472	0.24	cps
Calcium	44-1	16012140	16019799	16031632	16021190	0.06	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1539059	1520738	1535881	1531892	0.64	cps
Cobalt	59-2	2446349	2439997	2436739	2441028	0.20	cps
Copper	63-2	16846986	16808811	16942191	16865996	0.41	cps
Dysprosium	156-1	453	530	393	459	14.93	cps
Dysprosium	156-2	720	563	627	637	12.38	cps
Erbium	164-1	330	313	303	316	4.27	cps
Erbium	164-2	220	253	1008	494	90.27	cps
Gadolinium	160-1	380	453	330	388	16.00	cps
Gadolinium	160-2	520	380	433	444	15.90	cps
Holmium	165-1	5122266	5093691	5034290	5083416	0.88	cps
Holmium	165-2	4279205	4250363	4315062	4281543	0.76	cps
Indium	115-1	4323619	4124771	4202510	4216967	2.38	cps
Indium	115-2	1847877	1828851	1825855	1834195	0.65	cps
Iron	56-2	135821965	136410225	135075535	135769241	0.49	cps
Iron	57-2	3381760	3339530	3368481	3363257	0.64	cps
Iron	54-2	7489786	7434730	7452179	7458898	0.38	cps
Krypton	83-1	443	387	417	416	6.82	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13295514	12968434	12963254	13075734	1.46	cps
Lead	207-1	11735566	11617341	11608526	11653811	0.61	cps
Lead	208-1	53493755	53087870	53249205	53276943	0.38	cps
Lithium	6-1	650161	645753	635036	643650	1.21	cps
Magnesium	24-2	14636658	14642917	14759553	14679709	0.47	cps
Manganese	55-2	13460084	13209805	13538599	13402829	1.28	cps
Molybdenum	94-1	12418761	12285621	12377101	12360495	0.55	cps
Molybdenum	95-1	17970815	17728308	17727637	17808920	0.79	cps
Molybdenum	96-1	19409865	19498949	19062554	19323789	1.19	cps
Molybdenum	97-1	11150067	10867599	10919429	10979032	1.37	cps
Molybdenum	98-1	28452561	27716122	28099395	28089359	1.31	cps
Neodymium	150-1	747	807	700	751	7.12	cps
Neodymium	150-2	497	550	737	595	21.21	cps
Nickel	60-2	552788	552354	559243	554795	0.70	cps
Phosphorus	31-2	437	420	427	428	1.96	cps
Potassium	39-2	9557968	9444890	9405870	9469576	0.83	cps
Rhodium	103-1	4073686	4013542	3994628	4027285	1.03	cps
Rhodium	103-2	2618153	2641347	2578448	2612649	1.22	cps
Scandium	45-1	2459527	2433475	2444364	2445789	0.53	cps
Scandium	45-2	219200	219142	220702	219681	0.40	cps
Selenium	82-1	70085	70523	70714	70441	0.46	cps
Selenium	77-2	8866	8879	8473	8739	2.65	cps
Selenium	78-2	30435	29994	31527	30652	2.57	cps
Silicon	28-1	20715955	20386654	21139818	20747476	1.82	cps
Silver	107-1	677065	672411	668370	672616	0.65	cps
Silver	109-1	632783	628652	624840	628758	0.63	cps
Sodium	23-2	24941905	25033746	25246006	25073886	0.62	cps
Strontium	86-1	1564927	1510014	1501032	1525324	2.27	cps
Strontium	88-1	13195248	13325540	13365464	13295417	0.67	cps
Sulfur	34-1	121693	118949	117144	119262	1.92	cps
Terbium	159-1	5341568	5238201	5288035	5289268	0.98	cps
Terbium	159-2	4197448	4222159	4236523	4218710	0.47	cps
Thallium	203-1	3319186	3192520	3213718	3241808	2.09	cps
Thallium	205-1	7734700	7565111	7540133	7613315	1.39	cps
Tin	118-1	2721470	2709017	2729395	2719961	0.38	cps
Titanium	47-1	2791762	2860165	2844679	2832202	1.27	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:40:14	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10369733	10450325	10423475	10414511	0.39	cps
Vanadium	51-2	1405064	1383821	1369443	1386109	1.29	cps
Yttrium	89-1	7490019	7425202	7394587	7436603	0.66	cps
Yttrium	89-2	2320932	2332311	2334023	2329088	0.31	cps
Zinc	66-2	3329077	3367029	3297938	3331348	1.04	cps
Zirconium	90-1	6169207	6064954	6067413	6100525	0.98	cps
Zirconium	91-1	1229203	1215398	1216399	1220334	0.63	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1774521	1697620	1758152	1743431	2.32	cps
Antimony	121-1	3350615	3332872	3368484	3350657	0.53	cps
Arsenic	75-2	7118	7345	7202	7222	1.59	cps
Barium	135-1	4078558	4186252	4124786	4129865	1.31	cps
Barium	137-1	6935797	6975171	6947791	6952919	0.29	cps
Beryllium	9-1	471817	476925	475330	474691	0.55	cps
Bismuth	209-1	3173039	3138325	3215912	3175759	1.22	cps
Bismuth	209-2	3005357	3011913	2979841	2999037	0.56	cps
Bromine	81-1	38109	38995	39957	39020	2.37	cps
Bromine	81-2	2010	1960	2010	1993	1.45	cps
Cadmium	108-1	62611	62310	62450	62457	0.24	cps
Cadmium	106-1	93193	94058	92421	93224	0.88	cps
Cadmium	111-1	890181	908855	893588	897542	1.11	cps
Calcium	43-1	909737	918787	916840	915121	0.52	cps
Calcium	44-1	16042938	16311329	16258404	16204224	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1625161	1528746	1561640	1571849	3.12	cps
Cobalt	59-2	2526720	2530143	2529304	2528722	0.07	cps
Copper	63-2	17334406	17026106	17215138	17191883	0.90	cps
Dysprosium	156-1	403	367	307	359	13.60	cps
Dysprosium	156-2	467	697	840	668	28.21	cps
Erbium	164-1	240	300	300	280	12.37	cps
Erbium	164-2	373	227	267	289	26.25	cps
Gadolinium	160-1	330	370	313	338	8.62	cps
Gadolinium	160-2	443	437	430	437	1.53	cps
Holmium	165-1	5161898	5129300	5185346	5158848	0.55	cps
Holmium	165-2	4255605	4323584	4221997	4267062	1.21	cps
Indium	115-1	4260712	4276811	4193927	4243817	1.04	cps
Indium	115-2	1850904	1848261	1851172	1850112	0.09	cps
Iron	56-2	140222738	140345408	139214038	139927395	0.44	cps
Iron	57-2	3442222	3467002	3411523	3440249	0.81	cps
Iron	54-2	7794441	7502717	7552965	7616708	2.05	cps
Krypton	83-1	463	450	467	460	1.92	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13267460	13259418	13263575	13263484	0.03	cps
Lead	207-1	11814859	11942906	11924332	11894032	0.58	cps
Lead	208-1	54314696	54654165	54420613	54463158	0.32	cps
Lithium	6-1	636691	639217	636377	637429	0.24	cps
Magnesium	24-2	14998433	14786320	14817539	14867430	0.77	cps
Manganese	55-2	13795563	13510461	13706942	13670989	1.07	cps
Molybdenum	94-1	6669350	6612428	6627593	6636457	0.44	cps
Molybdenum	95-1	7665226	7643755	7624612	7644531	0.27	cps
Molybdenum	96-1	8479440	8577256	8573350	8543349	0.65	cps
Molybdenum	97-1	4687661	4820089	4724161	4743971	1.44	cps
Molybdenum	98-1	12170872	12252960	11969112	12130982	1.20	cps
Neodymium	150-1	707	653	590	650	8.99	cps
Neodymium	150-2	470	417	487	458	7.99	cps
Nickel	60-2	574357	563801	568467	568875	0.93	cps
Phosphorus	31-2	417	527	427	457	13.32	cps
Potassium	39-2	9606193	9522403	9537048	9555214	0.47	cps
Rhodium	103-1	4005137	4020682	3954696	3993505	0.86	cps
Rhodium	103-2	2644453	2626100	2613257	2627937	0.60	cps
Scandium	45-1	2469533	2477843	2472350	2473242	0.17	cps
Scandium	45-2	222706	221367	220004	221359	0.61	cps
Selenium	82-1	72750	72237	71789	72258	0.67	cps
Selenium	77-2	9283	9100	9306	9230	1.23	cps
Selenium	78-2	31958	31694	31393	31682	0.89	cps
Silicon	28-1	18340072	19009325	18705756	18685051	1.79	cps
Silver	107-1	691235	695084	697722	694680	0.47	cps
Silver	109-1	651889	651223	653055	652056	0.14	cps
Sodium	23-2	25339560	25256018	25469216	25354932	0.42	cps
Strontium	86-1	1554014	1537489	1551507	1547670	0.58	cps
Strontium	88-1	13523552	13584697	13387842	13498697	0.75	cps
Sulfur	34-1	117397	116154	116926	116825	0.54	cps
Terbium	159-1	5292917	5359313	5257710	5303313	0.97	cps
Terbium	159-2	4284085	4229576	4175836	4229832	1.28	cps
Thallium	203-1	3289263	3326016	3305276	3306852	0.56	cps
Thallium	205-1	7600022	7609662	7795071	7668252	1.43	cps
Tin	118-1	2734271	2694756	2757059	2728695	1.16	cps
Titanium	47-1	251806	258624	250006	253479	1.79	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1539-02A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01I-031025-	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:43:01	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10592901	10494876	10714426	10600734	1.04	cps
Vanadium	51-2	1444203	1404321	1403355	1417293	1.64	cps
Yttrium	89-1	7464164	7394978	7486465	7448536	0.64	cps
Yttrium	89-2	2340690	2322383	2350814	2337962	0.62	cps
Zinc	66-2	3398358	3404052	3446649	3416353	0.77	cps
Zirconium	90-1	6082729	6189971	6156864	6143188	0.89	cps
Zirconium	91-1	1242708	1235739	1240332	1239593	0.29	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9567898	9558324	9313963	9480062	1.52	cps
Antimony	121-1	3169201	3205488	3239096	3204595	1.09	cps
Arsenic	75-2	198995	199706	201161	199954	0.55	cps
Barium	135-1	4329138	4317420	4479781	4375446	2.07	cps
Barium	137-1	7424335	7656914	7647259	7576169	1.74	cps
Beryllium	9-1	493391	500839	503294	499175	1.03	cps
Bismuth	209-1	2798569	2799250	2730056	2775958	1.43	cps
Bismuth	209-2	2607910	2578024	2629932	2605289	1.00	cps
Bromine	81-1	34327	34824	34527	34559	0.72	cps
Bromine	81-2	383	333	380	366	7.65	cps
Cadmium	108-1	61379	62226	61567	61724	0.72	cps
Cadmium	106-1	87833	88407	88705	88315	0.50	cps
Cadmium	111-1	836104	845172	851369	844215	0.91	cps
Calcium	43-1	4717669	4686168	4769688	4724508	0.89	cps
Calcium	44-1	77303286	77694651	78795202	77931046	0.99	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1600748	1631700	1622864	1618437	0.99	cps
Cobalt	59-2	2471625	2574245	2488246	2511372	2.19	cps
Copper	63-2	19112020	19088671	19263887	19154859	0.50	cps
Dysprosium	156-1	120	157	93	123	25.78	cps
Dysprosium	156-2	303	277	310	297	5.95	cps
Erbium	164-1	197	137	160	164	18.39	cps
Erbium	164-2	183	103	160	149	27.63	cps
Gadolinium	160-1	137	123	90	117	20.60	cps
Gadolinium	160-2	300	313	253	289	10.91	cps
Holmium	165-1	4781973	4747678	4749508	4759720	0.41	cps
Holmium	165-2	3929151	3994899	3905113	3943054	1.18	cps
Indium	115-1	3773490	3842761	3798597	3804950	0.92	cps
Indium	115-2	1660873	1670726	1654604	1662068	0.49	cps
Iron	56-2	372712221	383602674	376535368	377616754	1.46	cps
Iron	57-2	9459974	9488955	9324728	9424552	0.93	cps
Iron	54-2	21080608	20825760	20435395	20780588	1.56	cps
Krypton	83-1	427	397	483	436	10.10	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12419116	12782063	12534611	12578597	1.47	cps
Lead	207-1	11094131	11228810	11315932	11212957	1.00	cps
Lead	208-1	50938631	51768813	51598395	51435280	0.85	cps
Lithium	6-1	588145	585549	583299	585664	0.41	cps
Magnesium	24-2	75649057	76326749	75598019	75857942	0.54	cps
Manganese	55-2	14836004	14646581	14539960	14674182	1.02	cps
Molybdenum	94-1	12208785	12598618	12697852	12501752	2.07	cps
Molybdenum	95-1	17843121	18266081	18035768	18048323	1.17	cps
Molybdenum	96-1	19581583	19641553	19801291	19674809	0.58	cps
Molybdenum	97-1	11037332	11089654	11209084	11112023	0.79	cps
Molybdenum	98-1	28453715	28567271	28736639	28585875	0.50	cps
Neodymium	150-1	247	260	253	253	2.63	cps
Neodymium	150-2	93	123	103	107	14.33	cps
Nickel	60-2	586858	590574	593749	590394	0.58	cps
Phosphorus	31-2	96237	97035	95740	96337	0.68	cps
Potassium	39-2	51299926	52038099	51992928	51776984	0.80	cps
Rhodium	103-1	3532896	3563968	3583338	3560068	0.71	cps
Rhodium	103-2	2338240	2342714	2345170	2342041	0.15	cps
Scandium	45-1	2272426	2264116	2251797	2262780	0.46	cps
Scandium	45-2	206386	210941	207031	208119	1.18	cps
Selenium	82-1	64026	65330	65261	64872	1.13	cps
Selenium	77-2	8332	8149	8456	8312	1.86	cps
Selenium	78-2	28517	28361	28741	28540	0.67	cps
Silicon	28-1	5467333	5725934	5551098	5581455	2.36	cps
Silver	107-1	4355025	4459495	4406947	4407156	1.19	cps
Silver	109-1	4138744	4287988	4228594	4218442	1.78	cps
Sodium	23-2	120087698	122019545	120120118	120742454	0.92	cps
Strontium	86-1	1027486	1050330	1044116	1040644	1.14	cps
Strontium	88-1	10178483	10328921	10262123	10256509	0.73	cps
Sulfur	34-1	377521	385571	387399	383497	1.37	cps
Terbium	159-1	4823398	4880518	4855375	4853097	0.59	cps
Terbium	159-2	3853791	3934119	3874033	3887315	1.07	cps
Thallium	203-1	3223067	3309670	3259716	3264151	1.33	cps
Thallium	205-1	7578187	7764121	7734071	7692126	1.30	cps
Tin	118-1	2895689	2924777	2990915	2937127	1.66	cps
Titanium	47-1	4573983	4595107	4571263	4580118	0.28	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:45:51	DataFile Name :	037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10329869	10396049	10482170	10402696	0.73	cps
Vanadium	51-2	1446362	1428525	1448486	1441124	0.76	cps
Yttrium	89-1	6785822	6855741	6824376	6821979	0.51	cps
Yttrium	89-2	2149859	2198667	2176545	2175024	1.12	cps
Zinc	66-2	3687402	3681260	3603292	3657318	1.28	cps
Zirconium	90-1	6182160	6310969	6323922	6272350	1.25	cps
Zirconium	91-1	1221250	1385520	1243636	1283469	6.94	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1243	1213	1183	1213	2.47	cps
Antimony	121-1	240	263	353	286	20.96	cps
Arsenic	75-2	27	30	17	24	28.38	cps
Barium	135-1	113	77	67	86	28.72	cps
Barium	137-1	143	107	107	119	17.81	cps
Beryllium	9-1	100	97	97	98	1.97	cps
Bismuth	209-1	2894221	2970726	2928061	2931003	1.31	cps
Bismuth	209-2	2834137	2795468	2767392	2798999	1.20	cps
Bromine	81-1	34447	32546	32930	33308	3.02	cps
Bromine	81-2	233	270	287	263	10.36	cps
Cadmium	108-1	7	10	30	16	81.11	cps
Cadmium	106-1	1373	1390	1380	1381	0.61	cps
Cadmium	111-1	1053	1086	1032	1057	2.59	cps
Calcium	43-1	367	390	333	363	7.84	cps
Calcium	44-1	11648	11895	11318	11620	2.49	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490	440	590	507	15.07	cps
Cobalt	59-2	173	187	140	167	14.42	cps
Copper	63-2	3477	3460	3580	3506	1.85	cps
Dysprosium	156-1	0	7	13	7	99.98	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	27	37	30	31	16.37	cps
Erbium	164-2	23	17	13	18	28.64	cps
Gadolinium	160-1	7	13	17	12	41.65	cps
Gadolinium	160-2	157	190	193	180	11.26	cps
Holmium	165-1	4735135	4681758	4733095	4716663	0.64	cps
Holmium	165-2	3878806	3927397	3847009	3884404	1.04	cps
Indium	115-1	3995040	3985608	4074380	4018343	1.21	cps
Indium	115-2	1761836	1741878	1779803	1761172	1.08	cps
Iron	56-2	29442	29813	30124	29793	1.14	cps
Iron	57-2	1410	1380	1457	1416	2.73	cps
Iron	54-2	3560	3514	3647	3574	1.89	cps
Krypton	83-1	403	433	407	414	3.97	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1270	1287	1337	1298	2.67	cps
Lead	207-1	953	1240	1213	1136	13.95	cps
Lead	208-1	5007	5390	5512	5303	4.97	cps
Lithium	6-1	578201	581379	573210	577596	0.71	cps
Magnesium	24-2	600	577	543	573	4.97	cps
Manganese	55-2	1427	1383	1523	1445	4.96	cps
Molybdenum	94-1	250	207	273	243	13.90	cps
Molybdenum	95-1	203	177	157	179	13.09	cps
Molybdenum	96-1	367	310	300	326	11.04	cps
Molybdenum	97-1	123	140	110	124	12.08	cps
Molybdenum	98-1	283	267	220	257	12.79	cps
Neodymium	150-1	0	7	3	3	100.05	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	293	307	307	302	2.55	cps
Phosphorus	31-2	250	223	213	229	8.28	cps
Potassium	39-2	57301	57836	57331	57489	0.52	cps
Rhodium	103-1	3850197	3809476	3761244	3806972	1.17	cps
Rhodium	103-2	2500250	2491495	2496145	2495963	0.18	cps
Scandium	45-1	2294120	2300020	2268558	2287566	0.73	cps
Scandium	45-2	200859	203103	202815	202259	0.60	cps
Selenium	82-1	210	225	227	221	4.06	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	897	823	1030	917	11.43	cps
Silicon	28-1	1385120	1367678	1411515	1388104	1.59	cps
Silver	107-1	317	487	420	408	21.01	cps
Silver	109-1	223	283	373	293	25.74	cps
Sodium	23-2	18855	18541	18067	18488	2.14	cps
Strontium	86-1	783	743	680	736	7.08	cps
Strontium	88-1	283	257	280	273	5.32	cps
Sulfur	34-1	107864	108562	109190	108539	0.61	cps
Terbium	159-1	4806236	4865196	4776324	4815919	0.94	cps
Terbium	159-2	3870071	3865471	3852965	3862836	0.23	cps
Thallium	203-1	843	790	790	808	3.81	cps
Thallium	205-1	1767	1960	1947	1891	5.71	cps
Tin	118-1	1217	1267	1310	1265	3.69	cps
Titanium	47-1	70	53	50	58	18.55	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 16:53:12	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	453	450	393	432	7.80	cps
Vanadium	51-2	23	63	60	49	45.40	cps
Yttrium	89-1	6886356	6849497	6931643	6889165	0.60	cps
Yttrium	89-2	2216974	2148718	2173595	2179762	1.58	cps
Zinc	66-2	740	777	703	740	4.95	cps
Zirconium	90-1	507	453	513	491	6.70	cps
Zirconium	91-1	93	123	137	118	18.85	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14814	14681	14153	14549	2.40	cps
Antimony	121-1	1540	1593	1487	1540	3.46	cps
Arsenic	75-2	33	47	47	42	18.24	cps
Barium	135-1	20769	20832	21353	20984	1.53	cps
Barium	137-1	36490	36503	36961	36652	0.73	cps
Beryllium	9-1	80	100	87	89	11.46	cps
Bismuth	209-1	2869017	2880901	2855989	2868636	0.43	cps
Bismuth	209-2	2751700	2757090	2764895	2757895	0.24	cps
Bromine	81-1	40753	42448	43039	42080	2.82	cps
Bromine	81-2	2847	2920	2974	2914	2.18	cps
Cadmium	108-1	37	13	27	26	45.82	cps
Cadmium	106-1	1690	1490	1470	1550	7.85	cps
Cadmium	111-1	1481	1344	1407	1411	4.86	cps
Calcium	43-1	77855	77892	76368	77372	1.12	cps
Calcium	44-1	1332397	1369099	1388942	1363479	2.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1097	910	1030	1012	9.35	cps
Cobalt	59-2	1803	1973	1787	1855	5.57	cps
Copper	63-2	14240	13786	13690	13905	2.11	cps
Dysprosium	156-1	17	20	13	17	20.01	cps
Dysprosium	156-2	13	13	23	17	34.65	cps
Erbium	164-1	27	20	37	28	30.20	cps
Erbium	164-2	23	23	37	28	27.73	cps
Gadolinium	160-1	27	40	33	33	20.00	cps
Gadolinium	160-2	240	213	250	234	8.08	cps
Holmium	165-1	4819183	4780638	4768114	4789312	0.56	cps
Holmium	165-2	4052279	4022274	3937558	4004037	1.49	cps
Indium	115-1	4108965	4091900	4084252	4095039	0.31	cps
Indium	115-2	1784770	1778293	1775554	1779539	0.27	cps
Iron	56-2	2220010	2198819	2192394	2203741	0.66	cps
Iron	57-2	52385	53087	53237	52903	0.86	cps
Iron	54-2	112923	111704	114591	113073	1.28	cps
Krypton	83-1	440	417	470	442	6.05	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7659	7639	7766	7688	0.89	cps
Lead	207-1	6245	5985	6322	6184	2.85	cps
Lead	208-1	29333	29312	29682	29442	0.71	cps
Lithium	6-1	582270	580065	571552	577962	0.98	cps
Magnesium	24-2	48677	47216	48700	48198	1.76	cps
Manganese	55-2	195327	192611	193048	193662	0.75	cps
Molybdenum	94-1	393	287	380	353	16.45	cps
Molybdenum	95-1	330	290	370	330	12.12	cps
Molybdenum	96-1	633	543	570	582	7.94	cps
Molybdenum	97-1	227	200	157	194	18.17	cps
Molybdenum	98-1	563	523	507	531	5.48	cps
Neodymium	150-1	90	87	60	79	20.84	cps
Neodymium	150-2	63	40	30	44	38.48	cps
Nickel	60-2	1773	1610	1800	1728	5.95	cps
Phosphorus	31-2	337	323	290	317	7.59	cps
Potassium	39-2	605817	601020	606297	604378	0.48	cps
Rhodium	103-1	3842776	3839793	3715768	3799446	1.91	cps
Rhodium	103-2	2526936	2494425	2418122	2479828	2.25	cps
Scandium	45-1	2392470	2322750	2330598	2348606	1.63	cps
Scandium	45-2	206768	206555	206418	206580	0.09	cps
Selenium	82-1	189	314	259	254	24.64	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	943	963	907	938	3.06	cps
Silicon	28-1	2172249	2204526	2202140	2192972	0.82	cps
Silver	107-1	127	197	157	160	21.95	cps
Silver	109-1	130	167	133	143	14.15	cps
Sodium	23-2	71592152	71286592	70863591	71247445	0.51	cps
Strontium	86-1	58757	58680	58753	58730	0.07	cps
Strontium	88-1	513310	516862	516306	515493	0.37	cps
Sulfur	34-1	131106	131335	130612	131018	0.28	cps
Terbium	159-1	4825144	4889944	4836129	4850406	0.71	cps
Terbium	159-2	3997304	3942682	3856176	3932054	1.81	cps
Thallium	203-1	760	630	687	692	9.42	cps
Thallium	205-1	1437	1690	1497	1541	8.59	cps
Tin	118-1	2861	2627	2794	2760	4.36	cps
Titanium	47-1	290	230	220	247	15.35	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:56:33	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	610	567	487	554	11.29	cps
Vanadium	51-2	317	313	360	330	7.89	cps
Yttrium	89-1	7049816	6969773	7030971	7016854	0.60	cps
Yttrium	89-2	2235982	2206802	2170644	2204476	1.48	cps
Zinc	66-2	78347	78713	78954	78671	0.39	cps
Zirconium	90-1	617	580	533	577	7.24	cps
Zirconium	91-1	143	157	107	136	19.10	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	23705	23421	23027	23385	1.46	cps
Antimony	121-1	1593	1457	1537	1529	4.49	cps
Arsenic	75-2	53	60	60	58	6.67	cps
Barium	135-1	21122	21493	21950	21522	1.93	cps
Barium	137-1	37021	36727	37135	36961	0.57	cps
Beryllium	9-1	97	100	87	94	7.35	cps
Bismuth	209-1	2927353	2929227	2951142	2935907	0.45	cps
Bismuth	209-2	2843600	2829433	2741044	2804692	1.98	cps
Bromine	81-1	44216	45945	47754	45971	3.85	cps
Bromine	81-2	3497	3547	3857	3634	5.37	cps
Cadmium	108-1	37	33	27	32	15.80	cps
Cadmium	106-1	1587	1533	1437	1519	5.01	cps
Cadmium	111-1	1418	1397	1277	1364	5.58	cps
Calcium	43-1	78237	78502	78472	78404	0.19	cps
Calcium	44-1	1382830	1380030	1362247	1375036	0.81	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1153	1173	1113	1147	2.66	cps
Cobalt	59-2	1820	1943	1827	1863	3.72	cps
Copper	63-2	20901	21609	20344	20951	3.03	cps
Dysprosium	156-1	23	23	7	18	54.11	cps
Dysprosium	156-2	10	10	7	9	21.63	cps
Erbium	164-1	27	63	20	37	63.63	cps
Erbium	164-2	30	33	53	39	32.45	cps
Gadolinium	160-1	30	17	20	22	31.22	cps
Gadolinium	160-2	227	213	217	219	3.17	cps
Holmium	165-1	4846958	4865163	4913869	4875330	0.71	cps
Holmium	165-2	4054986	4010188	4011027	4025400	0.64	cps
Indium	115-1	4085661	4125332	4095413	4102135	0.50	cps
Indium	115-2	1852716	1803768	1781628	1812704	2.01	cps
Iron	56-2	2279353	2212006	2234639	2241999	1.53	cps
Iron	57-2	54525	54428	53672	54208	0.86	cps
Iron	54-2	116191	115915	114982	115696	0.55	cps
Krypton	83-1	397	483	487	456	11.20	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7462	7842	7492	7599	2.78	cps
Lead	207-1	6575	6455	6465	6498	1.03	cps
Lead	208-1	29902	30692	29552	30049	1.94	cps
Lithium	6-1	587308	587292	588368	587656	0.10	cps
Magnesium	24-2	49566	49753	49031	49450	0.76	cps
Manganese	55-2	200154	198486	197597	198746	0.65	cps
Molybdenum	94-1	490	490	490	490	0.00	cps
Molybdenum	95-1	503	370	410	428	16.00	cps
Molybdenum	96-1	653	617	730	667	8.67	cps
Molybdenum	97-1	313	287	380	327	14.72	cps
Molybdenum	98-1	697	837	690	741	11.18	cps
Neodymium	150-1	63	67	87	72	17.48	cps
Neodymium	150-2	50	40	37	42	16.43	cps
Nickel	60-2	2437	2194	2364	2331	5.36	cps
Phosphorus	31-2	300	330	263	298	11.21	cps
Potassium	39-2	614085	612608	615331	614008	0.22	cps
Rhodium	103-1	3897499	3868708	3839899	3868702	0.74	cps
Rhodium	103-2	2565570	2525831	2533147	2541516	0.83	cps
Scandium	45-1	2366012	2341417	2315898	2341109	1.07	cps
Scandium	45-2	214818	210709	207670	211066	1.70	cps
Selenium	82-1	312	262	212	262	19.07	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	957	1013	1013	994	3.29	cps
Silicon	28-1	2152305	2190754	2174916	2172658	0.89	cps
Silver	107-1	147	143	140	143	2.33	cps
Silver	109-1	140	117	100	119	16.90	cps
Sodium	23-2	72456411	73658301	71895024	72669912	1.24	cps
Strontium	86-1	59466	59741	58352	59186	1.24	cps
Strontium	88-1	522379	519434	520405	520739	0.29	cps
Sulfur	34-1	133779	135979	136308	135355	1.02	cps
Terbium	159-1	4958273	4935534	4910711	4934840	0.48	cps
Terbium	159-2	4036473	3992309	3945987	3991590	1.13	cps
Thallium	203-1	640	583	677	633	7.42	cps
Thallium	205-1	1323	1350	1527	1400	7.89	cps
Tin	118-1	2674	2677	2840	2730	3.49	cps
Titanium	47-1	800	783	747	777	3.51	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERDUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 16:59:50	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	540	673	480	564	17.53	cps
Vanadium	51-2	337	293	293	308	8.13	cps
Yttrium	89-1	6999084	7017799	7063868	7026917	0.47	cps
Yttrium	89-2	2266239	2224620	2244932	2245264	0.93	cps
Zinc	66-2	80117	81571	80382	80690	0.96	cps
Zirconium	90-1	693	630	677	667	4.92	cps
Zirconium	91-1	133	153	163	150	10.18	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5094	4901	5094	5030	2.22	cps
Antimony	121-1	430	410	370	403	7.57	cps
Arsenic	75-2	37	33	47	39	17.85	cps
Barium	135-1	4621	4547	4334	4501	3.31	cps
Barium	137-1	7839	7699	7579	7705	1.69	cps
Beryllium	9-1	87	57	93	79	24.75	cps
Bismuth	209-1	2997094	3054814	3024254	3025387	0.95	cps
Bismuth	209-2	2916989	2879756	2935387	2910711	0.97	cps
Bromine	81-1	42210	44230	44487	43642	2.86	cps
Bromine	81-2	2730	2687	2817	2745	2.41	cps
Cadmium	108-1	20	3	23	16	68.90	cps
Cadmium	106-1	1553	1577	1363	1498	7.81	cps
Cadmium	111-1	1173	1201	1091	1155	4.95	cps
Calcium	43-1	16626	16973	16719	16773	1.07	cps
Calcium	44-1	283583	286546	284433	284854	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	733	863	757	784	8.84	cps
Cobalt	59-2	470	500	507	492	3.97	cps
Copper	63-2	5664	5484	5474	5541	1.93	cps
Dysprosium	156-1	10	13	13	12	15.73	cps
Dysprosium	156-2	23	7	13	14	58.06	cps
Erbium	164-1	43	47	47	46	4.23	cps
Erbium	164-2	23	27	37	29	24.03	cps
Gadolinium	160-1	20	27	27	24	15.75	cps
Gadolinium	160-2	203	193	190	196	3.55	cps
Holmium	165-1	4867280	4857881	4819107	4848089	0.53	cps
Holmium	165-2	4123632	4128779	4004622	4085677	1.72	cps
Indium	115-1	4180679	4207086	4217009	4201591	0.45	cps
Indium	115-2	1820454	1841586	1804189	1822076	1.03	cps
Iron	56-2	439952	442019	437142	439704	0.56	cps
Iron	57-2	11908	11965	11681	11851	1.27	cps
Iron	54-2	25929	26617	26230	26258	1.31	cps
Krypton	83-1	373	467	393	411	11.95	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2324	2597	2700	2540	7.66	cps
Lead	207-1	2057	2264	2187	2169	4.82	cps
Lead	208-1	9584	10406	10602	10197	5.30	cps
Lithium	6-1	603127	594826	595733	597895	0.76	cps
Magnesium	24-2	14367	14467	14197	14343	0.95	cps
Manganese	55-2	43506	44001	42921	43476	1.24	cps
Molybdenum	94-1	400	387	363	383	4.84	cps
Molybdenum	95-1	187	130	140	152	19.87	cps
Molybdenum	96-1	313	323	273	303	8.72	cps
Molybdenum	97-1	100	73	93	89	15.61	cps
Molybdenum	98-1	253	237	223	238	6.32	cps
Neodymium	150-1	23	30	23	26	15.07	cps
Neodymium	150-2	33	13	20	22	45.83	cps
Nickel	60-2	623	570	590	594	4.53	cps
Phosphorus	31-2	210	303	267	260	18.09	cps
Potassium	39-2	169617	170082	168932	169543	0.34	cps
Rhodium	103-1	3857461	3949485	3897499	3901482	1.18	cps
Rhodium	103-2	2621749	2588309	2552990	2587683	1.33	cps
Scandium	45-1	2384959	2360672	2398454	2381362	0.80	cps
Scandium	45-2	213598	210678	208034	210770	1.32	cps
Selenium	82-1	300	166	243	236	28.45	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	1113	883	1023	1007	11.51	cps
Silicon	28-1	1687685	1685445	1676011	1683047	0.37	cps
Silver	107-1	107	83	130	107	21.88	cps
Silver	109-1	97	97	110	101	7.61	cps
Sodium	23-2	14280669	14289045	14538911	14369542	1.02	cps
Strontium	86-1	13043	12512	12896	12817	2.14	cps
Strontium	88-1	105122	105522	105713	105452	0.29	cps
Sulfur	34-1	122204	123101	123766	123023	0.64	cps
Terbium	159-1	4965916	4942426	5023767	4977370	0.84	cps
Terbium	159-2	3985531	4005585	3968369	3986495	0.47	cps
Thallium	203-1	553	630	563	582	7.16	cps
Thallium	205-1	1330	1507	1240	1359	9.98	cps
Tin	118-1	1403	1530	1503	1479	4.52	cps
Titanium	47-1	653	627	633	638	2.18	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02LDLX25	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERLDL	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:03:08	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	483	463	487	478	2.64	cps
Vanadium	51-2	80	93	77	83	10.58	cps
Yttrium	89-1	7063184	7109758	7085990	7086311	0.33	cps
Yttrium	89-2	2263011	2266826	2211317	2247051	1.38	cps
Zinc	66-2	17437	17467	17053	17319	1.33	cps
Zirconium	90-1	847	910	910	889	4.11	cps
Zirconium	91-1	223	180	170	191	14.84	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	294974	296541	291902	294472	0.80	cps
Antimony	121-1	567177	571081	572754	570337	0.50	cps
Arsenic	75-2	63	47	100	70	38.98	cps
Barium	135-1	688528	690144	694315	690996	0.43	cps
Barium	137-1	1196295	1196647	1208172	1200371	0.56	cps
Beryllium	9-1	89382	88755	89905	89347	0.64	cps
Bismuth	209-1	2964420	2987542	2925397	2959120	1.06	cps
Bismuth	209-2	2818548	2846540	2805739	2823609	0.74	cps
Bromine	81-1	43775	46062	47212	45683	3.83	cps
Bromine	81-2	3510	3751	3681	3647	3.38	cps
Cadmium	108-1	12152	12165	12852	12390	3.23	cps
Cadmium	106-1	18732	19089	18709	18843	1.13	cps
Cadmium	111-1	169407	170780	169398	169861	0.47	cps
Calcium	43-1	241238	244408	244455	243367	0.76	cps
Calcium	44-1	4196395	4346604	4333623	4292207	1.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	269425	269511	270024	269654	0.12	cps
Cobalt	59-2	437685	438378	430865	435642	0.95	cps
Copper	63-2	3331626	3291690	3337672	3320329	0.75	cps
Dysprosium	156-1	30	27	27	28	6.92	cps
Dysprosium	156-2	63	57	103	74	33.91	cps
Erbium	164-1	60	40	37	46	27.70	cps
Erbium	164-2	23	40	33	32	26.04	cps
Gadolinium	160-1	43	47	83	58	38.41	cps
Gadolinium	160-2	257	243	210	237	10.16	cps
Holmium	165-1	4948049	4872751	4872160	4897653	0.89	cps
Holmium	165-2	4059313	4112861	4093798	4088658	0.66	cps
Indium	115-1	4179384	4112914	4151739	4148012	0.81	cps
Indium	115-2	1769396	1800365	1757441	1775734	1.25	cps
Iron	56-2	15358918	15086156	15070608	15171894	1.07	cps
Iron	57-2	359819	353214	358670	357234	0.99	cps
Iron	54-2	785866	785509	781594	784323	0.30	cps
Krypton	83-1	423	467	473	454	5.97	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2494688	2478829	2411225	2461581	1.80	cps
Lead	207-1	2241911	2200592	2246265	2229590	1.13	cps
Lead	208-1	10188772	10091244	10219819	10166612	0.66	cps
Lithium	6-1	605902	604213	603812	604642	0.18	cps
Magnesium	24-2	2930931	2879959	2912505	2907798	0.89	cps
Manganese	55-2	2772163	2734801	2690785	2732583	1.49	cps
Molybdenum	94-1	2373510	2394078	2371926	2379838	0.52	cps
Molybdenum	95-1	3424330	3456176	3397352	3425953	0.86	cps
Molybdenum	96-1	3671578	3716497	3707930	3698668	0.64	cps
Molybdenum	97-1	2114227	2131508	2095960	2113899	0.84	cps
Molybdenum	98-1	5349858	5475414	5477616	5434296	1.35	cps
Neodymium	150-1	107	153	80	113	32.75	cps
Neodymium	150-2	50	47	67	54	19.68	cps
Nickel	60-2	110695	110315	109150	110053	0.73	cps
Phosphorus	31-2	210	313	287	270	19.87	cps
Potassium	39-2	2378090	2376687	2388281	2381019	0.27	cps
Rhodium	103-1	3876708	3782825	3844460	3834664	1.24	cps
Rhodium	103-2	2479161	2494917	2480547	2484875	0.35	cps
Scandium	45-1	2378092	2361990	2369123	2369735	0.34	cps
Scandium	45-2	212485	211086	209968	211180	0.60	cps
Selenium	82-1	13747	13773	13816	13779	0.25	cps
Selenium	77-2	1763	1697	1843	1768	4.15	cps
Selenium	78-2	6358	6425	6618	6467	2.09	cps
Silicon	28-1	2099337	2154318	2173409	2142355	1.80	cps
Silver	107-1	138513	139278	141525	139772	1.12	cps
Silver	109-1	129388	130881	132076	130782	1.03	cps
Sodium	23-2	73661922	71781402	73123822	72855716	1.33	cps
Strontium	86-1	296106	298665	298195	297656	0.46	cps
Strontium	88-1	2871427	2948324	2925157	2914969	1.35	cps
Sulfur	34-1	140226	138995	140418	139879	0.55	cps
Terbium	159-1	4920212	5023580	4958855	4967549	1.05	cps
Terbium	159-2	3996459	3999651	3974340	3990150	0.35	cps
Thallium	203-1	528694	540013	539274	535994	1.18	cps
Thallium	205-1	1243918	1253811	1259674	1252468	0.64	cps
Tin	118-1	464361	469861	473289	469171	0.96	cps
Titanium	47-1	485063	490371	490333	488589	0.62	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:06:36	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1940006	1963942	1996223	1966724	1.43	cps
Vanadium	51-2	245641	242514	242066	243407	0.80	cps
Yttrium	89-1	7190633	7027026	7078573	7098744	1.18	cps
Yttrium	89-2	2186489	2219126	2208839	2204818	0.76	cps
Zinc	66-2	658984	660203	661491	660226	0.19	cps
Zirconium	90-1	1046280	1053357	1055468	1051702	0.46	cps
Zirconium	91-1	235081	234339	237990	235803	0.82	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	298136	294106	292906	295049	0.93	cps
Antimony	121-1	572014	575542	569458	572338	0.53	cps
Arsenic	75-2	87	110	93	97	12.43	cps
Barium	135-1	691660	695645	693068	693458	0.29	cps
Barium	137-1	1203453	1205831	1197601	1202295	0.35	cps
Beryllium	9-1	90643	91900	90035	90859	1.05	cps
Bismuth	209-1	2964773	2879715	2941214	2928567	1.50	cps
Bismuth	209-2	2792117	2877675	2779755	2816516	1.89	cps
Bromine	81-1	42518	43982	45981	44160	3.94	cps
Bromine	81-2	3207	2984	3227	3139	4.30	cps
Cadmium	108-1	11942	12149	12439	12176	2.05	cps
Cadmium	106-1	18952	18749	19059	18920	0.83	cps
Cadmium	111-1	172687	170016	171629	171444	0.78	cps
Calcium	43-1	243425	241958	242439	242607	0.31	cps
Calcium	44-1	4276363	4229328	4264665	4256785	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	274785	271118	270964	272289	0.79	cps
Cobalt	59-2	438083	434899	435318	436100	0.40	cps
Copper	63-2	3425297	3356124	3435943	3405788	1.27	cps
Dysprosium	156-1	27	40	33	33	20.00	cps
Dysprosium	156-2	57	77	53	62	20.29	cps
Erbium	164-1	50	50	40	47	12.37	cps
Erbium	164-2	40	30	23	31	26.97	cps
Gadolinium	160-1	57	20	40	39	47.21	cps
Gadolinium	160-2	273	163	247	228	25.19	cps
Holmium	165-1	4971154	4819774	4809347	4866758	1.86	cps
Holmium	165-2	4032015	4073649	3977991	4027885	1.19	cps
Indium	115-1	4130235	4072754	4071396	4091462	0.82	cps
Indium	115-2	1755626	1777243	1773442	1768770	0.65	cps
Iron	56-2	15506354	15355590	16187889	15683278	2.83	cps
Iron	57-2	359987	357289	357607	358294	0.41	cps
Iron	54-2	792084	788537	783113	787912	0.57	cps
Krypton	83-1	363	397	507	422	17.76	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2541780	2536857	2471183	2516606	1.57	cps
Lead	207-1	2271090	2247060	2250310	2256154	0.58	cps
Lead	208-1	10269250	10412722	10253454	10311809	0.85	cps
Lithium	6-1	618971	610280	605561	611604	1.11	cps
Magnesium	24-2	2918425	2924503	2891541	2911490	0.60	cps
Manganese	55-2	2883442	2793382	2806243	2827689	1.72	cps
Molybdenum	94-1	2424897	2402289	2420621	2415936	0.50	cps
Molybdenum	95-1	3466387	3429362	3436983	3444244	0.57	cps
Molybdenum	96-1	3824636	3742396	3681605	3749546	1.91	cps
Molybdenum	97-1	2147838	2130606	2115819	2131421	0.75	cps
Molybdenum	98-1	5522070	5445389	5482596	5483352	0.70	cps
Neodymium	150-1	93	120	87	100	17.64	cps
Neodymium	150-2	83	30	63	59	45.75	cps
Nickel	60-2	112659	111873	110527	111686	0.97	cps
Phosphorus	31-2	263	240	300	268	11.30	cps
Potassium	39-2	2444455	2426032	2361435	2410641	1.81	cps
Rhodium	103-1	3885796	3759595	3712382	3785924	2.37	cps
Rhodium	103-2	2529498	2513040	2527989	2523509	0.36	cps
Scandium	45-1	2357813	2366684	2363209	2362569	0.19	cps
Scandium	45-2	210829	210173	207305	209435	0.89	cps
Selenium	82-1	13987	13799	13530	13772	1.67	cps
Selenium	77-2	1800	1733	1613	1716	5.51	cps
Selenium	78-2	6822	6832	6501	6718	2.80	cps
Silicon	28-1	2128720	2111215	2153678	2131205	1.00	cps
Silver	107-1	140627	140173	139550	140117	0.39	cps
Silver	109-1	132526	131645	133040	132404	0.53	cps
Sodium	23-2	73131211	73053331	72997272	73060604	0.09	cps
Strontium	86-1	298884	300794	295882	298520	0.83	cps
Strontium	88-1	2965887	2968185	2972127	2968733	0.11	cps
Sulfur	34-1	140398	140720	140459	140526	0.12	cps
Terbium	159-1	5038827	5003432	4899764	4980674	1.45	cps
Terbium	159-2	3974283	4043815	3962041	3993380	1.10	cps
Thallium	203-1	538042	540814	539198	539351	0.26	cps
Thallium	205-1	1269692	1271226	1267660	1269526	0.14	cps
Tin	118-1	466826	467571	463542	465979	0.46	cps
Titanium	47-1	490382	494165	489992	491513	0.47	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERMSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:09:36	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2015074	1990681	1985781	1997179	0.79	cps
Vanadium	51-2	247760	244744	244714	245739	0.71	cps
Yttrium	89-1	7128913	7148150	7125686	7134250	0.17	cps
Yttrium	89-2	2253572	2213681	2233781	2233678	0.89	cps
Zinc	66-2	669357	659277	664706	664447	0.76	cps
Zirconium	90-1	1050462	1057510	1053794	1053922	0.33	cps
Zirconium	91-1	236962	236814	236435	236737	0.11	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	293288	290080	288660	290676	0.82	cps
Antimony	121-1	555331	557626	556770	556576	0.21	cps
Arsenic	75-2	57	43	60	53	16.54	cps
Barium	135-1	672359	684957	674571	677296	0.99	cps
Barium	137-1	1152800	1172520	1167836	1164385	0.88	cps
Beryllium	9-1	87247	89282	87498	88009	1.26	cps
Bismuth	209-1	2829204	2896436	2815905	2847182	1.52	cps
Bismuth	209-2	2793324	2724249	2721139	2746237	1.49	cps
Bromine	81-1	42284	42441	42595	42440	0.37	cps
Bromine	81-2	2757	2767	2970	2831	4.25	cps
Cadmium	108-1	11385	11892	11648	11641	2.18	cps
Cadmium	106-1	17841	17945	18872	18219	3.12	cps
Cadmium	111-1	165720	167321	166354	166465	0.48	cps
Calcium	43-1	236700	236766	235756	236407	0.24	cps
Calcium	44-1	4112875	4183225	4188263	4161454	1.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	265914	262821	258714	262483	1.38	cps
Cobalt	59-2	425047	426987	416315	422783	1.34	cps
Copper	63-2	3222778	3260152	3157368	3213433	1.62	cps
Dysprosium	156-1	43	40	27	37	24.04	cps
Dysprosium	156-2	47	73	60	60	22.22	cps
Erbium	164-1	37	40	70	49	37.55	cps
Erbium	164-2	33	47	27	36	28.64	cps
Gadolinium	160-1	37	50	57	48	21.31	cps
Gadolinium	160-2	183	240	193	206	14.71	cps
Holmium	165-1	4683760	4739405	4749203	4724123	0.75	cps
Holmium	165-2	3981365	3924633	3873335	3926444	1.38	cps
Indium	115-1	3990142	3942762	3990652	3974519	0.69	cps
Indium	115-2	1718981	1726423	1767250	1737551	1.50	cps
Iron	56-2	15052912	14721897	14524932	14766580	1.81	cps
Iron	57-2	346639	345160	339879	343893	1.03	cps
Iron	54-2	758327	754381	747850	753519	0.70	cps
Krypton	83-1	417	420	413	417	0.80	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2433332	2398807	2364248	2398796	1.44	cps
Lead	207-1	2153834	2172861	2097097	2141264	1.84	cps
Lead	208-1	9917370	9931199	9700770	9849780	1.31	cps
Lithium	6-1	591742	595653	590206	592534	0.47	cps
Magnesium	24-2	2790339	2833451	2748372	2790720	1.52	cps
Manganese	55-2	2710967	2685120	2678573	2691553	0.64	cps
Molybdenum	94-1	989978	1000989	1006654	999207	0.85	cps
Molybdenum	95-1	1078150	1081125	1092601	1083958	0.70	cps
Molybdenum	96-1	1216984	1218664	1227542	1221063	0.46	cps
Molybdenum	97-1	678357	681000	679962	679773	0.20	cps
Molybdenum	98-1	1965033	1935695	1941529	1947419	0.80	cps
Neodymium	150-1	87	93	77	86	9.80	cps
Neodymium	150-2	67	60	60	62	6.19	cps
Nickel	60-2	108197	105753	106613	106854	1.16	cps
Phosphorus	31-2	320	257	317	298	11.97	cps
Potassium	39-2	2349409	2343660	2317826	2336965	0.72	cps
Rhodium	103-1	3711259	3695556	3702504	3703106	0.21	cps
Rhodium	103-2	2497110	2409876	2459634	2455540	1.78	cps
Scandium	45-1	2270829	2276070	2241441	2262780	0.82	cps
Scandium	45-2	204413	203742	204316	204157	0.18	cps
Selenium	82-1	13490	13363	13583	13478	0.82	cps
Selenium	77-2	1717	1567	1607	1630	4.77	cps
Selenium	78-2	6522	6285	6281	6363	2.16	cps
Silicon	28-1	2064993	2058714	2111602	2078437	1.39	cps
Silver	107-1	134059	136171	134463	134898	0.83	cps
Silver	109-1	126775	127182	127101	127019	0.17	cps
Sodium	23-2	71446416	71365644	69830559	70880873	1.28	cps
Strontium	86-1	289487	290564	292077	290709	0.45	cps
Strontium	88-1	2912710	2855793	2944818	2904440	1.55	cps
Sulfur	34-1	137915	138030	135480	137142	1.05	cps
Terbium	159-1	4840354	4823980	4781788	4815374	0.63	cps
Terbium	159-2	3981888	3936185	3857922	3925332	1.60	cps
Thallium	203-1	515638	532318	521044	523000	1.63	cps
Thallium	205-1	1220335	1248313	1227265	1231971	1.18	cps
Tin	118-1	451053	459433	452139	454208	1.00	cps
Titanium	47-1	817	827	1067	903	15.69	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1563-02ADLX5	Instrumnet Name :	P7
Client Sample ID :	FERNOT-WATERADL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:12:39	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1938933	1910655	1933421	1927670	0.78	cps
Vanadium	51-2	236926	238092	234246	236421	0.83	cps
Yttrium	89-1	6898876	6865441	6817317	6860544	0.60	cps
Yttrium	89-2	2238103	2171312	2177458	2195624	1.68	cps
Zinc	66-2	644521	640975	632247	639248	0.99	cps
Zirconium	90-1	1024765	1025346	1039760	1029957	0.82	cps
Zirconium	91-1	228258	229964	230379	229534	0.49	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	595240	606708	603901	601949	0.99	cps
Antimony	121-1	1943	1833	2047	1941	5.50	cps
Arsenic	75-2	1037	1023	1190	1083	8.55	cps
Barium	135-1	111613	112789	111529	111977	0.63	cps
Barium	137-1	192130	192319	192525	192325	0.10	cps
Beryllium	9-1	1667	1757	1720	1715	2.64	cps
Bismuth	209-1	3259971	3206859	3104297	3190375	2.48	cps
Bismuth	209-2	2962276	2934887	2991954	2963039	0.96	cps
Bromine	81-1	39172	40582	40449	40068	1.94	cps
Bromine	81-2	2010	2164	2204	2126	4.80	cps
Cadmium	108-1	63	80	83	76	14.18	cps
Cadmium	106-1	1813	1860	1883	1852	1.92	cps
Cadmium	111-1	1378	1443	1453	1425	2.85	cps
Calcium	43-1	89037	88567	89083	88896	0.32	cps
Calcium	44-1	1592003	1601738	1621553	1605098	0.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	88753	89386	89899	89346	0.64	cps
Cobalt	59-2	24587	24597	24523	24569	0.16	cps
Copper	63-2	79221	80056	79195	79491	0.62	cps
Dysprosium	156-1	88563	88208	89492	88755	0.75	cps
Dysprosium	156-2	83325	84093	84469	83962	0.69	cps
Erbium	164-1	70651	70446	70259	70452	0.28	cps
Erbium	164-2	56946	57946	57866	57586	0.97	cps
Gadolinium	160-1	91815	91271	91419	91502	0.31	cps
Gadolinium	160-2	76568	77901	77912	77460	1.00	cps
Holmium	165-1	5302450	5203818	5200691	5235653	1.11	cps
Holmium	165-2	4228612	4202362	4271809	4234261	0.83	cps
Indium	115-1	4478633	4393391	4386412	4419479	1.16	cps
Indium	115-2	1890881	1911068	1873722	1891890	0.99	cps
Iron	56-2	21538626	21671526	22177947	21796033	1.55	cps
Iron	57-2	504465	510870	513053	509463	0.88	cps
Iron	54-2	1099502	1115890	1119215	1111536	0.95	cps
Krypton	83-1	510	507	567	528	6.39	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	51685	51959	50698	51447	1.29	cps
Lead	207-1	41550	40654	40938	41047	1.12	cps
Lead	208-1	198295	198064	195755	197372	0.71	cps
Lithium	6-1	656798	635662	624607	639022	2.56	cps
Magnesium	24-2	301431	302659	300266	301452	0.40	cps
Manganese	55-2	266766	270777	271556	269700	0.95	cps
Molybdenum	94-1	27720	27653	27833	27735	0.33	cps
Molybdenum	95-1	20855	21152	20468	20825	1.65	cps
Molybdenum	96-1	25489	25542	25199	25410	0.73	cps
Molybdenum	97-1	13139	12999	13506	13215	1.98	cps
Molybdenum	98-1	33058	33589	33134	33260	0.86	cps
Neodymium	150-1	135147	136540	135103	135596	0.60	cps
Neodymium	150-2	96222	96887	96021	96377	0.47	cps
Nickel	60-2	14731	14117	15248	14698	3.85	cps
Phosphorus	31-2	2370	2460	2404	2411	1.89	cps
Potassium	39-2	732444	733837	736960	734413	0.31	cps
Rhodium	103-1	4256838	4115373	4109706	4160639	2.00	cps
Rhodium	103-2	2717598	2720721	2683455	2707258	0.76	cps
Scandium	45-1	2663683	2619637	2664846	2649389	0.97	cps
Scandium	45-2	232045	232496	235859	233466	0.89	cps
Selenium	82-1	513	511	440	488	8.53	cps
Selenium	77-2	320	383	343	349	9.18	cps
Selenium	78-2	1283	1300	1353	1312	2.79	cps
Silicon	28-1	36112775	36716724	36301013	36376838	0.85	cps
Silver	107-1	380	403	453	412	9.09	cps
Silver	109-1	430	380	447	419	8.28	cps
Sodium	23-2	8233423	8265083	8265804	8254770	0.22	cps
Strontium	86-1	138797	140235	140685	139906	0.70	cps
Strontium	88-1	1225186	1238251	1236988	1233475	0.58	cps
Sulfur	34-1	249502	245124	246193	246940	0.92	cps
Terbium	159-1	5469290	5421708	5315055	5402018	1.46	cps
Terbium	159-2	4268256	4291502	4258117	4272625	0.40	cps
Thallium	203-1	1413	1390	1367	1390	1.68	cps
Thallium	205-1	3407	3390	3267	3355	2.28	cps
Tin	118-1	4984	5208	4994	5062	2.49	cps
Titanium	47-1	51357	51049	51574	51327	0.51	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:15:42	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	85928	86921	85348	86066	0.92	cps
Vanadium	51-2	269580	271540	271540	270887	0.42	cps
Yttrium	89-1	8600902	8321633	8396541	8439692	1.71	cps
Yttrium	89-2	2652873	2642619	2644233	2646575	0.21	cps
Zinc	66-2	21219	21773	20985	21325	1.90	cps
Zirconium	90-1	43688	43892	43418	43666	0.55	cps
Zirconium	91-1	10140	9950	9673	9921	2.37	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	693238	703539	699164	698647	0.74	cps
Antimony	121-1	1907	1903	1963	1925	1.75	cps
Arsenic	75-2	1150	1180	1143	1158	1.69	cps
Barium	135-1	119194	118098	118468	118587	0.47	cps
Barium	137-1	202751	206037	205345	204711	0.85	cps
Beryllium	9-1	1620	1803	1690	1705	5.43	cps
Bismuth	209-1	3182883	3153809	3181739	3172810	0.52	cps
Bismuth	209-2	3032121	3040009	3039634	3037255	0.15	cps
Bromine	81-1	40983	40683	42732	41466	2.67	cps
Bromine	81-2	1997	2127	2090	2071	3.24	cps
Cadmium	108-1	83	73	50	69	24.83	cps
Cadmium	106-1	1907	1840	1930	1892	2.47	cps
Cadmium	111-1	1446	1413	1473	1444	2.06	cps
Calcium	43-1	92896	91833	92765	92498	0.63	cps
Calcium	44-1	1655783	1624661	1678057	1652834	1.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101117	99925	100059	100367	0.65	cps
Cobalt	59-2	25315	26119	25649	25694	1.57	cps
Copper	63-2	82620	82918	82134	82557	0.48	cps
Dysprosium	156-1	93649	94696	93297	93881	0.78	cps
Dysprosium	156-2	87182	88345	87443	87657	0.70	cps
Erbium	164-1	75335	75117	74728	75060	0.41	cps
Erbium	164-2	61511	62358	60832	61567	1.24	cps
Gadolinium	160-1	94671	96593	95483	95582	1.01	cps
Gadolinium	160-2	81783	81972	80439	81398	1.03	cps
Holmium	165-1	5189921	5228657	5158753	5192444	0.67	cps
Holmium	165-2	4268968	4396576	4320419	4328654	1.48	cps
Indium	115-1	4510505	4431055	4409008	4450189	1.20	cps
Indium	115-2	1968553	1944504	1932992	1948683	0.93	cps
Iron	56-2	24109433	24417402	24802406	24443080	1.42	cps
Iron	57-2	566511	566343	565157	566004	0.13	cps
Iron	54-2	1332200	1357121	1319685	1336336	1.43	cps
Krypton	83-1	507	693	537	579	17.32	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	51845	53274	52832	52650	1.39	cps
Lead	207-1	41771	42623	42510	42301	1.09	cps
Lead	208-1	199072	200756	200645	200158	0.47	cps
Lithium	6-1	624296	618943	622196	621811	0.43	cps
Magnesium	24-2	314069	321671	316076	317272	1.24	cps
Manganese	55-2	279685	282549	277565	279933	0.89	cps
Molybdenum	94-1	27275	27316	27680	27424	0.81	cps
Molybdenum	95-1	17390	17073	16419	16961	2.92	cps
Molybdenum	96-1	21259	21699	21399	21452	1.05	cps
Molybdenum	97-1	10514	10207	10257	10326	1.59	cps
Molybdenum	98-1	26701	26651	26534	26629	0.32	cps
Neodymium	150-1	143236	140673	143141	142350	1.02	cps
Neodymium	150-2	102358	101310	102002	101890	0.52	cps
Nickel	60-2	15612	15775	15618	15668	0.59	cps
Phosphorus	31-2	2614	2550	2720	2628	3.27	cps
Potassium	39-2	757090	767731	759408	761410	0.73	cps
Rhodium	103-1	4206256	4162692	4303455	4224134	1.71	cps
Rhodium	103-2	2806375	2757530	2714264	2759390	1.67	cps
Scandium	45-1	2721477	2644834	2609869	2658727	2.15	cps
Scandium	45-2	235040	238851	238448	237446	0.88	cps
Selenium	82-1	563	385	545	498	19.64	cps
Selenium	77-2	457	383	370	403	11.57	cps
Selenium	78-2	1183	1223	1210	1206	1.69	cps
Silicon	28-1	39603051	39380569	39488036	39490552	0.28	cps
Silver	107-1	500	433	507	480	8.45	cps
Silver	109-1	403	387	413	401	3.36	cps
Sodium	23-2	8412604	8606658	8448673	8489312	1.22	cps
Strontium	86-1	146929	149598	148027	148185	0.91	cps
Strontium	88-1	1289378	1293164	1295991	1292844	0.26	cps
Sulfur	34-1	243805	245309	246155	245090	0.49	cps
Terbium	159-1	5296616	5478678	5448522	5407939	1.80	cps
Terbium	159-2	4382308	4268256	4278771	4309778	1.46	cps
Thallium	203-1	1230	1353	1220	1268	5.86	cps
Thallium	205-1	2860	3067	2947	2958	3.51	cps
Tin	118-1	4791	4707	5081	4860	4.03	cps
Titanium	47-1	62402	58181	62832	61138	4.20	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUP	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:18:59	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	88444	88706	87965	88372	0.43	cps
Vanadium	51-2	291231	295044	294723	293666	0.72	cps
Yttrium	89-1	8603609	8568967	8631094	8601223	0.36	cps
Yttrium	89-2	2679658	2765471	2720902	2722010	1.58	cps
Zinc	66-2	22333	22273	21866	22158	1.15	cps
Zirconium	90-1	49364	49246	49212	49274	0.16	cps
Zirconium	91-1	11098	11301	11348	11249	1.18	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	118130	117630	117623	117795	0.25	cps
Antimony	121-1	440	353	347	380	13.70	cps
Arsenic	75-2	290	233	237	253	12.55	cps
Barium	135-1	21116	21166	20635	20972	1.40	cps
Barium	137-1	36483	36032	36577	36364	0.80	cps
Beryllium	9-1	363	353	383	367	4.17	cps
Bismuth	209-1	2995013	2981361	2892639	2956338	1.88	cps
Bismuth	209-2	2879132	2809412	2806103	2831549	1.46	cps
Bromine	81-1	37975	37995	38387	38119	0.61	cps
Bromine	81-2	717	810	677	734	9.32	cps
Cadmium	108-1	20	20	33	24	31.49	cps
Cadmium	106-1	1600	1527	1553	1560	2.38	cps
Cadmium	111-1	1209	1111	1151	1157	4.26	cps
Calcium	43-1	17771	17223	17157	17383	1.94	cps
Calcium	44-1	289053	286673	284485	286737	0.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17126	17253	17420	17267	0.85	cps
Cobalt	59-2	4771	4624	4691	4695	1.56	cps
Copper	63-2	17637	17367	17410	17471	0.83	cps
Dysprosium	156-1	16480	16313	16033	16275	1.39	cps
Dysprosium	156-2	14705	15392	15365	15154	2.57	cps
Erbium	164-1	12986	12916	12686	12863	1.22	cps
Erbium	164-2	11041	10367	10908	10772	3.31	cps
Gadolinium	160-1	16743	16580	16703	16676	0.51	cps
Gadolinium	160-2	14441	13897	14147	14162	1.92	cps
Holmium	165-1	4966598	4930073	4818497	4905056	1.57	cps
Holmium	165-2	3998293	3987160	3921412	3968955	1.05	cps
Indium	115-1	4241739	4235968	4136978	4204895	1.40	cps
Indium	115-2	1786839	1793300	1799919	1793352	0.36	cps
Iron	56-2	4178653	4105280	4179680	4154538	1.03	cps
Iron	57-2	98604	95974	97826	97468	1.39	cps
Iron	54-2	217346	214088	216356	215930	0.77	cps
Krypton	83-1	467	543	433	481	11.72	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10487	10267	10457	10404	1.15	cps
Lead	207-1	8466	8293	8403	8387	1.05	cps
Lead	208-1	40419	39263	39402	39695	1.59	cps
Lithium	6-1	592611	583513	577395	584507	1.31	cps
Magnesium	24-2	56072	55684	56604	56120	0.82	cps
Manganese	55-2	52090	50799	50969	51286	1.37	cps
Molybdenum	94-1	4908	5094	5181	5061	2.76	cps
Molybdenum	95-1	3510	3580	3444	3512	1.95	cps
Molybdenum	96-1	4744	4321	4547	4537	4.67	cps
Molybdenum	97-1	2300	2217	2280	2266	1.92	cps
Molybdenum	98-1	5471	5544	5431	5482	1.05	cps
Neodymium	150-1	25289	25557	24845	25230	1.42	cps
Neodymium	150-2	18075	18122	18102	18100	0.13	cps
Nickel	60-2	3020	3057	2930	3003	2.17	cps
Phosphorus	31-2	710	667	700	692	3.28	cps
Potassium	39-2	183630	183343	184318	183764	0.27	cps
Rhodium	103-1	3943695	3896622	3875918	3905412	0.89	cps
Rhodium	103-2	2610187	2538533	2568553	2572424	1.40	cps
Scandium	45-1	2413393	2401691	2391755	2402280	0.45	cps
Scandium	45-2	214084	210693	214514	213097	0.98	cps
Selenium	82-1	248	190	296	245	21.77	cps
Selenium	77-2	70	63	47	60	20.03	cps
Selenium	78-2	1103	1033	967	1034	6.61	cps
Silicon	28-1	8159971	8075899	8142839	8126236	0.55	cps
Silver	107-1	190	180	283	218	26.17	cps
Silver	109-1	173	217	200	197	11.11	cps
Sodium	23-2	1528069	1539486	1511903	1526486	0.91	cps
Strontium	86-1	27075	27225	26748	27016	0.90	cps
Strontium	88-1	234281	230306	230353	231647	0.98	cps
Sulfur	34-1	127154	127335	126945	127144	0.15	cps
Terbium	159-1	5161046	4993668	4951157	5035290	2.20	cps
Terbium	159-2	4067830	3930458	3907531	3968607	2.18	cps
Thallium	203-1	627	657	577	620	6.52	cps
Thallium	205-1	1490	1473	1367	1443	4.64	cps
Tin	118-1	2144	1833	1880	1952	8.56	cps
Titanium	47-1	9863	10494	10020	10126	3.24	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01LX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:22:12	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16417	15663	15536	15872	3.00	cps
Vanadium	51-2	50996	50210	49986	50397	1.05	cps
Yttrium	89-1	7558227	7449965	7354631	7454274	1.37	cps
Yttrium	89-2	2302739	2306244	2250344	2286442	1.37	cps
Zinc	66-2	4407	4417	4617	4481	2.64	cps
Zirconium	90-1	8683	8616	8673	8657	0.42	cps
Zirconium	91-1	1737	1980	1810	1842	6.78	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2242272	2292931	2278414	2271205	1.15	cps
Antimony	121-1	3156924	3146231	3092130	3131762	1.11	cps
Arsenic	75-2	1143	1060	1117	1107	3.85	cps
Barium	135-1	3986212	3886312	3908716	3927080	1.33	cps
Barium	137-1	6585132	6669500	6729547	6661393	1.09	cps
Beryllium	9-1	432507	435643	441062	436404	0.99	cps
Bismuth	209-1	2953764	2869912	2951142	2924939	1.63	cps
Bismuth	209-2	2776009	2755280	2799823	2777037	0.80	cps
Bromine	81-1	44343	43882	44815	44346	1.05	cps
Bromine	81-2	3370	3104	3384	3286	4.81	cps
Cadmium	108-1	60663	59277	60378	60106	1.22	cps
Cadmium	106-1	86539	86928	85590	86352	0.80	cps
Cadmium	111-1	833775	833866	828068	831903	0.40	cps
Calcium	43-1	915369	904532	912874	910925	0.62	cps
Calcium	44-1	16272209	16205250	16198294	16225251	0.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1576676	1570992	1573705	1573791	0.18	cps
Cobalt	59-2	2394480	2391995	2373778	2386751	0.47	cps
Copper	63-2	16236397	15799404	15831916	15955906	1.53	cps
Dysprosium	156-1	95666	96519	96700	96295	0.57	cps
Dysprosium	156-2	87946	89627	89319	88964	1.01	cps
Erbium	164-1	76186	74635	74299	75040	1.34	cps
Erbium	164-2	63092	63028	61002	62374	1.91	cps
Gadolinium	160-1	97013	97509	98369	97630	0.70	cps
Gadolinium	160-2	83074	83668	82531	83091	0.68	cps
Holmium	165-1	4895531	4838704	4797433	4843889	1.02	cps
Holmium	165-2	4011618	4076527	3978334	4022160	1.24	cps
Indium	115-1	3967440	3953355	4008744	3976513	0.72	cps
Indium	115-2	1721797	1730324	1698542	1716888	0.96	cps
Iron	56-2	87062329	86494219	84852459	86136335	1.33	cps
Iron	57-2	2225837	2094594	2148661	2156364	3.06	cps
Iron	54-2	4770447	4741755	4762643	4758282	0.31	cps
Krypton	83-1	527	500	503	510	2.85	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12341138	12251064	12614742	12402315	1.53	cps
Lead	207-1	11028060	10851446	11183456	11020987	1.51	cps
Lead	208-1	50485496	49836731	51214324	50512184	1.36	cps
Lithium	6-1	595462	600823	607405	601230	0.99	cps
Magnesium	24-2	14069395	14213540	14039856	14107597	0.66	cps
Manganese	55-2	12840973	12941496	12672072	12818180	1.06	cps
Molybdenum	94-1	11700406	11570419	11665277	11645367	0.58	cps
Molybdenum	95-1	16837103	16765790	16641439	16748110	0.59	cps
Molybdenum	96-1	18487035	18550073	18152952	18396687	1.16	cps
Molybdenum	97-1	10361158	10441166	10373992	10392105	0.41	cps
Molybdenum	98-1	26969936	26746565	26558083	26758195	0.77	cps
Neodymium	150-1	143829	143529	144516	143958	0.35	cps
Neodymium	150-2	102358	104201	104362	103641	1.07	cps
Nickel	60-2	540150	536644	539554	538783	0.35	cps
Phosphorus	31-2	2644	2420	2504	2522	4.48	cps
Potassium	39-2	9154907	9140843	9151492	9149081	0.08	cps
Rhodium	103-1	3783614	3744436	3786650	3771567	0.62	cps
Rhodium	103-2	2478073	2478126	2456335	2470845	0.51	cps
Scandium	45-1	2550296	2500896	2447405	2499532	2.06	cps
Scandium	45-2	216167	216410	213399	215325	0.78	cps
Selenium	82-1	66646	66812	66008	66489	0.64	cps
Selenium	77-2	8603	8969	8816	8796	2.09	cps
Selenium	78-2	29129	28641	27689	28486	2.57	cps
Silicon	28-1	33802434	33967908	33906058	33892133	0.25	cps
Silver	107-1	637784	635502	632578	635288	0.41	cps
Silver	109-1	599623	592312	593272	595069	0.67	cps
Sodium	23-2	29453571	29599189	29345539	29466100	0.43	cps
Strontium	86-1	1479464	1463838	1313870	1419057	6.44	cps
Strontium	88-1	13227524	13215647	12899489	13114220	1.42	cps
Sulfur	34-1	248052	244856	247504	246804	0.69	cps
Terbium	159-1	5084680	4954574	4924475	4987910	1.71	cps
Terbium	159-2	3967186	4045448	4030821	4014485	1.04	cps
Thallium	203-1	3074495	3070435	3137735	3094221	1.22	cps
Thallium	205-1	7220862	7136707	7266481	7208017	0.91	cps
Tin	118-1	2545225	2597923	2544421	2562523	1.20	cps
Titanium	47-1	2802260	2739369	2767336	2769655	1.14	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MS	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:25:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9534092	9537957	9818053	9630034	1.69	cps
Vanadium	51-2	1654626	1613059	1670601	1646095	1.80	cps
Yttrium	89-1	8074821	7993148	7726854	7931608	2.29	cps
Yttrium	89-2	2474089	2480300	2440621	2465004	0.87	cps
Zinc	66-2	3160203	3121614	3128272	3136696	0.66	cps
Zirconium	90-1	5810663	5765616	5799252	5791844	0.40	cps
Zirconium	91-1	1167300	1167112	1169219	1167877	0.10	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9398463	9392811	9301502	9364259	0.58	cps
Antimony	121-1	3099361	3165941	3153845	3139716	1.13	cps
Arsenic	75-2	193238	194278	189423	192313	1.33	cps
Barium	135-1	4311616	4352685	4288713	4317671	0.75	cps
Barium	137-1	7419379	7449301	7398577	7422419	0.34	cps
Beryllium	9-1	502496	500197	505427	502707	0.52	cps
Bismuth	209-1	2767309	2709306	2735279	2737298	1.06	cps
Bismuth	209-2	2564122	2537295	2546369	2549262	0.54	cps
Bromine	81-1	32449	33461	32686	32866	1.61	cps
Bromine	81-2	290	300	387	326	16.33	cps
Cadmium	108-1	60007	60395	59786	60063	0.51	cps
Cadmium	106-1	84873	86633	87119	86208	1.37	cps
Cadmium	111-1	825807	835217	823845	828290	0.73	cps
Calcium	43-1	4671566	4689613	4669486	4676888	0.24	cps
Calcium	44-1	76803174	77702881	77140607	77215554	0.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1572276	1567691	1573309	1571092	0.19	cps
Cobalt	59-2	2499535	2450726	2396734	2448998	2.10	cps
Copper	63-2	18835309	18923405	18729928	18829547	0.51	cps
Dysprosium	156-1	117	157	140	138	14.58	cps
Dysprosium	156-2	277	270	290	279	3.65	cps
Erbium	164-1	197	193	170	187	7.79	cps
Erbium	164-2	83	160	133	126	31.00	cps
Gadolinium	160-1	160	93	123	126	26.59	cps
Gadolinium	160-2	217	277	300	264	16.26	cps
Holmium	165-1	4737708	4748174	4752425	4746102	0.16	cps
Holmium	165-2	3891883	3833950	3887556	3871130	0.83	cps
Indium	115-1	3728383	3752701	3677455	3719513	1.03	cps
Indium	115-2	1614709	1616335	1599163	1610069	0.59	cps
Iron	56-2	373108701	373656021	353974941	366913221	3.05	cps
Iron	57-2	9339771	9163813	9238137	9247240	0.96	cps
Iron	54-2	20160572	20105029	20289501	20185034	0.47	cps
Krypton	83-1	387	440	453	427	8.27	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12528784	12679184	12388806	12532258	1.16	cps
Lead	207-1	11026298	11176488	11110187	11104324	0.68	cps
Lead	208-1	51015511	51078839	50748101	50947483	0.34	cps
Lithium	6-1	604551	591656	593530	596579	1.17	cps
Magnesium	24-2	74696691	75006012	74684322	74795675	0.24	cps
Manganese	55-2	14526046	14547869	14267410	14447109	1.08	cps
Molybdenum	94-1	12150214	12345221	12280071	12258502	0.81	cps
Molybdenum	95-1	17372269	17791164	17831271	17664901	1.44	cps
Molybdenum	96-1	19056925	19412326	19234601	19234617	0.92	cps
Molybdenum	97-1	10840012	10911567	10784916	10845498	0.59	cps
Molybdenum	98-1	28237474	28407465	27969583	28204840	0.78	cps
Neodymium	150-1	233	270	217	240	11.37	cps
Neodymium	150-2	80	73	90	81	10.34	cps
Nickel	60-2	581691	579387	575849	578976	0.51	cps
Phosphorus	31-2	94104	92601	94339	93681	1.01	cps
Potassium	39-2	50619568	49970883	50283729	50291393	0.65	cps
Rhodium	103-1	3493403	3494999	3470278	3486227	0.40	cps
Rhodium	103-2	2328485	2327485	2369786	2341918	1.03	cps
Scandium	45-1	2247257	2250130	2267900	2255095	0.50	cps
Scandium	45-2	205669	205268	204329	205089	0.34	cps
Selenium	82-1	63935	64153	63966	64018	0.18	cps
Selenium	77-2	8406	8226	8169	8267	1.50	cps
Selenium	78-2	27936	27506	27185	27542	1.37	cps
Silicon	28-1	5417791	5545858	5552765	5505471	1.38	cps
Silver	107-1	4299695	4352353	4327203	4326417	0.61	cps
Silver	109-1	4089180	4134382	4151587	4125050	0.78	cps
Sodium	23-2	119856538	119128105	119209772	119398138	0.33	cps
Strontium	86-1	1020859	1028003	1019357	1022740	0.45	cps
Strontium	88-1	10024270	10170766	10189219	10128085	0.89	cps
Sulfur	34-1	386615	385622	387345	386527	0.22	cps
Terbium	159-1	4839528	4833819	4747558	4806968	1.07	cps
Terbium	159-2	3865903	3776524	3739252	3793893	1.72	cps
Thallium	203-1	3261777	3243161	3191874	3232271	1.12	cps
Thallium	205-1	7530913	7499732	7329870	7453505	1.45	cps
Tin	118-1	2868317	2864994	2871622	2868311	0.12	cps
Titanium	47-1	4589086	4536183	4534454	4553241	0.68	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:31:36	DataFile Name :	050CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10249217	10271729	10180899	10233948	0.46	cps
Vanadium	51-2	1397079	1418437	1400409	1405308	0.82	cps
Yttrium	89-1	6746697	6733508	6754864	6745023	0.16	cps
Yttrium	89-2	2122243	2156005	2135806	2138018	0.79	cps
Zinc	66-2	3552506	3508893	3606733	3556044	1.38	cps
Zirconium	90-1	6022494	6139797	6073167	6078486	0.97	cps
Zirconium	91-1	1201620	1220258	1217806	1213228	0.83	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	623	697	687	669	5.95	cps
Antimony	121-1	150	253	280	228	30.15	cps
Arsenic	75-2	20	20	37	26	37.66	cps
Barium	135-1	50	23	80	51	55.47	cps
Barium	137-1	153	107	103	121	23.09	cps
Beryllium	9-1	130	123	97	117	15.12	cps
Bismuth	209-1	3002630	2837466	2832513	2890870	3.35	cps
Bismuth	209-2	2754510	2732824	2710527	2732620	0.80	cps
Bromine	81-1	31440	32108	32162	31903	1.26	cps
Bromine	81-2	333	253	277	288	14.30	cps
Cadmium	108-1	3	20	10	11	75.52	cps
Cadmium	106-1	1340	1320	1350	1337	1.14	cps
Cadmium	111-1	1032	973	1045	1017	3.75	cps
Calcium	43-1	450	363	347	387	14.35	cps
Calcium	44-1	11995	11808	11778	11861	0.99	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	497	513	470	493	4.43	cps
Cobalt	59-2	143	160	160	154	6.23	cps
Copper	63-2	2880	3114	3070	3021	4.11	cps
Dysprosium	156-1	7	13	10	10	33.30	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Erbium	164-1	23	20	17	20	16.65	cps
Erbium	164-2	23	20	20	21	9.11	cps
Gadolinium	160-1	23	7	13	14	58.06	cps
Gadolinium	160-2	187	147	213	182	18.41	cps
Holmium	165-1	4732104	4679738	4576626	4662822	1.70	cps
Holmium	165-2	3816927	3840680	3811323	3822977	0.41	cps
Indium	115-1	4021492	3983132	3936914	3980513	1.06	cps
Indium	115-2	1735100	1685928	1677722	1699583	1.83	cps
Iron	56-2	27983	27929	28564	28159	1.25	cps
Iron	57-2	1197	1360	1253	1270	6.53	cps
Iron	54-2	3377	3480	3537	3465	2.34	cps
Krypton	83-1	507	393	433	444	12.93	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1197	1073	1257	1176	7.95	cps
Lead	207-1	1013	1140	1027	1060	6.57	cps
Lead	208-1	4841	4930	4960	4910	1.26	cps
Lithium	6-1	594735	570842	569291	578289	2.47	cps
Magnesium	24-2	507	507	520	511	1.51	cps
Manganese	55-2	1317	1310	1197	1275	5.29	cps
Molybdenum	94-1	287	230	263	260	10.95	cps
Molybdenum	95-1	137	123	150	137	9.76	cps
Molybdenum	96-1	280	313	297	297	5.62	cps
Molybdenum	97-1	180	120	113	138	26.65	cps
Molybdenum	98-1	293	270	297	287	5.07	cps
Neodymium	150-1	0	0	3	1	173.21	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	293	307	277	292	5.14	cps
Phosphorus	31-2	317	293	263	291	9.18	cps
Potassium	39-2	57133	57521	57137	57264	0.39	cps
Rhodium	103-1	3754718	3764332	3731857	3750302	0.44	cps
Rhodium	103-2	2520146	2460984	2416982	2466037	2.10	cps
Scandium	45-1	2326632	2253073	2190360	2256688	3.02	cps
Scandium	45-2	202032	199786	197018	199612	1.26	cps
Selenium	82-1	87	187	164	146	35.79	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	863	840	963	889	7.37	cps
Silicon	28-1	1382542	1385208	1400297	1389349	0.69	cps
Silver	107-1	137	130	167	144	13.52	cps
Silver	109-1	130	140	150	140	7.14	cps
Sodium	23-2	21852	21789	22093	21911	0.73	cps
Strontium	86-1	703	757	683	714	5.31	cps
Strontium	88-1	167	270	220	219	23.61	cps
Sulfur	34-1	113403	113625	112503	113177	0.52	cps
Terbium	159-1	4877645	4693743	4654048	4741812	2.52	cps
Terbium	159-2	3854542	3784767	3803957	3814422	0.94	cps
Thallium	203-1	650	643	463	586	18.09	cps
Thallium	205-1	1337	1397	1327	1353	2.80	cps
Tin	118-1	1080	1137	1083	1100	2.89	cps
Titanium	47-1	60	60	63	61	3.15	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:37:01	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	417	427	340	394	12.02	cps
Vanadium	51-2	67	20	33	40	60.10	cps
Yttrium	89-1	6912374	6748995	6715902	6792424	1.55	cps
Yttrium	89-2	2157358	2138855	2148033	2148082	0.43	cps
Zinc	66-2	727	793	683	734	7.54	cps
Zirconium	90-1	390	463	403	419	9.33	cps
Zirconium	91-1	87	83	100	90	9.80	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2359169	2327384	2303321	2329958	1.20	cps
Antimony	121-1	3174921	3201608	3180404	3185644	0.44	cps
Arsenic	75-2	1187	1120	1157	1155	2.89	cps
Barium	135-1	3919163	3925502	3914225	3919630	0.14	cps
Barium	137-1	6635487	6681384	6779294	6698722	1.10	cps
Beryllium	9-1	426866	430233	441500	432866	1.77	cps
Bismuth	209-1	2887082	2857051	2929052	2891062	1.25	cps
Bismuth	209-2	2784270	2784895	2781607	2783591	0.06	cps
Bromine	81-1	41087	43013	44688	42929	4.20	cps
Bromine	81-2	2970	3540	3430	3314	9.13	cps
Cadmium	108-1	59488	60495	60951	60311	1.24	cps
Cadmium	106-1	86519	86707	87163	86796	0.38	cps
Cadmium	111-1	826087	831405	833745	830412	0.47	cps
Calcium	43-1	911690	914602	911788	912693	0.18	cps
Calcium	44-1	16064403	15987217	16258067	16103229	0.87	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1590429	1619567	1661603	1623866	2.20	cps
Cobalt	59-2	2447024	2478800	2446760	2457528	0.75	cps
Copper	63-2	16160551	16373124	16407239	16313638	0.82	cps
Dysprosium	156-1	95264	95992	95381	95545	0.41	cps
Dysprosium	156-2	90313	89688	89462	89821	0.49	cps
Erbium	164-1	74712	73870	75710	74764	1.23	cps
Erbium	164-2	63099	63540	63433	63357	0.36	cps
Gadolinium	160-1	97278	97043	99252	97858	1.24	cps
Gadolinium	160-2	83883	84754	85013	84550	0.70	cps
Holmium	165-1	4809728	4858186	4810586	4826167	0.57	cps
Holmium	165-2	4093436	4022636	4024676	4046916	1.00	cps
Indium	115-1	4007304	4039660	4020585	4022516	0.40	cps
Indium	115-2	1776236	1712652	1729973	1739620	1.89	cps
Iron	56-2	86811112	87716892	88612859	87713621	1.03	cps
Iron	57-2	2184497	2181691	2174392	2180193	0.24	cps
Iron	54-2	4853586	4800675	4891710	4848657	0.94	cps
Krypton	83-1	633	580	540	584	8.01	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12390185	12390101	12337503	12372596	0.25	cps
Lead	207-1	11076647	11128488	11225830	11143655	0.68	cps
Lead	208-1	50746127	50574673	51132415	50817738	0.56	cps
Lithium	6-1	588478	593503	592511	591497	0.45	cps
Magnesium	24-2	14505721	14229429	14606910	14447353	1.35	cps
Manganese	55-2	13006113	13057202	13204234	13089183	0.79	cps
Molybdenum	94-1	11570288	11917173	11889226	11792229	1.63	cps
Molybdenum	95-1	16860475	16789965	17033651	16894697	0.74	cps
Molybdenum	96-1	18178965	18351783	18379437	18303395	0.59	cps
Molybdenum	97-1	10472169	10634877	10513182	10540076	0.80	cps
Molybdenum	98-1	26718100	26952532	27094553	26921728	0.71	cps
Neodymium	150-1	144353	144556	145549	144819	0.44	cps
Neodymium	150-2	105857	106592	107291	106580	0.67	cps
Nickel	60-2	549197	554235	555927	553120	0.63	cps
Phosphorus	31-2	2524	2620	2634	2592	2.32	cps
Potassium	39-2	9479672	9363678	9537817	9460389	0.94	cps
Rhodium	103-1	3774140	3754332	3774579	3767683	0.31	cps
Rhodium	103-2	2499408	2520111	2477003	2498841	0.86	cps
Scandium	45-1	2415229	2430154	2441603	2428995	0.54	cps
Scandium	45-2	220058	221400	222870	221443	0.64	cps
Selenium	82-1	65649	65148	65598	65465	0.42	cps
Selenium	77-2	8686	9080	9140	8968	2.75	cps
Selenium	78-2	28771	29556	29399	29242	1.42	cps
Silicon	28-1	34484474	34102001	33978814	34188430	0.77	cps
Silver	107-1	598240	595846	603495	599194	0.65	cps
Silver	109-1	563390	567080	562275	564248	0.45	cps
Sodium	23-2	30425768	30414082	30060667	30300172	0.68	cps
Strontium	86-1	1310200	1477743	1508054	1431999	7.44	cps
Strontium	88-1	13132694	13134321	13215512	13160843	0.36	cps
Sulfur	34-1	238422	237119	241686	239076	0.98	cps
Terbium	159-1	4949467	5010567	4982946	4980994	0.61	cps
Terbium	159-2	4129043	4020944	4065915	4071968	1.33	cps
Thallium	203-1	3053630	3059711	3142420	3085254	1.61	cps
Thallium	205-1	7161120	7087253	7300177	7182850	1.51	cps
Tin	118-1	2569620	2529978	2581343	2560314	1.05	cps
Titanium	47-1	2767095	2732426	2762321	2753947	0.68	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSD	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:40:17	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9779299	9559565	9891120	9743328	1.73	cps
Vanadium	51-2	1693930	1687388	1680607	1687308	0.39	cps
Yttrium	89-1	7820379	7884315	7943508	7882734	0.78	cps
Yttrium	89-2	2520175	2454397	2507786	2494119	1.40	cps
Zinc	66-2	3180073	3183858	3232787	3198906	0.92	cps
Zirconium	90-1	5880041	5921617	5898539	5900066	0.35	cps
Zirconium	91-1	1176014	1178896	1186204	1180371	0.45	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2274873	2313508	2294538	2294306	0.84	cps
Antimony	121-1	3205506	3189512	3184940	3193319	0.34	cps
Arsenic	75-2	1217	1133	1170	1173	3.56	cps
Barium	135-1	3971417	3952642	3998944	3974334	0.59	cps
Barium	137-1	6716392	6803026	6740473	6753297	0.66	cps
Beryllium	9-1	439927	438703	436793	438474	0.36	cps
Bismuth	209-1	2874907	2955486	2943691	2924695	1.49	cps
Bismuth	209-2	2852638	2856581	2746872	2818697	2.21	cps
Bromine	81-1	45841	48316	50222	48126	4.56	cps
Bromine	81-2	4324	4367	4634	4442	3.78	cps
Cadmium	108-1	61249	61008	59990	60749	1.10	cps
Cadmium	106-1	86932	87086	86696	86905	0.23	cps
Cadmium	111-1	839400	849476	843609	844162	0.60	cps
Calcium	43-1	917599	921235	916654	918496	0.26	cps
Calcium	44-1	16136873	16462064	16291769	16296902	1.00	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1613204	1608413	1607195	1609604	0.20	cps
Cobalt	59-2	2460040	2441149	2402773	2434654	1.20	cps
Copper	63-2	16471203	16643858	16502706	16539256	0.56	cps
Dysprosium	156-1	96509	95619	96596	96241	0.56	cps
Dysprosium	156-2	90734	90975	90707	90805	0.16	cps
Erbium	164-1	75171	76354	74922	75482	1.01	cps
Erbium	164-2	62757	62084	62680	62507	0.59	cps
Gadolinium	160-1	96905	98932	98281	98040	1.06	cps
Gadolinium	160-2	84476	85546	83785	84602	1.05	cps
Holmium	165-1	4890651	4924049	4952034	4922244	0.62	cps
Holmium	165-2	4106418	4072524	4059561	4079501	0.59	cps
Indium	115-1	3966986	3982665	4013500	3987717	0.59	cps
Indium	115-2	1762914	1752189	1715848	1743651	1.41	cps
Iron	56-2	88180869	87139189	85884912	87068323	1.32	cps
Iron	57-2	2209583	2171463	2187487	2189511	0.87	cps
Iron	54-2	4855929	4884225	4803900	4848018	0.84	cps
Krypton	83-1	507	493	493	498	1.55	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12687603	12570959	12529765	12596109	0.65	cps
Lead	207-1	11179405	11391594	11330309	11300436	0.97	cps
Lead	208-1	51371527	52036184	51547892	51651868	0.67	cps
Lithium	6-1	595090	601063	592388	596180	0.74	cps
Magnesium	24-2	14187085	14322784	14164325	14224731	0.60	cps
Manganese	55-2	13160186	13201896	12712328	13024803	2.08	cps
Molybdenum	94-1	11738980	11874257	11778403	11797213	0.59	cps
Molybdenum	95-1	16861737	16933296	16925625	16906886	0.23	cps
Molybdenum	96-1	18276108	18501264	18307274	18361548	0.66	cps
Molybdenum	97-1	10378194	10634763	10479357	10497438	1.23	cps
Molybdenum	98-1	26693188	27014127	26936196	26881170	0.62	cps
Neodymium	150-1	144586	145676	145781	145348	0.46	cps
Neodymium	150-2	104151	106139	103752	104681	1.22	cps
Nickel	60-2	553740	559432	553054	555409	0.63	cps
Phosphorus	31-2	2710	2367	2570	2549	6.77	cps
Potassium	39-2	9374868	9313524	9519245	9402545	1.12	cps
Rhodium	103-1	3827407	3786878	3812300	3808862	0.54	cps
Rhodium	103-2	2532030	2517444	2466002	2505159	1.38	cps
Scandium	45-1	2446242	2481487	2446648	2458126	0.82	cps
Scandium	45-2	222339	223486	220005	221943	0.80	cps
Selenium	82-1	66402	67468	67041	66970	0.80	cps
Selenium	77-2	8719	8976	9036	8911	1.89	cps
Selenium	78-2	29182	29129	28975	29095	0.37	cps
Silicon	28-1	34313779	34607272	34202791	34374614	0.61	cps
Silver	107-1	644424	649764	646022	646737	0.42	cps
Silver	109-1	606580	607018	610012	607870	0.31	cps
Sodium	23-2	30004327	30399374	30013754	30139151	0.75	cps
Strontium	86-1	1451798	1520120	1512879	1494932	2.51	cps
Strontium	88-1	13102164	13146551	13206001	13151572	0.40	cps
Sulfur	34-1	235898	237139	238294	237110	0.51	cps
Terbium	159-1	4975098	5028988	5024068	5009384	0.59	cps
Terbium	159-2	4075623	4109065	4038257	4074315	0.87	cps
Thallium	203-1	3091612	3107833	3119369	3106271	0.45	cps
Thallium	205-1	7191400	7267990	7248816	7236069	0.55	cps
Tin	118-1	2582183	2621570	2578896	2594216	0.92	cps
Titanium	47-1	2662564	2765650	2752942	2727052	2.06	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1588-01A	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 17:43:05	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9716080	10062726	9932937	9903914	1.77	cps
Vanadium	51-2	1653537	1691584	1713351	1686157	1.80	cps
Yttrium	89-1	7901645	7935993	7968629	7935422	0.42	cps
Yttrium	89-2	2507639	2536673	2492445	2512252	0.89	cps
Zinc	66-2	3256820	3272992	3303839	3277884	0.73	cps
Zirconium	90-1	5913164	5952023	5955928	5940372	0.40	cps
Zirconium	91-1	1180775	1185740	1186976	1184497	0.28	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19993	19993	19810	19932	0.53	cps
Antimony	121-1	40463	41881	41934	41426	2.01	cps
Arsenic	75-2	19403	19326	20047	19592	2.02	cps
Barium	135-1	36560	37115	37763	37146	1.62	cps
Barium	137-1	62366	64402	64187	63652	1.76	cps
Beryllium	9-1	60	97	123	93	34.07	cps
Bismuth	209-1	1360997	1344761	1347754	1351171	0.64	cps
Bismuth	209-2	1258310	1273814	1255516	1262546	0.78	cps
Bromine	81-1	1484487	1785463	1952322	1740757	13.62	cps
Bromine	81-2	414876	416390	419740	417002	0.60	cps
Cadmium	108-1	9256	9093	9316	9222	1.25	cps
Cadmium	106-1	830	753	720	768	7.35	cps
Cadmium	111-1	5159	5534	5330	5341	3.51	cps
Calcium	43-1	29722	30728	30618	30356	1.82	cps
Calcium	44-1	560491	574155	577593	570746	1.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11825	12208	12258	12097	1.96	cps
Cobalt	59-2	1157	1220	1243	1207	3.72	cps
Copper	63-2	211616	209351	207880	209616	0.90	cps
Dysprosium	156-1	13	17	17	16	12.40	cps
Dysprosium	156-2	27	10	27	21	45.58	cps
Erbium	164-1	30	20	27	26	19.92	cps
Erbium	164-2	27	13	13	18	43.33	cps
Gadolinium	160-1	17	13	13	14	13.35	cps
Gadolinium	160-2	87	110	117	104	15.08	cps
Holmium	165-1	2494603	2512065	2558674	2521781	1.31	cps
Holmium	165-2	2116737	2152559	2097847	2122381	1.31	cps
Indium	115-1	2111116	2131627	2121422	2121388	0.48	cps
Indium	115-2	829609	824571	823911	826030	0.38	cps
Iron	56-2	435619	435449	436024	435697	0.07	cps
Iron	57-2	12222	11975	13668	12622	7.25	cps
Iron	54-2	26340	25962	26123	26142	0.72	cps
Krypton	83-1	367	367	403	379	5.59	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7445	7629	7779	7618	2.19	cps
Lead	207-1	6618	6695	6605	6639	0.73	cps
Lead	208-1	30814	31288	31442	31181	1.05	cps
Lithium	6-1	318475	322351	325098	321974	1.03	cps
Magnesium	24-2	151058	151582	153353	151998	0.79	cps
Manganese	55-2	66643	66888	67219	66917	0.43	cps
Molybdenum	94-1	42372564	43195868	43349244	42972559	1.22	cps
Molybdenum	95-1	75035307	75402999	76924707	75787671	1.32	cps
Molybdenum	96-1	79478807	80298530	81472040	80416459	1.25	cps
Molybdenum	97-1	46128006	47023776	47128863	46760215	1.18	cps
Molybdenum	98-1	118200965	120749322	122085672	120345319	1.64	cps
Neodymium	150-1	13	27	17	19	36.75	cps
Neodymium	150-2	10	3	7	7	50.03	cps
Nickel	60-2	773	737	847	786	7.13	cps
Phosphorus	31-2	9059	8519	8569	8716	3.43	cps
Potassium	39-2	218846357	218817157	216504617	218056043	0.62	cps
Rhodium	103-1	1929653	1934467	1971628	1945249	1.18	cps
Rhodium	103-2	1152152	1144723	1136232	1144369	0.70	cps
Scandium	45-1	1059948	1204297	1235775	1166673	8.04	cps
Scandium	45-2	108535	110141	109905	109527	0.79	cps
Selenium	82-1	7800	10706	12096	10201	21.49	cps
Selenium	77-2	1453	1460	1623	1512	6.37	cps
Selenium	78-2	6215	6405	6278	6299	1.54	cps
Silicon	28-1	15032990	16446408	17328280	16269226	7.12	cps
Silver	107-1	377	470	463	437	11.92	cps
Silver	109-1	440	510	490	480	7.51	cps
Sodium	23-2	144818801	144485501	149070768	146125023	1.75	cps
Strontium	86-1	27085	27456	27486	27342	0.82	cps
Strontium	88-1	235995	238984	239087	238022	0.74	cps
Sulfur	34-1	170820	173280	170432	171511	0.90	cps
Terbium	159-1	2601478	2617551	2632949	2617326	0.60	cps
Terbium	159-2	2100973	2074685	2133271	2102977	1.40	cps
Thallium	203-1	4214	4271	4337	4274	1.45	cps
Thallium	205-1	9774	9613	9647	9678	0.87	cps
Tin	118-1	4941	5314	5421	5225	4.83	cps
Titanium	47-1	1570	1717	1700	1662	4.83	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DLX5	Instrumnet Name :	P7
Client Sample ID :	3799DL	Dilution Factor :	5
Date & Time Acquired :	2025-03-23 17:45:52	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	383	397	303	361	13.98	cps
Vanadium	51-2	1943	1927	1900	1923	1.14	cps
Yttrium	89-1	3570138	3645665	3659440	3625081	1.33	cps
Yttrium	89-2	1049910	1042696	1029753	1040786	0.98	cps
Zinc	66-2	56848	55797	55211	55952	1.48	cps
Zirconium	90-1	1183	1317	1370	1290	7.45	cps
Zirconium	91-1	360	277	307	314	13.42	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4938	4884	5071	4964	1.94	cps
Antimony	121-1	9860	9667	9520	9682	1.76	cps
Arsenic	75-2	4317	4647	4407	4457	3.83	cps
Barium	135-1	8796	8656	8506	8653	1.68	cps
Barium	137-1	15252	15452	15218	15307	0.83	cps
Beryllium	9-1	117	77	77	90	25.66	cps
Bismuth	209-1	2406148	2325160	2295958	2342422	2.44	cps
Bismuth	209-2	2224710	2197197	2189505	2203804	0.84	cps
Bromine	81-1	267433	326081	357095	316870	14.37	cps
Bromine	81-2	81463	82988	84687	83046	1.94	cps
Cadmium	108-1	2217	2094	2217	2176	3.27	cps
Cadmium	106-1	1073	953	1063	1030	6.46	cps
Cadmium	111-1	2117	1976	1766	1953	9.03	cps
Calcium	43-1	7722	7288	7625	7545	3.02	cps
Calcium	44-1	141385	139694	141041	140707	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3140	3037	3384	3187	5.59	cps
Cobalt	59-2	420	383	350	384	9.11	cps
Copper	63-2	52100	52040	51495	51878	0.64	cps
Dysprosium	156-1	10	7	10	9	21.63	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	23	37	13	24	47.91	cps
Erbium	164-2	20	20	33	24	31.49	cps
Gadolinium	160-1	13	17	10	13	25.01	cps
Gadolinium	160-2	157	157	137	150	7.70	cps
Holmium	165-1	3856464	3794643	3805680	3818929	0.86	cps
Holmium	165-2	3138437	3183083	3156185	3159235	0.71	cps
Indium	115-1	3307766	3224199	3187884	3239950	1.90	cps
Indium	115-2	1242222	1240043	1234574	1238947	0.32	cps
Iron	56-2	122884	123321	122245	122817	0.44	cps
Iron	57-2	3627	3811	4024	3821	5.20	cps
Iron	54-2	8556	8829	8512	8633	1.99	cps
Krypton	83-1	343	417	477	412	16.20	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2780	2567	2540	2629	5.00	cps
Lead	207-1	2160	2327	2127	2205	4.86	cps
Lead	208-1	10873	10861	10736	10824	0.70	cps
Lithium	6-1	480972	465383	464242	470199	1.99	cps
Magnesium	24-2	35625	36687	35397	35903	1.92	cps
Manganese	55-2	16206	17233	16209	16549	3.58	cps
Molybdenum	94-1	10223737	10061591	10144141	10143157	0.80	cps
Molybdenum	95-1	18158055	17753959	17886882	17932965	1.15	cps
Molybdenum	96-1	19590298	19055037	19230203	19291846	1.41	cps
Molybdenum	97-1	11346190	11106969	11142582	11198580	1.15	cps
Molybdenum	98-1	28981425	28655406	28723772	28786868	0.60	cps
Neodymium	150-1	10	3	13	9	57.30	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	543	557	467	522	9.30	cps
Phosphorus	31-2	1970	2080	2104	2051	3.47	cps
Potassium	39-2	51677341	52725346	51988514	52130400	1.03	cps
Rhodium	103-1	3050883	2964772	2953122	2989592	1.79	cps
Rhodium	103-2	1979843	1987360	1924077	1963760	1.76	cps
Scandium	45-1	1877988	1808072	1835848	1840636	1.91	cps
Scandium	45-2	162295	163566	161447	162436	0.66	cps
Selenium	82-1	2577	2734	2865	2725	5.29	cps
Selenium	77-2	333	387	327	349	9.43	cps
Selenium	78-2	2104	2194	2027	2108	3.96	cps
Silicon	28-1	4298290	4292397	4422331	4337673	1.69	cps
Silver	107-1	170	150	153	158	6.79	cps
Silver	109-1	140	190	167	166	15.11	cps
Sodium	23-2	34200577	33806597	34226620	34077931	0.69	cps
Strontium	86-1	7022	7182	7135	7113	1.16	cps
Strontium	88-1	56451	56080	56736	56422	0.58	cps
Sulfur	34-1	115532	114844	114750	115042	0.37	cps
Terbium	159-1	3930158	3887308	3907813	3908426	0.55	cps
Terbium	159-2	3129901	3136454	3128398	3131584	0.14	cps
Thallium	203-1	1127	1020	1103	1083	5.18	cps
Thallium	205-1	2547	2527	2714	2596	3.95	cps
Tin	118-1	2150	1893	1893	1979	7.49	cps
Titanium	47-1	440	363	420	408	9.75	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	Q1590-04DL2X25	Instrumnet Name :	P7
Client Sample ID :	3799DL2	Dilution Factor :	25
Date & Time Acquired :	2025-03-23 17:55:07	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	340	303	300	314	7.06	cps
Vanadium	51-2	540	527	587	551	5.72	cps
Yttrium	89-1	5533518	5453590	5382317	5456475	1.39	cps
Yttrium	89-2	1693192	1736592	1734472	1721419	1.42	cps
Zinc	66-2	14127	14417	14080	14208	1.29	cps
Zirconium	90-1	540	583	557	560	3.90	cps
Zirconium	91-1	117	113	127	119	5.84	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9728304	9901811	9766870	9798995	0.93	cps
Antimony	121-1	3236455	3267313	3354658	3286142	1.87	cps
Arsenic	75-2	205125	204784	204165	204691	0.24	cps
Barium	135-1	4375072	4474327	4447390	4432263	1.16	cps
Barium	137-1	7471190	7670549	7565821	7569186	1.32	cps
Beryllium	9-1	446459	458799	461277	455512	1.74	cps
Bismuth	209-1	2734114	2652302	2726934	2704450	1.68	cps
Bismuth	209-2	2628825	2549512	2549699	2576012	1.78	cps
Bromine	81-1	36468	37822	37264	37185	1.83	cps
Bromine	81-2	760	797	830	796	4.40	cps
Cadmium	108-1	65584	66916	67607	66702	1.54	cps
Cadmium	106-1	95706	94871	95401	95326	0.44	cps
Cadmium	111-1	911769	921645	923783	919066	0.70	cps
Calcium	43-1	4811590	4883155	4938862	4877869	1.31	cps
Calcium	44-1	78981595	80059782	79699292	79580223	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1633035	1676794	1634268	1648032	1.51	cps
Cobalt	59-2	2591771	2529468	2597777	2573005	1.47	cps
Copper	63-2	19492751	19809607	19661416	19654591	0.81	cps
Dysprosium	156-1	130	117	157	134	15.15	cps
Dysprosium	156-2	273	317	323	304	8.92	cps
Erbium	164-1	160	140	153	151	6.74	cps
Erbium	164-2	110	160	170	147	21.92	cps
Gadolinium	160-1	150	117	163	143	16.77	cps
Gadolinium	160-2	313	363	333	337	7.47	cps
Holmium	165-1	4777931	4784965	4728215	4763704	0.65	cps
Holmium	165-2	3958737	3891425	3911975	3920713	0.88	cps
Indium	115-1	3934038	3891800	3920175	3915338	0.55	cps
Indium	115-2	1689310	1691566	1698475	1693117	0.28	cps
Iron	56-2	381976888	390497021	378099808	383524572	1.65	cps
Iron	57-2	9518642	9622330	9475614	9538862	0.79	cps
Iron	54-2	20775922	20905385	20801951	20827753	0.33	cps
Krypton	83-1	543	420	473	479	12.92	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12392128	12541985	12313292	12415802	0.94	cps
Lead	207-1	11086890	11237395	11106892	11143725	0.73	cps
Lead	208-1	50568385	51390007	50303699	50754031	1.12	cps
Lithium	6-1	570133	578216	575105	574485	0.71	cps
Magnesium	24-2	79229144	77532386	78663275	78474935	1.10	cps
Manganese	55-2	15013711	15155125	14656951	14941929	1.72	cps
Molybdenum	94-1	12674541	13249766	12953044	12959117	2.22	cps
Molybdenum	95-1	18105033	18943823	18502540	18517132	2.27	cps
Molybdenum	96-1	19955268	20681401	20199742	20278804	1.82	cps
Molybdenum	97-1	11319061	11420307	11605614	11448327	1.27	cps
Molybdenum	98-1	29057087	29753740	29545176	29452001	1.21	cps
Neodymium	150-1	227	253	227	236	6.54	cps
Neodymium	150-2	107	90	110	102	10.48	cps
Nickel	60-2	577882	575976	572597	575485	0.47	cps
Phosphorus	31-2	98186	98042	98011	98080	0.10	cps
Potassium	39-2	52244228	52496778	52678401	52473135	0.42	cps
Rhodium	103-1	3591339	3644711	3699363	3645137	1.48	cps
Rhodium	103-2	2370154	2364733	2345591	2360159	0.55	cps
Scandium	45-1	2347920	2331131	2335924	2338325	0.37	cps
Scandium	45-2	213845	215262	212403	213836	0.67	cps
Selenium	82-1	67113	67206	67322	67213	0.16	cps
Selenium	77-2	8733	8629	8256	8539	2.94	cps
Selenium	78-2	29222	29469	29710	29467	0.83	cps
Silicon	28-1	7246262	7398887	7436576	7360575	1.37	cps
Silver	107-1	6444251	3164803	4036701	4548585	37.34	cps
Silver	109-1	6529337	9232789	1562347	5774824	67.37	cps
Sodium	23-2	123763065	122081752	122592462	122812426	0.70	cps
Strontium	86-1	1059990	1074893	1070559	1068481	0.72	cps
Strontium	88-1	10507071	10526631	10640500	10558067	0.68	cps
Sulfur	34-1	395944	396684	394599	395742	0.27	cps
Terbium	159-1	4890470	4875767	4887221	4884486	0.16	cps
Terbium	159-2	3853641	3822415	3897298	3857785	0.97	cps
Thallium	203-1	3180338	3208200	3199037	3195858	0.44	cps
Thallium	205-1	7411323	7581100	7422911	7471778	1.27	cps
Tin	118-1	2973477	2974371	2993873	2980574	0.39	cps
Titanium	47-1	4677296	4789733	4709500	4725510	1.23	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P7
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:20:54	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9970251	10073026	10172840	10072039	1.01	cps
Vanadium	51-2	1489508	1459635	1471395	1473513	1.02	cps
Yttrium	89-1	7006664	7019804	7137456	7054641	1.02	cps
Yttrium	89-2	2198341	2209084	2187207	2198211	0.50	cps
Zinc	66-2	3736657	3746481	3795839	3759659	0.84	cps
Zirconium	90-1	6340572	6335542	6377374	6351163	0.36	cps
Zirconium	91-1	1403960	1289565	1383418	1358981	4.49	cps

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	653	650	707	670	4.75	cps
Antimony	121-1	263	363	313	313	15.96	cps
Arsenic	75-2	43	47	53	48	10.66	cps
Barium	135-1	77	93	70	80	15.02	cps
Barium	137-1	143	133	127	134	6.24	cps
Beryllium	9-1	77	103	140	107	29.81	cps
Bismuth	209-1	2889788	2870225	2880776	2880263	0.34	cps
Bismuth	209-2	2845084	2806186	2795738	2815669	0.92	cps
Bromine	81-1	37728	37845	38026	37866	0.40	cps
Bromine	81-2	587	590	563	580	2.51	cps
Cadmium	108-1	20	10	20	17	34.64	cps
Cadmium	106-1	1590	1290	1633	1505	12.43	cps
Cadmium	111-1	1226	1036	1233	1165	9.58	cps
Calcium	43-1	430	350	453	411	13.18	cps
Calcium	44-1	13406	13053	12873	13111	2.07	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	557	490	623	557	11.98	cps
Cobalt	59-2	140	213	137	163	26.53	cps
Copper	63-2	3360	2954	3100	3138	6.56	cps
Dysprosium	156-1	7	3	3	4	43.40	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	20	27	13	20	33.35	cps
Erbium	164-2	20	17	40	26	49.38	cps
Gadolinium	160-1	20	27	43	30	40.05	cps
Gadolinium	160-2	227	190	193	203	9.97	cps
Holmium	165-1	4756409	4680672	4656976	4698019	1.11	cps
Holmium	165-2	3930524	3861039	3978410	3923324	1.50	cps
Indium	115-1	4213278	4093516	4086330	4131041	1.73	cps
Indium	115-2	1801617	1798895	1770211	1790241	0.97	cps
Iron	56-2	31663	32475	32138	32092	1.27	cps
Iron	57-2	1387	1430	2138	1652	25.55	cps
Iron	54-2	3677	3570	3677	3642	1.69	cps
Krypton	83-1	373	407	427	402	6.70	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1397	1347	1337	1360	2.36	cps
Lead	207-1	1360	1130	1217	1236	9.40	cps
Lead	208-1	5958	5571	5734	5754	3.38	cps
Lithium	6-1	574853	571837	578700	575130	0.60	cps
Magnesium	24-2	763	817	790	790	3.38	cps
Manganese	55-2	1343	1420	1353	1372	3.04	cps
Molybdenum	94-1	330	307	383	340	11.56	cps
Molybdenum	95-1	277	263	307	282	7.86	cps
Molybdenum	96-1	423	313	373	370	14.89	cps
Molybdenum	97-1	203	173	193	190	8.04	cps
Molybdenum	98-1	447	393	390	410	7.76	cps
Neodymium	150-1	3	3	0	2	86.60	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	340	337	383	353	7.37	cps
Phosphorus	31-2	227	263	180	223	18.70	cps
Potassium	39-2	65413	64208	65021	64881	0.95	cps
Rhodium	103-1	3919272	3911798	3939659	3923577	0.37	cps
Rhodium	103-2	2521563	2544762	2530814	2532380	0.46	cps
Scandium	45-1	2342286	2329001	2376718	2349335	1.05	cps
Scandium	45-2	209302	209492	208441	209078	0.27	cps
Selenium	82-1	343	325	286	318	9.20	cps
Selenium	77-2	20	3	23	16	68.90	cps
Selenium	78-2	1053	1000	1020	1024	2.63	cps
Silicon	28-1	1531607	1536369	1549396	1539124	0.60	cps
Silver	107-1	933	647	640	740	22.63	cps
Silver	109-1	937	707	530	724	28.15	cps
Sodium	23-2	25728	25411	25364	25501	0.78	cps
Strontium	86-1	703	700	813	739	8.73	cps
Strontium	88-1	247	260	193	233	15.12	cps
Sulfur	34-1	123921	125050	124374	124448	0.46	cps
Terbium	159-1	4873382	4756195	4808039	4812539	1.22	cps
Terbium	159-2	3896941	3942363	3877206	3905503	0.86	cps
Thallium	203-1	527	493	547	522	5.16	cps
Thallium	205-1	1370	1300	1297	1322	3.13	cps
Tin	118-1	1280	1250	1240	1257	1.66	cps
Titanium	47-1	97	93	110	100	8.82	cps

Reviewed By:jaswal
On:3/24/2025 12:27:15 PM
Inst Id :P7
LB :LB135143

LB Number :	LB135143	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P7
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-03-23 18:25:52	DataFile Name :	060CCBE.d

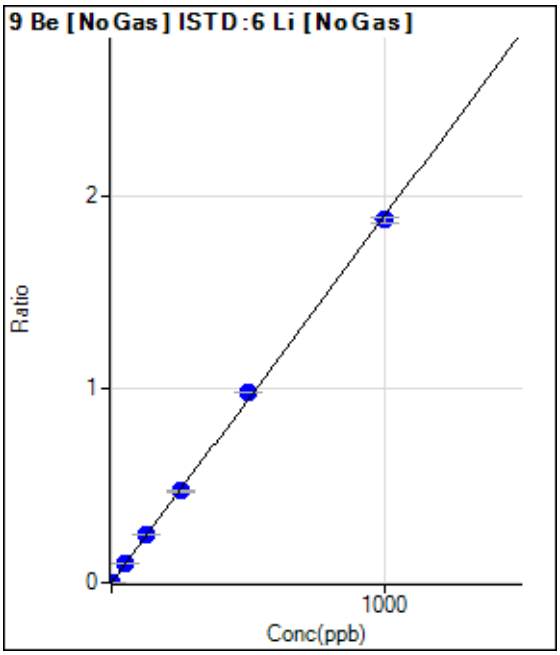
Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	420	450	423	431	3.81	cps
Vanadium	51-2	73	33	33	47	49.49	cps
Yttrium	89-1	7040557	7108552	6884041	7011050	1.64	cps
Yttrium	89-2	2203215	2206313	2194510	2201346	0.28	cps
Zinc	66-2	773	777	857	802	5.88	cps
Zirconium	90-1	383	420	543	449	18.67	cps
Zirconium	91-1	107	93	97	99	7.02	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032425 MS.b\
Analysis File: P7032425 MS.batch.bin
DA Date-Time: 2025-03-24 16:34:23
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-03-24 14:08:42
2	006CALS.d	S02	2025-03-24 14:15:19
3	007CALS.d	S03	2025-03-24 14:18:37
4	008CALS.d	S04	2025-03-24 14:21:48
5	013CALS.d	S05	2025-03-24 14:47:25
6	014CALS.d	S06	2025-03-24 14:50:18
7	015CALS.d	S07	2025-03-24 14:53:07
8	016CALS.d	S08	2025-03-24 14:55:51

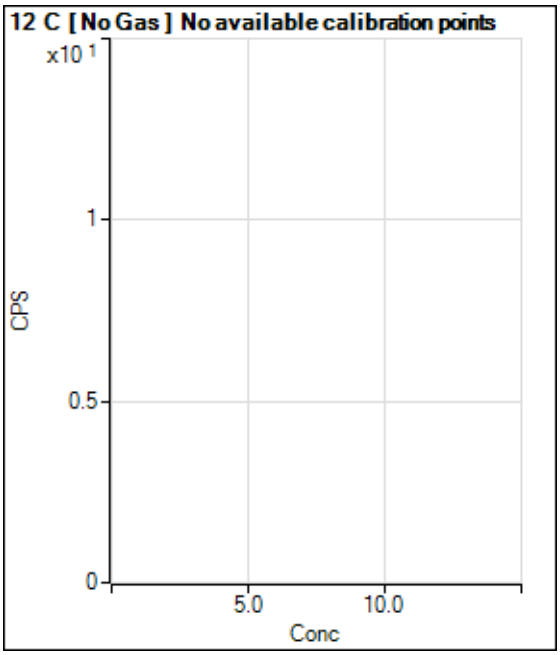
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0003	P	7.2
2	☐	1.000	0.981	1044.49	0.0021	P	3.1
3	☐	50.000	54.034	49461.70	0.1027	P	0.9
4	☐	125.000	131.347	119789.54	0.2492	P	1.9
5	☐	250.000	249.900	233901.94	0.4738	P	1.1
6	☐	500.000	519.311	473037.56	0.9843	P	0.4
7	☐	1000.000	989.374	901475.66	1.8750	P	1.6
8	☐			178.89	0.0004	P	10.6

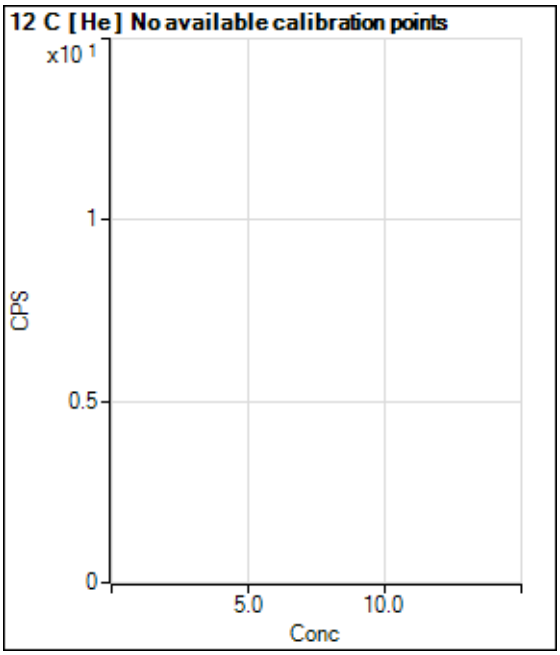
y = 0.0019 * x + 2.6994E-004
R = 0.9997
DL = 0.03071
BEC = 0.1425

Weight: <None>
Min Conc: 0

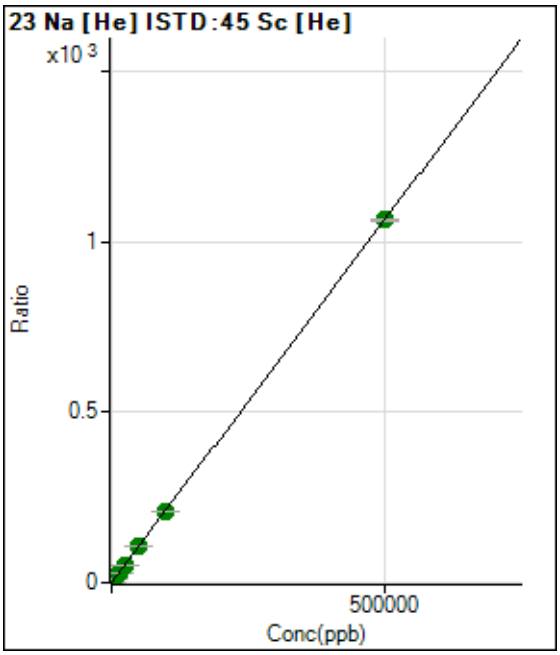


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

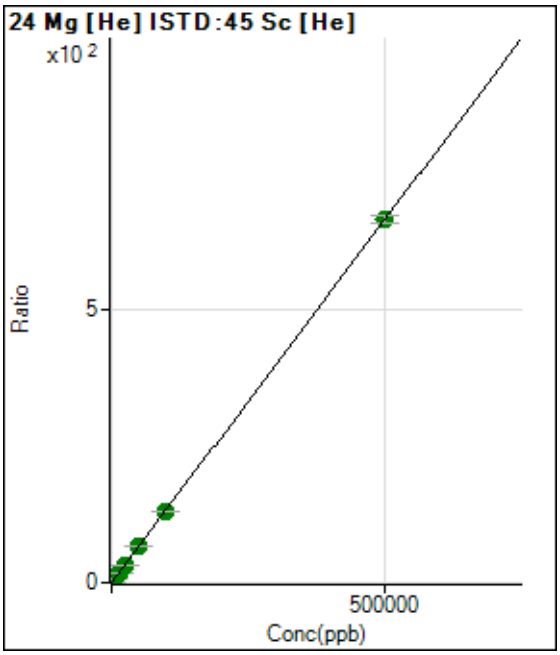


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12021.43	0.0571	P	1.6
2	☐	500.000	479.692	227003.83	1.0783	P	0.9
3	☐	5000.000	5112.564	2245170.69	10.9416	A	2.1
4	☐	12500.000	12727.713	5338338.08	27.1540	A	1.0
5	☐	25000.000	24453.526	10921433.59	52.1180	A	2.1
6	☐	50000.000	50346.804	21917824.68	107.2440	A	0.8
7	☐	100000.00	98719.742	42902604.92	210.2287	A	0.8
8	☐	500000.00	500241.89	225714036.6	1,065.058	A	0.5

y = 0.0021 * x + 0.0571
R = 1.0000
DL = 1.316
BEC = 26.82

Weight: <None>
Min Conc: 0

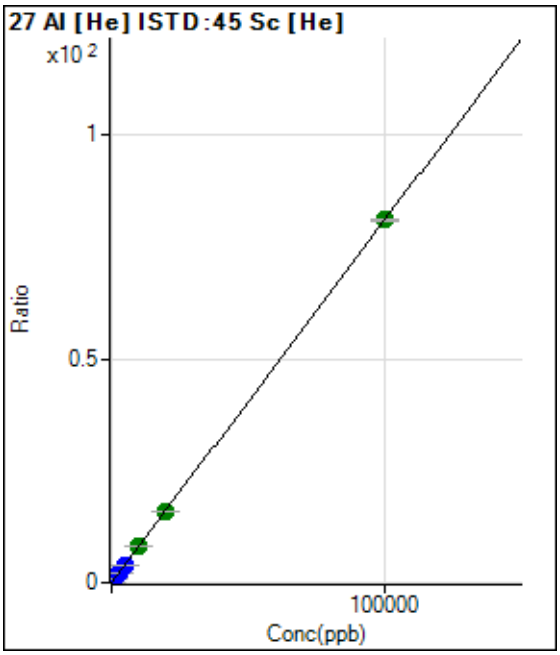
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	562.24	0.0027	P	7.2
2	☐	500.000	487.018	137124.43	0.6514	P	0.6
3	☐	5000.000	5107.422	1396574.46	6.8058	A	1.9
4	☐	12500.000	12842.274	3363509.08	17.1087	A	0.4
5	☐	25000.000	24630.885	6875800.17	32.8112	A	1.3
6	☐	50000.000	50652.147	13789312.02	67.4718	A	0.4
7	☐	100000.00	98742.816	26843159.05	131.5291	A	1.0
8	☐	500000.00	500195.06	141202237.9	666.2673	A	2.0

y = 0.0013 * x + 0.0027
R = 1.0000
DL = 0.4357
BEC = 2.005

Weight: <None>
Min Conc: 0

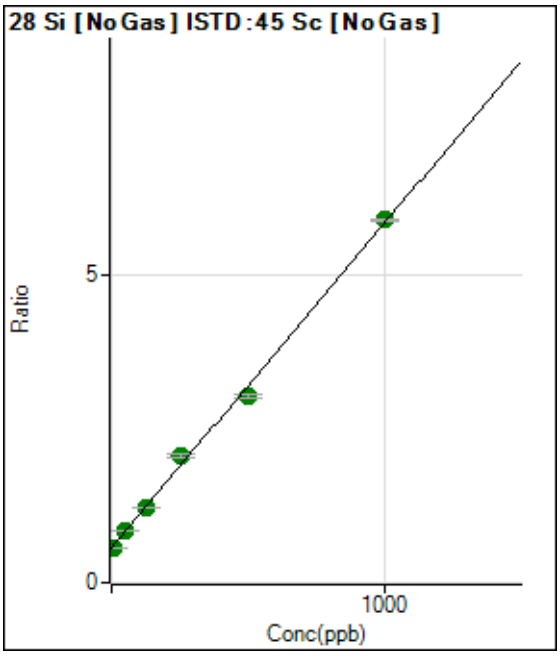


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0008	P	23.2
2	☐	20.000	19.298	3454.87	0.0164	P	2.7
3	☐	1000.000	1032.119	171696.13	0.8367	P	0.2
4	☐	2500.000	2496.148	397610.22	2.0225	P	0.7
5	☐	5000.000	4749.085	806211.61	3.8472	P	0.4
6	☐	10000.000	9941.673	1645723.45	8.0528	A	0.7
7	☐	20000.000	19463.072	3217234.33	15.7644	A	0.7
8	☐	100000.00	100125.53	17186346.97	81.0947	A	0.8

y = 8.0992E-004 * x + 7.8064E-004
R = 1.0000
DL = 0.6716
BEC = 0.9638

Weight: <None>
Min Conc: 0

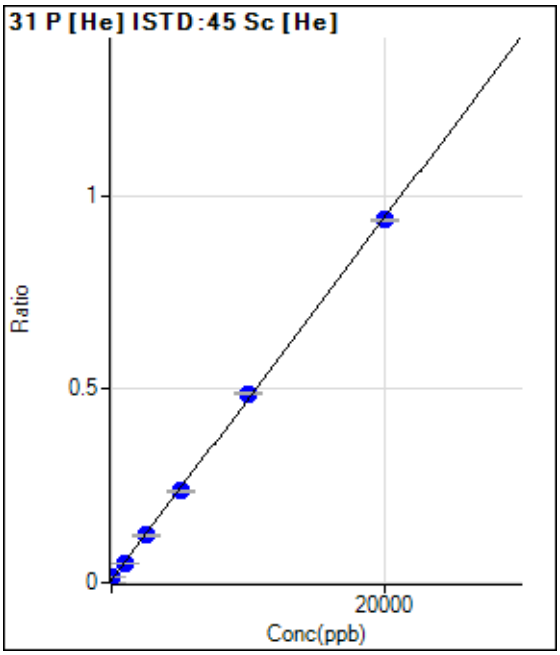
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1284654.13	0.5716	A	0.9
2	☐	10.000	-0.072	1276133.77	0.5712	A	0.9
3	☐	50.000	53.776	1843575.60	0.8553	A	0.6
4	☐	125.000	123.684	2558388.56	1.2242	A	1.6
5	☐	250.000	282.053	4489942.05	2.0598	A	2.2
6	☐	500.000	464.359	6406679.21	3.0218	A	1.9
7	☐	1000.000	1009.884	12452545.78	5.9003	A	0.6
8	☐			1281762.58	0.5973	A	2.7

y = 0.0053 * x + 0.5716
R = 0.9984
DL = 2.906
BEC = 108.3

Weight: <None>
Min Conc: 0

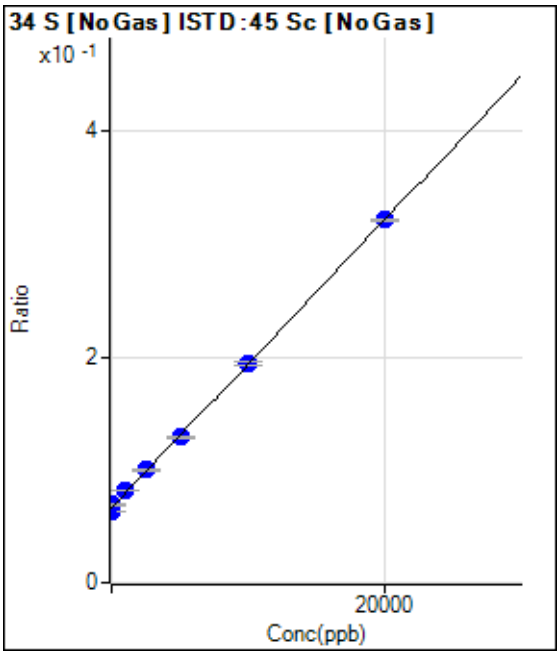


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-127.297	246.67	0.0012	P	7.1
2	☐	0.000	127.297	2756.95	0.0131	P	2.9
3	☐	1000.000	919.906	10305.77	0.0502	P	1.0
4	☐	2500.000	2460.723	24063.43	0.1224	P	1.4
5	☐	5000.000	4930.248	49889.91	0.2381	P	1.7
6	☐	10000.000	10292.087	99981.35	0.4892	P	1.1
7	☐	20000.000	19880.309	191503.59	0.9384	P	0.4
8	☐			300.00	0.0014	P	12.7

y = 4.6842E-005 * x + 0.0071
R = 0.9998
DL = 14.77
BEC = 152.3

Weight: <None>
Min Conc: 0

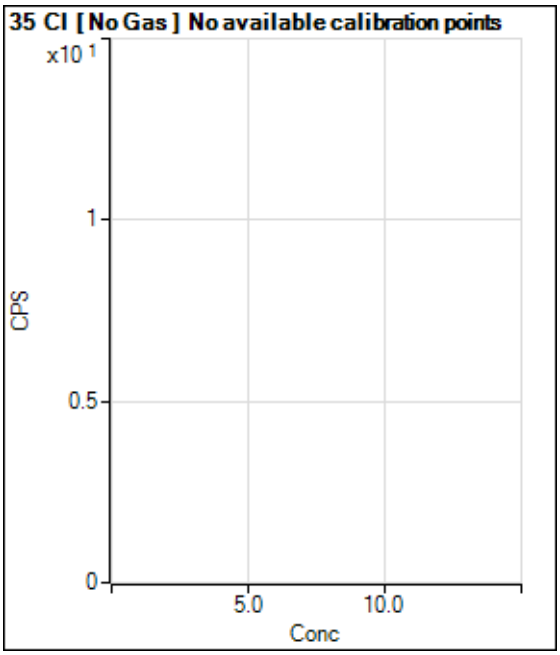
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-240.058	142577.42	0.0634	P	1.1
2	☐	0.000	240.058	155392.51	0.0696	P	2.2
3	☐	1000.000	1185.599	175954.03	0.0816	P	0.5
4	☐	2500.000	2642.393	209465.05	0.1002	P	1.8
5	☐	5000.000	4904.252	281436.05	0.1291	P	1.5
6	☐	10000.000	10018.653	412174.84	0.1944	P	1.6
7	☐	20000.000	19987.531	678871.82	0.3217	P	0.3
8	☐			144416.92	0.0673	P	3.2

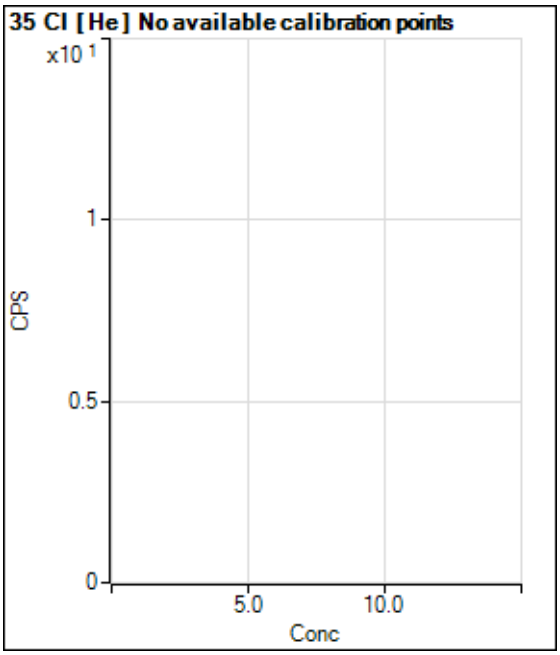
y = 1.2766E-005 * x + 0.0665
R = 0.9997
DL = 260.6
BEC = 5209

Weight: <None>
Min Conc: 0

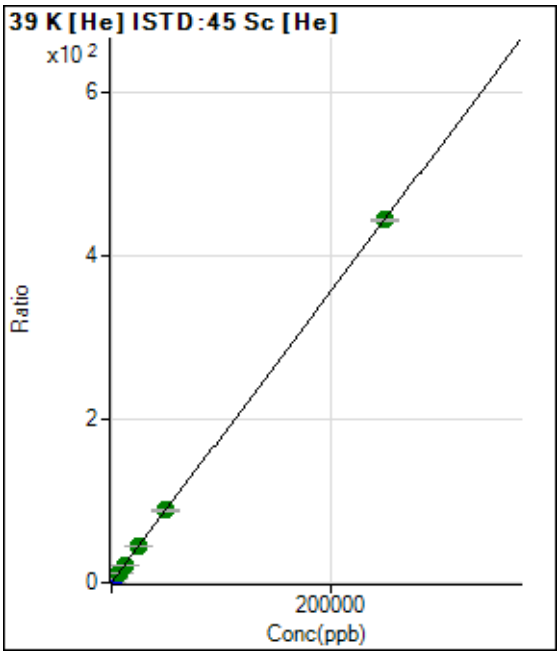


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

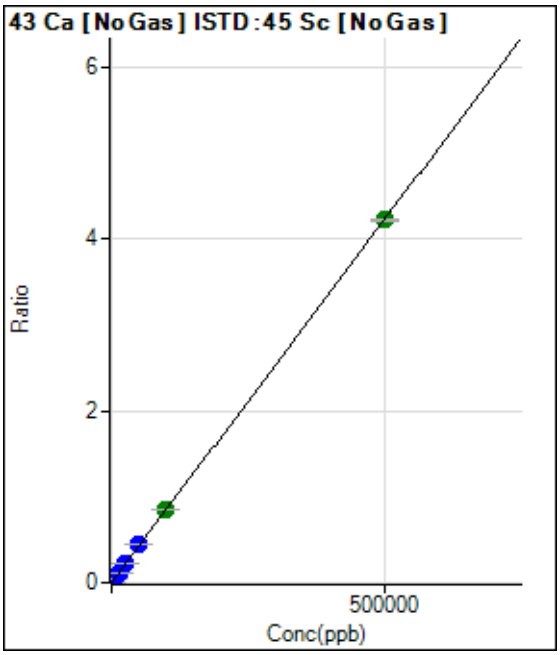


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56079.48	0.2663	P	1.4
2	☐	500.000	500.144	242608.18	1.1525	P	0.1
3	☐	2500.000	2672.035	1026134.21	5.0006	P	0.2
4	☐	6250.000	6354.964	2265970.80	11.5260	A	1.0
5	☐	12500.000	12365.433	4646985.52	22.1753	A	0.6
6	☐	25000.000	25451.882	9270481.67	45.3618	A	0.7
7	☐	50000.000	49608.734	17992508.48	88.1627	A	0.9
8	☐	250000.00	250035.44	93941961.93	443.2773	A	0.4

y = 0.0018 * x + 0.2663
R = 1.0000
DL = 6.349
BEC = 150.3

Weight: <None>
Min Conc: 0

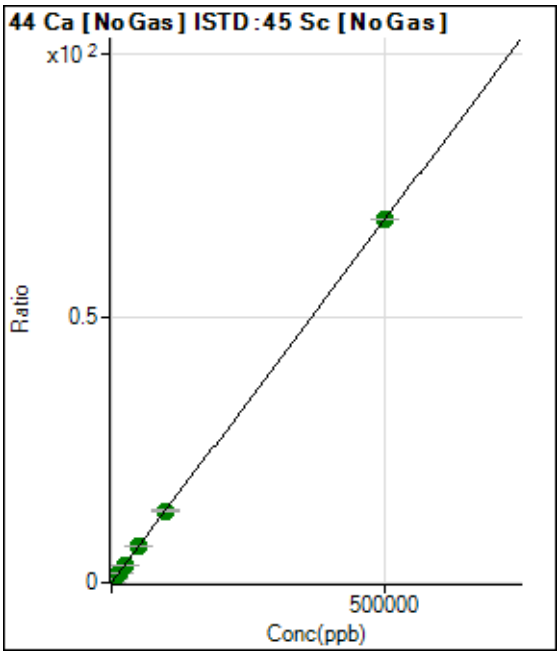
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	397.79	0.0002	P	2.8
2	☐	500.000	510.676	10028.95	0.0045	P	2.1
3	☐	5000.000	5471.229	99963.91	0.0464	P	0.7
4	☐	12500.000	13651.061	241238.02	0.1155	P	2.6
5	☐	25000.000	25780.972	474986.09	0.2179	P	1.0
6	☐	50000.000	53367.692	955905.00	0.4508	P	1.2
7	☐	100000.00	99914.070	1781101.83	0.8439	A	0.7
8	☐	500000.00	499607.86	9054862.50	4.2191	A	0.7

y = 8.4445E-006 * x + 1.7698E-004
R = 1.0000
DL = 1.758
BEC = 20.96

Weight: <None>
Min Conc: 0

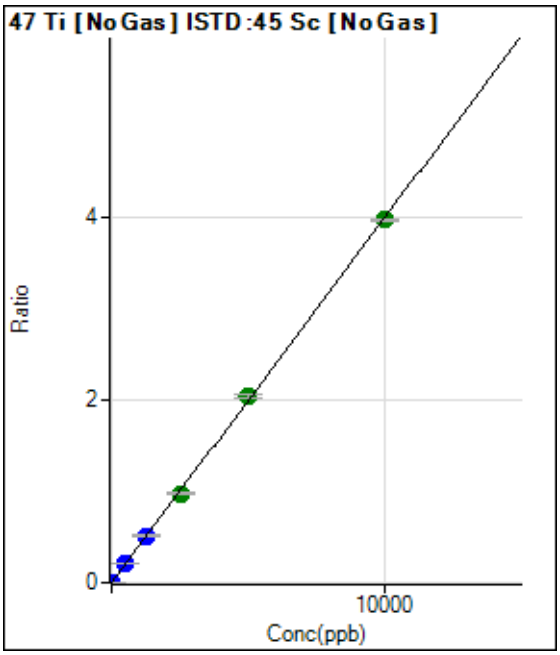


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8512.76	0.0038	P	2.5
2	☐	500.000	521.134	168085.92	0.0752	P	1.8
3	☐	5000.000	5243.966	1557919.09	0.7228	A	1.1
4	☐	12500.000	12919.381	3709697.55	1.7752	A	2.0
5	☐	25000.000	24729.124	7398993.29	3.3945	A	2.5
6	☐	50000.000	50949.831	14820162.42	6.9897	A	1.3
7	☐	100000.00	99091.119	28684411.24	13.5905	A	1.6
8	☐	500000.00	500087.39	147172350.0	68.5722	A	0.2

y = 1.3711E-004 * x + 0.0038
R = 1.0000
DL = 2.043
BEC = 27.62

Weight: <None>
Min Conc: 0

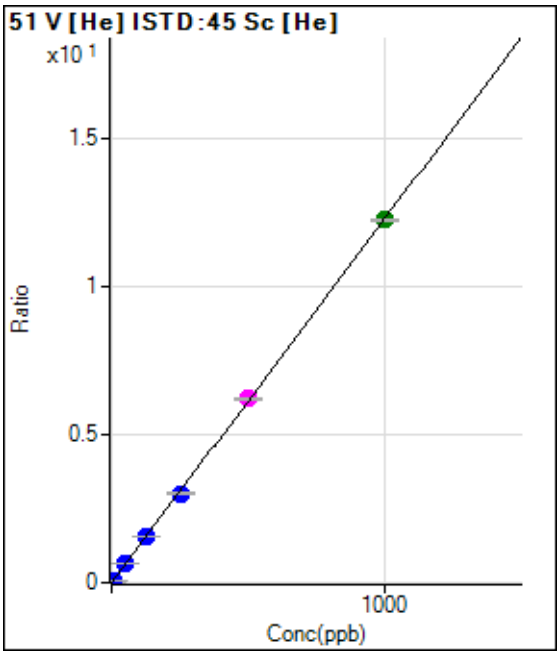
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	11.3
2	☐	5.000	5.158	4659.65	0.0021	P	2.2
3	☐	500.000	520.864	447110.06	0.2074	P	0.4
4	☐	1250.000	1276.678	1062275.82	0.5084	P	2.8
5	☐	2500.000	2446.777	2124009.85	0.9743	A	1.6
6	☐	5000.000	5118.379	4321254.10	2.0381	A	1.7
7	☐	10000.000	9949.738	8361944.04	3.9620	A	0.4
8	☐			572.24	0.0003	P	9.1

y = 3.9820E-004 * x + 3.0653E-005
R = 0.9999
DL = 0.02621
BEC = 0.07698

Weight: <None>
Min Conc: 0

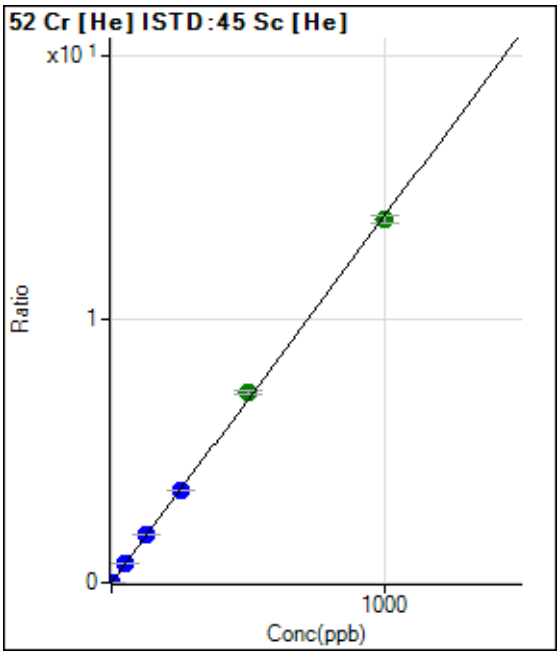


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0002	P	9.4
2	☐	5.000	4.895	12687.66	0.0603	P	1.4
3	☐	50.000	51.395	129459.23	0.6309	P	1.0
4	☐	125.000	126.759	305846.86	1.5557	P	0.3
5	☐	250.000	245.500	631354.80	3.0128	P	0.9
6	☐	500.000	505.789	1268527.61	6.2069	M	0.3
7	☐	1000.000	997.941	2499176.94	12.2463	A	0.9
8	☐			715.58	0.0034	P	8.6

y = 0.0123 * x + 2.0055E-004
R = 1.0000
DL = 0.00462
BEC = 0.01634

Weight: <None>
Min Conc: 0

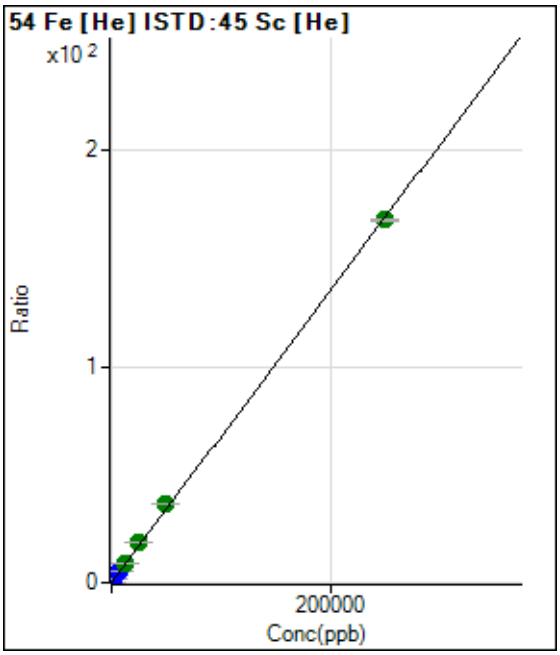
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	641.13	0.0030	P	14.8
2	☐	2.000	2.073	6723.79	0.0319	P	2.6
3	☐	50.000	52.542	150900.92	0.7354	P	0.8
4	☐	125.000	130.246	357494.26	1.8184	P	0.2
5	☐	250.000	250.539	732416.29	3.4951	P	0.8
6	☐	500.000	519.452	1480230.46	7.2432	A	1.5
7	☐	1000.000	989.356	2814811.62	13.7928	A	2.3
8	☐			17277.77	0.0815	P	1.8

y = 0.0139 * x + 0.0030
R = 0.9997
DL = 0.09688
BEC = 0.2185

Weight: <None>
Min Conc: 0

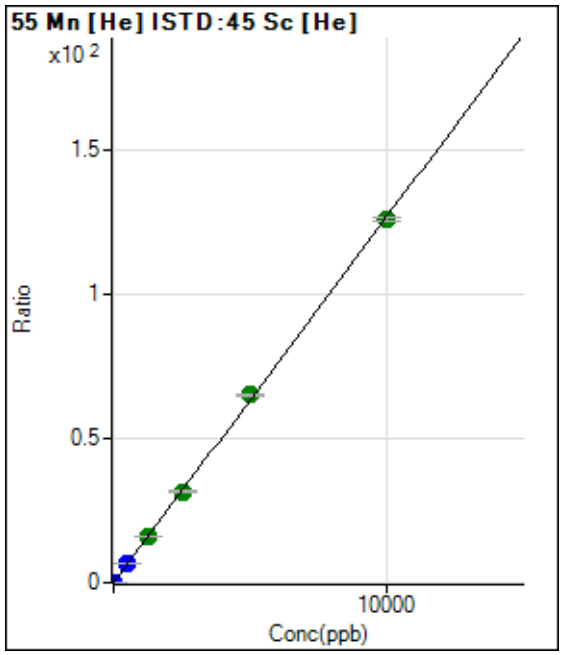


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3121.47	0.0148	P	1.1
2	☐	50.000	58.614	11446.66	0.0544	P	0.4
3	☐	2500.000	2968.431	414080.12	2.0179	P	1.1
4	☐	6250.000	7334.372	975922.26	4.9641	P	0.3
5	☐	12500.000	13531.225	1916546.93	9.1458	A	0.9
6	☐	25000.000	27822.303	3840075.53	18.7895	A	0.2
7	☐	50000.000	54035.726	7444501.76	36.4784	A	1.0
8	☐	250000.00	248827.26	35587594.19	167.9249	A	0.4

y = 6.7481E-004 * x + 0.0148
R = 0.9998
DL = 0.7507
BEC = 21.97

Weight: <None>
Min Conc: 0

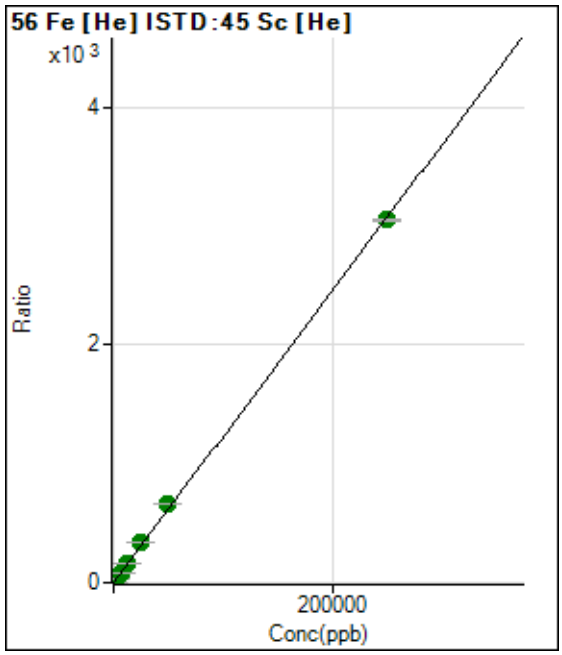
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1227.84	0.0058	P	6.0
2	☐	1.000	1.004	3911.66	0.0186	P	4.4
3	☐	500.000	519.907	1355587.76	6.6062	P	0.3
4	☐	1250.000	1278.415	3191873.25	16.2356	A	1.1
5	☐	2500.000	2489.258	6623578.16	31.6076	A	0.8
6	☐	5000.000	5143.590	13345899.39	65.3050	A	1.2
7	☐	10000.000	9926.343	25718084.06	126.0233	A	1.0
8	☐			14096.70	0.0665	P	1.0

y = 0.0127 * x + 0.0058
R = 0.9998
DL = 0.08237
BEC = 0.4593

Weight: <None>
Min Conc: 0

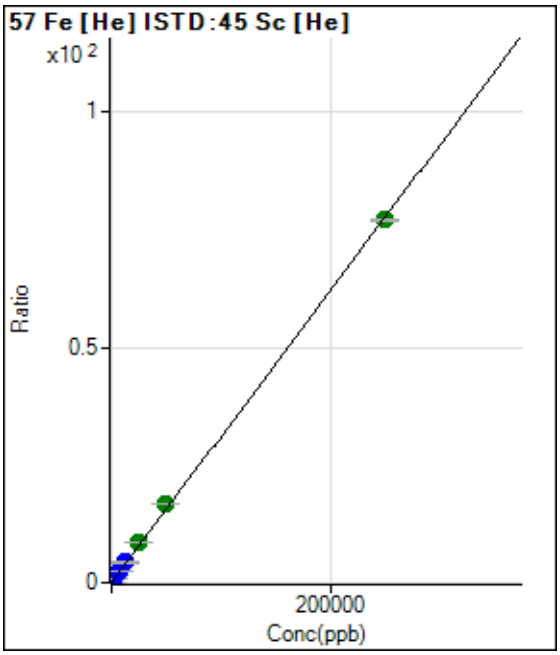


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27909.26	0.1325	P	0.4
2	☐	50.000	57.191	175683.13	0.8346	P	0.7
3	☐	2500.000	2839.477	7179317.25	34.9878	A	0.9
4	☐	6250.000	7019.705	16966564.75	86.3012	A	0.8
5	☐	12500.000	13471.444	34680988.37	165.4980	A	0.9
6	☐	25000.000	27709.498	69542097.85	340.2738	A	0.5
7	☐	50000.000	53971.910	135234161.3	662.6517	A	0.4
8	☐	250000.00	248863.45	647429168.1	3,054.995	A	0.8

y = 0.0123 * x + 0.1325
R = 0.9998
DL = 0.1186
BEC = 10.8

Weight: <None>
Min Conc: 0

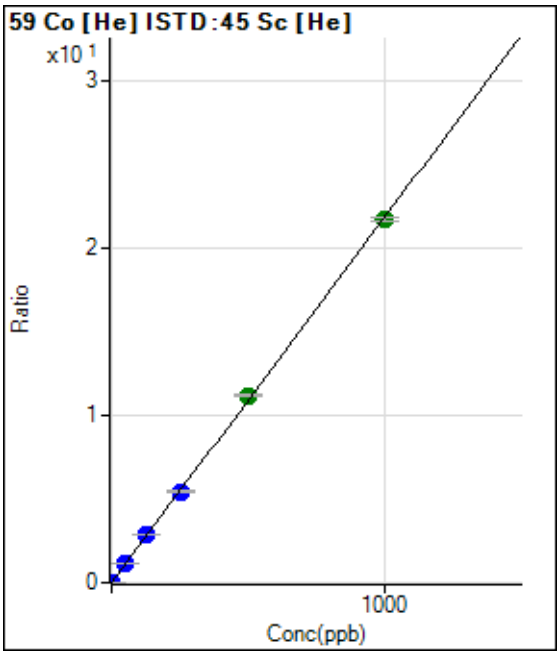
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1244.51	0.0059	P	1.4
2		50.000	58.750	5070.90	0.0241	P	1.2
3		2500.000	2914.516	186260.35	0.9077	P	0.8
4		6250.000	7249.755	442161.92	2.2491	P	0.1
5		12500.000	13866.807	900359.94	4.2965	P	0.7
6		25000.000	27536.311	1742532.06	8.5260	A	1.5
7		50000.000	53932.127	3406759.85	16.6933	A	0.8
8		250000.00	248862.46	16320021.98	77.0076	A	0.3

y = 3.0941E-004 * x + 0.0059
R = 0.9998
DL = 0.8123
BEC = 19.1

Weight: <None>
Min Conc: 0

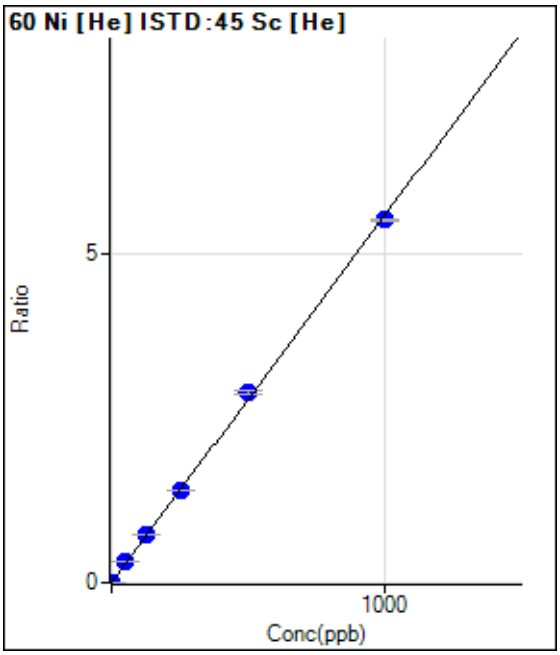


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	184.45	0.0009	P	4.9
2		1.000	1.051	5015.33	0.0238	P	0.9
3		50.000	52.908	237205.18	1.1560	P	0.7
4		125.000	130.139	558745.27	2.8421	P	0.6
5		250.000	249.413	1141266.89	5.4461	P	0.9
6		500.000	511.480	2282282.60	11.1676	A	0.9
7		1000.000	993.619	4427152.12	21.6938	A	1.0
8				12265.10	0.0579	P	0.4

y = 0.0218 * x + 8.7584E-004
R = 0.9999
DL = 0.005955
BEC = 0.04012

Weight: <None>
Min Conc: 0

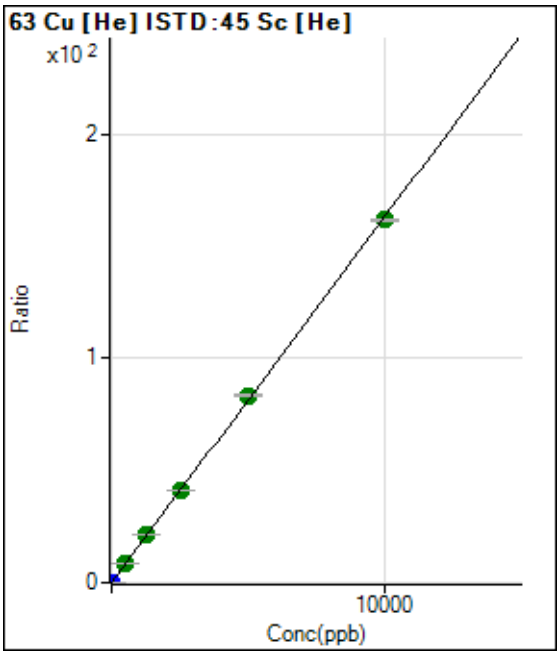
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	275.56	0.0013	P	19.3
2	☐	1.000	0.849	1268.96	0.0060	P	4.2
3	☐	50.000	58.183	66668.40	0.3249	P	1.0
4	☐	125.000	131.862	144426.73	0.7346	P	0.8
5	☐	250.000	251.046	292846.15	1.3975	P	0.9
6	☐	500.000	518.756	589844.41	2.8863	P	1.3
7	☐	1000.000	989.094	1122852.61	5.5020	P	0.6
8	☐			4729.69	0.0223	P	1.4

y = 0.0056 * x + 0.0013
R = 0.9997
DL = 0.1366
BEC = 0.2354

Weight: <None>
Min Conc: 0

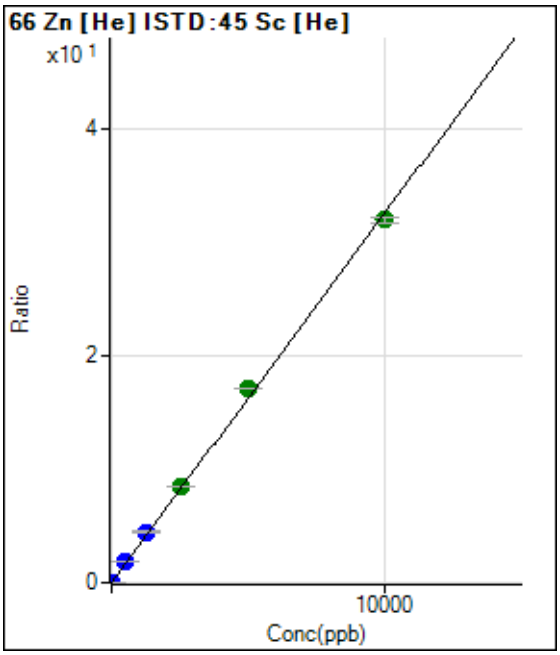


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2903.64	0.0138	P	2.2
2	☐	2.000	1.918	9480.86	0.0450	P	2.5
3	☐	500.000	533.678	1786939.92	8.7080	A	1.8
4	☐	1250.000	1313.315	4208929.73	21.4090	A	0.3
5	☐	2500.000	2509.326	8569430.78	40.8933	A	0.8
6	☐	5000.000	5123.995	17061836.13	83.4889	A	1.5
7	☐	10000.000	9926.073	33003895.06	161.7196	A	0.3
8	☐			10039.00	0.0474	P	3.2

y = 0.0163 * x + 0.0138
R = 0.9999
DL = 0.05703
BEC = 0.8465

Weight: <None>
Min Conc: 0

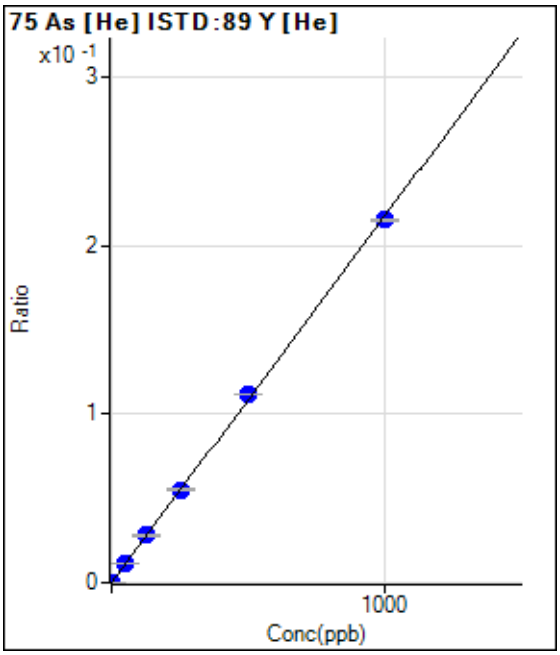
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.34	0.0020	P	8.9
2	☐	5.000	4.802	3714.94	0.0176	P	1.1
3	☐	500.000	554.774	371121.84	1.8086	P	0.8
4	☐	1250.000	1378.105	882678.50	4.4898	P	0.9
5	☐	2500.000	2588.658	1766970.16	8.4319	A	0.5
6	☐	5000.000	5261.488	3502046.20	17.1359	A	0.6
7	☐	10000.000	9828.340	6532450.53	32.0078	A	1.7
8	☐			13193.67	0.0623	P	1.5

y = 0.0033 * x + 0.0020
R = 0.9994
DL = 0.1647
BEC = 0.6173

Weight: <None>
Min Conc: 0

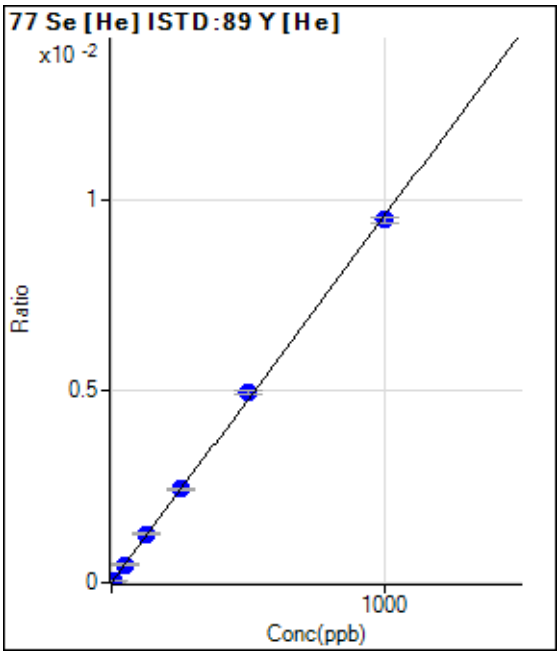


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0000	P	18.2
2	☐	1.000	1.077	490.01	0.0003	P	5.1
3	☐	50.000	53.391	21708.19	0.0116	P	0.8
4	☐	125.000	129.444	50834.62	0.0282	P	1.8
5	☐	250.000	254.029	105419.74	0.0552	P	1.4
6	☐	500.000	515.079	209834.56	0.1120	P	0.2
7	☐	1000.000	990.728	400991.45	0.2154	P	0.5
8	☐			228.89	0.0001	P	12.1

y = 2.1735E-004 * x + 2.1435E-005
R = 0.9998
DL = 0.05388
BEC = 0.09862

Weight: <None>
Min Conc: 0

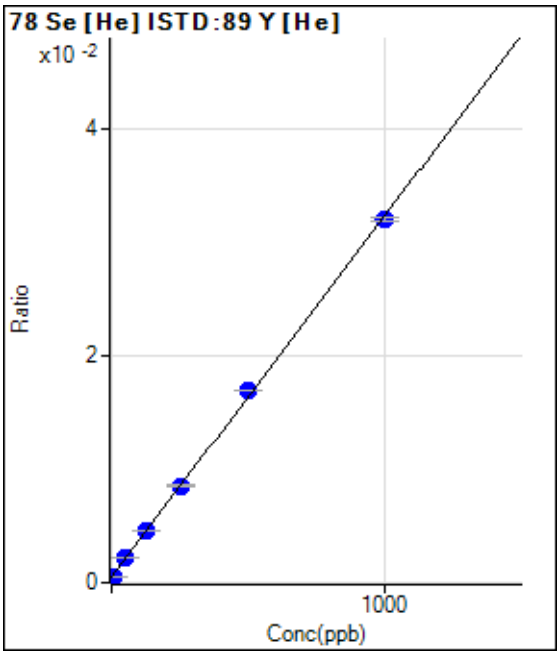
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	4.843	91.11	0.0000	P	23.6
3	☐	50.000	48.583	870.04	0.0005	P	5.2
4	☐	125.000	133.449	2307.98	0.0013	P	3.3
5	☐	250.000	255.052	4659.67	0.0024	P	3.2
6	☐	500.000	517.402	9279.65	0.0050	P	2.0
7	☐	1000.000	989.052	17623.91	0.0095	P	1.5
8	☐			20.00	0.0000	P	33.0

y = 9.5689E-006 * x + 1.1514E-006
R = 0.9997
DL = 0.3126
BEC = 0.1203

Weight: <None>
Min Conc: 0

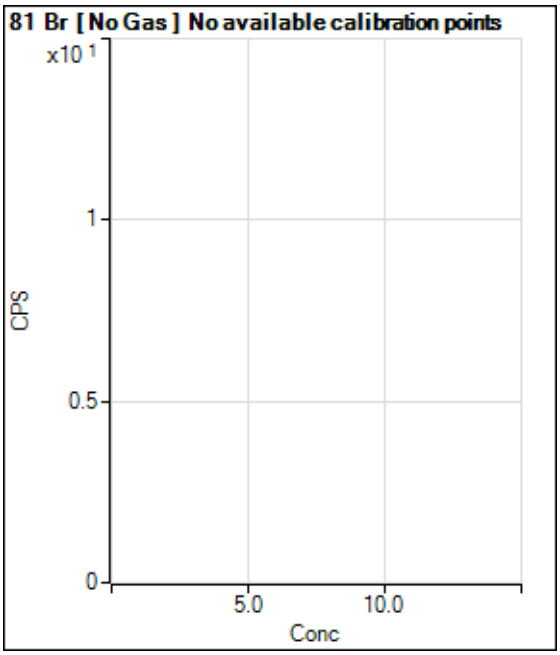


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	921.15	0.0005	P	8.9
2	☐	5.000	3.024	1106.72	0.0006	P	4.0
3	☐	50.000	53.523	4075.05	0.0022	P	0.1
4	☐	125.000	130.666	8369.10	0.0046	P	0.8
5	☐	250.000	252.728	16253.44	0.0085	P	1.9
6	☐	500.000	518.275	31780.79	0.0170	P	0.2
7	☐	1000.000	989.306	59462.26	0.0319	P	1.0
8	☐			885.59	0.0005	P	8.3

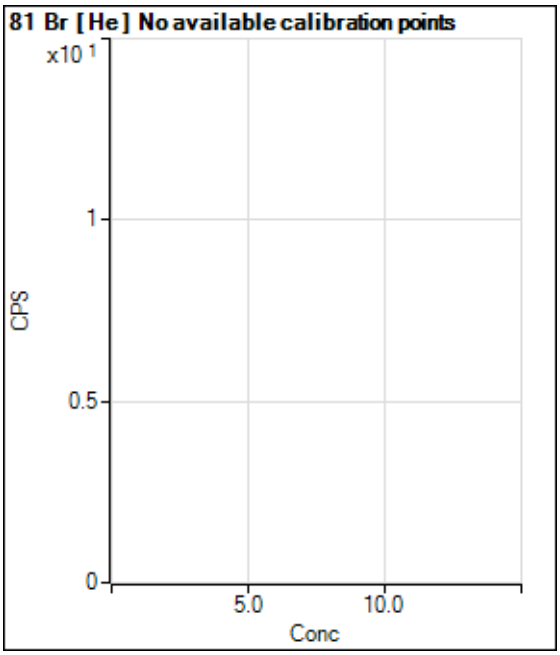
y = 3.1795E-005 * x + 4.8071E-004
R = 0.9997
DL = 4.025
BEC = 15.12

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

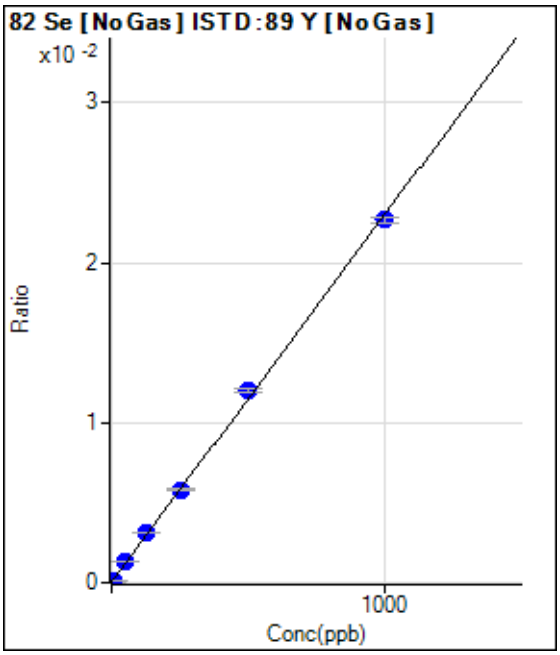


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			37275.96		P	0.6
2	☐			37674.71		P	1.1
3	☐			36367.00		P	1.1
4	☐			32691.81		P	0.9
5	☐			35914.85		P	1.3
6	☐			35442.60		P	0.3
7	☐			35674.23		P	0.8
8	☐			36283.47		P	2.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			274.45		P	0.7
2	☐			244.45		P	12.9
3	☐			175.56		P	6.1
4	☐			146.67		P	10.4
5	☐			284.45		P	3.8
6	☐			200.00		P	10.1
7	☐			225.56		P	20.8
8	☐			268.89		P	11.5

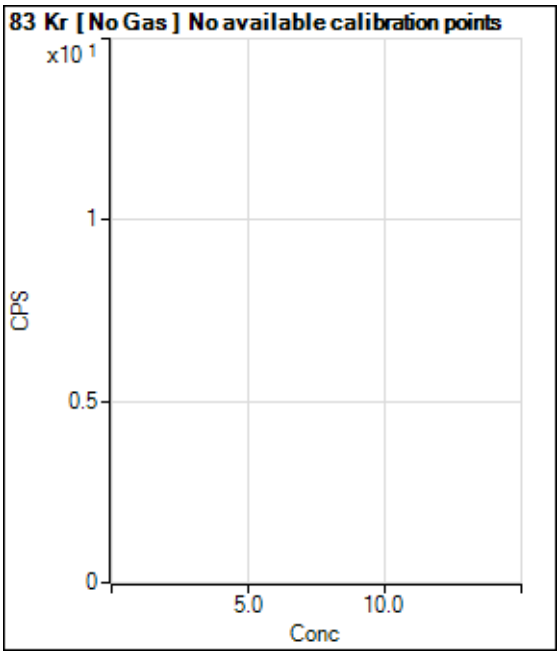
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.75	0.0000	P	30.9
2	☐	5.000	5.451	948.78	0.0001	P	5.6
3	☐	50.000	54.761	7985.01	0.0013	P	1.6
4	☐	125.000	134.938	19043.49	0.0031	P	2.7
5	☐	250.000	252.868	37581.90	0.0058	P	0.9
6	☐	500.000	522.420	74159.67	0.0120	P	1.6
7	☐	1000.000	986.591	140293.68	0.0227	P	1.5
8	☐			365.86	0.0001	P	17.7

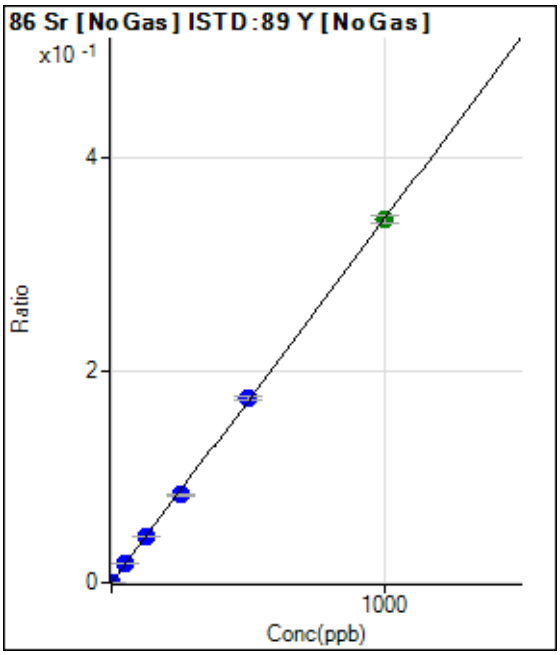
y = 2.2951E-005 * x + 2.2869E-005
R = 0.9996
DL = 0.9244
BEC = 0.9964

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			424.46		P	13.4
2	☐			397.79		P	18.3
3	☐			406.68		P	9.2
4	☐			398.90		P	8.5
5	☐			386.68		P	5.2
6	☐			394.45		P	6.0
7	☐			384.45		P	3.0
8	☐			455.57		P	9.7

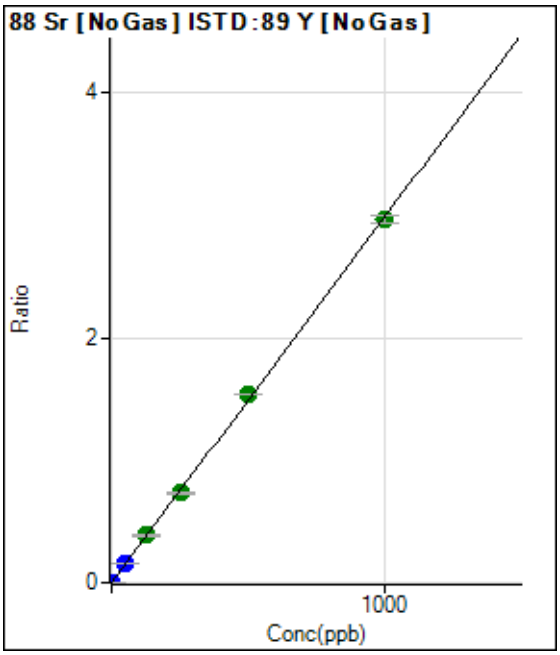
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	667.80	0.0001	P	5.8
2	☐	1.000	1.010	2885.87	0.0005	P	1.5
3	☐	50.000	51.963	111841.63	0.0179	P	0.3
4	☐	125.000	127.038	266573.85	0.0437	P	2.0
5	☐	250.000	241.441	534709.96	0.0829	P	1.8
6	☐	500.000	508.226	1076600.35	0.1744	P	1.5
7	☐	1000.000	997.674	2118288.01	0.3422	A	2.2
8	☐			7742.11	0.0013	P	1.0

y = 3.4294E-004 * x + 1.0398E-004
R = 0.9999
DL = 0.05254
BEC = 0.3032

Weight: <None>
Min Conc: 0

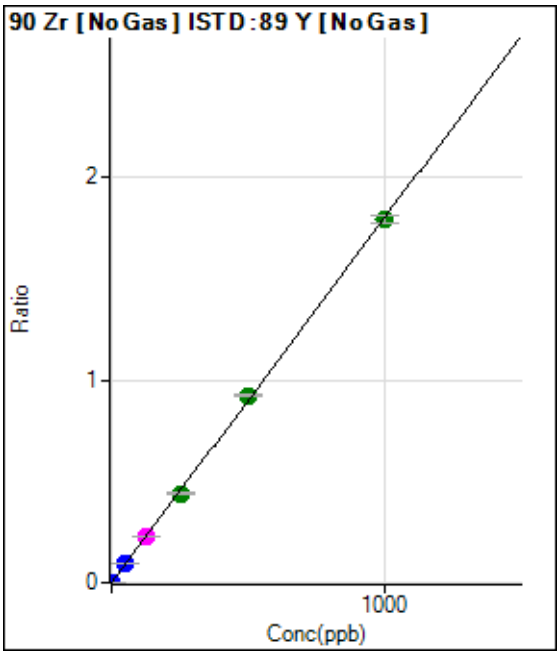


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.12	0.0000	P	7.7
2	☐	1.000	1.028	19782.27	0.0031	P	1.4
3	☐	50.000	52.133	969739.00	0.1554	P	0.8
4	☐	125.000	129.653	2359129.72	0.3865	A	2.2
5	☐	250.000	244.997	4710179.48	0.7303	A	1.5
6	☐	500.000	515.020	9478187.99	1.5351	A	0.4
7	☐	1000.000	993.052	18320491.81	2.9600	A	2.1
8	☐			61902.89	0.0101	P	0.8

y = 0.0030 * x + 2.1970E-005
R = 0.9998
DL = 0.001695
BEC = 0.007371

Weight: <None>
Min Conc: 0

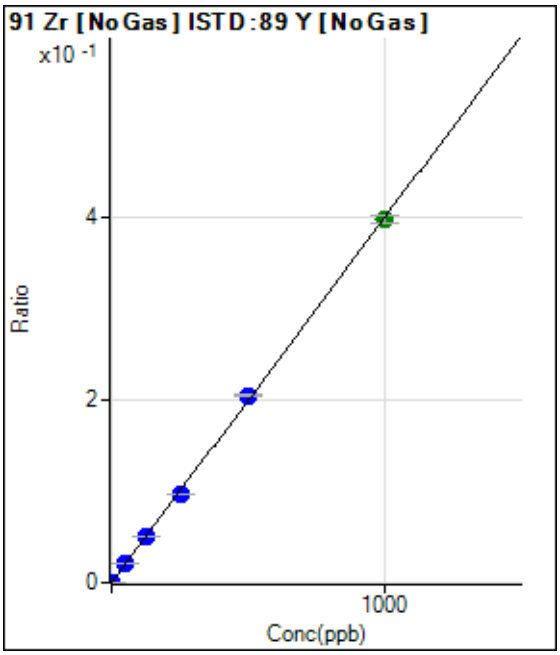
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	341.12	0.0001	P	10.9
2	☐	1.000	1.065	12634.42	0.0020	P	1.6
3	☐	50.000	51.604	580197.09	0.0930	P	0.3
4	☐	125.000	126.302	1388775.45	0.2275	M	1.9
5	☐	250.000	243.665	2830488.78	0.4389	A	2.0
6	☐	500.000	513.541	5709661.93	0.9249	A	1.4
7	☐	1000.000	994.570	11086204.14	1.7911	A	2.1
8	☐			5351.02	0.0009	P	2.1

y = 0.0018 * x + 5.3123E-005
R = 0.9998
DL = 0.009629
BEC = 0.0295

Weight: <None>
Min Conc: 0

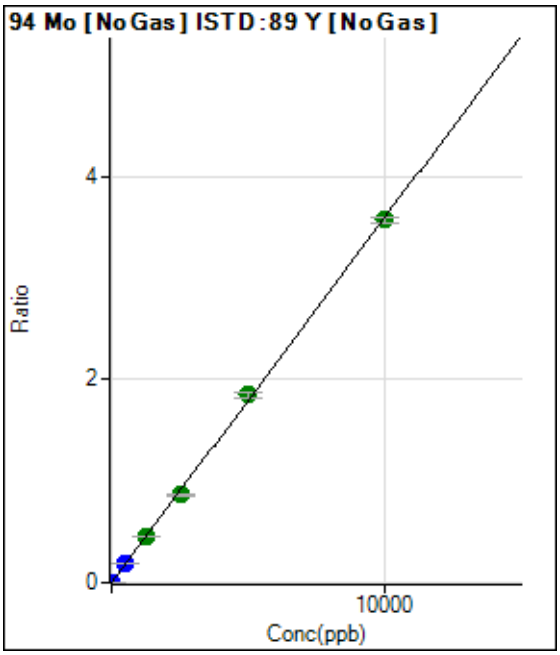


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	11.6
2	☐	1.000	1.025	2691.38	0.0004	P	3.5
3	☐	50.000	51.957	129665.31	0.0208	P	0.4
4	☐	125.000	127.590	311423.37	0.0510	P	1.7
5	☐	250.000	242.966	626530.96	0.0971	P	1.4
6	☐	500.000	513.547	1267374.71	0.2053	P	1.8
7	☐	1000.000	994.563	2460893.26	0.3976	A	2.2
8	☐			1106.72	0.0002	P	9.6

y = 3.9976E-004 * x + 1.0205E-005
R = 0.9998
DL = 0.008915
BEC = 0.02553

Weight: <None>
Min Conc: 0

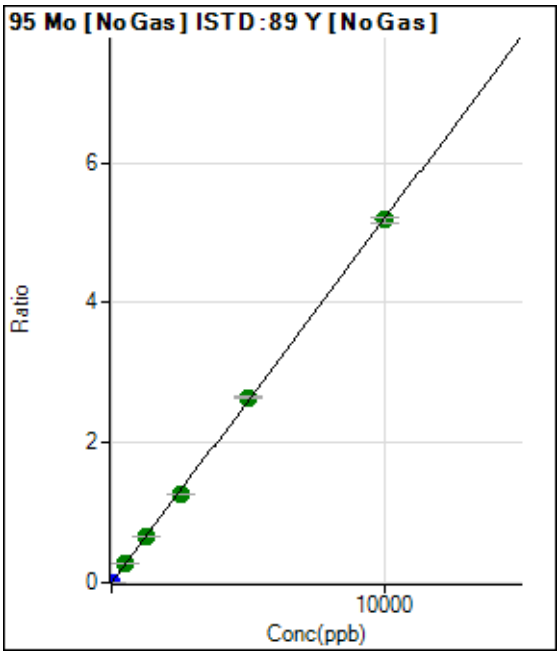
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.01	0.0000	P	10.3
2	☐	5.000	6.058	14085.74	0.0022	P	1.9
3	☐	500.000	521.849	1168777.82	0.1873	P	0.1
4	☐	1250.000	1270.619	2784101.66	0.4560	A	1.3
5	☐	2500.000	2410.772	5580511.72	0.8652	A	2.1
6	☐	5000.000	5144.690	11397340.52	1.8464	A	2.6
7	☐	10000.000	9946.292	22094822.17	3.5697	A	1.5
8	☐			5263.22	0.0009	P	2.5

y = 3.5890E-004 * x + 2.3354E-005
R = 0.9998
DL = 0.02002
BEC = 0.06507

Weight: <None>
Min Conc: 0

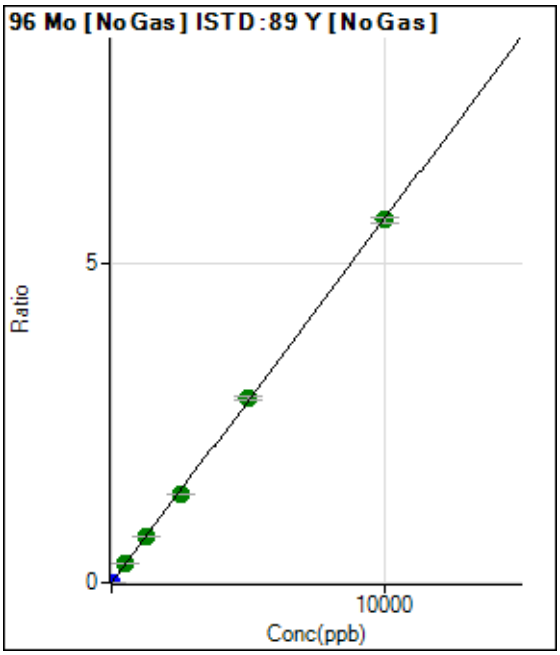


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92.22	0.0000	P	24.5
2	☐	5.000	5.013	16800.85	0.0026	P	1.7
3	☐	500.000	523.563	1698749.32	0.2722	A	0.8
4	☐	1250.000	1268.522	4027143.17	0.6596	A	1.0
5	☐	2500.000	2429.584	8148506.96	1.2633	A	0.9
6	☐	5000.000	5093.905	16351592.53	2.6487	A	1.3
7	☐	10000.000	9967.158	32077518.13	5.1826	A	1.6
8	☐			4691.92	0.0008	P	11.5

y = 5.1997E-004 * x + 1.4368E-005
R = 0.9999
DL = 0.0203
BEC = 0.02763

Weight: <None>
Min Conc: 0

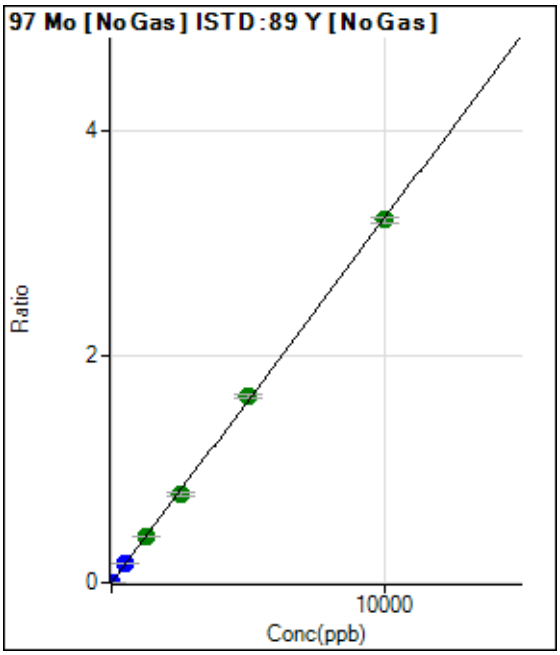
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.11	0.0000	P	3.6
2	☐	5.000	5.028	18581.94	0.0029	P	2.7
3	☐	500.000	517.580	1837756.73	0.2945	A	0.6
4	☐	1250.000	1274.631	4427498.06	0.7253	A	1.4
5	☐	2500.000	2428.203	8911294.73	1.3816	A	1.2
6	☐	5000.000	5087.719	17868663.34	2.8948	A	2.3
7	☐	10000.000	9970.132	35111268.37	5.6727	A	1.3
8	☐			21660.61	0.0035	P	2.3

y = 5.6897E-004 * x + 3.7540E-005
R = 0.9999
DL = 0.007032
BEC = 0.06598

Weight: <None>
Min Conc: 0

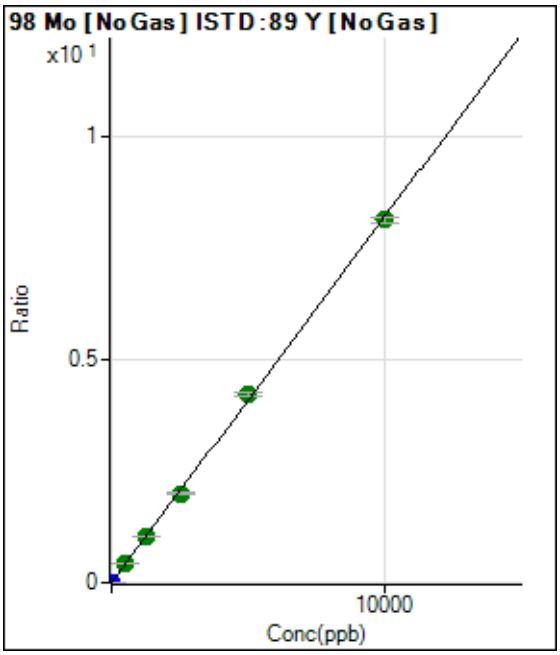


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0000	P	6.4
2	☐	5.000	5.045	10492.73	0.0016	P	2.7
3	☐	500.000	518.981	1044397.31	0.1674	P	0.1
4	☐	1250.000	1273.144	2506374.96	0.4106	A	2.0
5	☐	2500.000	2429.645	5053593.85	0.7836	A	2.5
6	☐	5000.000	5121.421	10195954.92	1.6517	A	1.6
7	☐	10000.000	9953.036	19867020.95	3.2098	A	1.9
8	☐			2900.31	0.0005	P	3.4

y = 3.2250E-004 * x + 1.0035E-005
R = 0.9999
DL = 0.005992
BEC = 0.03112

Weight: <None>
Min Conc: 0

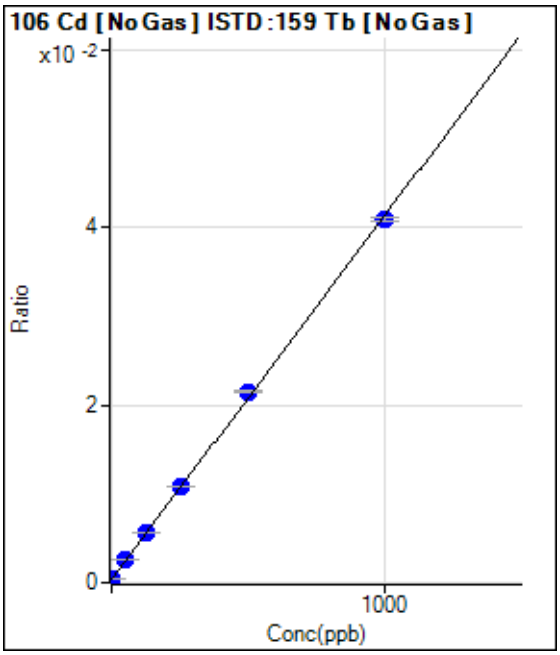
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132.23	0.0000	P	3.7
2	☐	5.000	5.047	26638.77	0.0042	P	0.4
3	☐	500.000	518.359	2649988.00	0.4247	A	1.0
4	☐	1250.000	1277.154	6388909.14	1.0464	A	0.1
5	☐	2500.000	2443.532	12912379.95	2.0019	A	1.3
6	☐	5000.000	5170.049	26145107.66	4.2357	A	2.5
7	☐	10000.000	9924.780	50327312.58	8.1311	A	1.3
8	☐			6228.11	0.0010	P	1.8

y = 8.1927E-004 * x + 2.0585E-005
R = 0.9998
DL = 0.00277
BEC = 0.02513

Weight: <None>
Min Conc: 0

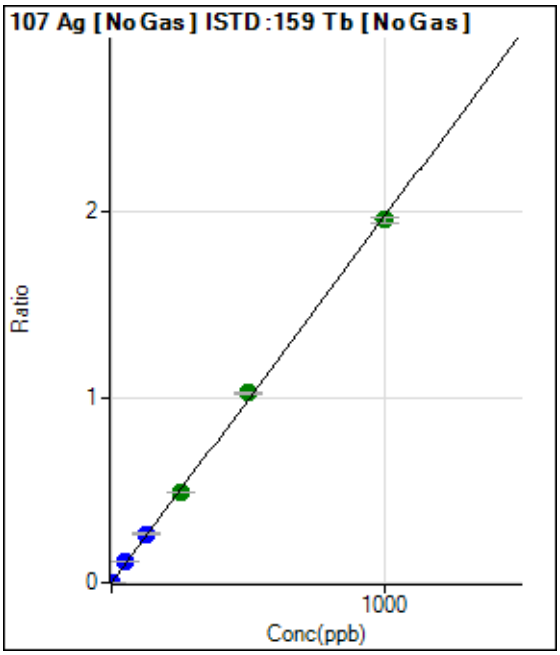


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1581.21	0.0004	P	8.5
2	☐	1.000	1.347	1840.14	0.0004	P	1.3
3	☐	50.000	54.828	11377.87	0.0026	P	3.4
4	☐	125.000	130.343	25079.50	0.0057	P	0.5
5	☐	250.000	255.852	49408.11	0.0108	P	1.9
6	☐	500.000	516.816	96000.02	0.0215	P	0.6
7	☐	1000.000	989.220	182443.14	0.0409	P	1.0
8	☐			1581.21	0.0004	P	8.7

y = 4.0943E-005 * x + 3.5053E-004
R = 0.9998
DL = 2.187
BEC = 8.561

Weight: <None>
Min Conc: 0

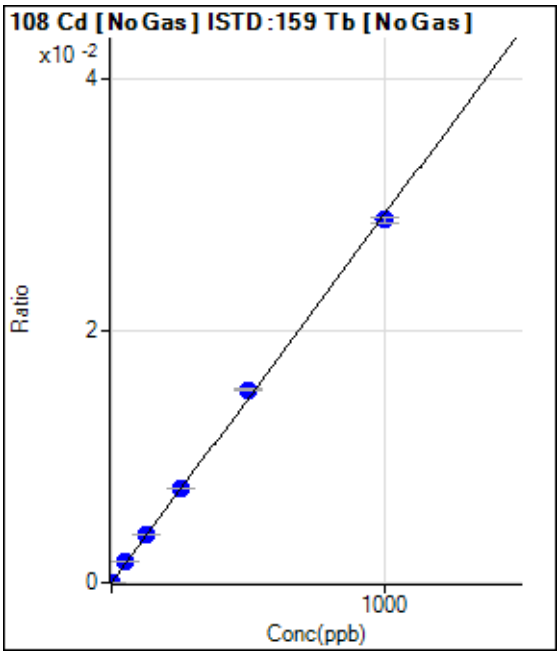
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	57.3
2	☐	1.000	1.113	9999.09	0.0022	P	2.1
3	☐	50.000	56.075	485377.33	0.1107	P	0.7
4	☐	125.000	132.939	1157034.55	0.2624	P	2.6
5	☐	250.000	247.369	2229034.13	0.4883	A	1.1
6	☐	500.000	517.652	4560758.61	1.0219	A	0.3
7	☐	1000.000	990.535	8732154.03	1.9554	A	1.6
8	☐			545.57	0.0001	P	15.8

y = 0.0020 * x + 8.1490E-006
R = 0.9997
DL = 0.007093
BEC = 0.004128

Weight: <None>
Min Conc: 0

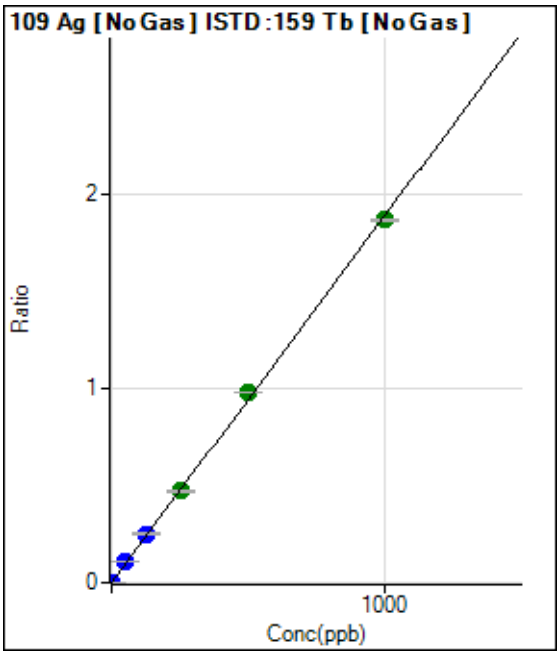


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0000	P	32.1
2	☐	1.000	1.040	153.33	0.0000	P	9.1
3	☐	50.000	56.845	7298.58	0.0017	P	4.3
4	☐	125.000	130.579	16842.08	0.0038	P	1.8
5	☐	250.000	255.869	34144.64	0.0075	P	1.8
6	☐	500.000	524.411	68412.65	0.0153	P	1.2
7	☐	1000.000	985.288	128608.73	0.0288	P	1.4
8	☐			67.78	0.0000	P	2.5

y = 2.9225E-005 * x + 3.4439E-006
R = 0.9995
DL = 0.1134
BEC = 0.1178

Weight: <None>
Min Conc: 0

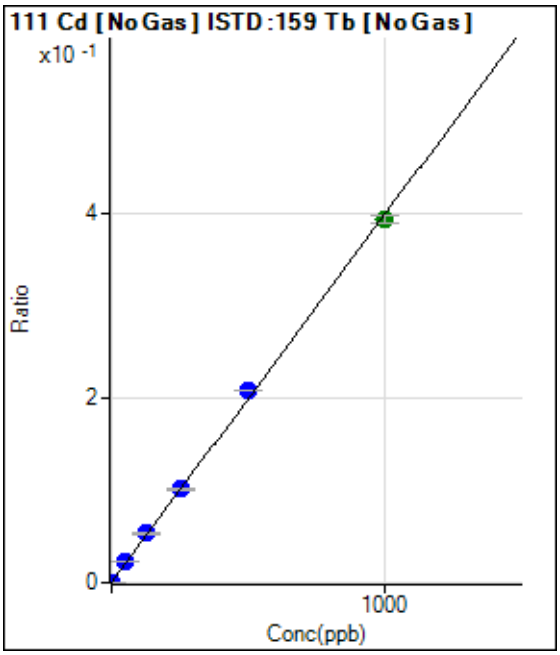
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.45	0.0000	P	20.0
2	☐	1.000	1.080	9265.27	0.0020	P	1.8
3	☐	50.000	56.040	463168.60	0.1056	P	0.8
4	☐	125.000	132.836	1104026.00	0.2504	P	2.0
5	☐	250.000	250.009	2150913.67	0.4713	A	1.5
6	☐	500.000	517.776	4355902.23	0.9760	A	0.2
7	☐	1000.000	989.828	8332305.43	1.8658	A	0.8
8	☐			481.13	0.0001	P	3.5

y = 0.0019 * x + 7.6344E-006
R = 0.9997
DL = 0.002428
BEC = 0.00405

Weight: <None>
Min Conc: 0

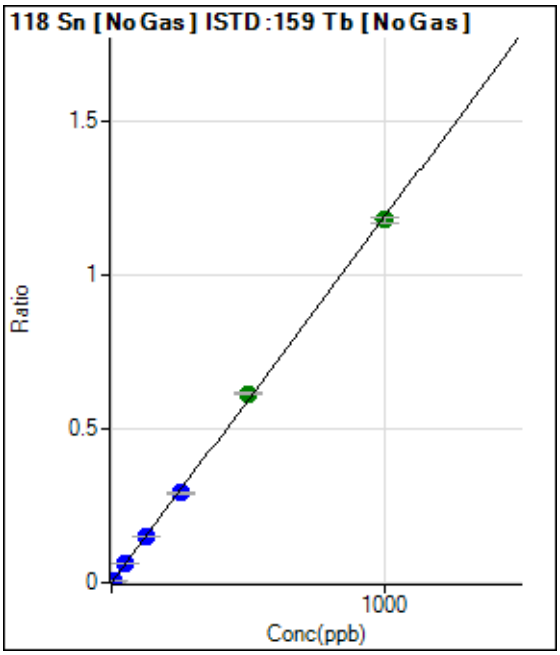


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1184.85	0.0003	P	7.5
2	☐	1.000	1.020	3030.90	0.0007	P	5.1
3	☐	50.000	55.307	97515.73	0.0222	P	0.7
4	☐	125.000	132.792	233787.51	0.0530	P	3.1
5	☐	250.000	254.979	463665.55	0.1016	P	1.7
6	☐	500.000	522.277	927480.00	0.2078	P	0.5
7	☐	1000.000	986.377	1751657.07	0.3923	A	2.1
8	☐			1362.75	0.0003	P	7.0

y = 3.9741E-004 * x + 2.6268E-004
R = 0.9996
DL = 0.1493
BEC = 0.661

Weight: <None>
Min Conc: 0

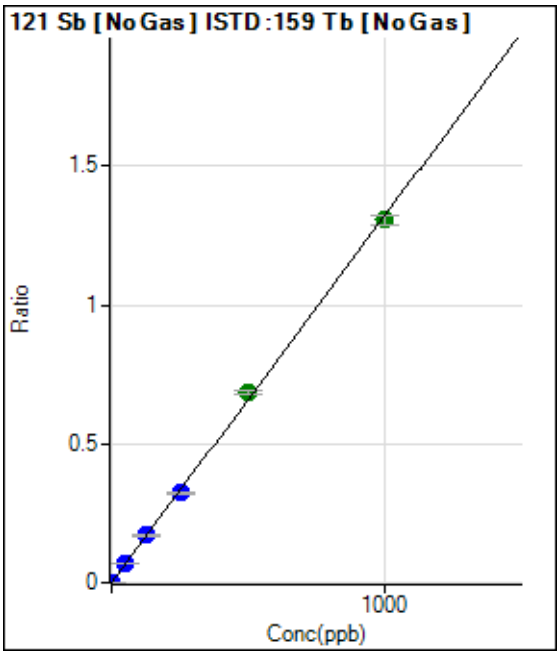
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	960.04	0.0002	P	3.9
2	☐	5.000	5.235	29138.34	0.0064	P	1.6
3	☐	50.000	53.030	276775.38	0.0631	P	1.0
4	☐	125.000	127.491	667849.00	0.1515	P	1.8
5	☐	250.000	245.307	1329219.95	0.2913	P	2.2
6	☐	500.000	517.704	2742177.15	0.6144	A	1.0
7	☐	1000.000	991.857	5256134.82	1.1770	A	1.7
8	☐			1933.48	0.0004	P	1.6

y = 0.0012 * x + 2.1288E-004
R = 0.9998
DL = 0.02094
BEC = 0.1794

Weight: <None>
Min Conc: 0

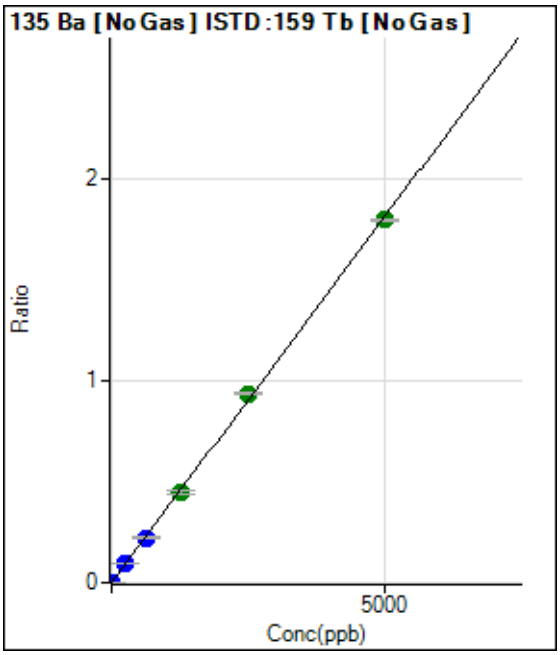


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	26.6
2	☐	2.000	2.111	12684.59	0.0028	P	4.1
3	☐	50.000	53.467	309457.53	0.0706	P	0.5
4	☐	125.000	128.804	749537.89	0.1700	P	2.7
5	☐	250.000	246.004	1481984.79	0.3247	P	1.8
6	☐	500.000	521.220	3070403.95	0.6880	A	1.8
7	☐	1000.000	989.740	5833455.40	1.3064	A	2.8
8	☐			2279.09	0.0005	P	4.1

y = 0.0013 * x + 9.8555E-006
R = 0.9997
DL = 0.005959
BEC = 0.007467

Weight: <None>
Min Conc: 0

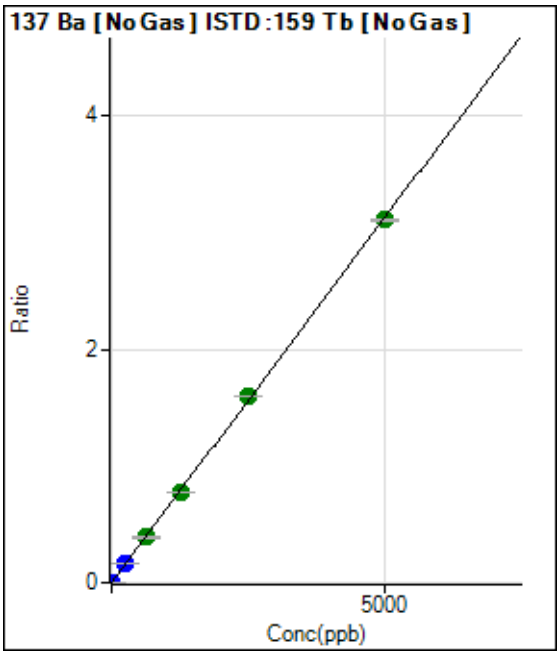
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	7.3
2	☐	10.000	9.671	15993.49	0.0035	P	1.2
3	☐	250.000	256.122	407657.60	0.0930	P	0.5
4	☐	625.000	615.387	984871.02	0.2234	P	2.2
5	☐	1250.000	1231.716	2040228.53	0.4471	A	3.7
6	☐	2500.000	2588.529	4193198.31	0.9396	A	1.2
7	☐	5000.000	4961.202	8042285.09	1.8008	A	0.9
8	☐			3335.98	0.0008	P	3.1

y = 3.6297E-004 * x + 1.5272E-005
R = 0.9998
DL = 0.0092
BEC = 0.04207

Weight: <None>
Min Conc: 0

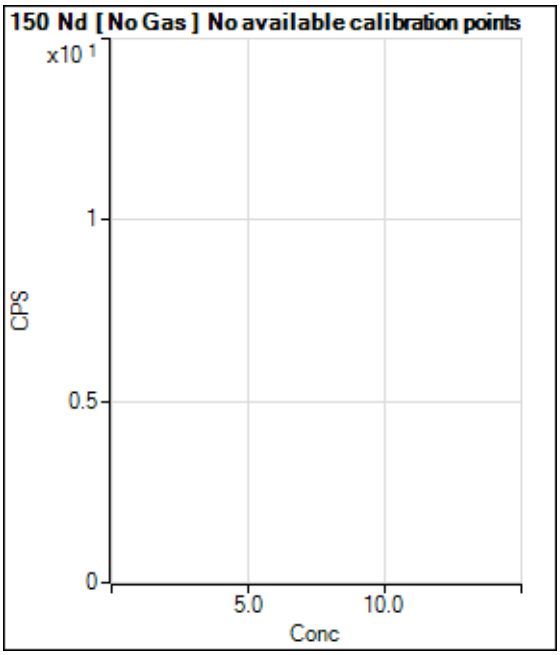


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0000	P	42.4
2	☐	10.000	9.722	27678.09	0.0061	P	0.6
3	☐	250.000	259.314	711018.03	0.1622	P	0.4
4	☐	625.000	628.837	1733520.93	0.3932	A	3.1
5	☐	1250.000	1237.891	3532889.32	0.7741	A	1.4
6	☐	2500.000	2556.171	7133508.92	1.5984	A	0.3
7	☐	5000.000	4973.997	13890072.99	3.1103	A	0.4
8	☐			5857.92	0.0014	P	3.1

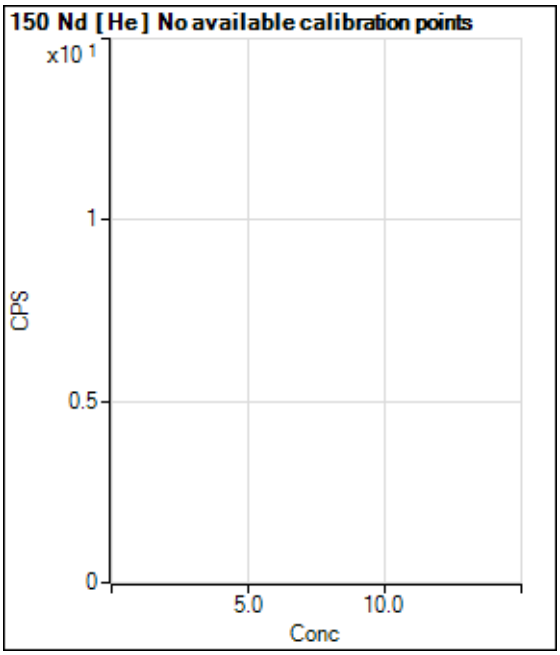
y = 6.2530E-004 * x + 2.1955E-005
R = 0.9999
DL = 0.04466
BEC = 0.03511

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

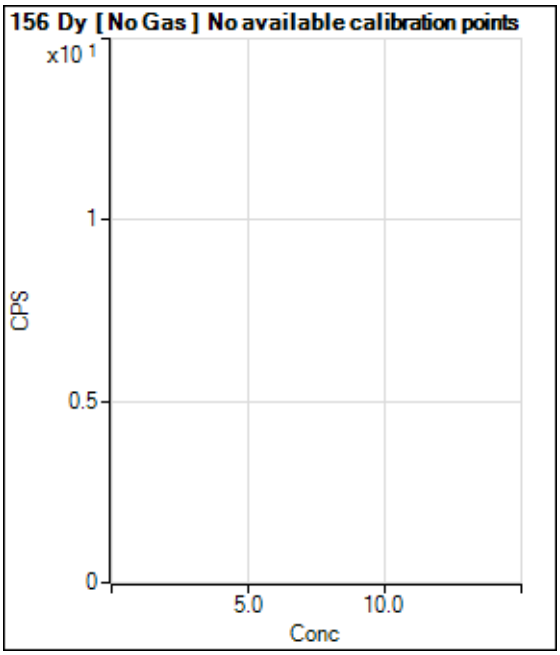


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	50.0
2	☐			3.33		P	100.
3	☐			31.11		P	40.6
4	☐			56.67		P	35.3
5	☐			134.45		P	12.5
6	☐			223.34		P	11.3
7	☐			420.01		P	7.3
8	☐			124.44		P	11.2

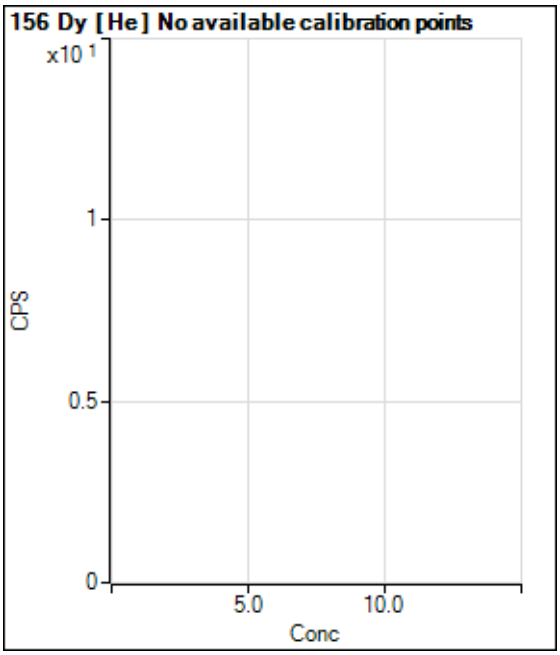


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			16.67		P	52.9
4	☐			20.00		P	16.7
5	☐			35.56		P	14.3
6	☐			62.22		P	36.5
7	☐			147.78		P	21.0
8	☐			90.00		P	6.4

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

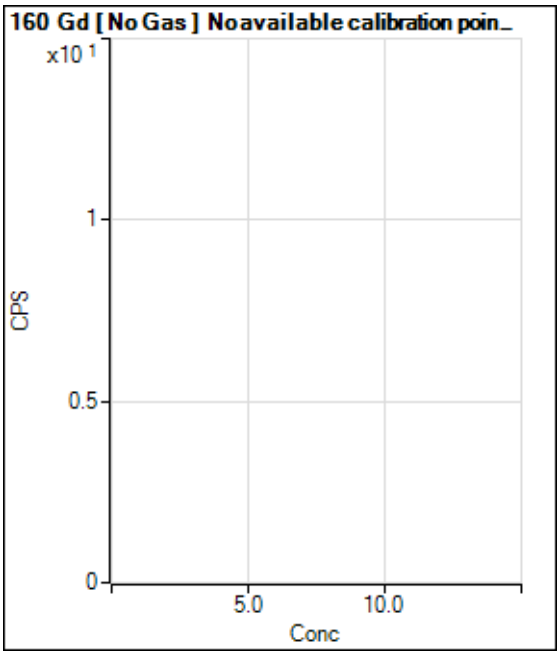


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8.89		P	57.3
2	☐			4.44		P	114.
3	☐			13.33		P	90.2
4	☐			21.11		P	32.9
5	☐			34.44		P	29.6
6	☐			81.11		P	31.9
7	☐			138.89		P	5.5
8	☐			190.00		P	11.0

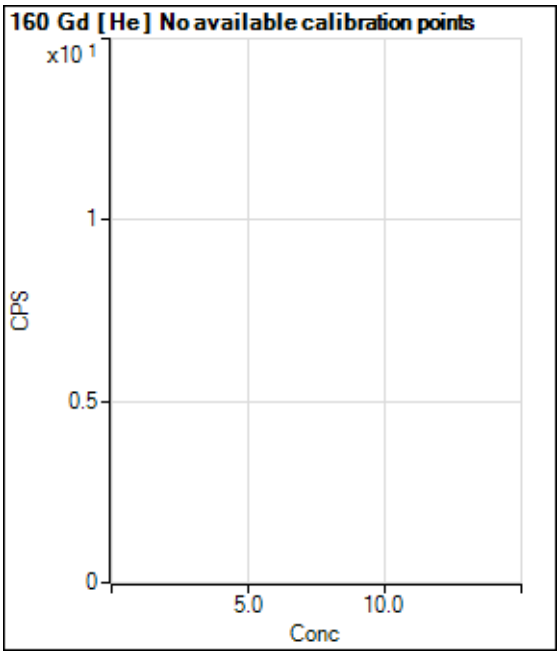


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.
2	☐			4.44		P	43.4
3	☐			17.78		P	57.3
4	☐			56.67		P	10.2
5	☐			116.67		P	2.9
6	☐			261.12		P	7.0
7	☐			445.57		P	17.4
8	☐			200.00		P	4.4

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

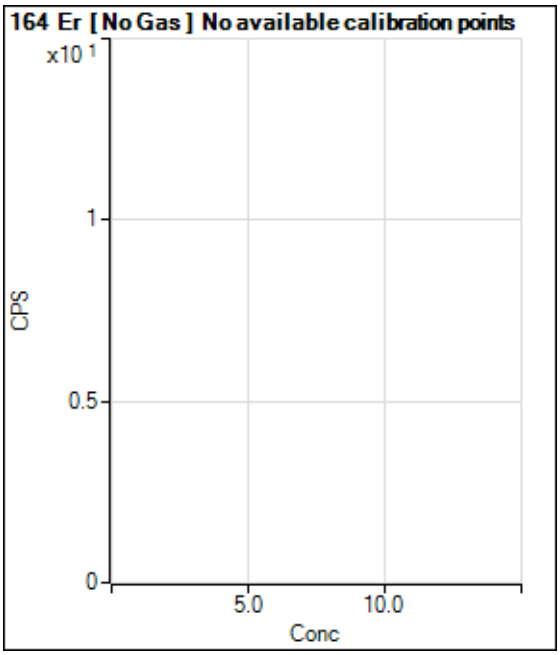


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	10.2
2	☐			16.67		P	87.2
3	☐			24.45		P	28.4
4	☐			17.78		P	39.0
5	☐			41.11		P	26.1
6	☐			52.22		P	25.8
7	☐			70.00		P	14.3
8	☐			213.34		P	10.2

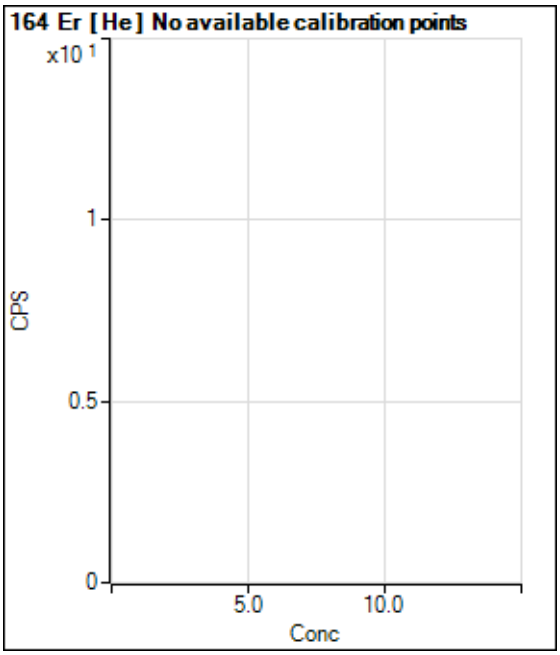


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			194.45		P	10.0
2	☐			202.22		P	3.4
3	☐			191.11		P	11.6
4	☐			190.00		P	7.6
5	☐			202.23		P	13.7
6	☐			213.34		P	16.5
7	☐			255.56		P	12.5
8	☐			348.90		P	4.8

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

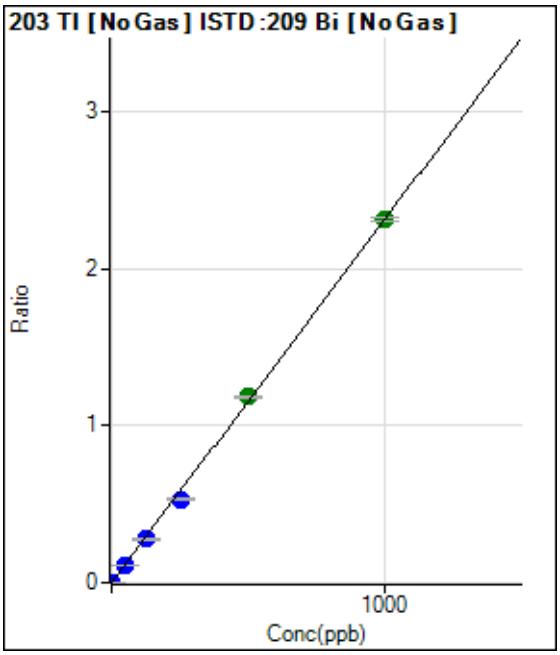


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			23.33		P	14.3
2	☐			33.33		P	10.0
3	☐			14.44		P	13.4
4	☐			33.33		P	26.5
5	☐			60.00		P	5.5
6	☐			53.33		P	43.3
7	☐			108.89		P	22.6
8	☐			247.78		P	20.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.55		P	27.1
2	☐			25.56		P	32.8
3	☐			16.67		P	NaN
4	☐			25.56		P	30.1
5	☐			52.22		P	16.1
6	☐			67.78		P	20.5
7	☐			86.67		P	20.0
8	☐			233.34		P	8.0

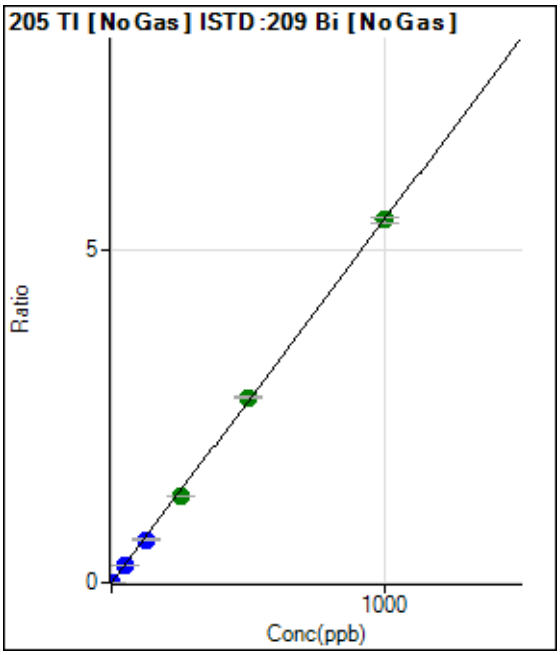
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	351.12	0.0001	P	13.9
2	☐	1.000	0.946	5924.68	0.0023	P	3.9
3	☐	50.000	49.171	284760.36	0.1136	P	0.7
4	☐	125.000	119.440	699314.55	0.2758	P	1.7
5	☐	250.000	228.799	1379506.26	0.5282	P	1.6
6	☐	500.000	512.294	2992979.96	1.1826	A	0.8
7	☐	1000.000	999.890	5736389.29	2.3080	A	0.9
8	☐			645.58	0.0003	P	10.2

y = 0.0023 * x + 1.3836E-004
R = 0.9996
DL = 0.02507
BEC = 0.05994

Weight: <None>
Min Conc: 0

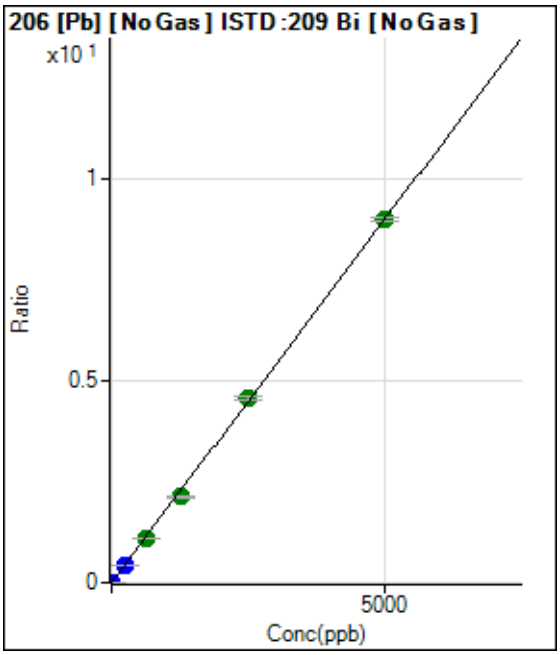


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	855.59	0.0003	P	3.4
2	☐	1.000	0.947	14045.12	0.0055	P	0.6
3	☐	50.000	48.579	665070.54	0.2654	P	1.4
4	☐	125.000	118.501	1640231.59	0.6469	P	1.3
5	☐	250.000	237.228	3381675.96	1.2947	A	1.1
6	☐	500.000	509.852	7041326.91	2.7822	A	0.9
7	☐	1000.000	999.151	13551221.19	5.4520	A	1.6
8	☐			1573.44	0.0007	P	5.7

y = 0.0055 * x + 3.3727E-004
R = 0.9998
DL = 0.006353
BEC = 0.06181

Weight: <None>
Min Conc: 0

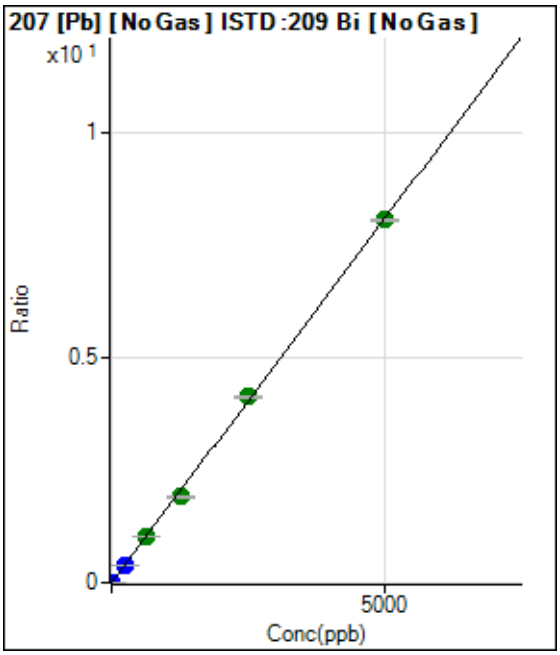
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	966.71	0.0004	P	6.7
2	☐	1.000	0.832	4787.56	0.0019	P	3.8
3	☐	250.000	250.011	1127458.59	0.4499	P	0.5
4	☐	625.000	616.427	2811151.07	1.1087	A	1.7
5	☐	1250.000	1184.318	5562294.98	2.1298	A	1.2
6	☐	2500.000	2540.521	11562465.10	4.5682	A	1.5
7	☐	5000.000	4997.231	22332889.39	8.9854	A	1.2
8	☐			10524.16	0.0047	P	2.6

y = 0.0018 * x + 3.8111E-004
R = 0.9999
DL = 0.04245
BEC = 0.212

Weight: <None>
Min Conc: 0

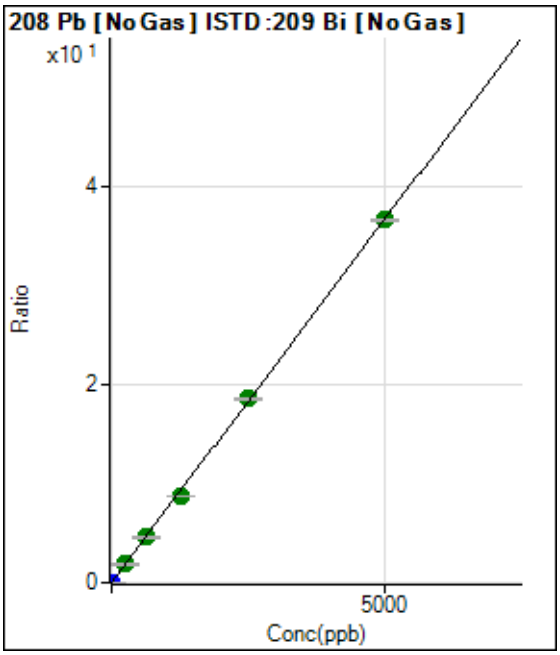


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	887.82	0.0004	P	3.8
2	☐	1.000	0.820	4276.28	0.0017	P	4.7
3	☐	250.000	244.804	993686.63	0.3965	P	0.6
4	☐	625.000	628.170	2578412.88	1.0169	A	0.9
5	☐	1250.000	1186.299	5014585.79	1.9202	A	1.8
6	☐	2500.000	2554.187	10462664.91	4.1338	A	1.5
7	☐	5000.000	4988.695	20066150.67	8.0737	A	0.7
8	☐			9205.41	0.0041	P	3.8

y = 0.0016 * x + 3.5002E-004
R = 0.9998
DL = 0.02447
BEC = 0.2163

Weight: <None>
Min Conc: 0

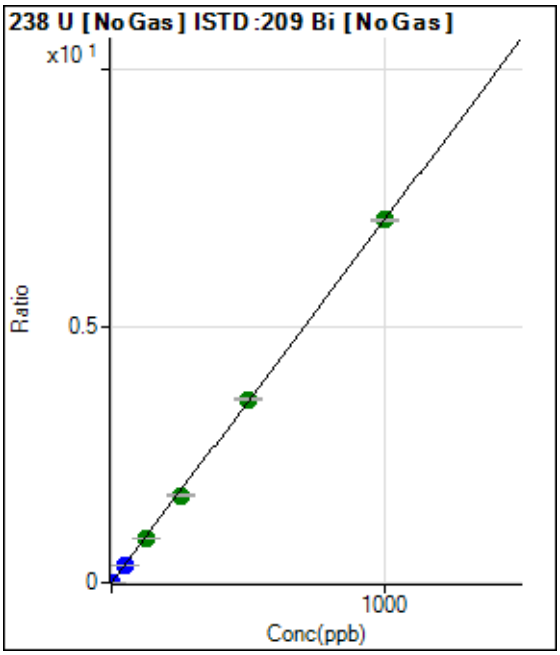
Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3972.49	0.0016	P	2.3
2	☐	1.000	0.810	19145.43	0.0075	P	3.2
3	☐	250.000	251.656	4625640.89	1.8458	A	0.6
4	☐	625.000	622.367	11568439.62	4.5625	A	1.2
5	☐	1250.000	1190.892	22796395.45	8.7289	A	1.8
6	☐	2500.000	2536.649	47054301.59	18.5912	A	0.9
7	☐	5000.000	4996.699	91012346.00	36.6195	A	0.7
8	☐			41769.81	0.0187	P	2.4

y = 0.0073 * x + 0.0016
R = 0.9999
DL = 0.01452
BEC = 0.2137

Weight: <None>
Min Conc: 0

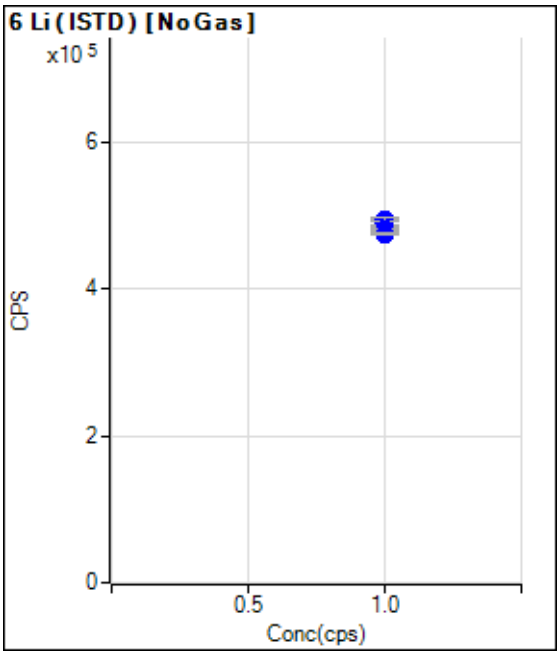


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	368.90	0.0001	P	11.9
2	☐	1.000	0.915	16874.10	0.0066	P	1.7
3	☐	50.000	47.120	834806.90	0.3331	P	0.6
4	☐	125.000	122.772	2200121.77	0.8677	A	1.9
5	☐	250.000	239.150	4413729.38	1.6901	A	1.9
6	☐	500.000	505.820	9046953.55	3.5745	A	0.9
7	☐	1000.000	1000.225	17567713.21	7.0683	A	0.7
8	☐			870.04	0.0004	P	6.2

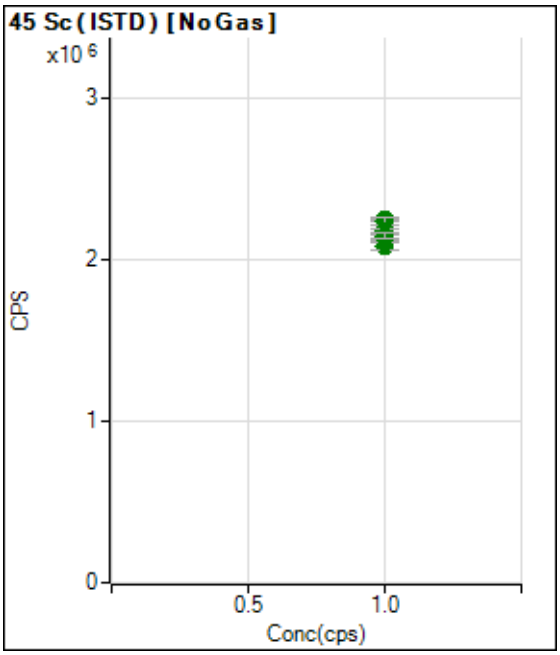
y = 0.0071 * x + 1.4533E-004
R = 0.9999
DL = 0.007365
BEC = 0.02057

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

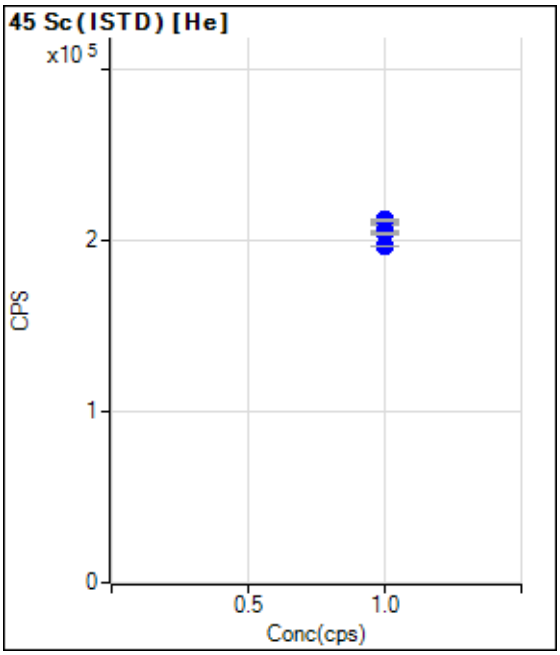


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		481703.75		P	0.6
2	☐	1.000		490617.36		P	1.2
3	☐	1.000		481819.18		P	0.4
4	☐	1.000		480831.20		P	0.6
5	☐	1.000		493707.92		P	1.0
6	☐	1.000		480593.77		P	0.4
7	☐	1.000		480810.78		P	0.5
8	☐	1.000		474466.68		P	0.7

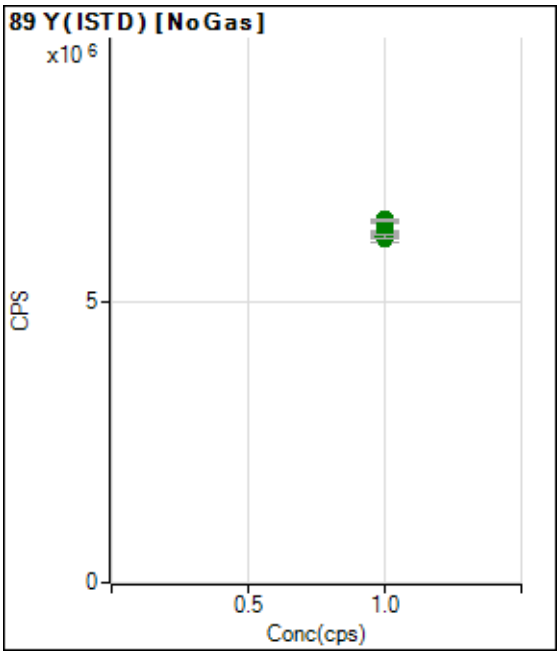


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2247668.02		A	0.2
2	☐	1.000		2234508.91		A	2.1
3	☐	1.000		2155423.23		A	0.4
4	☐	1.000		2090407.64		A	2.5
5	☐	1.000		2180200.00		A	1.5
6	☐	1.000		2120519.03		A	1.4
7	☐	1.000		2110522.40		A	0.5
8	☐	1.000		2146272.09		A	1.5

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

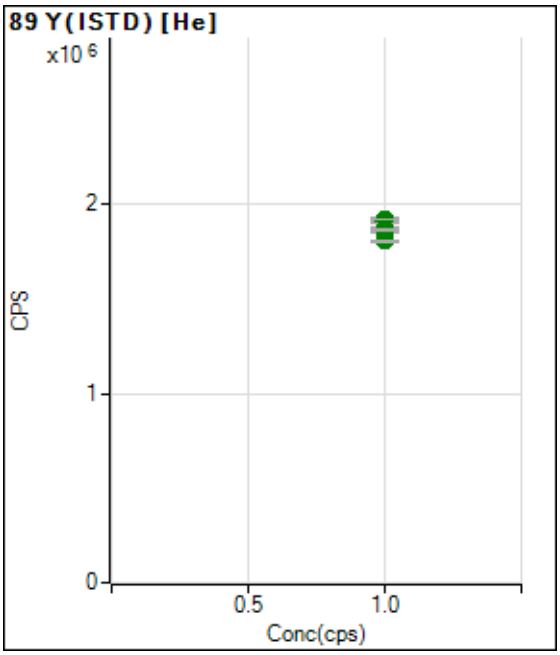


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		210576.06		P	0.4
2	☐	1.000		210509.91		P	0.5
3	☐	1.000		205201.31		P	0.6
4	☐	1.000		196595.81		P	0.1
5	☐	1.000		209559.02		P	0.3
6	☐	1.000		204375.29		P	0.8
7	☐	1.000		204085.12		P	0.9
8	☐	1.000		211927.65		P	0.5

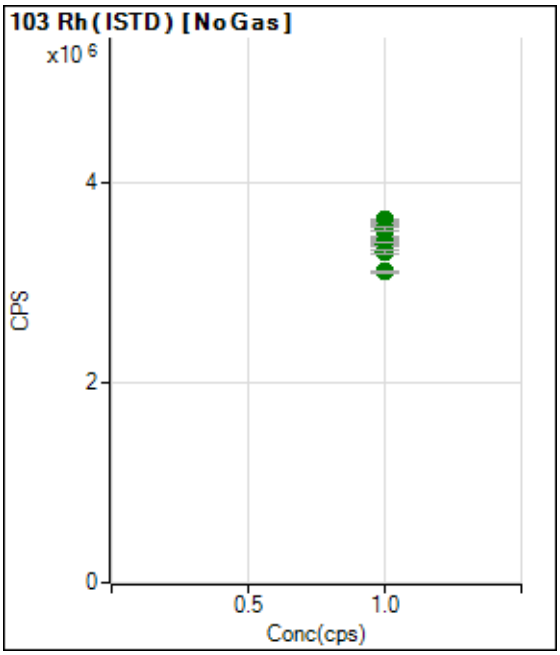


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6423324.76		A	0.5
2	☐	1.000		6410152.89		A	0.8
3	☐	1.000		6239682.75		A	0.2
4	☐	1.000		6105837.96		A	2.0
5	☐	1.000		6450337.20		A	0.8
6	☐	1.000		6174442.20		A	1.9
7	☐	1.000		6189614.00		A	0.3
8	☐	1.000		6146918.87		A	0.8

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

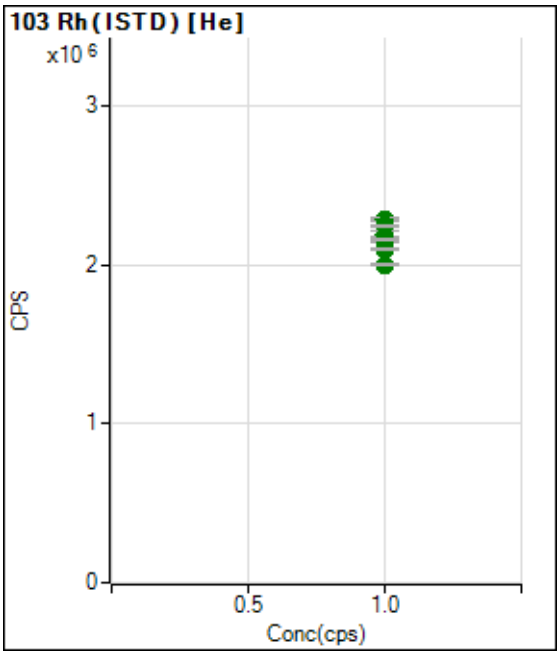


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1916990.21		A	1.0
2	☐	1.000		1918763.81		A	1.0
3	☐	1.000		1867159.22		A	0.5
4	☐	1.000		1805595.34		A	0.8
5	☐	1.000		1908775.30		A	1.3
6	☐	1.000		1873938.57		A	0.3
7	☐	1.000		1862026.43		A	1.0
8	☐	1.000		1868719.16		A	0.5

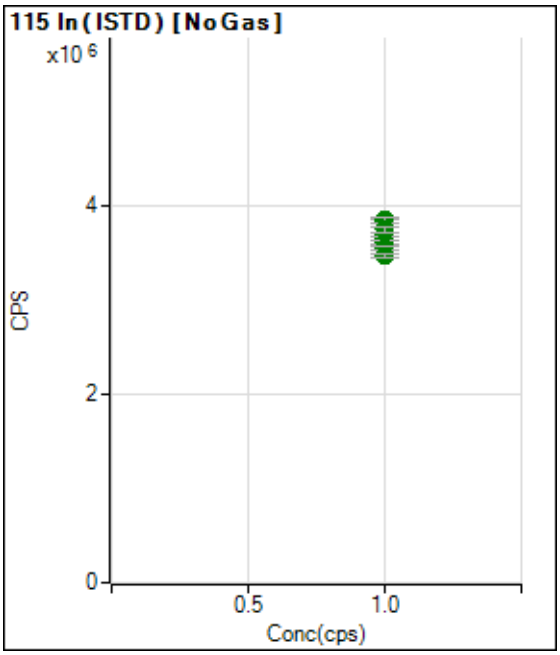


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3620831.82		A	0.2
2	☐	1.000		3584145.15		A	0.7
3	☐	1.000		3442171.06		A	0.4
4	☐	1.000		3402753.32		A	1.3
5	☐	1.000		3533913.80		A	1.3
6	☐	1.000		3372675.26		A	1.1
7	☐	1.000		3300793.42		A	0.6
8	☐	1.000		3103418.08		A	0.7

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

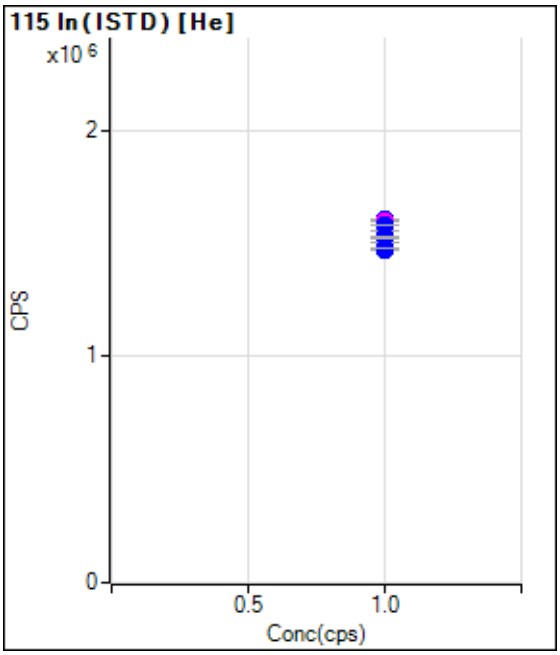


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2279235.84		A	0.5
2	☐	1.000		2281891.30		A	1.2
3	☐	1.000		2191878.23		A	1.5
4	☐	1.000		2150003.07		A	0.7
5	☐	1.000		2243985.99		A	0.7
6	☐	1.000		2158707.31		A	0.3
7	☐	1.000		2095488.42		A	0.7
8	☐	1.000		1996168.70		A	0.6

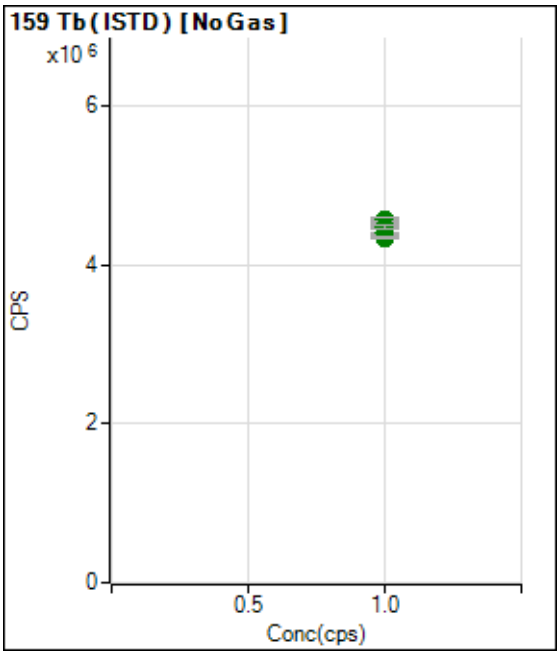


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3846144.15		A	0.9
2	☐	1.000		3856719.78		A	1.4
3	☐	1.000		3705275.22		A	0.9
4	☐	1.000		3654915.19		A	1.0
5	☐	1.000		3752526.06		A	2.1
6	☐	1.000		3620077.43		A	0.8
7	☐	1.000		3560959.48		A	1.1
8	☐	1.000		3471792.28		A	1.2

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

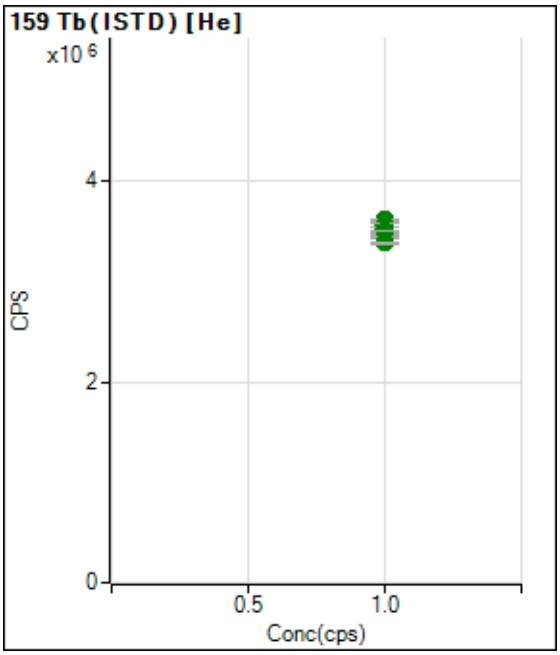


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1602675.76		P	0.3
2	☐	1.000		1595477.84		M	0.1
3	☐	1.000		1553793.43		P	0.3
4	☐	1.000		1505368.90		P	0.1
5	☐	1.000		1581599.13		P	0.3
6	☐	1.000		1527149.20		P	0.6
7	☐	1.000		1471026.04		P	0.2
8	☐	1.000		1479356.27		P	0.2

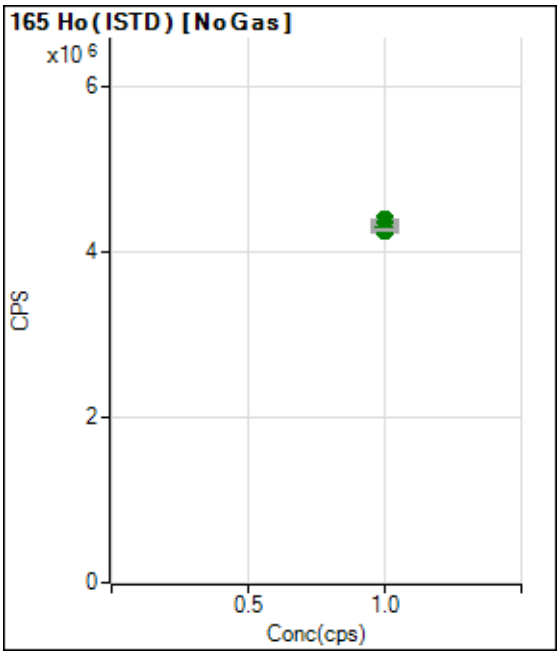


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4510585.84		A	0.9
2	☐	1.000		4536729.65		A	1.7
3	☐	1.000		4384423.13		A	0.5
4	☐	1.000		4410135.18		A	2.2
5	☐	1.000		4564482.08		A	1.0
6	☐	1.000		4462954.90		A	0.3
7	☐	1.000		4465996.70		A	1.1
8	☐	1.000		4334532.68		A	0.4

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

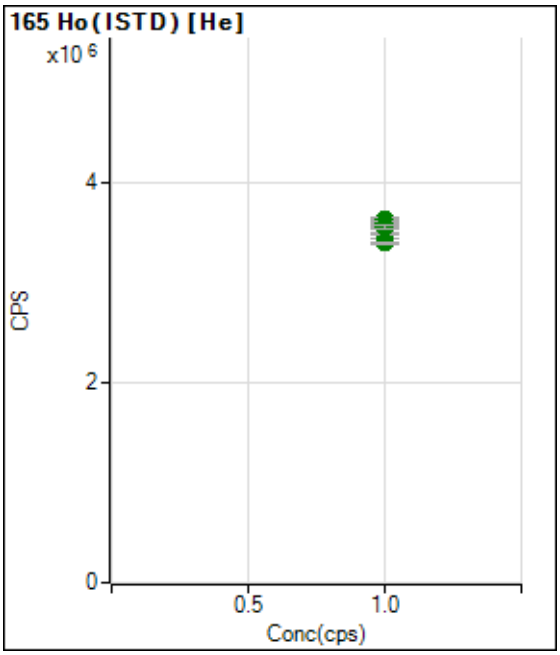


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3553465.89		A	1.1
2	☐	1.000		3522721.65		A	0.9
3	☐	1.000		3468543.77		A	0.8
4	☐	1.000		3431828.42		A	0.7
5	☐	1.000		3610904.67		A	0.7
6	☐	1.000		3559055.15		A	1.4
7	☐	1.000		3504113.63		A	0.0
8	☐	1.000		3381831.55		A	0.3

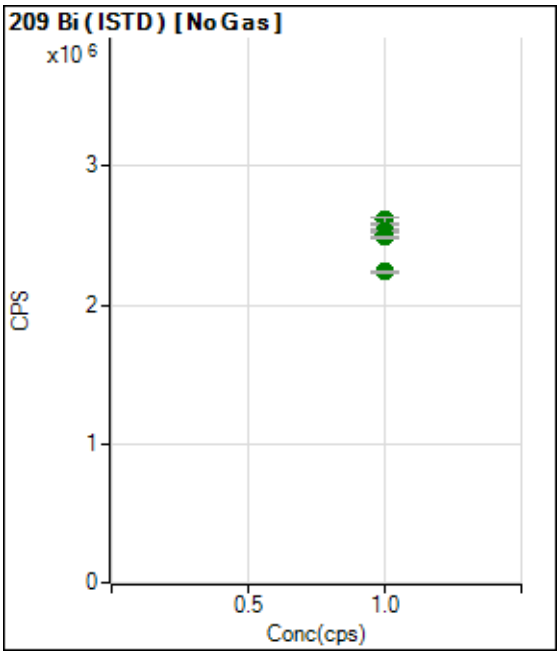


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4345143.89		A	0.9
2	☐	1.000		4343409.24		A	1.0
3	☐	1.000		4312450.84		A	0.6
4	☐	1.000		4268605.94		A	0.9
5	☐	1.000		4394402.71		A	0.8
6	☐	1.000		4321537.51		A	0.8
7	☐	1.000		4302131.43		A	1.3
8	☐	1.000		4267640.11		A	0.7

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

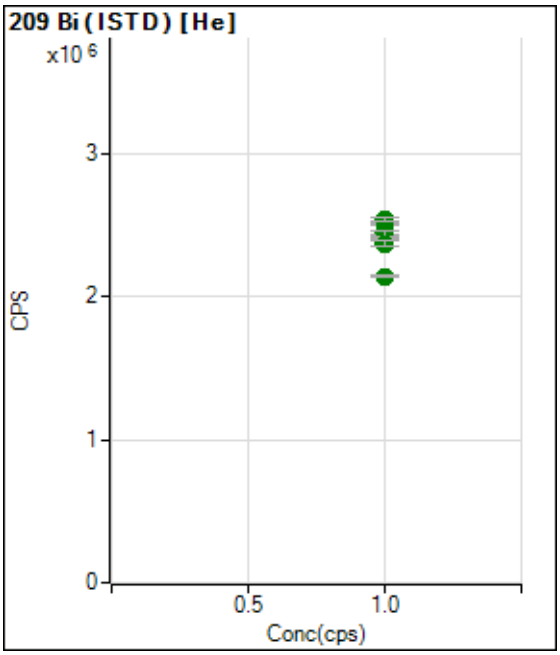


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3547344.64		A	0.9
2	☐	1.000		3601991.89		A	1.2
3	☐	1.000		3472725.75		A	1.7
4	☐	1.000		3477466.03		A	0.6
5	☐	1.000		3622840.50		A	1.7
6	☐	1.000		3581391.16		A	1.1
7	☐	1.000		3557835.61		A	1.2
8	☐	1.000		3389839.77		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2536928.12		A	1.2
2	☐	1.000		2552062.03		A	1.9
3	☐	1.000		2506075.48		A	0.7
4	☐	1.000		2535643.61		A	1.0
5	☐	1.000		2611914.16		A	1.4
6	☐	1.000		2530898.71		A	0.7
7	☐	1.000		2485359.75		A	0.8
8	☐	1.000		2236966.87		A	1.1

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2510866.23		A	0.3
2	☐	1.000		2517019.23		A	0.3
3	☐	1.000		2418247.57		A	1.0
4	☐	1.000		2379546.72		A	2.4
5	☐	1.000		2538003.83		A	1.1
6	☐	1.000		2447238.07		A	1.6
7	☐	1.000		2372187.90		A	1.7
8	☐	1.000		2143845.56		A	0.8

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7032425 MS.b
Acq. Date-Time	2025-03-24 13:34:50
Report Comment	---
Instrument Name	G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		15460	154597.54			0.561	5.000
24		38020	380197.31			0.595	5.000
25		5002	50018.89			0.492	5.000
26		5709	57087.25			0.913	5.000
59		62520	625203.49			0.511	5.000
113		8444	84444.68			0.523	5.000
115		98273	982729.61			0.546	5.000
206		18441	184410.06			1.359	5.000
207		16081	160812.38			1.158	5.000
208		38416	384164.42			0.890	5.000
220		0	2.20			20.328	

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

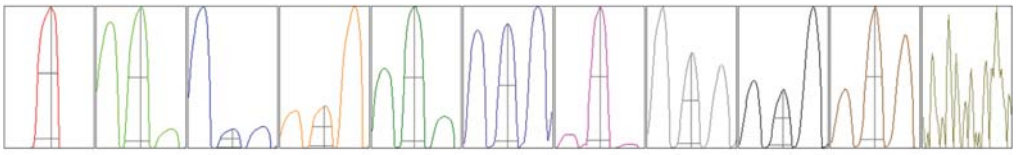
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15368	15393	15464	15589	15485
24	37800	37887	37886	38301	38225
25	4968	4993	4996	5032	5020
26	5633	5678	5758	5745	5729
59	62073	62394	62592	62947	62596
113	8375	8467	8495	8444	8441
115	98901	98570	97958	98405	97531
206	18717	18524	18583	18298	18084
207	16245	16254	16099	16001	15807
208	38566	38890	38403	38244	37978

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	24349.24	9.10	8.90 - 9.10	
24	60943.80	24.00	23.90 - 24.10	
25	7973.29	25.00	24.90 - 25.10	
26	9140.48	26.00	25.90 - 26.10	
59	100933.24	58.95	58.90 - 59.10	
113	15467.62	113.00	112.90 - 113.10	
115	182398.58	115.05	114.90 - 115.10	
206	35491.44	206.00	205.90 - 206.10	
207	31070.73	207.00	206.90 - 207.10	
208	74250.75	208.00	207.90 - 208.10	
220	0.00	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.819	0.900	
24	0.67	0.829	0.900	
25	0.66	0.800	0.900	
26	0.65	0.796	0.900	
59	0.65	0.790	0.900	
113	0.56	0.779	0.900	
115	0.56	0.768	0.900	
206	0.53	0.762	0.900	
207	0.53	0.762	0.900	
208	0.53	0.783	0.900	
220	0.50	0.500		

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

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.4 V	Deflect	16.0 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-50 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9975	QP Bias	-3.0 V
Mass Offset	128	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2314 V	Pulse HV	1122 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		21498	214984.97			0.589	
89		21191	211914.04			0.589	
205		23603	236029.02			0.856	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	21671	21395	21578	21368	21480
89	21353	21199	21216	21003	21187
205	23900	23556	23553	23344	23662

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	3.4 V

US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9975	QP Bias	-13.0 V
Mass Offset	128	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2314 V	Pulse HV	1122 V

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.20	0.04	-0.24	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	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	-0.01	0.02	-0.01	0.00	N/A	ppb
Beryllium	9-1	-0.01	0.00	0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	-0.04	0.01	0.00	N/A	ppb
Cadmium	106-1	0.10	0.67	-0.77	0.00	N/A	ppb
Cadmium	111-1	0.00	0.05	-0.05	0.00	N/A	ppb
Calcium	43-1	-0.46	0.66	-0.21	0.00	N/A	ppb
Calcium	44-1	0.60	0.14	-0.74	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.04	-0.01	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.02	0.02	0.00	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	56-2	0.05	-0.03	-0.02	0.00	N/A	ppb
Iron	57-2	0.31	-0.21	-0.10	0.00	N/A	ppb
Iron	54-2	-0.25	-0.01	0.25	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	-0.01	0.02	0.00	N/A	ppb
Lead	207-1	0.00	-0.01	0.01	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.01	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.14	0.15	-0.02	0.00	N/A	ppb
Manganese	55-2	-0.02	-0.01	0.03	0.00	N/A	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	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	-0.04	-0.01	0.05	0.00	N/A	ppb
Phosphorus	31-2	-129.10	-125.52	-127.27	-127.30		ppb
Potassium	39-2	-2.42	1.50	0.92	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.10	-0.35	0.25	0.00	N/A	ppb
Selenium	77-2	0.06	0.06	-0.12	0.00	N/A	ppb
Selenium	78-2	0.55	-1.53	0.98	0.00	N/A	ppb
Silicon	28-1	-1.11	0.64	0.48	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	-0.51	0.26	0.25	0.00	N/A	ppb
Strontium	86-1	0.01	-0.02	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-295.42	-233.33	-191.43	-240.06		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.00	-0.01	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	0.00	0.00	N/A	ppb
Titanium	47-1	-0.01	0.01	0.01	0.00	N/A	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.02	-0.06	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:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.64	19.59	18.66	19.30	2.85	ppb
Antimony	121-1	2.21	2.07	2.06	2.11	4.14	ppb
Arsenic	75-2	1.12	1.01	1.10	1.08	5.55	ppb
Barium	135-1	9.76	9.54	9.71	9.67	1.17	ppb
Barium	137-1	9.76	9.65	9.76	9.72	0.61	ppb
Beryllium	9-1	1.02	0.95	0.97	0.98	3.59	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.10	0.92	1.11	1.04	10.08	ppb
Cadmium	106-1	1.41	1.20	1.43	1.35	9.44	ppb
Cadmium	111-1	1.11	1.02	0.94	1.02	8.34	ppb
Calcium	43-1	507.40	501.60	523.02	510.68	2.17	ppb
Calcium	44-1	515.11	515.75	532.54	521.13	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.02	2.06	2.14	2.07	2.82	ppb
Cobalt	59-2	1.05	1.04	1.06	1.05	0.97	ppb
Copper	63-2	1.85	1.92	1.98	1.92	3.53	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				102		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	56.84	56.96	57.77	57.19	0.89	ppb
Iron	57-2	58.15	59.79	58.31	58.75	1.54	ppb
Iron	54-2	58.63	58.25	58.96	58.61	0.61	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.79	0.85	0.86	0.83	4.78	ppb
Lead	207-1	0.80	0.78	0.87	0.82	5.89	ppb
Lead	208-1	0.79	0.79	0.85	0.81	4.09	ppb
Lithium	6-1				102		%
Magnesium	24-2	484.72	490.42	485.92	487.02	0.62	ppb
Manganese	55-2	0.95	0.99	1.07	1.00	6.43	ppb
Molybdenum	94-1	5.96	6.18	6.03	6.06	1.91	ppb
Molybdenum	95-1	4.92	5.09	5.03	5.01	1.69	ppb
Molybdenum	96-1	5.08	5.13	4.87	5.03	2.69	ppb
Molybdenum	97-1	5.03	4.92	5.19	5.05	2.72	ppb
Molybdenum	98-1	5.03	5.06	5.06	5.05	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.88	0.80	0.87	0.85	5.35	ppb
Phosphorus	31-2	133.91	118.32	129.65	127.30	6.33	ppb
Potassium	39-2	499.72	500.84	499.87	500.14	0.12	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	5.87	5.28	5.20	5.45	6.68	ppb
Selenium	77-2	5.74	5.27	3.52	4.84	24.21	ppb
Selenium	78-2	2.86	2.40	3.82	3.02	23.97	ppb
Silicon	28-1	-0.89	-0.34	1.02	-0.07		ppb
Silver	107-1	1.13	1.09	1.12	1.11	2.10	ppb
Silver	109-1	1.10	1.06	1.08	1.08	1.84	ppb
Sodium	23-2	484.56	478.37	476.15	479.69	0.91	ppb
Strontium	86-1	1.00	1.03	0.99	1.01	1.93	ppb
Strontium	88-1	1.02	1.04	1.02	1.03	1.38	ppb
Sulfur	34-1	123.34	231.15	365.69	240.06	50.58	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.96	0.90	0.98	0.95	4.10	ppb
Thallium	205-1	0.94	0.95	0.95	0.95	0.67	ppb
Tin	118-1	5.22	5.15	5.33	5.23	1.68	ppb
Titanium	47-1	5.24	5.20	5.03	5.16	2.23	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.91	0.91	0.93	0.92	1.76	ppb
Vanadium	51-2	4.97	4.84	4.87	4.90	1.41	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	4.79	4.75	4.87	4.80	1.24	ppb
Zirconium	90-1	1.06	1.05	1.08	1.07	1.67	ppb
Zirconium	91-1	0.99	1.03	1.06	1.02	3.60	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1034.76	1031.93	1029.67	1032.12	0.25	ppb
Antimony	121-1	53.17	53.55	53.68	53.47	0.50	ppb
Arsenic	75-2	53.85	53.31	53.02	53.39	0.79	ppb
Barium	135-1	254.85	257.59	255.93	256.12	0.54	ppb
Barium	137-1	258.42	260.58	258.94	259.31	0.44	ppb
Beryllium	9-1	54.16	54.44	53.49	54.03	0.90	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	56.13	59.55	54.85	56.84	4.27	ppb
Cadmium	106-1	52.35	55.68	56.46	54.83	3.97	ppb
Cadmium	111-1	54.91	55.65	55.35	55.31	0.67	ppb
Calcium	43-1	5515.30	5439.60	5458.79	5471.23	0.72	ppb
Calcium	44-1	5289.98	5260.44	5181.48	5243.97	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53.05	52.31	52.27	52.54	0.84	ppb
Cobalt	59-2	53.33	52.55	52.85	52.91	0.74	ppb
Copper	63-2	543.13	533.94	523.97	533.68	1.80	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				98		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	56-2	2857.26	2808.49	2852.67	2839.48	0.95	ppb
Iron	57-2	2940.31	2897.21	2906.02	2914.52	0.78	ppb
Iron	54-2	3005.38	2946.61	2953.30	2968.43	1.08	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	250.18	248.76	251.09	250.01	0.47	ppb
Lead	207-1	244.76	243.24	246.42	244.80	0.65	ppb
Lead	208-1	250.86	250.62	253.48	251.66	0.63	ppb
Lithium	6-1				100		%
Magnesium	24-2	5215.56	5074.45	5032.26	5107.42	1.88	ppb
Manganese	55-2	521.00	518.40	520.32	519.91	0.26	ppb
Molybdenum	94-1	521.04	522.46	522.04	521.85	0.14	ppb
Molybdenum	95-1	524.38	527.23	519.08	523.56	0.79	ppb
Molybdenum	96-1	514.60	517.75	520.39	517.58	0.56	ppb
Molybdenum	97-1	518.68	519.85	518.41	518.98	0.15	ppb
Molybdenum	98-1	514.37	523.87	516.84	518.36	0.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	58.76	58.23	57.56	58.18	1.03	ppb
Phosphorus	31-2	915.07	912.29	932.36	919.91	1.18	ppb
Potassium	39-2	2678.56	2669.88	2667.66	2672.04	0.22	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	54.58	55.75	53.96	54.76	1.66	ppb
Selenium	77-2	45.89	50.90	48.96	48.58	5.21	ppb
Selenium	78-2	53.62	53.45	53.50	53.52	0.16	ppb
Silicon	28-1	52.87	54.93	53.53	53.78	1.96	ppb
Silver	107-1	55.72	56.04	56.47	56.08	0.67	ppb
Silver	109-1	55.50	56.31	56.30	56.04	0.83	ppb
Sodium	23-2	5231.62	5027.53	5078.54	5112.56	2.08	ppb
Strontium	86-1	51.77	52.04	52.08	51.96	0.33	ppb
Strontium	88-1	52.34	52.38	51.68	52.13	0.76	ppb
Sulfur	34-1	1222.09	1162.13	1172.58	1185.60	2.70	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	49.22	48.82	49.48	49.17	0.67	ppb
Thallium	205-1	48.40	48.02	49.32	48.58	1.38	ppb
Tin	118-1	52.45	53.47	53.17	53.03	0.99	ppb
Titanium	47-1	522.91	520.73	518.95	520.86	0.38	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	47.04	46.90	47.42	47.12	0.57	ppb
Vanadium	51-2	51.99	51.18	51.01	51.39	1.02	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	558.74	549.63	555.95	554.77	0.84	ppb
Zirconium	90-1	51.67	51.69	51.45	51.60	0.26	ppb
Zirconium	91-1	51.93	52.17	51.77	51.96	0.38	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2503.11	2509.08	2476.26	2496.15	0.70	ppb
Antimony	121-1	124.80	130.94	130.67	128.80	2.69	ppb
Arsenic	75-2	131.42	130.03	126.89	129.44	1.79	ppb
Barium	135-1	600.08	626.45	619.64	615.39	2.22	ppb
Barium	137-1	606.81	644.72	634.98	628.84	3.13	ppb
Beryllium	9-1	128.42	133.16	132.45	131.35	1.95	ppb
Bismuth	209-1				100		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	128.42	133.01	130.30	130.58	1.77	ppb
Cadmium	106-1	129.53	130.68	130.83	130.34	0.55	ppb
Cadmium	111-1	128.03	134.64	135.70	132.79	3.13	ppb
Calcium	43-1	13243.25	13912.87	13797.06	13651.06	2.62	ppb
Calcium	44-1	12622.53	13056.34	13079.27	12919.38	1.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	130.33	129.91	130.49	130.25	0.23	ppb
Cobalt	59-2	130.49	130.73	129.20	130.14	0.63	ppb
Copper	63-2	1315.08	1315.63	1309.24	1313.31	0.27	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				98		%
Holmium	165-2				98		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	56-2	7080.84	6995.11	6983.16	7019.70	0.76	ppb
Iron	57-2	7258.54	7238.73	7251.99	7249.76	0.14	ppb
Iron	54-2	7351.02	7314.58	7337.52	7334.37	0.25	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	604.70	621.32	623.26	616.43	1.65	ppb
Lead	207-1	626.57	623.18	634.76	628.17	0.95	ppb
Lead	208-1	613.88	625.19	628.03	622.37	1.20	ppb
Lithium	6-1				100		%
Magnesium	24-2	12876.39	12871.80	12778.63	12842.27	0.43	ppb
Manganese	55-2	1281.97	1290.15	1263.12	1278.41	1.08	ppb
Molybdenum	94-1	1252.98	1272.14	1286.74	1270.62	1.33	ppb
Molybdenum	95-1	1254.20	1275.77	1275.60	1268.52	0.98	ppb
Molybdenum	96-1	1261.53	1267.17	1295.20	1274.63	1.41	ppb
Molybdenum	97-1	1265.22	1252.44	1301.77	1273.14	2.01	ppb
Molybdenum	98-1	1277.07	1278.29	1276.10	1277.15	0.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	131.64	133.00	130.95	131.86	0.79	ppb
Phosphorus	31-2	2504.09	2440.64	2437.43	2460.72	1.53	ppb
Potassium	39-2	6404.39	6279.04	6381.45	6354.96	1.05	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				93		%
Scandium	45-2				93		%
Selenium	82-1	131.30	134.97	138.54	134.94	2.69	ppb
Selenium	77-2	134.55	128.57	137.22	133.45	3.32	ppb
Selenium	78-2	131.15	131.50	129.35	130.67	0.88	ppb
Silicon	28-1	119.50	126.07	125.48	123.68	2.94	ppb
Silver	107-1	129.05	135.70	134.07	132.94	2.61	ppb
Silver	109-1	129.89	134.86	133.76	132.84	1.97	ppb
Sodium	23-2	12662.36	12649.74	12871.04	12727.71	0.98	ppb
Strontium	86-1	124.79	126.43	129.88	127.04	2.05	ppb
Strontium	88-1	126.85	129.54	132.57	129.65	2.21	ppb
Sulfur	34-1	2504.06	2787.29	2635.83	2642.39	5.36	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	117.39	119.38	121.55	119.44	1.74	ppb
Thallium	205-1	116.95	118.46	120.09	118.50	1.32	ppb
Tin	118-1	124.85	128.92	128.71	127.49	1.80	ppb
Titanium	47-1	1238.87	1308.43	1282.73	1276.68	2.75	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	120.07	124.19	124.06	122.77	1.91	ppb
Vanadium	51-2	127.07	126.84	126.37	126.76	0.28	ppb
Yttrium	89-1				95		%
Yttrium	89-2				94		%
Zinc	66-2	1389.95	1379.40	1364.97	1378.10	0.91	ppb
Zirconium	90-1	124.18	125.91	128.82	126.30	1.86	ppb
Zirconium	91-1	126.39	126.29	130.10	127.59	1.70	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4768.89	4738.14	4740.23	4749.09	0.36	ppb
Antimony	121-1	241.01	248.15	248.86	246.00	1.77	ppb
Arsenic	75-2	249.96	255.60	256.53	254.03	1.40	ppb
Barium	135-1	1179.16	1258.78	1257.21	1231.72	3.70	ppb
Barium	137-1	1217.95	1252.22	1243.51	1237.89	1.44	ppb
Beryllium	9-1	246.85	250.72	252.13	249.90	1.09	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	251.62	255.09	260.89	255.87	1.83	ppb
Cadmium	106-1	250.15	259.98	257.42	255.85	1.99	ppb
Cadmium	111-1	250.13	257.87	256.93	254.98	1.66	ppb
Calcium	43-1	25574.69	25684.98	26083.25	25780.97	1.04	ppb
Calcium	44-1	24258.48	24513.13	25415.76	24729.12	2.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	252.10	251.40	248.11	250.54	0.85	ppb
Cobalt	59-2	250.46	251.05	246.73	249.41	0.94	ppb
Copper	63-2	2515.15	2527.10	2485.72	2509.33	0.85	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				101		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	56-2	13453.23	13607.35	13353.76	13471.44	0.95	ppb
Iron	57-2	13892.57	13953.38	13754.48	13866.81	0.74	ppb
Iron	54-2	13509.13	13661.66	13422.89	13531.23	0.89	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1175.19	1176.74	1201.02	1184.32	1.22	ppb
Lead	207-1	1174.92	1172.93	1211.04	1186.30	1.81	ppb
Lead	208-1	1175.85	1181.39	1215.43	1190.89	1.80	ppb
Lithium	6-1				102		%
Magnesium	24-2	24875.76	24749.37	24267.53	24630.88	1.30	ppb
Manganese	55-2	2470.12	2510.70	2486.95	2489.26	0.82	ppb
Molybdenum	94-1	2352.37	2450.45	2429.49	2410.77	2.14	ppb
Molybdenum	95-1	2418.63	2453.87	2416.25	2429.58	0.87	ppb
Molybdenum	96-1	2396.17	2455.46	2432.99	2428.20	1.23	ppb
Molybdenum	97-1	2378.00	2496.77	2414.17	2429.65	2.51	ppb
Molybdenum	98-1	2406.16	2458.74	2465.69	2443.53	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	252.18	252.45	248.51	251.05	0.88	ppb
Phosphorus	31-2	4985.21	4976.29	4829.24	4930.25	1.78	ppb
Potassium	39-2	12316.85	12454.23	12325.23	12365.43	0.62	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				100		%
Selenium	82-1	250.25	254.06	254.29	252.87	0.90	ppb
Selenium	77-2	246.06	261.68	257.41	255.05	3.16	ppb
Selenium	78-2	249.31	250.42	258.45	252.73	1.97	ppb
Silicon	28-1	277.04	277.33	291.79	282.05	2.99	ppb
Silver	107-1	246.97	244.88	250.26	247.37	1.10	ppb
Silver	109-1	245.86	250.80	253.37	250.01	1.53	ppb
Sodium	23-2	24659.55	24841.61	23859.41	24453.53	2.14	ppb
Strontium	86-1	236.77	245.37	242.18	241.44	1.80	ppb
Strontium	88-1	241.05	248.52	245.42	245.00	1.53	ppb
Sulfur	34-1	4835.51	4798.04	5079.21	4904.25	3.11	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	227.78	225.81	232.81	228.80	1.58	ppb
Thallium	205-1	234.38	238.06	239.25	237.23	1.07	ppb
Tin	118-1	239.11	248.90	247.91	245.31	2.20	ppb
Titanium	47-1	2404.34	2453.13	2482.87	2446.78	1.62	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	236.99	236.06	244.40	239.15	1.91	ppb
Vanadium	51-2	245.78	247.59	243.13	245.50	0.91	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	2588.45	2600.71	2576.81	2588.66	0.46	ppb
Zirconium	90-1	239.07	248.90	243.02	243.66	2.03	ppb
Zirconium	91-1	239.39	246.33	243.18	242.97	1.43	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9903.92	9897.44	10023.66	9941.67	0.71	ppb
Antimony	121-1	513.19	519.16	531.31	521.22	1.77	ppb
Arsenic	75-2	515.10	513.81	516.33	515.08	0.24	ppb
Barium	135-1	2555.66	2616.25	2593.68	2588.53	1.18	ppb
Barium	137-1	2552.51	2565.65	2550.35	2556.17	0.32	ppb
Beryllium	9-1	520.66	520.07	517.20	519.31	0.36	ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	523.85	530.82	518.56	524.41	1.17	ppb
Cadmium	106-1	514.30	519.97	516.18	516.82	0.56	ppb
Cadmium	111-1	519.33	523.09	524.41	522.28	0.50	ppb
Calcium	43-1	53049.41	54118.95	52934.72	53367.69	1.22	ppb
Calcium	44-1	50904.87	51646.60	50298.02	50949.83	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.36	518.20	527.79	519.45	1.50	ppb
Cobalt	59-2	507.58	510.28	516.58	511.48	0.90	ppb
Copper	63-2	5137.52	5043.28	5191.18	5123.99	1.46	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				99		%
Holmium	165-2				101		%
Indium	115-1				94		%
Indium	115-2				95		%
Iron	56-2	27781.38	27543.08	27804.03	27709.50	0.52	ppb
Iron	57-2	28011.06	27226.61	27371.26	27536.31	1.52	ppb
Iron	54-2	27831.79	27776.27	27858.85	27822.30	0.15	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2540.67	2502.53	2578.36	2540.52	1.49	ppb
Lead	207-1	2511.08	2566.19	2585.28	2554.19	1.51	ppb
Lead	208-1	2524.22	2522.98	2562.74	2536.65	0.89	ppb
Lithium	6-1				100		%
Magnesium	24-2	50538.63	50556.33	50861.49	50652.15	0.36	ppb
Manganese	55-2	5141.33	5083.79	5205.65	5143.59	1.19	ppb
Molybdenum	94-1	5005.65	5267.23	5161.19	5144.69	2.56	ppb
Molybdenum	95-1	5022.99	5156.76	5101.97	5093.91	1.32	ppb
Molybdenum	96-1	5006.07	5219.84	5037.25	5087.72	2.27	ppb
Molybdenum	97-1	5048.20	5212.36	5103.70	5121.42	1.63	ppb
Molybdenum	98-1	5101.60	5316.26	5092.29	5170.05	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	518.69	511.99	525.59	518.76	1.31	ppb
Phosphorus	31-2	10281.66	10179.48	10415.12	10292.09	1.15	ppb
Potassium	39-2	25328.58	25363.72	25663.35	25451.88	0.72	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				94		%
Scandium	45-2				97		%
Selenium	82-1	517.11	532.20	517.95	522.42	1.62	ppb
Selenium	77-2	510.18	512.73	529.29	517.40	2.00	ppb
Selenium	78-2	518.24	517.19	519.40	518.27	0.21	ppb
Silicon	28-1	460.69	476.74	455.65	464.36	2.37	ppb
Silver	107-1	519.32	517.23	516.41	517.65	0.29	ppb
Silver	109-1	518.70	516.95	517.68	517.78	0.17	ppb
Sodium	23-2	50749.83	49944.29	50346.28	50346.80	0.80	ppb
Strontium	86-1	503.00	516.78	504.90	508.23	1.47	ppb
Strontium	88-1	513.32	517.01	514.72	515.02	0.36	ppb
Sulfur	34-1	10046.77	10245.85	9763.34	10018.65	2.42	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	516.78	508.98	511.12	512.29	0.79	ppb
Thallium	205-1	512.50	512.31	504.74	509.85	0.87	ppb
Tin	118-1	512.85	516.71	523.55	517.70	1.05	ppb
Titanium	47-1	5041.78	5214.35	5099.00	5118.38	1.72	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	510.36	500.94	506.16	505.82	0.93	ppb
Vanadium	51-2	506.37	504.16	506.84	505.79	0.28	ppb
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	5251.61	5235.68	5297.17	5261.49	0.61	ppb
Zirconium	90-1	505.96	519.78	514.88	513.54	1.36	ppb
Zirconium	91-1	505.98	523.55	511.11	513.55	1.76	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19460.09	19592.29	19336.84	19463.07	0.66	ppb
Antimony	121-1	974.31	1021.34	973.57	989.74	2.77	ppb
Arsenic	75-2	990.30	986.24	995.65	990.73	0.48	ppb
Barium	135-1	4913.18	4995.53	4974.90	4961.20	0.86	ppb
Barium	137-1	4961.06	4998.02	4962.91	4974.00	0.42	ppb
Beryllium	9-1	973.61	989.40	1005.11	989.37	1.59	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	971.24	999.08	985.55	985.29	1.41	ppb
Cadmium	106-1	979.44	998.42	989.79	989.22	0.96	ppb
Cadmium	111-1	969.53	1009.94	979.66	986.38	2.13	ppb
Calcium	43-1	99193.37	100458.21	100090.63	99914.07	0.65	ppb
Calcium	44-1	97564.54	98967.43	100741.38	99091.12	1.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	991.01	1010.76	966.30	989.36	2.25	ppb
Cobalt	59-2	982.45	996.48	1001.93	993.62	1.01	ppb
Copper	63-2	9888.38	9954.01	9935.82	9926.07	0.34	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				100		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	56-2	53758.16	54212.68	53944.89	53971.91	0.42	ppb
Iron	57-2	53761.54	54401.66	53633.19	53932.13	0.76	ppb
Iron	54-2	53923.34	54640.60	53543.25	54035.73	1.03	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4929.59	5020.06	5042.04	4997.23	1.19	ppb
Lead	207-1	4958.32	4978.02	5029.74	4988.70	0.74	ppb
Lead	208-1	4978.69	4972.09	5039.32	4996.70	0.74	ppb
Lithium	6-1				100		%
Magnesium	24-2	99093.68	99493.13	97641.64	98742.82	0.99	ppb
Manganese	55-2	9835.86	10028.56	9914.61	9926.34	0.98	ppb
Molybdenum	94-1	9811.44	10112.77	9914.67	9946.29	1.54	ppb
Molybdenum	95-1	9794.29	10111.01	9996.17	9967.16	1.61	ppb
Molybdenum	96-1	9826.71	10056.94	10026.75	9970.13	1.25	ppb
Molybdenum	97-1	9745.42	10114.82	9998.87	9953.04	1.90	ppb
Molybdenum	98-1	9798.71	10054.14	9921.49	9924.78	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	987.55	996.11	983.62	989.09	0.65	ppb
Phosphorus	31-2	19856.11	19974.63	19810.19	19880.31	0.43	ppb
Potassium	39-2	49661.76	50044.78	49119.66	49608.73	0.94	ppb
Rhodium	103-1				91		%
Rhodium	103-2				92		%
Scandium	45-1				94		%
Scandium	45-2				97		%
Selenium	82-1	970.02	998.47	991.28	986.59	1.50	ppb
Selenium	77-2	1001.23	972.88	993.04	989.05	1.48	ppb
Selenium	78-2	992.25	978.19	997.48	989.31	1.01	ppb
Silicon	28-1	1015.46	1011.25	1002.94	1009.88	0.63	ppb
Silver	107-1	983.06	1008.57	979.97	990.54	1.58	ppb
Silver	109-1	991.70	996.25	981.54	989.83	0.76	ppb
Sodium	23-2	97964.00	99558.92	98636.30	98719.74	0.81	ppb
Strontium	86-1	974.01	1002.44	1016.57	997.67	2.17	ppb
Strontium	88-1	969.40	1001.63	1008.13	993.05	2.09	ppb
Sulfur	34-1	19945.41	19944.89	20072.29	19987.53	0.37	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	997.80	1009.82	992.05	999.89	0.91	ppb
Thallium	205-1	981.07	1010.55	1005.83	999.15	1.58	ppb
Tin	118-1	976.48	1009.70	989.39	991.86	1.69	ppb
Titanium	47-1	9912.10	9948.91	9988.21	9949.74	0.38	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	992.42	1003.55	1004.71	1000.23	0.68	ppb
Vanadium	51-2	990.57	1007.59	995.66	997.94	0.88	ppb
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	9921.84	9929.31	9633.87	9828.34	1.71	ppb
Zirconium	90-1	976.67	1017.63	989.42	994.57	2.11	ppb
Zirconium	91-1	970.14	1013.37	1000.18	994.56	2.23	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100916.09	99260.37	100200.16	100125.54	0.83	ppb
Antimony	121-1	0.37	0.41	0.39	0.39	4.13	ppb
Arsenic	75-2	0.50	0.51	0.39	0.46	14.70	ppb
Barium	135-1	2.15	2.02	2.07	2.08	3.13	ppb
Barium	137-1	2.05	2.18	2.15	2.13	3.16	ppb
Beryllium	9-1	0.04	0.08	0.05	0.06	37.43	ppb
Bismuth	209-1				88		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.41	0.43	0.41	0.42	3.15	ppb
Cadmium	106-1	-0.49	0.49	1.04	0.35	223.64	ppb
Cadmium	111-1	0.07	0.14	0.18	0.13	42.72	ppb
Calcium	43-1	500530.23	502461.68	495831.70	499607.87	0.68	ppb
Calcium	44-1	500810.06	500179.44	499272.67	500087.39	0.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.74	5.53	5.62	5.63	1.85	ppb
Cobalt	59-2	2.62	2.62	2.60	2.61	0.40	ppb
Copper	63-2	2.09	1.96	2.13	2.06	4.51	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				96		%
Indium	115-1				90		%
Indium	115-2				92		%
Iron	56-2	247295.07	251142.03	248153.27	248863.46	0.81	ppb
Iron	57-2	248207.36	249465.55	248914.47	248862.46	0.25	ppb
Iron	54-2	248218.64	249994.42	248268.75	248827.27	0.41	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.33	2.46	2.43	2.40	2.84	ppb
Lead	207-1	2.22	2.38	2.38	2.33	4.11	ppb
Lead	208-1	2.27	2.39	2.34	2.33	2.67	ppb
Lithium	6-1				98		%
Magnesium	24-2	510079.08	490315.89	500190.21	500195.06	1.98	ppb
Manganese	55-2	4.84	4.74	4.76	4.78	1.13	ppb
Molybdenum	94-1	2.29	2.39	2.29	2.32	2.60	ppb
Molybdenum	95-1	1.25	1.55	1.53	1.44	11.73	ppb
Molybdenum	96-1	6.07	6.29	6.02	6.13	2.34	ppb
Molybdenum	97-1	1.37	1.45	1.47	1.43	3.51	ppb
Molybdenum	98-1	1.21	1.23	1.19	1.21	1.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.76	3.84	3.74	3.78	1.45	ppb
Phosphorus	31-2	-118.32	-126.01	-121.94	-122.09		ppb
Potassium	39-2	251250.95	249644.33	249211.07	250035.45	0.43	ppb
Rhodium	103-1				86		%
Rhodium	103-2				88		%
Scandium	45-1				95		%
Scandium	45-2				101		%
Selenium	82-1	1.81	1.07	1.91	1.60	28.82	ppb
Selenium	77-2	1.00	1.36	0.63	1.00	36.95	ppb
Selenium	78-2	0.44	0.56	-1.64	-0.21		ppb
Silicon	28-1	4.01	8.25	2.36	4.87	62.33	ppb
Silver	107-1	0.07	0.06	0.05	0.06	16.88	ppb
Silver	109-1	0.05	0.06	0.06	0.05	3.79	ppb
Sodium	23-2	503118.25	498719.42	498888.02	500241.90	0.50	ppb
Strontium	86-1	3.38	3.40	3.33	3.37	1.14	ppb
Strontium	88-1	3.38	3.39	3.34	3.37	0.83	ppb
Sulfur	34-1	-119.71	79.71	220.12	60.04	284.42	ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	0.08	0.05	0.06	0.07	19.51	ppb
Thallium	205-1	0.07	0.07	0.06	0.07	10.92	ppb
Tin	118-1	0.20	0.19	0.20	0.20	3.13	ppb
Titanium	47-1	0.66	0.56	0.56	0.59	10.23	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.03	0.04	0.03	9.85	ppb
Vanadium	51-2	0.28	0.23	0.26	0.26	9.10	ppb
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	18.23	18.44	18.82	18.50	1.60	ppb
Zirconium	90-1	0.47	0.45	0.45	0.45	2.23	ppb
Zirconium	91-1	0.38	0.47	0.43	0.42	10.21	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	473.40	462.84	459.78	465.34	1.54	ppb
Antimony	121-1	198.44	203.15	198.74	200.11	1.32	ppb
Arsenic	75-2	199.74	205.23	199.16	201.38	1.66	ppb
Barium	135-1	96.93	99.27	97.26	97.82	1.30	ppb
Barium	137-1	97.86	100.17	98.61	98.88	1.19	ppb
Beryllium	9-1	101.28	102.27	103.89	102.48	1.28	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	144.16	143.42	141.79	143.13	0.85	ppb
Cadmium	106-1	148.13	154.86	145.18	149.39	3.32	ppb
Cadmium	111-1	106.89	111.20	108.93	109.00	1.98	ppb
Calcium	43-1	2418.01	2415.32	2379.82	2404.38	0.89	ppb
Calcium	44-1	2174.48	2234.23	2208.40	2205.71	1.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.66	101.96	100.91	101.51	0.54	ppb
Cobalt	59-2	101.68	102.16	99.75	101.20	1.26	ppb
Copper	63-2	93.20	93.94	92.75	93.30	0.64	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				99		%
Holmium	165-2				101		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	56-2	2106.20	2095.55	2054.15	2085.30	1.32	ppb
Iron	57-2	2172.57	2214.74	2144.82	2177.37	1.62	ppb
Iron	54-2	2248.87	2272.93	2241.40	2254.40	0.73	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	194.14	193.29	194.91	194.11	0.42	ppb
Lead	207-1	181.66	180.32	183.02	181.66	0.74	ppb
Lead	208-1	190.60	189.08	191.01	190.23	0.53	ppb
Lithium	6-1				97		%
Magnesium	24-2	1083.28	1083.55	1079.77	1082.20	0.20	ppb
Manganese	55-2	89.89	91.24	90.08	90.41	0.81	ppb
Molybdenum	94-1	4842.55	4989.92	4924.41	4918.96	1.50	ppb
Molybdenum	95-1	4792.86	4985.82	4857.98	4878.89	2.01	ppb
Molybdenum	96-1	4768.71	4948.51	4859.04	4858.75	1.85	ppb
Molybdenum	97-1	4798.54	4916.63	4895.34	4870.17	1.29	ppb
Molybdenum	98-1	4900.15	4978.91	4922.58	4933.88	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.92	102.50	101.18	102.53	1.34	ppb
Phosphorus	31-2	-131.67	-129.15	-125.17	-128.66		ppb
Potassium	39-2	1960.62	1967.39	1954.78	1960.93	0.32	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	212.08	214.76	212.12	212.99	0.72	ppb
Selenium	77-2	204.61	214.36	217.29	212.08	3.13	ppb
Selenium	78-2	207.95	215.28	212.81	212.01	1.76	ppb
Silicon	28-1	144.76	157.47	157.65	153.30	4.82	ppb
Silver	107-1	48.68	50.67	49.65	49.66	2.00	ppb
Silver	109-1	48.78	50.21	49.03	49.34	1.54	ppb
Sodium	23-2	1867.65	1870.12	1837.92	1858.57	0.96	ppb
Strontium	86-1	516.98	520.15	513.68	516.94	0.63	ppb
Strontium	88-1	520.12	530.17	519.41	523.23	1.15	ppb
Sulfur	34-1	-1172.14	-1145.63	-1232.37	-1183.38		ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	184.24	184.38	186.49	185.04	0.68	ppb
Thallium	205-1	194.48	189.85	196.26	193.53	1.71	ppb
Tin	118-1	534.03	535.75	530.21	533.33	0.53	ppb
Titanium	47-1	4643.43	4735.03	4794.88	4724.45	1.61	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	501.68	498.03	504.52	501.41	0.65	ppb
Vanadium	51-2	96.83	97.59	95.08	96.50	1.33	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	186.22	189.09	186.37	187.23	0.86	ppb
Zirconium	90-1	505.48	516.90	502.46	508.28	1.50	ppb
Zirconium	91-1	504.95	517.60	509.15	510.57	1.26	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.75	19.74	19.46	20.32	6.14	ppb
Antimony	121-1	2.10	2.15	2.10	2.12	1.39	ppb
Arsenic	75-2	1.04	0.93	1.08	1.01	7.52	ppb
Barium	135-1	9.93	10.16	9.81	9.97	1.81	ppb
Barium	137-1	10.12	10.26	10.09	10.16	0.88	ppb
Beryllium	9-1	1.01	0.88	1.17	1.02	14.39	ppb
Bismuth	209-1				98		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.45	1.40	0.80	1.21	29.81	ppb
Cadmium	106-1	0.88	0.20	0.45	0.51	67.51	ppb
Cadmium	111-1	1.09	1.01	1.10	1.07	4.65	ppb
Calcium	43-1	531.38	545.73	531.30	536.14	1.55	ppb
Calcium	44-1	539.35	543.79	541.61	541.58	0.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.21	2.13	2.04	2.13	4.15	ppb
Cobalt	59-2	1.06	1.10	1.07	1.08	2.07	ppb
Copper	63-2	1.99	2.09	1.98	2.02	2.88	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				97		%
Holmium	165-2				98		%
Indium	115-1				95		%
Indium	115-2				97		%
Iron	56-2	58.84	60.17	59.00	59.34	1.23	ppb
Iron	57-2	58.88	58.26	58.75	58.63	0.56	ppb
Iron	54-2	59.30	60.35	61.79	60.48	2.07	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.96	1.00	0.99	0.98	2.09	ppb
Lead	207-1	0.95	0.96	0.99	0.97	2.25	ppb
Lead	208-1	0.96	0.98	0.96	0.97	0.91	ppb
Lithium	6-1				96		%
Magnesium	24-2	505.02	510.92	497.99	504.64	1.28	ppb
Manganese	55-2	0.96	1.05	1.02	1.01	4.41	ppb
Molybdenum	94-1	6.24	6.20	6.29	6.24	0.76	ppb
Molybdenum	95-1	5.28	5.27	5.15	5.23	1.34	ppb
Molybdenum	96-1	5.23	5.23	5.23	5.23	0.06	ppb
Molybdenum	97-1	5.16	5.13	5.27	5.19	1.42	ppb
Molybdenum	98-1	5.25	5.26	5.26	5.25	0.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.98	1.04	0.93	0.98	5.36	ppb
Phosphorus	31-2	0.84	15.53	24.22	13.53	87.33	ppb
Potassium	39-2	521.84	534.10	523.66	526.54	1.26	ppb
Rhodium	103-1				94		%
Rhodium	103-2				97		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	5.60	5.78	6.09	5.82	4.20	ppb
Selenium	77-2	3.78	5.44	3.96	4.39	20.74	ppb
Selenium	78-2	7.52	6.24	4.41	6.06	25.83	ppb
Silicon	28-1	3.68	3.97	5.44	4.36	21.69	ppb
Silver	107-1	1.07	1.10	1.04	1.07	2.88	ppb
Silver	109-1	1.07	1.10	1.04	1.07	2.56	ppb
Sodium	23-2	500.88	506.39	500.71	502.66	0.64	ppb
Strontium	86-1	1.05	1.04	1.16	1.09	5.90	ppb
Strontium	88-1	1.06	1.04	1.07	1.05	1.33	ppb
Sulfur	34-1	-911.99	-885.67	-827.33	-875.00		ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.98	0.99	0.98	0.98	0.69	ppb
Thallium	205-1	0.96	0.95	0.98	0.96	1.33	ppb
Tin	118-1	5.48	5.50	5.26	5.42	2.45	ppb
Titanium	47-1	5.08	5.39	5.16	5.21	3.04	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.95	0.95	0.96	0.95	0.63	ppb
Vanadium	51-2	5.32	5.22	5.09	5.21	2.20	ppb
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	5.01	5.03	5.21	5.08	2.19	ppb
Zirconium	90-1	1.08	1.00	1.10	1.06	4.60	ppb
Zirconium	91-1	1.10	1.01	1.05	1.05	4.18	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.62	0.15	0.23	0.33	75.99	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	5.29	ppb
Arsenic	75-2	-0.07	-0.02	-0.03	-0.04		ppb
Barium	135-1	-0.01	-0.01	0.03	0.00	697.48	ppb
Barium	137-1	0.01	0.01	0.01	0.01	18.13	ppb
Beryllium	9-1	-0.05	0.00	-0.01	-0.02		ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.09	-0.04	-0.09	-0.07		ppb
Cadmium	106-1	-0.01	-0.01	-0.35	-0.13		ppb
Cadmium	111-1	0.01	0.00	-0.04	-0.01		ppb
Calcium	43-1	-0.91	1.62	1.26	0.66	208.03	ppb
Calcium	44-1	4.86	5.68	4.87	5.14	9.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.03	-0.01	0.01	217.99	ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	50.53	ppb
Copper	63-2	-0.04	0.01	-0.04	-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				97		%
Holmium	165-2				97		%
Indium	115-1				96		%
Indium	115-2				96		%
Iron	56-2	0.90	0.37	0.44	0.57	50.67	ppb
Iron	57-2	0.93	2.71	1.81	1.82	48.97	ppb
Iron	54-2	1.26	0.55	0.47	0.76	56.59	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.06	0.05	0.04	0.05	26.45	ppb
Lead	207-1	0.04	0.04	0.07	0.05	35.05	ppb
Lead	208-1	0.05	0.05	0.05	0.05	4.48	ppb
Lithium	6-1				95		%
Magnesium	24-2	0.88	0.66	0.83	0.79	14.64	ppb
Manganese	55-2	0.02	0.07	0.01	0.03	87.04	ppb
Molybdenum	94-1	0.05	0.03	0.03	0.04	24.05	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	18.69	ppb
Molybdenum	96-1	0.02	0.03	0.02	0.03	18.38	ppb
Molybdenum	97-1	0.02	0.01	0.03	0.02	63.91	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	11.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.05	0.03	-0.01		ppb
Phosphorus	31-2	-118.78	-126.34	-124.12	-123.08		ppb
Potassium	39-2	8.33	5.26	5.90	6.50	24.93	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				95		%
Selenium	82-1	-0.12	0.49	-0.44	-0.03		ppb
Selenium	77-2	-0.12	-0.12	-0.12	-0.12		ppb
Selenium	78-2	0.04	-0.98	0.77	-0.06		ppb
Silicon	28-1	3.13	1.72	2.72	2.52	28.78	ppb
Silver	107-1	0.00	0.00	0.00	0.00	40.04	ppb
Silver	109-1	0.00	0.00	0.00	0.00	54.22	ppb
Sodium	23-2	9.39	10.05	9.38	9.61	3.99	ppb
Strontium	86-1	0.07	0.02	0.02	0.04	68.41	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	69.10	ppb
Sulfur	34-1	-940.75	-998.34	-961.02	-966.70		ppb
Terbium	159-1				96		%
Terbium	159-2				96		%
Thallium	203-1	0.02	0.02	0.01	0.02	23.38	ppb
Thallium	205-1	-0.01	0.00	0.01	0.00	589.78	ppb
Tin	118-1	0.04	0.04	0.03	0.04	25.34	ppb
Titanium	47-1	0.00	0.04	0.02	0.02	103.03	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	210.38	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-1				96		%
Yttrium	89-2				96		%
Zinc	66-2	0.24	0.18	0.29	0.24	24.47	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	89.32	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90557.40	91029.89	90370.44	90652.57	0.37	ppb
Antimony	121-1	1.35	1.32	1.33	1.33	1.14	ppb
Arsenic	75-2	0.66	0.43	0.47	0.52	23.67	ppb
Barium	135-1	1.40	1.57	1.45	1.47	5.76	ppb
Barium	137-1	1.54	1.46	1.48	1.49	2.70	ppb
Beryllium	9-1	0.37	0.22	0.25	0.28	28.14	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.43	6.84	7.29	7.52	10.88	ppb
Cadmium	106-1	-0.65	-1.03	-0.99	-0.89		ppb
Cadmium	111-1	0.13	0.18	0.19	0.17	19.99	ppb
Calcium	43-1	101567.79	101510.80	99532.41	100870.33	1.15	ppb
Calcium	44-1	101760.55	101566.83	100383.64	101237.01	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.49	20.88	20.31	20.56	1.41	ppb
Cobalt	59-2	1.32	1.31	1.24	1.29	3.07	ppb
Copper	63-2	10.42	10.74	10.81	10.65	1.96	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				100		%
Holmium	165-2				99		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	56-2	108412.73	110180.06	107488.97	108693.92	1.26	ppb
Iron	57-2	108090.93	107095.92	108159.00	107781.95	0.55	ppb
Iron	54-2	108522.03	108093.26	108582.10	108399.13	0.25	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.86	4.93	4.88	4.89	0.79	ppb
Lead	207-1	4.26	4.19	4.40	4.29	2.51	ppb
Lead	208-1	4.48	4.44	4.48	4.47	0.52	ppb
Lithium	6-1				94		%
Magnesium	24-2	91966.21	92718.48	94242.46	92975.72	1.25	ppb
Manganese	55-2	7.10	7.50	7.37	7.32	2.76	ppb
Molybdenum	94-1	1639.30	1627.64	1638.59	1635.17	0.40	ppb
Molybdenum	95-1	2018.09	2009.02	2041.77	2022.96	0.84	ppb
Molybdenum	96-1	1982.44	1920.35	2011.25	1971.35	2.36	ppb
Molybdenum	97-1	2014.25	1982.08	2015.61	2003.98	0.95	ppb
Molybdenum	98-1	2024.62	2011.74	2022.60	2019.65	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.68	5.85	6.33	5.95	5.67	ppb
Phosphorus	31-2	100803.32	101623.70	101453.02	101293.35	0.43	ppb
Potassium	39-2	98798.16	99003.62	99650.32	99150.70	0.45	ppb
Rhodium	103-1				91		%
Rhodium	103-2				94		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	0.26	0.56	0.91	0.58	55.97	ppb
Selenium	77-2	-0.12	0.45	0.07	0.13	217.94	ppb
Selenium	78-2	-0.05	-1.33	1.14	-0.08		ppb
Silicon	28-1	3.64	3.89	5.20	4.24	19.72	ppb
Silver	107-1	0.03	0.03	0.04	0.03	5.52	ppb
Silver	109-1	0.03	0.03	0.04	0.04	22.29	ppb
Sodium	23-2	99032.42	98935.29	99376.12	99114.61	0.23	ppb
Strontium	86-1	35.25	34.39	35.61	35.08	1.78	ppb
Strontium	88-1	35.27	35.19	35.57	35.34	0.56	ppb
Sulfur	34-1	106734.70	106470.33	105504.34	106236.46	0.61	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	0.09	0.11	0.15	0.12	26.79	ppb
Thallium	205-1	0.10	0.11	0.15	0.12	21.43	ppb
Tin	118-1	0.21	0.23	0.24	0.23	6.52	ppb
Titanium	47-1	2035.63	2026.06	2043.90	2035.19	0.44	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	15.58	ppb
Vanadium	51-2	0.22	0.20	0.24	0.22	9.60	ppb
Yttrium	89-1				96		%
Yttrium	89-2				96		%
Zinc	66-2	13.49	13.73	13.12	13.45	2.30	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	27.09	ppb
Zirconium	91-1	0.01	0.01	0.03	0.01	72.08	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92427.46	91718.97	91988.59	92045.01	0.39	ppb
Antimony	121-1	21.51	21.64	21.58	21.58	0.28	ppb
Arsenic	75-2	20.55	20.85	20.73	20.71	0.73	ppb
Barium	135-1	21.30	21.63	21.56	21.49	0.82	ppb
Barium	137-1	21.24	21.80	21.26	21.43	1.48	ppb
Beryllium	9-1	21.16	20.93	21.19	21.10	0.66	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	29.34	28.47	28.83	28.88	1.51	ppb
Cadmium	106-1	23.42	24.52	24.57	24.17	2.68	ppb
Cadmium	111-1	20.82	21.21	21.19	21.08	1.04	ppb
Calcium	43-1	104469.77	103180.45	101759.00	103136.41	1.31	ppb
Calcium	44-1	100557.47	102748.70	101067.57	101457.91	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41.58	41.50	41.10	41.39	0.62	ppb
Cobalt	59-2	22.01	21.66	21.81	21.82	0.80	ppb
Copper	63-2	28.78	29.05	28.85	28.89	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				102		%
Holmium	165-2				101		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	56-2	109462.70	111404.86	110619.30	110495.62	0.88	ppb
Iron	57-2	109789.57	107363.84	108438.63	108530.68	1.12	ppb
Iron	54-2	109087.36	109036.31	109813.25	109312.30	0.40	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.65	25.43	24.94	25.01	1.59	ppb
Lead	207-1	22.95	24.09	23.55	23.53	2.43	ppb
Lead	208-1	23.62	24.27	23.90	23.93	1.37	ppb
Lithium	6-1				95		%
Magnesium	24-2	93757.18	93652.11	92754.00	93387.76	0.59	ppb
Manganese	55-2	25.66	25.69	25.30	25.55	0.84	ppb
Molybdenum	94-1	1795.10	1843.98	1771.37	1803.49	2.05	ppb
Molybdenum	95-1	2080.01	2104.48	2059.11	2081.20	1.09	ppb
Molybdenum	96-1	2052.11	2056.26	2040.28	2049.55	0.40	ppb
Molybdenum	97-1	2104.59	2138.48	2057.44	2100.17	1.94	ppb
Molybdenum	98-1	2074.17	2133.55	2034.72	2080.81	2.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.87	26.47	25.78	26.04	1.44	ppb
Phosphorus	31-2	102015.22	102957.11	101476.34	102149.55	0.73	ppb
Potassium	39-2	99834.51	98823.67	98210.83	98956.33	0.83	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				95		%
Scandium	45-2				96		%
Selenium	82-1	21.29	21.53	20.62	21.15	2.23	ppb
Selenium	77-2	21.81	21.41	20.10	21.11	4.23	ppb
Selenium	78-2	19.60	18.70	20.39	19.56	4.32	ppb
Silicon	28-1	20.31	19.90	19.95	20.06	1.12	ppb
Silver	107-1	19.25	19.39	19.51	19.38	0.67	ppb
Silver	109-1	19.12	19.38	19.09	19.20	0.82	ppb
Sodium	23-2	100602.11	100374.34	99547.63	100174.69	0.55	ppb
Strontium	86-1	99.45	100.07	99.52	99.68	0.34	ppb
Strontium	88-1	100.12	101.83	99.94	100.63	1.04	ppb
Sulfur	34-1	109582.46	108232.73	108786.07	108867.09	0.62	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	19.83	20.44	20.00	20.09	1.57	ppb
Thallium	205-1	19.46	20.25	19.78	19.83	2.00	ppb
Tin	118-1	64.05	64.66	64.11	64.27	0.52	ppb
Titanium	47-1	2129.66	2120.22	2099.69	2116.52	0.72	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	60.89	63.20	62.27	62.12	1.87	ppb
Vanadium	51-2	20.31	20.34	20.23	20.29	0.29	ppb
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	29.26	29.53	28.99	29.26	0.93	ppb
Zirconium	90-1	62.89	63.89	62.96	63.25	0.88	ppb
Zirconium	91-1	63.63	64.17	63.40	63.73	0.63	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48052.16	47399.67	47259.98	47570.60	0.89	ppb
Antimony	121-1	488.33	517.16	502.26	502.58	2.87	ppb
Arsenic	75-2	508.10	511.37	493.91	504.46	1.84	ppb
Barium	135-1	2440.02	2600.16	2553.31	2531.16	3.25	ppb
Barium	137-1	2478.13	2609.92	2539.12	2542.39	2.59	ppb
Beryllium	9-1	499.52	510.32	507.76	505.87	1.12	ppb
Bismuth	209-1				94		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	472.20	510.74	489.46	490.80	3.93	ppb
Cadmium	106-1	472.70	495.17	494.35	487.41	2.61	ppb
Cadmium	111-1	468.58	500.08	494.44	487.70	3.44	ppb
Calcium	43-1	248551.86	247757.01	254302.61	250203.83	1.43	ppb
Calcium	44-1	245081.10	247858.43	252674.43	248537.99	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	503.37	519.03	495.61	506.00	2.36	ppb
Cobalt	59-2	507.05	499.02	494.75	500.27	1.25	ppb
Copper	63-2	4975.34	4982.79	4876.51	4944.88	1.20	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				97		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	56-2	135062.92	131183.02	131099.49	132448.48	1.71	ppb
Iron	57-2	129968.57	131496.33	130100.24	130521.72	0.65	ppb
Iron	54-2	133053.22	132016.68	127850.64	130973.51	2.10	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2509.08	2531.01	2630.85	2556.98	2.54	ppb
Lead	207-1	2529.87	2545.06	2638.94	2571.29	2.30	ppb
Lead	208-1	2535.95	2553.56	2601.56	2563.69	1.32	ppb
Lithium	6-1				95		%
Magnesium	24-2	247667.13	248137.96	245523.71	247109.60	0.56	ppb
Manganese	55-2	5018.12	4944.69	4943.06	4968.62	0.86	ppb
Molybdenum	94-1	4992.08	5079.65	5103.16	5058.30	1.16	ppb
Molybdenum	95-1	4994.27	5025.87	5124.07	5048.07	1.34	ppb
Molybdenum	96-1	4984.50	5128.14	5060.28	5057.64	1.42	ppb
Molybdenum	97-1	5036.60	5077.86	5060.11	5058.19	0.41	ppb
Molybdenum	98-1	5117.06	5057.39	5211.91	5128.79	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	497.48	489.92	483.67	490.35	1.41	ppb
Phosphorus	31-2	10065.39	10118.45	9880.47	10021.44	1.25	ppb
Potassium	39-2	125484.50	124296.36	123991.65	124590.84	0.63	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	485.38	486.52	492.29	488.06	0.76	ppb
Selenium	77-2	503.39	505.35	467.87	492.20	4.29	ppb
Selenium	78-2	481.89	500.45	486.60	489.65	1.97	ppb
Silicon	28-1	462.71	478.40	481.69	474.27	2.14	ppb
Silver	107-1	502.12	525.42	513.78	513.77	2.27	ppb
Silver	109-1	484.18	524.89	517.54	508.87	4.26	ppb
Sodium	23-2	247380.50	243525.36	240618.86	243841.57	1.39	ppb
Strontium	86-1	496.90	503.76	508.38	503.01	1.15	ppb
Strontium	88-1	510.25	511.60	518.67	513.51	0.88	ppb
Sulfur	34-1	9762.76	10098.53	10427.00	10096.10	3.29	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	515.70	518.12	526.85	520.22	1.13	ppb
Thallium	205-1	505.54	506.93	520.43	510.97	1.61	ppb
Tin	118-1	492.43	523.38	502.28	506.03	3.12	ppb
Titanium	47-1	5016.61	5103.03	5234.26	5117.96	2.14	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	517.30	521.31	529.97	522.86	1.24	ppb
Vanadium	51-2	510.97	507.50	499.65	506.04	1.15	ppb
Yttrium	89-1				97		%
Yttrium	89-2				96		%
Zinc	66-2	4755.03	4808.24	4711.77	4758.35	1.02	ppb
Zirconium	90-1	508.47	510.02	511.79	510.09	0.33	ppb
Zirconium	91-1	506.67	505.77	514.39	508.95	0.93	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.14	1.21	1.66	1.34	21.01	ppb
Antimony	121-1	0.08	0.07	0.09	0.08	12.64	ppb
Arsenic	75-2	0.01	0.08	0.08	0.06	73.45	ppb
Barium	135-1	0.01	0.03	0.02	0.02	44.61	ppb
Barium	137-1	0.02	0.02	0.02	0.02	14.50	ppb
Beryllium	9-1	0.01	-0.02	-0.02	-0.01		ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	-0.12	-0.09	-0.07		ppb
Cadmium	106-1	-0.76	-0.38	-0.03	-0.39		ppb
Cadmium	111-1	-0.04	-0.02	-0.01	-0.02		ppb
Calcium	43-1	5.22	3.27	-0.36	2.71	104.69	ppb
Calcium	44-1	4.73	4.69	4.28	4.56	5.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.00	0.03	0.01	191.67	ppb
Cobalt	59-2	0.00	0.01	0.01	0.00	148.84	ppb
Copper	63-2	0.61	0.60	0.61	0.61	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				98		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	56-2	1.63	1.59	1.73	1.65	4.30	ppb
Iron	57-2	0.80	2.19	2.32	1.77	47.57	ppb
Iron	54-2	1.44	2.29	3.59	2.44	44.29	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.06	0.06	0.05	12.38	ppb
Lead	207-1	0.04	0.03	0.04	0.03	13.94	ppb
Lead	208-1	0.04	0.04	0.05	0.04	8.99	ppb
Lithium	6-1				96		%
Magnesium	24-2	2.00	2.05	2.27	2.11	6.67	ppb
Manganese	55-2	0.09	0.18	0.13	0.13	35.90	ppb
Molybdenum	94-1	0.11	0.10	0.08	0.10	14.24	ppb
Molybdenum	95-1	0.11	0.08	0.10	0.10	11.68	ppb
Molybdenum	96-1	0.10	0.13	0.08	0.10	23.13	ppb
Molybdenum	97-1	0.12	0.08	0.09	0.10	22.57	ppb
Molybdenum	98-1	0.11	0.10	0.08	0.10	18.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.03	0.04	0.02	118.34	ppb
Phosphorus	31-2	-121.81	-124.18	-130.49	-125.49		ppb
Potassium	39-2	20.66	19.30	20.34	20.10	3.54	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	0.42	0.41	0.47	0.43	7.71	ppb
Selenium	77-2	0.63	0.81	0.06	0.50	77.51	ppb
Selenium	78-2	2.08	-0.41	-0.22	0.49	285.02	ppb
Silicon	28-1	-0.62	3.70	6.00	3.03	111.20	ppb
Silver	107-1	0.01	0.01	0.02	0.02	23.26	ppb
Silver	109-1	0.01	0.01	0.01	0.01	7.29	ppb
Sodium	23-2	20.65	20.77	21.06	20.82	1.02	ppb
Strontium	86-1	0.01	0.02	0.05	0.03	85.69	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	4.68	ppb
Sulfur	34-1	-988.82	-727.10	-754.14	-823.35		ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.06	0.06	0.07	0.06	3.53	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	2.87	ppb
Tin	118-1	0.05	0.05	0.06	0.05	15.92	ppb
Titanium	47-1	0.02	0.07	0.01	0.03	87.20	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.01	0.00	0.00	70.70	ppb
Vanadium	51-2	0.01	0.01	0.00	0.01	130.39	ppb
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	0.26	0.19	0.19	0.21	19.87	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	37.89	ppb
Zirconium	91-1	0.02	0.02	0.03	0.02	34.29	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.22	20.09	19.58	19.96	1.69	ppb
Antimony	121-1	2.13	2.08	2.11	2.11	1.16	ppb
Arsenic	75-2	1.26	0.95	1.32	1.18	17.26	ppb
Barium	135-1	9.80	9.79	9.96	9.85	0.93	ppb
Barium	137-1	9.71	10.12	10.28	10.04	2.92	ppb
Beryllium	9-1	1.05	1.14	1.12	1.11	4.47	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.89	1.01	0.73	0.88	16.27	ppb
Cadmium	106-1	0.45	1.08	0.92	0.82	40.29	ppb
Cadmium	111-1	0.98	1.08	1.08	1.05	5.21	ppb
Calcium	43-1	490.97	534.14	533.24	519.45	4.75	ppb
Calcium	44-1	513.97	523.63	543.17	526.92	2.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.14	2.14	2.09	2.12	1.34	ppb
Cobalt	59-2	1.10	1.06	1.15	1.11	4.00	ppb
Copper	63-2	2.49	2.43	2.43	2.45	1.46	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				100		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	59.94	57.83	58.95	58.91	1.79	ppb
Iron	57-2	60.04	62.99	57.15	60.06	4.86	ppb
Iron	54-2	60.03	58.91	58.28	59.07	1.50	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.89	0.95	0.94	0.93	3.09	ppb
Lead	207-1	0.89	1.00	0.86	0.92	7.54	ppb
Lead	208-1	0.88	0.92	0.90	0.90	2.57	ppb
Lithium	6-1				98		%
Magnesium	24-2	501.19	488.79	493.76	494.58	1.26	ppb
Manganese	55-2	1.07	1.01	1.02	1.03	3.23	ppb
Molybdenum	94-1	5.88	6.25	6.05	6.06	3.11	ppb
Molybdenum	95-1	4.95	5.19	4.98	5.04	2.55	ppb
Molybdenum	96-1	4.82	5.25	4.92	5.00	4.57	ppb
Molybdenum	97-1	4.82	5.15	4.90	4.96	3.46	ppb
Molybdenum	98-1	4.95	5.28	4.98	5.07	3.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.91	1.02	0.78	0.91	13.55	ppb
Phosphorus	31-2	11.46	-2.76	6.48	5.06	142.67	ppb
Potassium	39-2	535.64	524.90	531.09	530.54	1.02	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	5.21	5.34	5.52	5.36	2.86	ppb
Selenium	77-2	6.58	5.44	5.36	5.79	11.77	ppb
Selenium	78-2	5.48	5.86	6.21	5.85	6.26	ppb
Silicon	28-1	0.57	-1.95	3.65	0.76	370.77	ppb
Silver	107-1	1.06	1.07	1.06	1.06	0.46	ppb
Silver	109-1	1.03	1.05	1.08	1.05	2.12	ppb
Sodium	23-2	509.18	493.53	493.49	498.73	1.81	ppb
Strontium	86-1	0.98	0.98	1.00	0.99	1.03	ppb
Strontium	88-1	0.99	1.07	1.06	1.04	3.72	ppb
Sulfur	34-1	-694.67	-696.43	-589.43	-660.18		ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.96	1.00	0.98	0.98	1.72	ppb
Thallium	205-1	1.00	1.01	0.98	1.00	1.73	ppb
Tin	118-1	5.18	5.23	5.29	5.23	1.01	ppb
Titanium	47-1	4.61	5.10	5.19	4.97	6.30	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.95	0.92	0.93	2.37	ppb
Vanadium	51-2	5.18	5.15	5.02	5.12	1.64	ppb
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	5.24	4.96	5.01	5.07	2.91	ppb
Zirconium	90-1	1.01	1.02	0.99	1.01	1.80	ppb
Zirconium	91-1	0.91	1.01	1.04	0.99	6.57	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	674.44	662.91	667.79	668.38	0.87	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	0.09	ppb
Arsenic	75-2	0.53	0.43	0.56	0.51	12.79	ppb
Barium	135-1	13.18	12.76	12.95	12.97	1.63	ppb
Barium	137-1	12.92	13.01	13.07	13.00	0.57	ppb
Beryllium	9-1	0.21	0.29	0.25	0.25	17.63	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	-0.07	-0.04	-0.04		ppb
Cadmium	106-1	0.44	-0.33	0.53	0.21	223.38	ppb
Cadmium	111-1	0.06	-0.01	0.06	0.03	124.15	ppb
Calcium	43-1	966.20	948.48	937.36	950.68	1.53	ppb
Calcium	44-1	943.98	951.15	931.88	942.34	1.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.55	5.55	5.73	5.61	1.83	ppb
Cobalt	59-2	0.99	0.99	0.93	0.97	3.18	ppb
Copper	63-2	4.68	4.48	4.66	4.61	2.37	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				103		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	1446.58	1450.06	1418.82	1438.49	1.19	ppb
Iron	57-2	1454.34	1433.98	1429.34	1439.22	0.92	ppb
Iron	54-2	1465.31	1446.43	1445.81	1452.52	0.76	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.91	1.95	1.95	1.93	1.32	ppb
Lead	207-1	1.61	1.82	1.76	1.73	6.19	ppb
Lead	208-1	1.78	1.84	1.81	1.81	1.92	ppb
Lithium	6-1				98		%
Magnesium	24-2	201.53	200.22	202.12	201.29	0.48	ppb
Manganese	55-2	18.65	18.70	18.56	18.64	0.37	ppb
Molybdenum	94-1	2.34	2.22	2.15	2.24	4.30	ppb
Molybdenum	95-1	1.14	1.11	1.10	1.12	1.80	ppb
Molybdenum	96-1	1.28	1.21	1.26	1.25	2.95	ppb
Molybdenum	97-1	1.18	1.13	1.12	1.15	2.71	ppb
Molybdenum	98-1	1.12	1.14	1.16	1.14	1.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.36	2.31	2.29	2.32	1.49	ppb
Phosphorus	31-2	-84.65	-88.81	-73.05	-82.17		ppb
Potassium	39-2	348.20	347.69	350.34	348.74	0.40	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	0.27	-0.04	0.64	0.29	118.18	ppb
Selenium	77-2	2.87	3.08	2.30	2.75	14.56	ppb
Selenium	78-2	-0.94	-1.06	-2.30	-1.43		ppb
Silicon	28-1	534.45	533.75	524.16	530.79	1.08	ppb
Silver	107-1	0.02	0.01	0.02	0.01	23.16	ppb
Silver	109-1	0.01	0.01	0.02	0.01	15.43	ppb
Sodium	23-2	3119.85	3094.56	3140.02	3118.14	0.73	ppb
Strontium	86-1	11.94	11.66	11.26	11.62	2.95	ppb
Strontium	88-1	11.91	11.54	11.55	11.66	1.81	ppb
Sulfur	34-1	123.60	104.08	-0.20	75.83	87.78	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.05	0.04	0.06	0.05	16.71	ppb
Thallium	205-1	0.05	0.05	0.04	0.05	10.26	ppb
Tin	118-1	0.15	0.15	0.17	0.16	7.89	ppb
Titanium	47-1	11.49	11.12	10.85	11.15	2.91	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.80	0.84	0.82	0.82	2.34	ppb
Vanadium	51-2	19.83	19.53	19.38	19.58	1.17	ppb
Yttrium	89-1				103		%
Yttrium	89-2				104		%
Zinc	66-2	6.33	6.05	5.86	6.08	3.96	ppb
Zirconium	90-1	0.67	0.65	0.68	0.67	2.74	ppb
Zirconium	91-1	0.63	0.72	0.67	0.67	6.56	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	777.10	778.74	768.90	774.91	0.68	ppb
Antimony	121-1	0.05	0.06	0.06	0.06	18.24	ppb
Arsenic	75-2	0.53	0.57	0.51	0.54	6.00	ppb
Barium	135-1	11.43	13.62	13.85	12.97	10.33	ppb
Barium	137-1	11.39	13.61	14.03	13.01	10.89	ppb
Beryllium	9-1	0.25	0.29	0.24	0.26	10.68	ppb
Bismuth	209-1				109		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	0.07	-0.05	0.01	895.87	ppb
Cadmium	106-1	0.76	-0.69	-0.01	0.02	3791.99	ppb
Cadmium	111-1	0.04	-0.05	0.00	0.00		ppb
Calcium	43-1	798.75	973.61	974.67	915.68	11.06	ppb
Calcium	44-1	798.44	978.99	976.37	917.93	11.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.51	6.56	6.26	6.44	2.46	ppb
Cobalt	59-2	1.06	1.05	1.00	1.04	3.20	ppb
Copper	63-2	4.72	4.77	4.63	4.71	1.42	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				109		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				103		%
Iron	56-2	1599.67	1605.61	1609.83	1605.03	0.32	ppb
Iron	57-2	1617.51	1635.70	1620.64	1624.62	0.60	ppb
Iron	54-2	1660.31	1656.54	1633.85	1650.23	0.87	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.60	2.15	2.08	1.94	15.35	ppb
Lead	207-1	1.45	1.88	1.84	1.72	13.67	ppb
Lead	208-1	1.52	1.95	1.89	1.79	13.15	ppb
Lithium	6-1				107		%
Magnesium	24-2	215.20	218.66	211.54	215.13	1.66	ppb
Manganese	55-2	19.44	19.81	19.49	19.58	1.04	ppb
Molybdenum	94-1	1.83	2.21	2.28	2.11	11.64	ppb
Molybdenum	95-1	0.77	0.84	0.89	0.83	6.80	ppb
Molybdenum	96-1	0.88	1.03	1.08	1.00	10.42	ppb
Molybdenum	97-1	0.75	0.86	0.93	0.85	10.74	ppb
Molybdenum	98-1	0.79	0.88	0.95	0.88	9.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.46	2.52	2.54	2.50	1.72	ppb
Phosphorus	31-2	-78.02	-78.42	-80.55	-79.00		ppb
Potassium	39-2	360.90	361.89	355.05	359.28	1.03	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	0.54	0.65	0.15	0.45	58.97	ppb
Selenium	77-2	3.73	4.45	3.16	3.78	17.11	ppb
Selenium	78-2	0.21	-0.76	-0.43	-0.33		ppb
Silicon	28-1	448.41	576.12	555.33	526.62	13.01	ppb
Silver	107-1	0.01	0.01	0.01	0.01	21.97	ppb
Silver	109-1	0.01	0.01	0.01	0.01	29.99	ppb
Sodium	23-2	3286.64	3314.00	3150.53	3250.39	2.69	ppb
Strontium	86-1	10.28	11.93	12.57	11.59	10.19	ppb
Strontium	88-1	10.22	12.08	12.72	11.68	11.11	ppb
Sulfur	34-1	-921.98	-336.57	-391.89	-550.15		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.04	0.05	0.04	16.85	ppb
Thallium	205-1	0.03	0.05	0.04	0.04	22.92	ppb
Tin	118-1	0.13	0.14	0.17	0.15	16.71	ppb
Titanium	47-1	10.46	12.52	12.98	11.99	11.19	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.72	0.84	0.84	0.80	9.09	ppb
Vanadium	51-2	21.32	21.40	20.93	21.22	1.20	ppb
Yttrium	89-1				111		%
Yttrium	89-2				107		%
Zinc	66-2	6.24	6.49	6.13	6.29	2.92	ppb
Zirconium	90-1	0.63	0.74	0.77	0.71	10.63	ppb
Zirconium	91-1	0.62	0.72	0.81	0.72	13.16	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	141.77	140.70	138.13	140.20	1.33	ppb
Antimony	121-1	0.01	0.02	0.01	0.01	15.08	ppb
Arsenic	75-2	0.26	0.11	0.11	0.16	53.66	ppb
Barium	135-1	2.73	2.54	2.52	2.59	4.40	ppb
Barium	137-1	2.67	2.58	2.66	2.63	1.84	ppb
Beryllium	9-1	0.01	0.06	0.01	0.02	125.34	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.01	-0.04	0.00		ppb
Cadmium	106-1	0.18	-1.06	0.22	-0.22		ppb
Cadmium	111-1	0.00	-0.10	0.02	-0.03		ppb
Calcium	43-1	183.95	195.01	183.92	187.63	3.41	ppb
Calcium	44-1	191.43	194.10	191.66	192.40	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.16	1.18	1.11	1.15	3.12	ppb
Cobalt	59-2	0.19	0.21	0.17	0.19	10.57	ppb
Copper	63-2	1.18	1.11	1.13	1.14	3.37	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				98		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	56-2	301.35	303.42	299.51	301.43	0.65	ppb
Iron	57-2	293.33	307.37	301.55	300.75	2.35	ppb
Iron	54-2	307.04	301.04	298.93	302.34	1.39	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.40	0.38	0.39	0.39	2.24	ppb
Lead	207-1	0.39	0.36	0.35	0.36	6.60	ppb
Lead	208-1	0.38	0.35	0.37	0.37	4.36	ppb
Lithium	6-1				94		%
Magnesium	24-2	40.60	42.05	42.05	41.57	2.02	ppb
Manganese	55-2	3.90	3.86	3.80	3.85	1.19	ppb
Molybdenum	94-1	0.41	0.44	0.47	0.44	6.18	ppb
Molybdenum	95-1	0.21	0.18	0.24	0.21	15.12	ppb
Molybdenum	96-1	0.21	0.26	0.25	0.24	10.24	ppb
Molybdenum	97-1	0.21	0.23	0.22	0.22	3.24	ppb
Molybdenum	98-1	0.21	0.23	0.20	0.21	8.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.48	0.56	0.45	0.49	11.09	ppb
Phosphorus	31-2	-123.48	-119.02	-112.03	-118.18		ppb
Potassium	39-2	82.45	80.87	77.99	80.44	2.81	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				96		%
Selenium	82-1	0.33	0.25	0.19	0.26	26.74	ppb
Selenium	77-2	0.43	0.43	0.63	0.50	23.30	ppb
Selenium	78-2	-1.45	0.67	2.14	0.45	396.93	ppb
Silicon	28-1	114.00	109.88	111.28	111.72	1.87	ppb
Silver	107-1	0.00	0.00	0.01	0.00	45.67	ppb
Silver	109-1	0.00	0.00	0.00	0.00	19.40	ppb
Sodium	23-2	595.70	598.97	596.04	596.90	0.30	ppb
Strontium	86-1	2.46	2.25	2.36	2.36	4.53	ppb
Strontium	88-1	2.43	2.43	2.36	2.41	1.61	ppb
Sulfur	34-1	-943.45	-900.31	-965.23	-936.33		ppb
Terbium	159-1				97		%
Terbium	159-2				97		%
Thallium	203-1	0.02	0.03	0.02	0.02	25.17	ppb
Thallium	205-1	0.01	0.01	0.02	0.01	21.71	ppb
Tin	118-1	0.04	0.04	0.04	0.04	10.97	ppb
Titanium	47-1	2.32	2.27	2.44	2.34	3.83	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.16	0.16	0.16	0.16	1.59	ppb
Vanadium	51-2	3.94	3.97	3.97	3.96	0.50	ppb
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	1.25	1.25	1.22	1.24	1.46	ppb
Zirconium	90-1	0.16	0.15	0.14	0.15	6.06	ppb
Zirconium	91-1	0.16	0.16	0.16	0.16	1.29	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2428.81	2430.87	2397.99	2419.22	0.76	ppb
Antimony	121-1	97.97	99.49	98.17	98.54	0.84	ppb
Arsenic	75-2	0.47	0.56	0.62	0.55	13.35	ppb
Barium	135-1	433.26	435.18	433.00	433.81	0.27	ppb
Barium	137-1	438.64	441.28	439.51	439.81	0.31	ppb
Beryllium	9-1	97.30	96.18	97.95	97.14	0.92	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	100.43	100.93	98.94	100.10	1.04	ppb
Cadmium	106-1	99.90	98.84	98.37	99.04	0.79	ppb
Cadmium	111-1	99.23	100.02	99.32	99.52	0.43	ppb
Calcium	43-1	10660.07	10837.00	10838.33	10778.47	0.95	ppb
Calcium	44-1	10111.42	10395.52	10343.54	10283.50	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	98.17	99.55	98.67	98.80	0.70	ppb
Cobalt	59-2	95.34	95.47	94.55	95.12	0.53	ppb
Copper	63-2	882.21	900.16	867.19	883.19	1.87	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				95		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	56-2	6067.35	6101.72	6062.61	6077.23	0.35	ppb
Iron	57-2	6237.06	6311.43	6307.96	6285.48	0.67	ppb
Iron	54-2	6393.42	6434.54	6339.13	6389.03	0.75	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	477.69	471.72	457.40	468.94	2.22	ppb
Lead	207-1	480.92	475.14	468.30	474.79	1.33	ppb
Lead	208-1	478.69	475.07	468.35	474.04	1.11	ppb
Lithium	6-1				95		%
Magnesium	24-2	9308.41	9132.60	9282.81	9241.27	1.03	ppb
Manganese	55-2	862.67	877.91	891.25	877.28	1.63	ppb
Molybdenum	94-1	907.08	929.90	937.29	924.75	1.70	ppb
Molybdenum	95-1	909.88	943.06	940.41	931.12	1.98	ppb
Molybdenum	96-1	899.67	923.30	911.10	911.36	1.30	ppb
Molybdenum	97-1	897.53	915.64	921.52	911.56	1.37	ppb
Molybdenum	98-1	917.46	942.87	950.41	936.91	1.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	95.75	97.31	96.00	96.35	0.87	ppb
Phosphorus	31-2	-79.53	-82.17	-79.96	-80.55		ppb
Potassium	39-2	4561.10	4589.20	4549.57	4566.63	0.45	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	97.39	100.61	99.16	99.05	1.62	ppb
Selenium	77-2	106.17	102.72	96.63	101.84	4.74	ppb
Selenium	78-2	97.55	95.82	97.58	96.98	1.04	ppb
Silicon	28-1	550.54	562.94	545.87	553.12	1.60	ppb
Silver	107-1	14.40	14.64	14.46	14.50	0.86	ppb
Silver	109-1	14.32	14.43	14.24	14.33	0.65	ppb
Sodium	23-2	12033.80	12000.72	11937.26	11990.59	0.41	ppb
Strontium	86-1	124.03	125.72	124.69	124.81	0.68	ppb
Strontium	88-1	124.62	127.37	125.71	125.90	1.10	ppb
Sulfur	34-1	-27.64	179.80	157.00	103.05	110.39	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	87.26	88.33	87.31	87.63	0.69	ppb
Thallium	205-1	86.59	87.72	86.72	87.01	0.71	ppb
Tin	118-1	87.86	88.54	88.50	88.30	0.43	ppb
Titanium	47-1	583.38	602.99	587.31	591.23	1.75	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	86.38	87.70	86.04	86.71	1.01	ppb
Vanadium	51-2	116.69	115.29	115.66	115.88	0.63	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	904.93	905.98	908.74	906.55	0.22	ppb
Zirconium	90-1	90.22	93.16	92.23	91.87	1.63	ppb
Zirconium	91-1	92.85	94.10	94.00	93.65	0.74	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2415.58	2442.72	2435.14	2431.15	0.58	ppb
Antimony	121-1	101.56	99.67	101.37	100.87	1.03	ppb
Arsenic	75-2	0.68	0.58	0.71	0.65	10.02	ppb
Barium	135-1	443.32	441.36	445.50	443.39	0.47	ppb
Barium	137-1	447.57	442.68	444.16	444.80	0.56	ppb
Beryllium	9-1	98.66	101.02	98.04	99.24	1.58	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	99.14	98.17	100.67	99.33	1.27	ppb
Cadmium	106-1	102.03	97.63	99.60	99.75	2.21	ppb
Cadmium	111-1	103.36	101.82	101.36	102.18	1.03	ppb
Calcium	43-1	10879.43	10711.77	10807.82	10799.67	0.78	ppb
Calcium	44-1	10607.44	10256.30	10320.89	10394.88	1.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.28	100.96	101.42	100.56	1.12	ppb
Cobalt	59-2	94.99	96.67	96.35	96.00	0.93	ppb
Copper	63-2	891.57	883.88	901.45	892.30	0.99	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				98		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	56-2	6180.77	6164.34	6175.07	6173.40	0.14	ppb
Iron	57-2	6204.67	6330.82	6328.41	6287.97	1.15	ppb
Iron	54-2	6292.88	6388.71	6449.14	6376.91	1.24	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	472.13	489.49	474.16	478.59	1.98	ppb
Lead	207-1	469.62	493.04	478.90	480.52	2.45	ppb
Lead	208-1	469.91	484.42	475.60	476.64	1.53	ppb
Lithium	6-1				95		%
Magnesium	24-2	9297.01	9235.54	9356.63	9296.40	0.65	ppb
Manganese	55-2	881.63	885.71	880.68	882.67	0.30	ppb
Molybdenum	94-1	943.28	952.79	931.88	942.65	1.11	ppb
Molybdenum	95-1	951.10	936.22	911.87	933.07	2.12	ppb
Molybdenum	96-1	938.97	939.77	898.87	925.87	2.53	ppb
Molybdenum	97-1	941.54	932.58	915.82	929.98	1.40	ppb
Molybdenum	98-1	936.91	926.80	935.72	933.14	0.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.84	97.19	97.43	97.49	0.34	ppb
Phosphorus	31-2	-83.92	-74.58	-82.54	-80.35		ppb
Potassium	39-2	4468.07	4579.50	4530.60	4526.06	1.23	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				97		%
Selenium	82-1	99.87	102.03	102.45	101.45	1.37	ppb
Selenium	77-2	99.99	109.57	101.12	103.56	5.06	ppb
Selenium	78-2	99.95	99.69	97.93	99.19	1.11	ppb
Silicon	28-1	552.53	557.69	555.02	555.08	0.46	ppb
Silver	107-1	14.11	13.55	13.72	13.79	2.07	ppb
Silver	109-1	13.91	13.60	13.92	13.81	1.32	ppb
Sodium	23-2	12089.79	12217.67	12188.86	12165.44	0.55	ppb
Strontium	86-1	126.98	125.23	125.57	125.93	0.74	ppb
Strontium	88-1	127.37	126.85	125.44	126.55	0.79	ppb
Sulfur	34-1	137.45	103.76	166.70	135.97	23.17	ppb
Terbium	159-1				96		%
Terbium	159-2				96		%
Thallium	203-1	87.44	90.57	90.27	89.43	1.93	ppb
Thallium	205-1	86.55	89.78	89.10	88.47	1.93	ppb
Tin	118-1	90.06	90.03	89.63	89.91	0.27	ppb
Titanium	47-1	599.69	588.86	598.65	595.73	1.00	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	86.91	90.12	89.14	88.73	1.85	ppb
Vanadium	51-2	115.95	118.28	117.42	117.22	1.01	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	904.58	917.70	920.16	914.15	0.92	ppb
Zirconium	90-1	93.36	93.29	92.97	93.21	0.22	ppb
Zirconium	91-1	94.26	94.10	94.71	94.35	0.34	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2533.89	2566.77	2535.90	2545.52	0.72	ppb
Antimony	121-1	101.58	99.27	99.52	100.12	1.27	ppb
Arsenic	75-2	0.54	0.58	0.55	0.56	4.40	ppb
Barium	135-1	446.62	434.27	438.99	439.96	1.42	ppb
Barium	137-1	452.69	437.85	440.67	443.74	1.78	ppb
Beryllium	9-1	98.65	98.61	98.66	98.64	0.03	ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	97.90	98.55	98.32	98.25	0.33	ppb
Cadmium	106-1	105.76	97.91	99.14	100.94	4.18	ppb
Cadmium	111-1	102.76	99.78	100.37	100.97	1.56	ppb
Calcium	43-1	10568.84	10792.15	10982.61	10781.20	1.92	ppb
Calcium	44-1	10353.62	10253.48	10426.66	10344.59	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.31	102.03	101.57	101.30	0.88	ppb
Cobalt	59-2	96.97	99.20	98.64	98.27	1.18	ppb
Copper	63-2	904.16	911.19	907.63	907.66	0.39	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				98		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	56-2	6251.95	6417.66	6290.82	6320.14	1.37	ppb
Iron	57-2	6340.00	6588.24	6448.42	6458.88	1.93	ppb
Iron	54-2	6492.94	6690.44	6572.33	6585.24	1.51	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	477.91	484.73	477.58	480.07	0.84	ppb
Lead	207-1	481.42	485.00	476.56	480.99	0.88	ppb
Lead	208-1	478.74	485.10	475.66	479.83	1.00	ppb
Lithium	6-1				98		%
Magnesium	24-2	9473.74	9610.10	9558.38	9547.41	0.72	ppb
Manganese	55-2	885.29	912.14	917.31	904.91	1.90	ppb
Molybdenum	94-1	925.79	929.22	930.48	928.49	0.26	ppb
Molybdenum	95-1	917.06	907.44	938.59	921.03	1.73	ppb
Molybdenum	96-1	918.74	913.49	929.86	920.70	0.91	ppb
Molybdenum	97-1	929.03	937.18	925.22	930.47	0.66	ppb
Molybdenum	98-1	928.66	932.94	939.81	933.80	0.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.22	100.67	99.05	98.98	1.74	ppb
Phosphorus	31-2	-83.96	-75.22	-84.23	-81.14		ppb
Potassium	39-2	4490.50	4637.02	4645.04	4590.85	1.90	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				96		%
Selenium	82-1	98.60	99.24	100.85	99.56	1.16	ppb
Selenium	77-2	97.08	103.72	99.90	100.23	3.32	ppb
Selenium	78-2	97.85	97.47	96.97	97.43	0.45	ppb
Silicon	28-1	559.65	569.87	571.99	567.17	1.16	ppb
Silver	107-1	15.03	14.60	14.73	14.79	1.50	ppb
Silver	109-1	15.07	14.43	14.75	14.75	2.19	ppb
Sodium	23-2	12225.59	12556.37	12438.33	12406.76	1.35	ppb
Strontium	86-1	125.31	124.08	124.95	124.78	0.51	ppb
Strontium	88-1	128.04	128.08	126.29	127.47	0.80	ppb
Sulfur	34-1	78.02	167.49	182.44	142.65	39.58	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	88.69	89.74	88.67	89.03	0.69	ppb
Thallium	205-1	87.91	90.20	88.45	88.85	1.35	ppb
Tin	118-1	91.21	88.33	88.71	89.41	1.75	ppb
Titanium	47-1	590.17	605.13	602.33	599.21	1.33	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	88.24	89.06	88.85	88.72	0.48	ppb
Vanadium	51-2	118.32	120.85	118.73	119.30	1.14	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	920.86	951.99	938.29	937.05	1.66	ppb
Zirconium	90-1	94.19	93.71	94.61	94.17	0.48	ppb
Zirconium	91-1	94.37	94.11	95.16	94.55	0.58	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48642.47	47174.39	46687.47	47501.44	2.14	ppb
Antimony	121-1	501.96	515.46	512.75	510.06	1.40	ppb
Arsenic	75-2	496.10	493.11	502.15	497.12	0.93	ppb
Barium	135-1	2557.21	2577.71	2589.17	2574.70	0.63	ppb
Barium	137-1	2523.38	2620.36	2579.02	2574.26	1.89	ppb
Beryllium	9-1	503.71	519.12	507.60	510.14	1.57	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	495.23	493.74	507.16	498.71	1.47	ppb
Cadmium	106-1	493.76	497.13	499.09	496.66	0.54	ppb
Cadmium	111-1	486.52	496.77	501.22	494.83	1.52	ppb
Calcium	43-1	253881.37	249748.06	249774.83	251134.75	0.95	ppb
Calcium	44-1	248591.21	251438.50	248980.93	249670.21	0.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	513.89	508.03	488.29	503.40	2.66	ppb
Cobalt	59-2	507.74	494.78	487.48	496.67	2.07	ppb
Copper	63-2	4848.31	4856.60	4811.10	4838.67	0.50	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				96		%
Indium	115-1				91		%
Indium	115-2				92		%
Iron	56-2	133677.95	132113.90	129037.43	131609.76	1.79	ppb
Iron	57-2	131816.72	130526.09	127754.44	130032.42	1.60	ppb
Iron	54-2	133222.66	133004.67	129017.18	131748.17	1.80	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2641.46	2555.45	2599.68	2598.86	1.65	ppb
Lead	207-1	2614.49	2526.23	2597.38	2579.37	1.81	ppb
Lead	208-1	2585.67	2537.82	2596.66	2573.38	1.22	ppb
Lithium	6-1				98		%
Magnesium	24-2	255525.05	251985.26	248000.00	251836.77	1.49	ppb
Manganese	55-2	5082.82	5006.86	4921.51	5003.73	1.61	ppb
Molybdenum	94-1	4981.34	5144.03	5109.33	5078.23	1.69	ppb
Molybdenum	95-1	5017.81	5199.34	5076.08	5097.74	1.82	ppb
Molybdenum	96-1	5044.87	5171.19	5084.81	5100.29	1.27	ppb
Molybdenum	97-1	5064.30	5198.16	5159.81	5140.76	1.34	ppb
Molybdenum	98-1	5105.94	5226.41	5094.91	5142.42	1.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	490.51	484.46	480.77	485.25	1.01	ppb
Phosphorus	31-2	10254.06	10021.92	9938.15	10071.38	1.62	ppb
Potassium	39-2	124507.39	124911.33	122755.55	124058.09	0.92	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				99		%
Selenium	82-1	479.63	493.69	483.30	485.54	1.50	ppb
Selenium	77-2	475.98	484.15	477.83	479.32	0.89	ppb
Selenium	78-2	475.26	480.22	478.85	478.11	0.54	ppb
Silicon	28-1	482.78	486.25	491.85	486.96	0.94	ppb
Silver	107-1	504.21	519.93	523.56	515.90	1.99	ppb
Silver	109-1	521.08	523.41	515.85	520.11	0.74	ppb
Sodium	23-2	244093.75	241199.73	236662.42	240651.97	1.56	ppb
Strontium	86-1	498.16	513.36	505.03	505.52	1.51	ppb
Strontium	88-1	503.96	522.81	516.08	514.28	1.86	ppb
Sulfur	34-1	10155.06	10246.98	10305.12	10235.72	0.74	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	522.84	524.27	521.40	522.84	0.27	ppb
Thallium	205-1	518.53	523.54	518.58	520.22	0.55	ppb
Tin	118-1	511.08	519.62	517.62	516.11	0.87	ppb
Titanium	47-1	5104.05	5193.32	5064.57	5120.65	1.29	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	532.39	524.94	526.56	527.96	0.74	ppb
Vanadium	51-2	504.96	504.77	493.87	501.20	1.27	ppb
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	4744.25	4732.86	4671.48	4716.20	0.83	ppb
Zirconium	90-1	500.42	519.97	507.49	509.29	1.94	ppb
Zirconium	91-1	503.36	521.54	510.13	511.68	1.80	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.57	2.37	2.00	2.32	12.51	ppb
Antimony	121-1	0.08	0.09	0.11	0.09	15.04	ppb
Arsenic	75-2	-0.04	-0.01	0.00	-0.02		ppb
Barium	135-1	0.03	0.06	0.07	0.06	43.95	ppb
Barium	137-1	0.05	0.04	0.06	0.05	19.13	ppb
Beryllium	9-1	0.00	-0.02	-0.02	-0.01		ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.04	-0.09	-0.04	-0.06		ppb
Cadmium	106-1	0.27	0.21	0.14	0.21	32.67	ppb
Cadmium	111-1	0.03	0.04	0.04	0.03	15.58	ppb
Calcium	43-1	5.47	6.00	6.26	5.91	6.82	ppb
Calcium	44-1	8.45	6.79	6.65	7.30	13.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.02	-0.01	0.00		ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	52.56	ppb
Copper	63-2	0.42	0.27	0.35	0.35	22.62	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				98		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	3.62	3.46	3.46	3.52	2.66	ppb
Iron	57-2	4.13	1.69	4.46	3.43	44.07	ppb
Iron	54-2	4.12	2.05	4.40	3.52	36.42	ppb
Krypton	83-1						cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.07	0.07	0.06	0.06	6.34	ppb
Lead	207-1	0.09	0.04	0.04	0.05	49.14	ppb
Lead	208-1	0.07	0.05	0.04	0.05	22.73	ppb
Lithium	6-1				99		%
Magnesium	24-2	5.37	5.88	6.00	5.75	5.84	ppb
Manganese	55-2	0.22	0.19	0.22	0.21	8.04	ppb
Molybdenum	94-1	0.25	0.17	0.17	0.19	24.25	ppb
Molybdenum	95-1	0.18	0.18	0.17	0.18	5.58	ppb
Molybdenum	96-1	0.20	0.14	0.19	0.17	18.25	ppb
Molybdenum	97-1	0.15	0.14	0.17	0.15	9.02	ppb
Molybdenum	98-1	0.18	0.15	0.16	0.16	8.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.04	0.04	0.02	120.22	ppb
Phosphorus	31-2	-125.05	-126.93	-124.58	-125.52		ppb
Potassium	39-2	23.78	24.05	22.54	23.46	3.41	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	-0.11	0.39	0.59	0.29	125.59	ppb
Selenium	77-2	-0.12	-0.12	0.43	0.06	498.58	ppb
Selenium	78-2	-0.56	0.34	0.75	0.18	373.60	ppb
Silicon	28-1	3.47	2.02	0.13	1.87	89.56	ppb
Silver	107-1	0.03	0.02	0.03	0.03	16.39	ppb
Silver	109-1	0.03	0.03	0.03	0.03	11.52	ppb
Sodium	23-2	23.03	23.11	23.38	23.17	0.78	ppb
Strontium	86-1	0.01	0.03	0.06	0.03	75.32	ppb
Strontium	88-1	0.02	0.01	0.02	0.02	19.83	ppb
Sulfur	34-1	-594.97	-545.04	-654.07	-598.03		ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	0.05	0.05	0.05	0.05	2.25	ppb
Thallium	205-1	0.06	0.05	0.06	0.05	7.16	ppb
Tin	118-1	0.02	0.06	0.06	0.05	44.24	ppb
Titanium	47-1	0.14	0.11	0.09	0.11	24.81	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.00	0.01	0.01	65.48	ppb
Vanadium	51-2	0.02	0.01	0.00	0.01	60.47	ppb
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	0.37	0.26	0.29	0.31	18.59	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	14.35	ppb
Zirconium	91-1	0.01	0.00	0.02	0.01	74.34	ppb

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	200	170	123	164	23.49	cps
Antimony	121-1	43	33	57	44	26.35	cps
Arsenic	75-2	50	37	37	41	18.72	cps
Barium	135-1	70	73	63	69	7.39	cps
Barium	137-1	73	147	77	99	41.88	cps
Beryllium	9-1	120	133	137	130	6.79	cps
Bismuth	209-1	2517961	2571367	2521457	2536928	1.18	cps
Bismuth	209-2	2519982	2502840	2509776	2510866	0.34	cps
Bromine	81-1	37033	37361	37434	37276	0.57	cps
Bromine	81-2	277	273	273	274	0.70	cps
Cadmium	108-1	20	10	17	16	32.73	cps
Cadmium	106-1	1617	1697	1430	1581	8.66	cps
Cadmium	111-1	1198	1267	1089	1185	7.57	cps
Calcium	43-1	390	410	393	398	2.69	cps
Calcium	44-1	8716	8549	8273	8513	2.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	563	743	617	641	14.42	cps
Cobalt	59-2	190	173	190	184	5.21	cps
Copper	63-2	2857	2964	2890	2904	1.88	cps
Dysprosium	156-1	13	3	10	9	57.30	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	20	23	27	23	14.29	cps
Erbium	164-2	33	23	20	26	27.15	cps
Gadolinium	160-1	20	17	20	19	10.18	cps
Gadolinium	160-2	180	187	217	194	10.05	cps
Holmium	165-1	4309591	4340798	4385043	4345144	0.87	cps
Holmium	165-2	3542077	3519926	3580031	3547345	0.86	cps
Indium	115-1	3807343	3874445	3856645	3846144	0.90	cps
Indium	115-2	1605271	1597666	1605091	1602676	0.27	cps
Iron	56-2	28153	27752	27822	27909	0.77	cps
Iron	57-2	1270	1227	1237	1245	1.82	cps
Iron	54-2	3100	3110	3154	3121	0.91	cps
Krypton	83-1	387	490	397	424	13.43	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	910	957	1033	967	6.44	cps
Lead	207-1	870	873	920	888	3.15	cps
Lead	208-1	3867	4004	4047	3972	2.37	cps
Lithium	6-1	484440	478468	482204	481704	0.63	cps
Magnesium	24-2	527	603	557	562	6.87	cps
Manganese	55-2	1180	1193	1310	1228	5.83	cps
Molybdenum	94-1	133	153	163	150	10.18	cps
Molybdenum	95-1	87	73	117	92	24.07	cps
Molybdenum	96-1	237	237	250	241	3.19	cps
Molybdenum	97-1	67	60	67	64	5.98	cps
Molybdenum	98-1	137	133	127	132	3.85	cps
Neodymium	150-1	3	10	7	7	50.03	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	230	263	333	276	19.14	cps
Phosphorus	31-2	230	263	247	247	6.76	cps
Potassium	39-2	55427	56454	56357	56079	1.01	cps
Rhodium	103-1	3623832	3626937	3611726	3620832	0.22	cps
Rhodium	103-2	2267305	2287324	2283078	2279236	0.46	cps
Scandium	45-1	2252638	2245870	2244496	2247668	0.19	cps
Scandium	45-2	211525	209884	210320	210576	0.40	cps
Selenium	82-1	161	96	182	147	30.54	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	960	833	970	921	8.27	cps
Silicon	28-1	1274260	1291209	1288493	1284654	0.71	cps
Silver	107-1	20	60	30	37	56.77	cps
Silver	109-1	37	40	27	34	20.14	cps
Sodium	23-2	11848	12098	12118	12021	1.25	cps
Strontium	86-1	690	627	687	668	5.34	cps
Strontium	88-1	153	137	133	141	7.59	cps
Sulfur	34-1	141303	142658	143771	142577	0.87	cps
Terbium	159-1	4559788	4487046	4484924	4510586	0.94	cps
Terbium	159-2	3560157	3588510	3511731	3553466	1.09	cps
Thallium	203-1	383	377	293	351	14.28	cps
Thallium	205-1	880	863	823	856	3.40	cps
Tin	118-1	940	997	943	960	3.31	cps
Titanium	47-1	60	73	73	69	11.17	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:08:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	383	407	317	369	12.66	cps
Vanadium	51-2	40	47	40	42	9.12	cps
Yttrium	89-1	6414429	6457418	6398127	6423325	0.48	cps
Yttrium	89-2	1927614	1928592	1894765	1916990	1.00	cps
Zinc	66-2	437	380	453	423	9.08	cps
Zirconium	90-1	333	310	380	341	10.45	cps
Zirconium	91-1	57	70	70	66	11.74	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3514	3520	3330	3455	3.12	cps
Antimony	121-1	13223	12642	12189	12685	4.09	cps
Arsenic	75-2	503	467	500	490	4.14	cps
Barium	135-1	16063	16079	15839	15993	0.84	cps
Barium	137-1	27637	27994	27403	27678	1.08	cps
Beryllium	9-1	1097	1013	1023	1044	4.36	cps
Bismuth	209-1	2569887	2587830	2498469	2552062	1.85	cps
Bismuth	209-2	2525922	2510905	2514231	2517019	0.31	cps
Bromine	81-1	37875	37183	37965	37675	1.14	cps
Bromine	81-2	233	280	220	244	12.89	cps
Cadmium	108-1	160	140	160	153	7.53	cps
Cadmium	106-1	1843	1847	1830	1840	0.48	cps
Cadmium	111-1	3169	3085	2839	3031	5.65	cps
Calcium	43-1	10137	9930	10020	10029	1.03	cps
Calcium	44-1	169067	167656	167535	168086	0.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6578	6715	6878	6724	2.23	cps
Cobalt	59-2	5024	4988	5034	5015	0.49	cps
Copper	63-2	9250	9530	9663	9481	2.23	cps
Dysprosium	156-1	10	3	0	4	114.60	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	37	30	33	33	10.01	cps
Erbium	164-2	33	17	27	26	32.81	cps
Gadolinium	160-1	27	0	23	17	87.18	cps
Gadolinium	160-2	197	210	200	202	3.43	cps
Holmium	165-1	4392554	4335041	4302633	4343409	1.05	cps
Holmium	165-2	3638783	3610094	3557099	3601992	1.15	cps
Indium	115-1	3885479	3888788	3795892	3856720	1.37	cps
Indium	115-2	1596519	1594568	1595346	1595478	0.06	cps
Iron	56-2	174860	175855	176334	175683	0.43	cps
Iron	57-2	5034	5161	5018	5071	1.55	cps
Iron	54-2	11454	11444	11441	11447	0.06	cps
Krypton	83-1	317	457	420	398	18.25	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4611	4944	4808	4788	3.50	cps
Lead	207-1	4231	4187	4411	4276	2.77	cps
Lead	208-1	18869	19119	19449	19145	1.52	cps
Lithium	6-1	497598	487761	486493	490617	1.24	cps
Magnesium	24-2	136539	138678	136156	137124	0.99	cps
Manganese	55-2	3757	3901	4077	3912	4.10	cps
Molybdenum	94-1	13947	14407	13903	14086	1.98	cps
Molybdenum	95-1	16603	17083	16716	16801	1.50	cps
Molybdenum	96-1	18909	18979	17858	18582	3.38	cps
Molybdenum	97-1	10537	10247	10694	10493	2.16	cps
Molybdenum	98-1	26708	26738	26471	26639	0.55	cps
Neodymium	150-1	0	3	7	3	100.05	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	1307	1213	1287	1269	3.87	cps
Phosphorus	31-2	2824	2680	2767	2757	2.62	cps
Potassium	39-2	242559	243928	241337	242608	0.53	cps
Rhodium	103-1	3613007	3576355	3563074	3584145	0.72	cps
Rhodium	103-2	2287675	2252551	2305448	2281891	1.18	cps
Scandium	45-1	2271950	2250298	2181279	2234509	2.12	cps
Scandium	45-2	210606	211428	209495	210510	0.46	cps
Selenium	82-1	1017	926	904	949	6.32	cps
Selenium	77-2	107	100	67	91	23.52	cps
Selenium	78-2	1087	1080	1153	1107	3.66	cps
Silicon	28-1	1287868	1282100	1258433	1276134	1.22	cps
Silver	107-1	10130	9954	9913	9999	1.15	cps
Silver	109-1	9390	9266	9140	9265	1.35	cps
Sodium	23-2	229287	227395	224330	227004	1.10	cps
Strontium	86-1	2890	2940	2827	2886	1.97	cps
Strontium	88-1	19683	20124	19540	19782	1.54	cps
Sulfur	34-1	154659	156283	155236	155393	0.53	cps
Terbium	159-1	4513859	4620869	4475460	4536730	1.66	cps
Terbium	159-2	3553510	3491696	3522960	3522722	0.88	cps
Thallium	203-1	6038	5751	5985	5925	2.57	cps
Thallium	205-1	14041	14298	13797	14045	1.78	cps
Tin	118-1	28939	29233	29243	29138	0.59	cps
Titanium	47-1	4814	4731	4434	4660	4.29	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:15:19	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16827	16944	16851	16874	0.37	cps
Vanadium	51-2	12896	12605	12562	12688	1.43	cps
Yttrium	89-1	6453228	6423917	6353313	6410153	0.80	cps
Yttrium	89-2	1901199	1939406	1915687	1918764	1.01	cps
Zinc	66-2	3710	3694	3741	3715	0.64	cps
Zirconium	90-1	12692	12472	12739	12634	1.13	cps
Zirconium	91-1	2614	2700	2760	2691	2.74	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	172032	172736	170320	171696	0.72	cps
Antimony	121-1	309496	309142	309735	309458	0.10	cps
Arsenic	75-2	22020	21636	21469	21708	1.30	cps
Barium	135-1	407966	408928	406078	407658	0.36	cps
Barium	137-1	712626	712641	707787	711018	0.39	cps
Beryllium	9-1	49816	49759	48810	49462	1.14	cps
Bismuth	209-1	2499957	2525991	2492279	2506075	0.71	cps
Bismuth	209-2	2441526	2418026	2395191	2418248	0.96	cps
Bromine	81-1	36689	35907	36505	36367	1.12	cps
Bromine	81-2	163	180	183	176	6.10	cps
Cadmium	108-1	7249	7625	7022	7299	4.18	cps
Cadmium	106-1	10998	11501	11635	11378	2.95	cps
Cadmium	111-1	97389	97866	97292	97516	0.32	cps
Calcium	43-1	100342	99621	99929	99964	0.36	cps
Calcium	44-1	1564905	1566442	1542411	1557919	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	152274	151165	149264	150901	1.01	cps
Cobalt	59-2	238946	237077	235592	237205	0.71	cps
Copper	63-2	1817381	1798925	1744513	1786940	2.12	cps
Dysprosium	156-1	27	10	3	13	90.16	cps
Dysprosium	156-2	7	20	27	18	57.27	cps
Erbium	164-1	17	13	13	14	13.35	cps
Erbium	164-2	17	17	17	17	0.00	cps
Gadolinium	160-1	27	30	17	24	28.38	cps
Gadolinium	160-2	197	210	167	191	11.61	cps
Holmium	165-1	4334068	4286258	4317026	4312451	0.56	cps
Holmium	165-2	3539332	3420779	3458066	3472726	1.75	cps
Indium	115-1	3715477	3732302	3668046	3705275	0.90	cps
Indium	115-2	1558836	1551961	1550584	1553793	0.28	cps
Iron	56-2	7220044	7145874	7172034	7179317	0.52	cps
Iron	57-2	187788	186320	184673	186260	0.84	cps
Iron	54-2	418950	413630	409660	414080	1.13	cps
Krypton	83-1	383	387	450	407	9.24	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1125508	1130742	1126126	1127459	0.25	cps
Lead	207-1	991090	995223	994747	993687	0.23	cps
Lead	208-1	4599931	4643397	4633595	4625641	0.49	cps
Lithium	6-1	484119	481079	480260	481819	0.42	cps
Magnesium	24-2	1425267	1396217	1368240	1396574	2.04	cps
Manganese	55-2	1357638	1360111	1349014	1355588	0.43	cps
Molybdenum	94-1	1164056	1171664	1170614	1168778	0.35	cps
Molybdenum	95-1	1697143	1712879	1686227	1698749	0.79	cps
Molybdenum	96-1	1822604	1840729	1849937	1837757	0.76	cps
Molybdenum	97-1	1041178	1047514	1044500	1044397	0.30	cps
Molybdenum	98-1	2622998	2681618	2645348	2649988	1.12	cps
Neodymium	150-1	17	37	40	31	40.56	cps
Neodymium	150-2	10	13	27	17	52.93	cps
Nickel	60-2	67283	67139	65583	66668	1.41	cps
Phosphorus	31-2	10253	10297	10367	10306	0.56	cps
Potassium	39-2	1027893	1031757	1018753	1026134	0.65	cps
Rhodium	103-1	3435557	3434679	3456277	3442171	0.36	cps
Rhodium	103-2	2229619	2176928	2169088	2191878	1.50	cps
Scandium	45-1	2146314	2160426	2159529	2155423	0.37	cps
Scandium	45-2	205079	206483	204042	205201	0.60	cps
Selenium	82-1	7939	8137	7880	7985	1.69	cps
Selenium	77-2	827	910	873	870	4.80	cps
Selenium	78-2	4104	4064	4057	4075	0.62	cps
Silicon	28-1	1825497	1860974	1844256	1843576	0.96	cps
Silver	107-1	485056	483808	487268	485377	0.36	cps
Silver	109-1	461378	464235	463893	463169	0.34	cps
Sodium	23-2	2295871	2221878	2217763	2245171	1.96	cps
Strontium	86-1	111145	112149	112230	111842	0.54	cps
Strontium	88-1	971190	975630	962398	969739	0.69	cps
Sulfur	34-1	176212	175717	175932	175954	0.14	cps
Terbium	159-1	4409572	4373013	4370685	4384423	0.50	cps
Terbium	159-2	3480411	3437055	3488166	3468544	0.79	cps
Thallium	203-1	284338	284982	284961	284760	0.13	cps
Thallium	205-1	660992	662664	671556	665071	0.85	cps
Tin	118-1	275346	278349	276631	276775	0.54	cps
Titanium	47-1	446970	448040	446320	447110	0.19	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:18:37	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	831440	837536	835446	834807	0.37	cps
Vanadium	51-2	130884	129729	127765	129459	1.22	cps
Yttrium	89-1	6224087	6247790	6247171	6239683	0.22	cps
Yttrium	89-2	1877873	1863945	1859659	1867159	0.51	cps
Zinc	66-2	373559	369988	369819	371122	0.57	cps
Zirconium	90-1	579533	581907	579151	580197	0.26	cps
Zirconium	91-1	129283	130356	129357	129665	0.46	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	399269	399563	393999	397610	0.79	cps
Antimony	121-1	744055	756996	747563	749538	0.89	cps
Arsenic	75-2	51319	50917	50268	50835	1.04	cps
Barium	135-1	983833	995944	974836	984871	1.08	cps
Barium	137-1	1713856	1765763	1720944	1733521	1.62	cps
Beryllium	9-1	117994	120939	120436	119790	1.32	cps
Bismuth	209-1	2547389	2553684	2505858	2535644	1.02	cps
Bismuth	209-2	2343098	2446783	2348759	2379547	2.45	cps
Bromine	81-1	32990	32706	32379	32692	0.94	cps
Bromine	81-2	160	130	150	147	10.41	cps
Cadmium	108-1	16967	17040	16520	16842	1.67	cps
Cadmium	106-1	25536	24968	24734	25079	1.64	cps
Cadmium	111-1	230995	235504	234863	233788	1.04	cps
Calcium	43-1	240801	241156	241757	241238	0.20	cps
Calcium	44-1	3728883	3676824	3723386	3709698	0.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	358226	356486	357771	357494	0.25	cps
Cobalt	59-2	561026	561129	554080	558745	0.72	cps
Copper	63-2	4220406	4215231	4191151	4208930	0.37	cps
Dysprosium	156-1	27	13	23	21	32.88	cps
Dysprosium	156-2	50	60	60	57	10.19	cps
Erbium	164-1	40	23	37	33	26.47	cps
Erbium	164-2	30	30	17	26	30.11	cps
Gadolinium	160-1	10	23	20	18	39.03	cps
Gadolinium	160-2	197	200	173	190	7.65	cps
Holmium	165-1	4234159	4311421	4260237	4268606	0.92	cps
Holmium	165-2	3499261	3462775	3470362	3477466	0.55	cps
Indium	115-1	3692484	3650540	3621722	3654915	0.97	cps
Indium	115-2	1503133	1507405	1505569	1505369	0.14	cps
Iron	56-2	17137661	16902699	16859334	16966565	0.88	cps
Iron	57-2	443308	441376	441801	442162	0.23	cps
Iron	54-2	979482	973042	975243	975922	0.34	cps
Krypton	83-1	413	360	423	399	8.54	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2770612	2853792	2809048	2811151	1.48	cps
Lead	207-1	2583922	2576298	2575019	2578413	0.19	cps
Lead	208-1	11464170	11704143	11537006	11568440	1.06	cps
Lithium	6-1	484357	478790	479346	480831	0.64	cps
Magnesium	24-2	3377095	3370354	3343079	3363509	0.54	cps
Manganese	55-2	3205163	3220315	3150142	3191873	1.16	cps
Molybdenum	94-1	2781414	2817424	2753467	2784102	1.15	cps
Molybdenum	95-1	4033497	4093386	3954546	4027143	1.73	cps
Molybdenum	96-1	4439545	4449096	4393853	4427498	0.67	cps
Molybdenum	97-1	2523673	2492408	2503043	2506375	0.63	cps
Molybdenum	98-1	6471134	6462309	6233284	6388909	2.11	cps
Neodymium	150-1	77	57	37	57	35.29	cps
Neodymium	150-2	17	23	20	20	16.65	cps
Nickel	60-2	144380	145633	143267	144427	0.82	cps
Phosphorus	31-2	24496	23872	23822	24063	1.56	cps
Potassium	39-2	2286338	2238936	2272638	2265971	1.08	cps
Rhodium	103-1	3444224	3409765	3354271	3402753	1.33	cps
Rhodium	103-2	2152609	2164439	2132962	2150003	0.74	cps
Scandium	45-1	2149832	2049533	2071858	2090408	2.52	cps
Scandium	45-2	196868	196545	196375	196596	0.13	cps
Selenium	82-1	18779	19257	19094	19043	1.27	cps
Selenium	77-2	2314	2217	2394	2308	3.83	cps
Selenium	78-2	8349	8392	8366	8369	0.26	cps
Silicon	28-1	2584368	2534866	2555931	2558389	0.97	cps
Silver	107-1	1150671	1173322	1147111	1157035	1.23	cps
Silver	109-1	1105863	1113420	1092794	1104026	0.95	cps
Sodium	23-2	5318358	5304354	5392302	5338338	0.89	cps
Strontium	86-1	265338	268195	266189	266574	0.55	cps
Strontium	88-1	2338687	2382704	2355998	2359130	0.94	cps
Sulfur	34-1	211684	209219	207492	209465	1.01	cps
Terbium	159-1	4516601	4379754	4334051	4410135	2.15	cps
Terbium	159-2	3448302	3406354	3440829	3431828	0.65	cps
Thallium	203-1	690565	704018	703361	699315	1.08	cps
Thallium	205-1	1626438	1651456	1642801	1640232	0.77	cps
Tin	118-1	669984	670823	662740	667849	0.67	cps
Titanium	47-1	1060610	1067897	1058321	1062276	0.47	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:21:48	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2161725	2241512	2197128	2200122	1.82	cps
Vanadium	51-2	307026	305955	304560	305847	0.40	cps
Yttrium	89-1	6184864	6170568	5962082	6105838	2.04	cps
Yttrium	89-2	1795278	1800244	1821264	1805595	0.76	cps
Zinc	66-2	891486	883270	873279	882679	1.03	cps
Zirconium	90-1	1383413	1399511	1383402	1388775	0.67	cps
Zirconium	91-1	312551	311582	310137	311423	0.39	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	810253	801832	806549	806212	0.52	cps
Antimony	121-1	1469141	1483591	1493223	1481985	0.82	cps
Arsenic	75-2	105149	105840	105270	105420	0.35	cps
Barium	135-1	1976664	2069578	2074445	2040229	2.70	cps
Barium	137-1	3517240	3546720	3534707	3532889	0.42	cps
Beryllium	9-1	233319	232178	236209	233902	0.89	cps
Bismuth	209-1	2607800	2650699	2577243	2611914	1.41	cps
Bismuth	209-2	2510659	2564934	2538419	2538004	1.07	cps
Bromine	81-1	36365	35456	35924	35915	1.27	cps
Bromine	81-2	277	280	297	284	3.77	cps
Cadmium	108-1	33976	33783	34675	34145	1.37	cps
Cadmium	106-1	48919	49802	49504	49408	0.91	cps
Cadmium	111-1	460287	465362	465348	463666	0.63	cps
Calcium	43-1	473801	478538	472619	474986	0.66	cps
Calcium	44-1	7299507	7417823	7479649	7398993	1.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	737599	732651	726999	732416	0.72	cps
Cobalt	59-2	1147056	1145153	1131592	1141267	0.74	cps
Copper	63-2	8596688	8603204	8508401	8569431	0.62	cps
Dysprosium	156-1	23	37	43	34	29.57	cps
Dysprosium	156-2	113	117	120	117	2.86	cps
Erbium	164-1	63	60	57	60	5.55	cps
Erbium	164-2	43	60	53	52	16.07	cps
Gadolinium	160-1	33	37	53	41	26.06	cps
Gadolinium	160-2	180	193	233	202	13.73	cps
Holmium	165-1	4434607	4378676	4369926	4394403	0.80	cps
Holmium	165-2	3555593	3677653	3635276	3622841	1.71	cps
Indium	115-1	3811496	3782512	3663570	3752526	2.09	cps
Indium	115-2	1576121	1583620	1585056	1581599	0.30	cps
Iron	56-2	34663932	34921479	34457554	34680988	0.67	cps
Iron	57-2	902802	903146	895132	900360	0.50	cps
Iron	54-2	1915067	1928963	1905611	1916547	0.61	cps
Krypton	83-1	367	387	407	387	5.17	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5511249	5609281	5566354	5562295	0.88	cps
Lead	207-1	4959401	5032419	5051937	5014586	0.97	cps
Lead	208-1	22475914	22953279	22959993	22796395	1.22	cps
Lithium	6-1	498536	488449	494139	493708	1.02	cps
Magnesium	24-2	6950100	6887325	6789975	6875800	1.17	cps
Manganese	55-2	6578282	6659784	6632668	6623578	0.63	cps
Molybdenum	94-1	5488096	5627323	5626116	5580512	1.43	cps
Molybdenum	95-1	8174938	8164072	8106510	8148507	0.45	cps
Molybdenum	96-1	8862414	8939370	8932100	8911295	0.48	cps
Molybdenum	97-1	4985128	5152088	5023565	5053594	1.73	cps
Molybdenum	98-1	12814115	12888924	13034101	12912380	0.87	cps
Neodymium	150-1	117	137	150	134	12.48	cps
Neodymium	150-2	30	40	37	36	14.32	cps
Nickel	60-2	294425	293560	290553	292846	0.69	cps
Phosphorus	31-2	50473	50185	49011	49890	1.55	cps
Potassium	39-2	4632899	4665346	4642711	4646986	0.36	cps
Rhodium	103-1	3586794	3497122	3517825	3533914	1.33	cps
Rhodium	103-2	2226967	2257463	2247529	2243986	0.69	cps
Scandium	45-1	2192084	2204500	2144016	2180200	1.47	cps
Scandium	45-2	209736	208903	210039	209559	0.28	cps
Selenium	82-1	37484	37456	37805	37582	0.52	cps
Selenium	77-2	4557	4771	4651	4660	2.30	cps
Selenium	78-2	16266	16079	16416	16253	1.04	cps
Silicon	28-1	4457381	4485991	4526454	4489942	0.77	cps
Silver	107-1	2251653	2189637	2245813	2229034	1.54	cps
Silver	109-1	2140317	2141337	2171087	2150914	0.81	cps
Sodium	23-2	11022993	11060184	10681124	10921434	1.91	cps
Strontium	86-1	528494	539074	536562	534710	1.03	cps
Strontium	88-1	4670529	4739843	4720166	4710179	0.76	cps
Sulfur	34-1	281088	281626	281595	281436	0.11	cps
Terbium	159-1	4618222	4529463	4545761	4564482	1.04	cps
Terbium	159-2	3595382	3639133	3598199	3610905	0.68	cps
Thallium	203-1	1371396	1381897	1385226	1379506	0.52	cps
Thallium	205-1	3335826	3443933	3365268	3381676	1.65	cps
Tin	118-1	1311140	1338529	1337990	1329220	1.18	cps
Titanium	47-1	2098762	2153479	2119788	2124010	1.30	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:47:25	DataFile Name :	013CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4367739	4422035	4451414	4413729	0.96	cps
Vanadium	51-2	632620	634734	626710	631355	0.66	cps
Yttrium	89-1	6500308	6398437	6452266	6450337	0.79	cps
Yttrium	89-2	1934640	1904405	1887281	1908775	1.26	cps
Zinc	66-2	1768336	1769648	1762927	1766970	0.20	cps
Zirconium	90-1	2798909	2868368	2824189	2830489	1.24	cps
Zirconium	91-1	622144	630144	627305	626531	0.65	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1644196	1648976	1643998	1645723	0.17	cps
Antimony	121-1	3030395	3049905	3130911	3070404	1.74	cps
Arsenic	75-2	210586	209018	209900	209835	0.37	cps
Barium	135-1	4149973	4226584	4203037	4193198	0.94	cps
Barium	137-1	7140443	7140388	7119696	7133509	0.17	cps
Beryllium	9-1	475199	471791	472124	473038	0.40	cps
Bismuth	209-1	2526806	2516275	2549616	2530899	0.67	cps
Bismuth	209-2	2475325	2462744	2403645	2447238	1.56	cps
Bromine	81-1	35336	35416	35576	35443	0.35	cps
Bromine	81-2	177	210	213	200	10.14	cps
Cadmium	108-1	68504	69060	67674	68413	1.02	cps
Cadmium	106-1	95770	96313	95917	96000	0.29	cps
Cadmium	111-1	924475	926380	931584	927480	0.40	cps
Calcium	43-1	959349	953722	954644	955905	0.32	cps
Calcium	44-1	14949452	14780319	14730717	14820162	0.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1464284	1486244	1490164	1480230	0.94	cps
Cobalt	59-2	2271438	2291630	2283780	2282283	0.45	cps
Copper	63-2	17156716	16902064	17126729	17061836	0.82	cps
Dysprosium	156-1	73	110	60	81	31.92	cps
Dysprosium	156-2	270	240	273	261	7.03	cps
Erbium	164-1	40	80	40	53	43.30	cps
Erbium	164-2	63	57	83	68	20.47	cps
Gadolinium	160-1	40	50	67	52	25.80	cps
Gadolinium	160-2	180	250	210	213	16.46	cps
Holmium	165-1	4333191	4348213	4283208	4321538	0.79	cps
Holmium	165-2	3598275	3611142	3534757	3581391	1.14	cps
Indium	115-1	3608691	3654911	3596630	3620077	0.85	cps
Indium	115-2	1522625	1536909	1521914	1527149	0.55	cps
Iron	56-2	69921994	69569554	69134746	69542098	0.57	cps
Iron	57-2	1777571	1733983	1716042	1742532	1.82	cps
Iron	54-2	3852327	3858351	3809548	3840076	0.69	cps
Krypton	83-1	373	420	390	394	6.00	cps

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11543679	11323028	11820688	11562465	2.16	cps
Lead	207-1	10269177	10450786	10668032	10462665	1.91	cps
Lead	208-1	46746237	46528637	47888031	47054302	1.55	cps
Lithium	6-1	481534	478629	481618	480594	0.35	cps
Magnesium	24-2	13797762	13851792	13718382	13789312	0.49	cps
Manganese	55-2	13378783	13276217	13382699	13345899	0.45	cps
Molybdenum	94-1	11257732	11423976	11510313	11397341	1.13	cps
Molybdenum	95-1	16366480	16203728	16484570	16351593	0.86	cps
Molybdenum	96-1	17848723	17947818	17809449	17868663	0.40	cps
Molybdenum	97-1	10201880	10158339	10227646	10195955	0.34	cps
Molybdenum	98-1	26190815	26320481	25924026	26145108	0.77	cps
Neodymium	150-1	250	200	220	223	11.27	cps
Neodymium	150-2	70	80	37	62	36.46	cps
Nickel	60-2	591488	585928	592118	589844	0.58	cps
Phosphorus	31-2	100171	99544	100229	99981	0.38	cps
Potassium	39-2	9252396	9298178	9260872	9270482	0.26	cps
Rhodium	103-1	3331146	3403923	3382957	3372675	1.11	cps
Rhodium	103-2	2165527	2159850	2150746	2158707	0.35	cps
Scandium	45-1	2140680	2086082	2134795	2120519	1.41	cps
Scandium	45-2	204956	205687	202483	204375	0.82	cps
Selenium	82-1	74515	73953	74011	74160	0.42	cps
Selenium	77-2	9183	9183	9473	9280	1.81	cps
Selenium	78-2	31891	31671	31781	31781	0.35	cps
Silicon	28-1	6427224	6440023	6352791	6406679	0.74	cps
Silver	107-1	4586461	4544526	4551288	4560759	0.49	cps
Silver	109-1	4374124	4336997	4356586	4355902	0.43	cps
Sodium	23-2	22156169	21882396	21714910	21917825	1.02	cps
Strontium	86-1	1081599	1071622	1076580	1076600	0.46	cps
Strontium	88-1	9588036	9312893	9533635	9478188	1.54	cps
Sulfur	34-1	416909	411577	408038	412175	1.08	cps
Terbium	159-1	4473677	4450731	4464457	4462955	0.26	cps
Terbium	159-2	3553528	3613108	3510529	3559055	1.45	cps
Thallium	203-1	3014296	2956449	3008195	2992980	1.06	cps
Thallium	205-1	7066696	7034677	7022607	7041327	0.32	cps
Tin	118-1	2723004	2729432	2774096	2742177	1.01	cps
Titanium	47-1	4297735	4331469	4334558	4321254	0.47	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:50:18	DataFile Name :	014CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9113290	8907762	9119808	9046954	1.33	cps
Vanadium	51-2	1273597	1272563	1259423	1268528	0.62	cps
Yttrium	89-1	6266358	6043102	6213866	6174442	1.89	cps
Yttrium	89-2	1880582	1871236	1869997	1873939	0.31	cps
Zinc	66-2	3505521	3507345	3493272	3502046	0.22	cps
Zirconium	90-1	5710026	5657008	5761952	5709662	0.92	cps
Zirconium	91-1	1267574	1264851	1269699	1267375	0.19	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3248138	3214570	3188995	3217234	0.92	cps
Antimony	121-1	5728276	5964301	5807789	5833455	2.06	cps
Arsenic	75-2	402762	402042	398170	400991	0.62	cps
Barium	135-1	7943496	8022189	8161169	8042285	1.37	cps
Barium	137-1	13817792	13826894	14025534	13890073	0.85	cps
Beryllium	9-1	888185	905427	910815	901476	1.31	cps
Bismuth	209-1	2466784	2504308	2484987	2485360	0.76	cps
Bismuth	209-2	2415004	2366932	2334628	2372188	1.70	cps
Bromine	81-1	35834	35830	35359	35674	0.76	cps
Bromine	81-2	177	270	230	226	20.76	cps
Cadmium	108-1	126445	129192	130189	128609	1.51	cps
Cadmium	106-1	180183	182407	184739	182443	1.25	cps
Cadmium	111-1	1717379	1776849	1760743	1751657	1.76	cps
Calcium	43-1	1758255	1793822	1791228	1781102	1.11	cps
Calcium	44-1	28082008	28696070	29275156	28684411	2.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2847097	2854407	2742931	2814812	2.22	cps
Cobalt	59-2	4420295	4407131	4454030	4427152	0.55	cps
Copper	63-2	33199778	32851555	32960352	33003895	0.54	cps
Dysprosium	156-1	143	143	130	139	5.55	cps
Dysprosium	156-2	387	417	533	446	17.39	cps
Erbium	164-1	90	100	137	109	22.57	cps
Erbium	164-2	67	97	97	87	19.98	cps
Gadolinium	160-1	70	60	80	70	14.29	cps
Gadolinium	160-2	227	290	250	256	12.53	cps
Holmium	165-1	4272971	4367753	4265670	4302131	1.32	cps
Holmium	165-2	3518077	3604870	3550560	3557836	1.23	cps
Indium	115-1	3536020	3604400	3542459	3560959	1.06	cps
Indium	115-2	1474692	1469018	1469368	1471026	0.22	cps
Iron	56-2	136015008	134831295	134856181	135234161	0.50	cps
Iron	57-2	3429188	3410972	3380120	3406760	0.73	cps
Iron	54-2	7501652	7472078	7359775	7444502	1.01	cps
Krypton	83-1	397	373	383	384	3.05	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21864976	22604926	22528766	22332889	1.82	cps
Lead	207-1	19794748	20175701	20228003	20066151	1.18	cps
Lead	208-1	90006939	91254868	91775231	91012346	1.00	cps
Lithium	6-1	481375	482887	478170	480811	0.50	cps
Magnesium	24-2	27201113	26846144	26482220	26843159	1.34	cps
Manganese	55-2	25733484	25791260	25629508	25718084	0.32	cps
Molybdenum	94-1	21869573	22451246	21963648	22094822	1.41	cps
Molybdenum	95-1	31628960	32521398	32082196	32077518	1.39	cps
Molybdenum	96-1	34724441	35396134	35213229	35111268	0.99	cps
Molybdenum	97-1	19519234	20178225	19903603	19867021	1.67	cps
Molybdenum	98-1	49857488	50952943	50171508	50327313	1.12	cps
Neodymium	150-1	413	453	393	420	7.28	cps
Neodymium	150-2	183	133	127	148	20.96	cps
Nickel	60-2	1132053	1122432	1114072	1122853	0.80	cps
Phosphorus	31-2	193139	190978	190393	191504	0.76	cps
Potassium	39-2	18187463	18015526	17774536	17992508	1.15	cps
Rhodium	103-1	3282494	3323444	3296442	3300793	0.63	cps
Rhodium	103-2	2111283	2094679	2080504	2095488	0.74	cps
Scandium	45-1	2098625	2114124	2118819	2110522	0.50	cps
Scandium	45-2	206075	202569	203612	204085	0.88	cps
Selenium	82-1	138411	141898	140572	140294	1.25	cps
Selenium	77-2	17928	17460	17484	17624	1.49	cps
Selenium	78-2	59927	59228	59232	59462	0.68	cps
Silicon	28-1	12444302	12489258	12424077	12452546	0.27	cps
Silver	107-1	8644255	8808808	8743399	8732154	0.95	cps
Silver	109-1	8326515	8308368	8362034	8332305	0.33	cps
Sodium	23-2	42991238	42947696	42768881	42902605	0.27	cps
Strontium	86-1	2075176	2127204	2152484	2118288	1.86	cps
Strontium	88-1	17945576	18468185	18547715	18320492	1.79	cps
Sulfur	34-1	673912	678875	683829	678872	0.73	cps
Terbium	159-1	4454242	4424218	4519530	4465997	1.09	cps
Terbium	159-2	3505027	3504802	3502511	3504114	0.04	cps
Thallium	203-1	5681451	5837353	5690363	5736389	1.53	cps
Thallium	205-1	13205610	13809303	13638750	13551221	2.30	cps
Tin	118-1	5161335	5300878	5306191	5256135	1.56	cps
Titanium	47-1	8283250	8375413	8427169	8361944	0.87	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:53:07	DataFile Name :	015CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17299823	17759953	17643363	17567713	1.36	cps
Vanadium	51-2	2505023	2504715	2487792	2499177	0.39	cps
Yttrium	89-1	6210622	6185827	6172394	6189614	0.31	cps
Yttrium	89-2	1871007	1875345	1839728	1862026	1.04	cps
Zinc	66-2	6658739	6550389	6388223	6532451	2.08	cps
Zirconium	90-1	10923796	11336499	10998317	11086204	1.98	cps
Zirconium	91-1	2408705	2505983	2467991	2460893	1.99	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	17285136	16968981	17304923	17186347	1.10	cps
Antimony	121-1	2177	2380	2280	2279	4.46	cps
Arsenic	75-2	243	247	197	229	12.21	cps
Barium	135-1	3430	3254	3324	3336	2.67	cps
Barium	137-1	5631	6028	5915	5858	3.49	cps
Beryllium	9-1	163	200	173	179	10.59	cps
Bismuth	209-1	2258685	2240965	2211250	2236967	1.07	cps
Bismuth	209-2	2164467	2133106	2133964	2143846	0.83	cps
Bromine	81-1	35312	36482	37056	36283	2.45	cps
Bromine	81-2	233	287	287	269	11.45	cps
Cadmium	108-1	67	70	67	68	2.84	cps
Cadmium	106-1	1427	1613	1703	1581	8.93	cps
Cadmium	111-1	1255	1384	1449	1363	7.23	cps
Calcium	43-1	8941094	9090182	9133312	9054863	1.11	cps
Calcium	44-1	145259585	146928814	149328651	147172350	1.39	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17564	16920	17350	17278	1.90	cps
Cobalt	59-2	12268	12242	12285	12265	0.18	cps
Copper	63-2	10130	9636	10350	10039	3.64	cps
Dysprosium	156-1	167	207	197	190	10.96	cps
Dysprosium	156-2	210	193	197	200	4.41	cps
Erbium	164-1	267	287	190	248	20.59	cps
Erbium	164-2	213	250	237	233	7.95	cps
Gadolinium	160-1	233	217	190	213	10.25	cps
Gadolinium	160-2	347	367	333	349	4.81	cps
Holmium	165-1	4302233	4253870	4246817	4267640	0.71	cps
Holmium	165-2	3371577	3371844	3426098	3389840	0.93	cps
Indium	115-1	3433846	3464290	3517240	3471792	1.22	cps
Indium	115-2	1475581	1482413	1480074	1479356	0.23	cps
Iron	56-2	641992084	650729830	649565590	647429168	0.73	cps
Iron	57-2	16242524	16293586	16423956	16320022	0.57	cps
Iron	54-2	35425512	35610591	35726679	35587594	0.43	cps
Krypton	83-1	433	507	427	456	9.74	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10314	10754	10504	10524	2.10	cps
Lead	207-1	8893	9427	9297	9205	3.02	cps
Lead	208-1	41081	42787	41441	41770	2.15	cps
Lithium	6-1	471799	473517	478084	474467	0.68	cps
Magnesium	24-2	143684928	137853291	142068495	141202238	2.13	cps
Manganese	55-2	14233	13940	14117	14097	1.05	cps
Molybdenum	94-1	5168	5388	5234	5263	2.14	cps
Molybdenum	95-1	4054	5011	5011	4692	11.78	cps
Molybdenum	96-1	21386	22110	21486	21661	1.81	cps
Molybdenum	97-1	2777	2920	3004	2900	3.95	cps
Molybdenum	98-1	6221	6298	6165	6228	1.08	cps
Neodymium	150-1	140	113	120	124	11.15	cps
Neodymium	150-2	87	97	87	90	6.41	cps
Nickel	60-2	4694	4784	4711	4730	1.01	cps
Phosphorus	31-2	337	260	303	300	12.81	cps
Potassium	39-2	94198722	93417465	94209699	93941962	0.48	cps
Rhodium	103-1	3113466	3079288	3117501	3103418	0.68	cps
Rhodium	103-2	1988217	1990669	2009620	1996169	0.59	cps
Scandium	45-1	2115287	2142292	2181237	2146272	1.54	cps
Scandium	45-2	211478	211073	213233	211928	0.54	cps
Selenium	82-1	394	290	414	366	18.25	cps
Selenium	77-2	20	27	13	20	33.35	cps
Selenium	78-2	920	937	800	886	8.42	cps
Silicon	28-1	1253736	1317671	1273880	1281763	2.55	cps
Silver	107-1	603	587	447	546	15.77	cps
Silver	109-1	460	490	493	481	3.82	cps
Sodium	23-2	226531110	224120543	226490457	225714037	0.61	cps
Strontium	86-1	7729	7772	7725	7742	0.34	cps
Strontium	88-1	61916	61910	61883	61903	0.03	cps
Sulfur	34-1	137432	144640	151179	144417	4.76	cps
Terbium	159-1	4317903	4353447	4332248	4334533	0.41	cps
Terbium	159-2	3382094	3392478	3370922	3381832	0.32	cps
Thallium	203-1	720	583	633	646	10.71	cps
Thallium	205-1	1650	1617	1453	1573	6.69	cps
Tin	118-1	1960	1913	1927	1933	1.24	cps
Titanium	47-1	623	540	553	572	7.82	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 14:55:51	DataFile Name :	016CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	903	810	897	870	5.99	cps
Vanadium	51-2	773	650	723	716	8.67	cps
Yttrium	89-1	6124139	6113250	6203367	6146919	0.80	cps
Yttrium	89-2	1859552	1879362	1867243	1868719	0.53	cps
Zinc	66-2	12982	13102	13496	13194	2.04	cps
Zirconium	90-1	5454	5294	5304	5351	1.68	cps
Zirconium	91-1	993	1203	1123	1107	9.58	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	79474	77337	78292	78368	1.37	cps
Antimony	121-1	1180851	1175438	1176005	1177432	0.25	cps
Arsenic	75-2	82712	83949	83148	83270	0.75	cps
Barium	135-1	158683	158019	158319	158340	0.21	cps
Barium	137-1	275974	274645	276513	275711	0.35	cps
Beryllium	9-1	90455	91078	91397	90977	0.53	cps
Bismuth	209-1	2574091	2574342	2542685	2563706	0.71	cps
Bismuth	209-2	2562195	2498797	2515359	2525450	1.30	cps
Bromine	81-1	37264	36963	36208	36811	1.48	cps
Bromine	81-2	313	290	243	282	12.63	cps
Cadmium	108-1	19009	18388	18592	18663	1.70	cps
Cadmium	106-1	28922	29330	28218	28823	1.95	cps
Cadmium	111-1	192678	194858	195238	194258	0.71	cps
Calcium	43-1	45110	44030	43509	44216	1.85	cps
Calcium	44-1	661322	663736	657974	661011	0.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	293747	293208	295716	294224	0.45	cps
Cobalt	59-2	459370	459376	457098	458615	0.29	cps
Copper	63-2	316922	317921	319916	318253	0.48	cps
Dysprosium	156-1	7	20	17	14	48.02	cps
Dysprosium	156-2	30	10	10	17	69.28	cps
Erbium	164-1	30	20	20	23	24.74	cps
Erbium	164-2	23	27	30	27	12.51	cps
Gadolinium	160-1	33	10	10	18	75.77	cps
Gadolinium	160-2	217	180	223	207	11.29	cps
Holmium	165-1	4355171	4258769	4283475	4299138	1.16	cps
Holmium	165-2	3536873	3606643	3572273	3571930	0.98	cps
Indium	115-1	3715917	3710111	3664384	3696804	0.76	cps
Indium	115-2	1550887	1554771	1568969	1558209	0.61	cps
Iron	56-2	5375579	5323183	5318031	5338931	0.60	cps
Iron	57-2	140278	142300	140473	141017	0.79	cps
Iron	54-2	316985	318826	320439	318750	0.54	cps
Krypton	83-1	387	373	420	393	6.11	cps

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	899512	895668	892034	895738	0.42	cps
Lead	207-1	757626	752141	753983	754583	0.37	cps
Lead	208-1	3599448	3571259	3563194	3577967	0.53	cps
Lithium	6-1	470664	469358	463666	467896	0.80	cps
Magnesium	24-2	299038	297695	302312	299681	0.79	cps
Manganese	55-2	237279	239680	241153	239371	0.82	cps
Molybdenum	94-1	10998164	11090917	11117525	11068869	0.57	cps
Molybdenum	95-1	15770441	16055103	15889580	15905041	0.90	cps
Molybdenum	96-1	17169873	17436847	17390992	17332571	0.82	cps
Molybdenum	97-1	9792827	9819628	9930934	9847796	0.74	cps
Molybdenum	98-1	25404352	25261572	25368738	25344887	0.29	cps
Neodymium	150-1	17	10	17	14	26.66	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	119820	117630	118325	118592	0.94	cps
Phosphorus	31-2	200	223	267	230	14.71	cps
Potassium	39-2	773679	772484	782518	776227	0.71	cps
Rhodium	103-1	3486770	3478858	3531422	3499017	0.81	cps
Rhodium	103-2	2249199	2201283	2220671	2223718	1.08	cps
Scandium	45-1	2190262	2140190	2146118	2158857	1.27	cps
Scandium	45-2	206858	205879	209803	207513	0.98	cps
Selenium	82-1	30948	30668	30768	30795	0.46	cps
Selenium	77-2	3731	3861	3994	3862	3.41	cps
Selenium	78-2	13506	13780	13913	13733	1.51	cps
Silicon	28-1	2924921	3001593	3011859	2979458	1.59	cps
Silver	107-1	433241	438475	439417	437044	0.76	cps
Silver	109-1	414594	414903	414369	414622	0.06	cps
Sodium	23-2	834316	831447	832912	832892	0.17	cps
Strontium	86-1	1122580	1105357	1108796	1112244	0.82	cps
Strontium	88-1	9810691	9786787	9738860	9778779	0.37	cps
Sulfur	34-1	112876	111020	108951	110949	1.77	cps
Terbium	159-1	4508207	4383434	4482896	4458179	1.48	cps
Terbium	159-2	3543295	3451212	3516275	3503594	1.35	cps
Thallium	203-1	1094996	1095912	1094833	1095247	0.05	cps
Thallium	205-1	2732359	2667572	2723689	2707873	1.30	cps
Tin	118-1	2857307	2787188	2820969	2821821	1.24	cps
Titanium	47-1	4049852	4035330	4097655	4060945	0.80	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:23:39	DataFile Name :	019ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9125811	9060392	9065676	9083960	0.40	cps
Vanadium	51-2	245831	246592	244824	245749	0.36	cps
Yttrium	89-1	6328061	6192967	6290404	6270477	1.11	cps
Yttrium	89-2	1904280	1881068	1919821	1901723	1.03	cps
Zinc	66-2	125862	127186	127751	126933	0.76	cps
Zirconium	90-1	5760730	5765182	5692268	5739393	0.71	cps
Zirconium	91-1	1277458	1281493	1280415	1279788	0.16	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3744	3364	3354	3487	6.38	cps
Antimony	121-1	12179	12242	12139	12186	0.43	cps
Arsenic	75-2	463	420	480	454	6.82	cps
Barium	135-1	15826	15899	15595	15773	1.00	cps
Barium	137-1	27750	27627	27620	27666	0.27	cps
Beryllium	9-1	1023	893	1140	1019	12.11	cps
Bismuth	209-1	2530149	2484204	2454546	2489633	1.53	cps
Bismuth	209-2	2505939	2471789	2434381	2470703	1.45	cps
Bromine	81-1	37702	37421	37558	37560	0.37	cps
Bromine	81-2	253	203	277	244	15.33	cps
Cadmium	108-1	200	190	117	169	26.94	cps
Cadmium	106-1	1690	1540	1610	1613	4.65	cps
Cadmium	111-1	3043	2849	3049	2980	3.83	cps
Calcium	43-1	9907	10157	9790	9951	1.88	cps
Calcium	44-1	165115	166291	163844	165083	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6898	6551	6375	6608	4.03	cps
Cobalt	59-2	4894	5004	4904	4934	1.23	cps
Copper	63-2	9400	9586	9353	9446	1.31	cps
Dysprosium	156-1	13	7	7	9	43.25	cps
Dysprosium	156-2	7	0	7	4	86.60	cps
Erbium	164-1	20	40	50	37	41.66	cps
Erbium	164-2	23	23	30	26	15.07	cps
Gadolinium	160-1	20	23	17	20	16.65	cps
Gadolinium	160-2	187	190	147	174	13.82	cps
Holmium	165-1	4280253	4194470	4210521	4228415	1.08	cps
Holmium	165-2	3501911	3517238	3424839	3481330	1.42	cps
Indium	115-1	3655843	3651917	3675053	3660938	0.34	cps
Indium	115-2	1556972	1560503	1554676	1557384	0.19	cps
Iron	56-2	173967	174726	173721	174138	0.30	cps
Iron	57-2	4911	4801	4884	4865	1.18	cps
Iron	54-2	11161	11141	11461	11254	1.59	cps
Krypton	83-1	383	403	347	378	7.61	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5324	5408	5284	5339	1.18	cps
Lead	207-1	4794	4721	4808	4774	0.98	cps
Lead	208-1	21764	21674	21177	21538	1.47	cps
Lithium	6-1	469928	462951	459097	463992	1.18	cps
Magnesium	24-2	137454	137027	135047	136509	0.94	cps
Manganese	55-2	3670	3837	3817	3775	2.41	cps
Molybdenum	94-1	14134	13937	13937	14002	0.81	cps
Molybdenum	95-1	17220	17073	16453	16915	2.41	cps
Molybdenum	96-1	18802	18679	18422	18634	1.04	cps
Molybdenum	97-1	10450	10330	10450	10410	0.67	cps
Molybdenum	98-1	26955	26861	26431	26749	1.05	cps
Neodymium	150-1	3	3	3	3	0.00	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1380	1420	1317	1372	3.80	cps
Phosphorus	31-2	1460	1577	1677	1571	6.90	cps
Potassium	39-2	242382	243210	242143	242578	0.23	cps
Rhodium	103-1	3448329	3405186	3335919	3396478	1.67	cps
Rhodium	103-2	2237373	2186668	2218109	2214050	1.16	cps
Scandium	45-1	2123962	2122476	2099255	2115231	0.66	cps
Scandium	45-2	203525	200562	202774	202287	0.76	cps
Selenium	82-1	945	965	993	968	2.48	cps
Selenium	77-2	70	100	73	81	20.27	cps
Selenium	78-2	1350	1277	1167	1265	7.30	cps
Silicon	28-1	1255207	1257539	1260140	1257629	0.20	cps
Silver	107-1	9236	9390	9016	9214	2.04	cps
Silver	109-1	8813	8899	8596	8769	1.78	cps
Sodium	23-2	228649	227674	227733	228019	0.24	cps
Strontium	86-1	2900	2867	3064	2944	3.58	cps
Strontium	88-1	19817	19323	19530	19556	1.27	cps
Sulfur	34-1	116513	117145	117426	117028	0.40	cps
Terbium	159-1	4370046	4292892	4363249	4342062	0.98	cps
Terbium	159-2	3540816	3374133	3445842	3453597	2.42	cps
Thallium	203-1	6051	6018	5898	5989	1.35	cps
Thallium	205-1	14104	13760	13927	13931	1.23	cps
Tin	118-1	29360	28936	28178	28824	2.08	cps
Titanium	47-1	4364	4617	4374	4452	3.22	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P7
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:32:49	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17301	16974	16958	17078	1.14	cps
Vanadium	51-2	13323	12876	12705	12968	2.46	cps
Yttrium	89-1	6241335	6201085	6109028	6183816	1.10	cps
Yttrium	89-2	1875531	1879790	1879166	1878162	0.12	cps
Zinc	66-2	3727	3687	3847	3754	2.22	cps
Zirconium	90-1	12419	11531	12379	12110	4.14	cps
Zirconium	91-1	2804	2567	2637	2669	4.56	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	257	180	193	210	19.51	cps
Antimony	121-1	93	90	93	92	2.08	cps
Arsenic	75-2	13	33	27	24	41.66	cps
Barium	135-1	47	53	113	71	51.64	cps
Barium	137-1	123	117	117	119	3.24	cps
Beryllium	9-1	83	123	110	106	19.30	cps
Bismuth	209-1	2529844	2504787	2448667	2494433	1.67	cps
Bismuth	209-2	2408802	2334232	2489201	2410745	3.21	cps
Bromine	81-1	37023	36455	35830	36436	1.64	cps
Bromine	81-2	253	240	230	241	4.86	cps
Cadmium	108-1	3	10	3	6	69.34	cps
Cadmium	106-1	1503	1523	1443	1490	2.79	cps
Cadmium	111-1	1143	1143	1051	1113	4.76	cps
Calcium	43-1	357	403	393	384	6.39	cps
Calcium	44-1	9383	9657	9340	9460	1.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	643	683	573	633	8.79	cps
Cobalt	59-2	187	213	210	203	7.15	cps
Copper	63-2	2620	2797	2607	2675	3.97	cps
Dysprosium	156-1	7	17	7	10	57.72	cps
Dysprosium	156-2	3	0	10	4	114.60	cps
Erbium	164-1	30	20	27	26	19.92	cps
Erbium	164-2	40	23	23	29	33.32	cps
Gadolinium	160-1	30	17	17	21	36.45	cps
Gadolinium	160-2	203	213	193	203	4.92	cps
Holmium	165-1	4299240	4238563	4156878	4231560	1.69	cps
Holmium	165-2	3450022	3447963	3441672	3446552	0.13	cps
Indium	115-1	3670117	3708622	3653814	3677518	0.77	cps
Indium	115-2	1542167	1529894	1537603	1536555	0.40	cps
Iron	56-2	28661	27425	27515	27867	2.47	cps
Iron	57-2	1237	1350	1290	1292	4.39	cps
Iron	54-2	3127	3040	3020	3063	1.85	cps
Krypton	83-1	433	363	517	438	17.54	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1257	1173	1100	1177	6.66	cps
Lead	207-1	1047	1023	1120	1063	4.74	cps
Lead	208-1	4837	4820	4760	4806	0.84	cps
Lithium	6-1	461550	456874	452630	457018	0.98	cps
Magnesium	24-2	767	710	753	743	3.99	cps
Manganese	55-2	1217	1340	1197	1251	6.20	cps
Molybdenum	94-1	247	213	210	223	9.08	cps
Molybdenum	95-1	167	147	143	152	8.29	cps
Molybdenum	96-1	310	333	313	319	3.96	cps
Molybdenum	97-1	93	77	123	98	24.19	cps
Molybdenum	98-1	277	287	257	273	5.59	cps
Neodymium	150-1	3	3	0	2	86.60	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	257	207	297	253	17.80	cps
Phosphorus	31-2	313	243	263	273	13.19	cps
Potassium	39-2	56086	55146	55203	55478	0.95	cps
Rhodium	103-1	3435592	3480665	3408099	3441452	1.06	cps
Rhodium	103-2	2222564	2141268	2178071	2180635	1.87	cps
Scandium	45-1	2106528	2115161	2096775	2106155	0.44	cps
Scandium	45-2	199533	200062	199445	199680	0.17	cps
Selenium	82-1	125	207	78	137	47.66	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	890	830	923	881	5.37	cps
Silicon	28-1	1238743	1228089	1228467	1231766	0.49	cps
Silver	107-1	77	53	73	68	18.62	cps
Silver	109-1	40	57	47	48	17.56	cps
Sodium	23-2	15381	15701	15368	15483	1.22	cps
Strontium	86-1	790	683	690	721	8.29	cps
Strontium	88-1	197	207	147	183	17.53	cps
Sulfur	34-1	114783	113699	113709	114064	0.55	cps
Terbium	159-1	4294938	4352847	4294412	4314066	0.78	cps
Terbium	159-2	3380029	3417226	3487020	3428092	1.58	cps
Thallium	203-1	443	453	403	433	6.11	cps
Thallium	205-1	763	857	957	859	11.26	cps
Tin	118-1	1143	1130	1050	1108	4.56	cps
Titanium	47-1	63	100	83	82	22.33	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:36:11	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	343	390	410	381	8.98	cps
Vanadium	51-2	50	30	37	39	26.18	cps
Yttrium	89-1	6200172	6080874	6190847	6157298	1.08	cps
Yttrium	89-2	1846681	1845892	1828188	1840253	0.57	cps
Zinc	66-2	560	517	590	556	6.64	cps
Zirconium	90-1	333	330	310	324	3.89	cps
Zirconium	91-1	87	70	67	74	14.39	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14933757	14842585	14738734	14838359	0.66	cps
Antimony	121-1	7812	7949	7742	7834	1.34	cps
Arsenic	75-2	307	213	223	248	20.68	cps
Barium	135-1	2290	2654	2374	2439	7.80	cps
Barium	137-1	4294	4244	4167	4235	1.51	cps
Beryllium	9-1	437	313	337	362	18.09	cps
Bismuth	209-1	2363630	2458289	2407406	2409775	1.97	cps
Bismuth	209-2	2420951	2368797	2405925	2398558	1.12	cps
Bromine	81-1	38504	37337	39787	38543	3.18	cps
Bromine	81-2	417	477	423	439	7.49	cps
Cadmium	108-1	1090	923	950	988	9.06	cps
Cadmium	106-1	1413	1400	1360	1391	2.00	cps
Cadmium	111-1	1370	1514	1487	1457	5.26	cps
Calcium	43-1	1799036	1807735	1761389	1789387	1.38	cps
Calcium	44-1	29268281	29370311	28846120	29161571	0.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	58764	59199	57626	58530	1.39	cps
Cobalt	59-2	6028	5918	5641	5862	3.40	cps
Copper	63-2	37357	37988	38235	37860	1.20	cps
Dysprosium	156-1	37	33	27	32	15.80	cps
Dysprosium	156-2	27	20	27	24	15.75	cps
Erbium	164-1	70	30	40	47	44.61	cps
Erbium	164-2	47	60	27	44	37.74	cps
Gadolinium	160-1	20	60	43	41	48.87	cps
Gadolinium	160-2	210	180	170	187	11.15	cps
Holmium	165-1	4285400	4428850	4293293	4335847	1.86	cps
Holmium	165-2	3440128	3508412	3541791	3496777	1.48	cps
Indium	115-1	3644770	3680752	3626032	3650518	0.76	cps
Indium	115-2	1518432	1518785	1507815	1515011	0.41	cps
Iron	56-2	270988623	272303676	265719663	269670654	1.29	cps
Iron	57-2	6810887	6672191	6740090	6741056	1.03	cps
Iron	54-2	14913562	14687330	14757416	14786103	0.78	cps
Krypton	83-1	410	393	403	402	2.09	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21550	22749	22058	22119	2.72	cps
Lead	207-1	17121	17545	18002	17556	2.51	cps
Lead	208-1	81361	83844	82744	82650	1.50	cps
Lithium	6-1	450303	457118	450272	452564	0.87	cps
Magnesium	24-2	24942616	24863391	25278352	25028120	0.88	cps
Manganese	55-2	19549	20344	20010	19968	2.00	cps
Molybdenum	94-1	3639697	3634130	3635893	3636574	0.08	cps
Molybdenum	95-1	6491472	6498619	6563605	6517899	0.61	cps
Molybdenum	96-1	6977906	6797358	7074967	6950077	2.03	cps
Molybdenum	97-1	4018527	3976578	4018773	4004626	0.61	cps
Molybdenum	98-1	10261127	10253205	10244594	10252975	0.08	cps
Neodymium	150-1	30	23	27	27	12.51	cps
Neodymium	150-2	10	23	23	19	40.75	cps
Nickel	60-2	6695	6818	7352	6955	5.02	cps
Phosphorus	31-2	962855	959746	958375	960325	0.24	cps
Potassium	39-2	35695948	35367160	35606704	35556604	0.48	cps
Rhodium	103-1	3349340	3273669	3308496	3310502	1.14	cps
Rhodium	103-2	2155947	2119183	2119489	2131540	0.99	cps
Scandium	45-1	2097111	2108434	2095205	2100250	0.34	cps
Scandium	45-2	203609	201316	201366	202097	0.65	cps
Selenium	82-1	179	223	271	224	20.50	cps
Selenium	77-2	0	10	3	4	114.60	cps
Selenium	78-2	890	810	940	880	7.45	cps
Silicon	28-1	1238900	1248332	1254978	1247403	0.65	cps
Silver	107-1	313	350	347	337	6.02	cps
Silver	109-1	270	333	403	336	19.87	cps
Sodium	23-2	42939983	42414684	42614242	42656303	0.62	cps
Strontium	86-1	75429	74021	76136	75195	1.43	cps
Strontium	88-1	650546	652692	655541	652926	0.38	cps
Sulfur	34-1	2996913	3005979	2961280	2988057	0.79	cps
Terbium	159-1	4364319	4541086	4386307	4430571	2.17	cps
Terbium	159-2	3521270	3538920	3454724	3504971	1.27	cps
Thallium	203-1	813	950	1163	976	18.08	cps
Thallium	205-1	2034	2367	2734	2378	14.73	cps
Tin	118-1	2027	2180	2190	2132	4.29	cps
Titanium	47-1	1699938	1701081	1705297	1702105	0.17	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:44:38	DataFile Name :	024ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	760	753	660	724	7.72	cps
Vanadium	51-2	583	527	630	580	8.92	cps
Yttrium	89-1	6186152	6220941	6182354	6196482	0.34	cps
Yttrium	89-2	1858154	1847694	1818403	1841417	1.12	cps
Zinc	66-2	9353	9406	9006	9255	2.35	cps
Zirconium	90-1	527	623	507	552	11.30	cps
Zirconium	91-1	93	77	127	99	25.75	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15184546	14993050	15043246	15073614	0.66	cps
Antimony	121-1	128949	129618	128030	128865	0.62	cps
Arsenic	75-2	8486	8399	8502	8462	0.66	cps
Barium	135-1	35157	35691	35224	35357	0.82	cps
Barium	137-1	60374	61947	59838	60720	1.81	cps
Beryllium	9-1	18558	18167	18638	18454	1.36	cps
Bismuth	209-1	2516379	2429884	2489115	2478460	1.78	cps
Bismuth	209-2	2429433	2392610	2384889	2402310	0.99	cps
Bromine	81-1	38403	40803	41538	40248	4.07	cps
Bromine	81-2	660	590	687	646	7.73	cps
Cadmium	108-1	3907	3791	3801	3833	1.69	cps
Cadmium	106-1	5945	6145	6095	6061	1.72	cps
Cadmium	111-1	38758	39440	39014	39071	0.88	cps
Calcium	43-1	1886905	1873479	1844639	1868341	1.16	cps
Calcium	44-1	29492503	30294364	29749883	29845583	1.37	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	118162	117359	116280	117267	0.81	cps
Cobalt	59-2	97635	95605	96317	96519	1.07	cps
Copper	63-2	97898	98300	97679	97959	0.32	cps
Dysprosium	156-1	40	17	30	29	40.51	cps
Dysprosium	156-2	37	27	20	28	30.20	cps
Erbium	164-1	47	63	60	57	15.56	cps
Erbium	164-2	37	33	40	37	9.10	cps
Gadolinium	160-1	40	30	37	36	14.32	cps
Gadolinium	160-2	240	180	160	193	21.53	cps
Holmium	165-1	4459522	4412379	4406927	4426276	0.65	cps
Holmium	165-2	3595091	3538951	3563389	3565810	0.79	cps
Indium	115-1	3707825	3709507	3685481	3700938	0.36	cps
Indium	115-2	1527742	1517235	1513135	1519371	0.50	cps
Iron	56-2	272578909	276032049	274197423	274269460	0.63	cps
Iron	57-2	6891759	6705926	6775803	6791163	1.38	cps
Iron	54-2	14934587	14853197	14965104	14917629	0.39	cps
Krypton	83-1	397	397	450	414	7.43	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	112488	112047	112569	112368	0.25	cps
Lead	207-1	94338	95590	95744	95224	0.81	cps
Lead	208-1	439511	435999	439848	438453	0.49	cps
Lithium	6-1	459662	454898	461131	458564	0.71	cps
Magnesium	24-2	25332253	25177747	24946455	25152152	0.77	cps
Manganese	55-2	67263	66998	66041	66767	0.96	cps
Molybdenum	94-1	4030689	4163665	4041659	4078671	1.81	cps
Molybdenum	95-1	6766284	6884292	6806538	6819038	0.88	cps
Molybdenum	96-1	7304801	7360634	7380050	7348495	0.53	cps
Molybdenum	97-1	4246227	4338808	4218179	4267738	1.48	cps
Molybdenum	98-1	10631105	10996827	10597432	10741788	2.06	cps
Neodymium	150-1	27	37	43	36	23.58	cps
Neodymium	150-2	27	10	23	20	44.10	cps
Nickel	60-2	29449	29973	29209	29544	1.32	cps
Phosphorus	31-2	970731	974798	961190	968906	0.72	cps
Potassium	39-2	35933510	35392939	35188109	35504853	1.08	cps
Rhodium	103-1	3437399	3431539	3350691	3406543	1.42	cps
Rhodium	103-2	2138297	2153161	2151057	2147505	0.37	cps
Scandium	45-1	2138452	2149762	2146230	2144815	0.27	cps
Scandium	45-2	202840	201829	201911	202193	0.28	cps
Selenium	82-1	3200	3253	3154	3202	1.55	cps
Selenium	77-2	397	380	363	380	4.39	cps
Selenium	78-2	2087	1983	2120	2063	3.45	cps
Silicon	28-1	1451472	1454473	1452618	1452854	0.10	cps
Silver	107-1	172509	173704	173041	173085	0.35	cps
Silver	109-1	163657	165752	161693	163701	1.24	cps
Sodium	23-2	43455573	43141116	42803309	43133333	0.76	cps
Strontium	86-1	214013	216554	217632	216066	0.86	cps
Strontium	88-1	1867191	1909735	1893830	1890252	1.14	cps
Sulfur	34-1	3133734	3113265	3123312	3123437	0.33	cps
Terbium	159-1	4539283	4537011	4492829	4523041	0.58	cps
Terbium	159-2	3496559	3501666	3459005	3485743	0.67	cps
Thallium	203-1	115528	114994	115256	115259	0.23	cps
Thallium	205-1	268038	269292	269458	268929	0.29	cps
Tin	118-1	345899	349005	342696	345867	0.91	cps
Titanium	47-1	1813518	1815034	1794505	1807686	0.63	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:49:38	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1083043	1085543	1095708	1088098	0.62	cps
Vanadium	51-2	50605	50424	50160	50396	0.44	cps
Yttrium	89-1	6256104	6291203	6357193	6301500	0.81	cps
Yttrium	89-2	1890546	1844458	1877765	1870923	1.27	cps
Zinc	66-2	19733	19817	19466	19672	0.93	cps
Zirconium	90-1	708926	724215	721155	718099	1.13	cps
Zirconium	91-1	159199	161461	161181	160614	0.77	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7995604	7885584	7955976	7945722	0.70	cps
Antimony	121-1	2947786	2978425	2950719	2958977	0.57	cps
Arsenic	75-2	202654	203087	199392	201711	1.00	cps
Barium	135-1	4050386	4118024	4125044	4097818	1.01	cps
Barium	137-1	7086679	7120820	7066798	7091432	0.39	cps
Beryllium	9-1	435713	440302	433732	436582	0.77	cps
Bismuth	209-1	2406183	2398266	2366537	2390328	0.88	cps
Bismuth	209-2	2265876	2242591	2212825	2240430	1.19	cps
Bromine	81-1	37735	38868	39459	38687	2.27	cps
Bromine	81-2	227	283	293	268	13.43	cps
Cadmium	108-1	63127	65142	63682	63984	1.63	cps
Cadmium	106-1	90114	89990	91647	90583	1.02	cps
Cadmium	111-1	852815	868278	875731	865608	1.35	cps
Calcium	43-1	4534028	4465137	4499123	4499429	0.77	cps
Calcium	44-1	72593034	72532031	72586469	72570511	0.05	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1441998	1486551	1436423	1454991	1.89	cps
Cobalt	59-2	2274417	2237967	2245273	2252552	0.86	cps
Copper	63-2	16654451	16676319	16515059	16615276	0.53	cps
Dysprosium	156-1	163	103	133	133	22.50	cps
Dysprosium	156-2	323	340	273	312	11.11	cps
Erbium	164-1	170	193	173	179	7.06	cps
Erbium	164-2	123	147	137	136	8.63	cps
Gadolinium	160-1	117	110	157	128	19.75	cps
Gadolinium	160-2	277	263	247	262	5.73	cps
Holmium	165-1	4275297	4290262	4244377	4269978	0.55	cps
Holmium	165-2	3440738	3453682	3410523	3434981	0.64	cps
Indium	115-1	3674255	3591685	3557052	3607664	1.67	cps
Indium	115-2	1467128	1459375	1456273	1460925	0.38	cps
Iron	56-2	340633595	330788315	334514402	335312104	1.48	cps
Iron	57-2	8262833	8358410	8368162	8329802	0.70	cps
Iron	54-2	18448531	18301467	17935092	18228363	1.45	cps
Krypton	83-1	433	440	410	428	3.68	cps

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10855950	10914795	11195229	10988658	1.65	cps
Lead	207-1	9852082	9878653	10107485	9946073	1.41	cps
Lead	208-1	44721629	44884000	45122629	44909419	0.45	cps
Lithium	6-1	460206	455212	450678	455365	1.05	cps
Magnesium	24-2	67774334	67890692	67975401	67880142	0.15	cps
Manganese	55-2	13089054	12895173	13044418	13009548	0.78	cps
Molybdenum	94-1	11183066	11457538	11322310	11320971	1.21	cps
Molybdenum	95-1	16208907	16423730	16470753	16367797	0.85	cps
Molybdenum	96-1	17701917	18337357	17798781	17946018	1.91	cps
Molybdenum	97-1	10138398	10291801	10088095	10172765	1.04	cps
Molybdenum	98-1	26166872	26039722	26396440	26201011	0.69	cps
Neodymium	150-1	313	293	300	302	3.37	cps
Neodymium	150-2	70	83	93	82	14.24	cps
Nickel	60-2	568651	559907	559350	562636	0.93	cps
Phosphorus	31-2	98327	98819	97679	98275	0.58	cps
Potassium	39-2	45730814	45290006	45717131	45579317	0.55	cps
Rhodium	103-1	3337971	3232982	3183786	3251580	2.42	cps
Rhodium	103-2	2054710	2049027	2031413	2045050	0.59	cps
Scandium	45-1	2160020	2134024	2094925	2129656	1.54	cps
Scandium	45-2	205440	205403	207849	206231	0.68	cps
Selenium	82-1	69677	70320	69989	69996	0.46	cps
Selenium	77-2	8839	8836	8316	8664	3.48	cps
Selenium	78-2	28992	29947	29623	29521	1.65	cps
Silicon	28-1	6508322	6606713	6522068	6545701	0.81	cps
Silver	107-1	4533195	4525733	4514420	4524449	0.21	cps
Silver	109-1	4173893	4317094	4342153	4277713	2.12	cps
Sodium	23-2	108210285	106504555	106486728	107067190	0.92	cps
Strontium	86-1	1064276	1086397	1078416	1076363	1.04	cps
Strontium	88-1	9493224	9583759	9557237	9544740	0.49	cps
Sulfur	34-1	412844	417023	418167	416011	0.67	cps
Terbium	159-1	4573251	4363249	4450881	4462460	2.36	cps
Terbium	159-2	3474196	3443589	3346437	3421407	1.95	cps
Thallium	203-1	2864391	2868368	2878113	2870291	0.25	cps
Thallium	205-1	6637999	6634332	6720918	6664416	0.73	cps
Tin	118-1	2672826	2710314	2653306	2678815	1.08	cps
Titanium	47-1	4314907	4336414	4366436	4339252	0.60	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:55:06	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8796209	8835271	8863231	8831571	0.38	cps
Vanadium	51-2	1288215	1279234	1274446	1280632	0.55	cps
Yttrium	89-1	6241710	6284666	6181881	6236086	0.83	cps
Yttrium	89-2	1834649	1826846	1856966	1839487	0.85	cps
Zinc	66-2	3181587	3216597	3189604	3195930	0.57	cps
Zirconium	90-1	5715731	5772655	5697941	5728776	0.68	cps
Zirconium	91-1	1264316	1270757	1271258	1268777	0.31	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	347	357	430	378	12.04	cps
Antimony	121-1	540	430	543	504	12.79	cps
Arsenic	75-2	43	73	73	63	27.35	cps
Barium	135-1	87	107	97	97	10.34	cps
Barium	137-1	150	157	150	152	2.53	cps
Beryllium	9-1	137	110	107	118	13.96	cps
Bismuth	209-1	2632614	2451903	2515963	2533493	3.62	cps
Bismuth	209-2	2508397	2442737	2390029	2447055	2.42	cps
Bromine	81-1	36909	38092	37638	37547	1.59	cps
Bromine	81-2	240	230	267	246	7.72	cps
Cadmium	108-1	17	0	3	7	132.33	cps
Cadmium	106-1	1480	1460	1530	1490	2.42	cps
Cadmium	111-1	1134	1119	1142	1132	1.05	cps
Calcium	43-1	493	437	370	433	14.25	cps
Calcium	44-1	9897	9457	9306	9553	3.21	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	620	610	690	640	6.81	cps
Cobalt	59-2	167	200	230	199	15.93	cps
Copper	63-2	4821	4781	4804	4802	0.42	cps
Dysprosium	156-1	3	3	3	3	0.00	cps
Dysprosium	156-2	7	7	0	4	86.60	cps
Erbium	164-1	33	47	13	31	53.94	cps
Erbium	164-2	27	20	17	21	24.12	cps
Gadolinium	160-1	33	30	10	24	51.62	cps
Gadolinium	160-2	167	200	213	193	12.43	cps
Holmium	165-1	4476069	4193498	4275354	4314974	3.37	cps
Holmium	165-2	3481380	3526941	3415727	3474683	1.61	cps
Indium	115-1	3938440	3842483	3759944	3846956	2.32	cps
Indium	115-2	1553740	1555926	1546672	1552113	0.31	cps
Iron	56-2	30979	30778	31089	30949	0.51	cps
Iron	57-2	1250	1333	1340	1308	3.83	cps
Iron	54-2	3207	3314	3487	3336	4.24	cps
Krypton	83-1	350	450	367	389	13.78	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1223	1183	1227	1211	1.99	cps
Lead	207-1	1080	973	1033	1029	5.20	cps
Lead	208-1	4917	4614	4840	4790	3.29	cps
Lithium	6-1	472683	458348	454046	461692	2.11	cps
Magnesium	24-2	1083	1093	1150	1109	3.24	cps
Manganese	55-2	1410	1647	1500	1519	7.87	cps
Molybdenum	94-1	400	377	317	364	11.80	cps
Molybdenum	95-1	450	363	403	406	10.70	cps
Molybdenum	96-1	610	700	513	608	15.36	cps
Molybdenum	97-1	317	223	230	257	20.29	cps
Molybdenum	98-1	717	647	500	621	17.80	cps
Neodymium	150-1	10	0	3	4	114.60	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	257	303	313	291	10.39	cps
Phosphorus	31-2	290	267	207	254	16.90	cps
Potassium	39-2	61497	60824	61132	61151	0.55	cps
Rhodium	103-1	3570092	3463611	3429030	3487578	2.11	cps
Rhodium	103-2	2233880	2221513	2230776	2228723	0.29	cps
Scandium	45-1	2231393	2134500	2127732	2164542	2.68	cps
Scandium	45-2	203008	202400	202180	202529	0.21	cps
Selenium	82-1	212	202	204	206	2.55	cps
Selenium	77-2	13	17	3	11	62.48	cps
Selenium	78-2	1017	880	893	930	8.10	cps
Silicon	28-1	1268008	1261663	1283494	1271055	0.88	cps
Silver	107-1	157	157	207	173	16.65	cps
Silver	109-1	150	127	133	137	8.79	cps
Sodium	23-2	20514	20504	20607	20542	0.28	cps
Strontium	86-1	697	697	743	712	3.78	cps
Strontium	88-1	353	360	340	351	2.90	cps
Sulfur	34-1	120218	122129	121007	121118	0.79	cps
Terbium	159-1	4631272	4360076	4382026	4457791	3.38	cps
Terbium	159-2	3397717	3487753	3451701	3445723	1.32	cps
Thallium	203-1	733	697	727	719	2.72	cps
Thallium	205-1	1747	1673	1687	1702	2.30	cps
Tin	118-1	1260	1180	1267	1236	3.90	cps
Titanium	47-1	87	123	77	96	25.71	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 15:58:03	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	433	453	387	424	8.06	cps
Vanadium	51-2	70	53	37	53	31.25	cps
Yttrium	89-1	6517002	6275112	6058769	6283628	3.65	cps
Yttrium	89-2	1859515	1881335	1885336	1875395	0.74	cps
Zinc	66-2	580	530	530	547	5.28	cps
Zirconium	90-1	463	433	510	469	8.24	cps
Zirconium	91-1	120	110	143	124	13.75	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3504	3530	3430	3488	1.48	cps
Antimony	121-1	12739	12586	12469	12598	1.08	cps
Arsenic	75-2	570	427	590	529	16.84	cps
Barium	135-1	16109	16273	16206	16196	0.51	cps
Barium	137-1	27487	28960	28809	28418	2.85	cps
Beryllium	9-1	1083	1140	1110	1111	2.55	cps
Bismuth	209-1	2560147	2545474	2569161	2558260	0.47	cps
Bismuth	209-2	2499292	2518932	2507222	2508482	0.39	cps
Bromine	81-1	38226	39329	39152	38902	1.52	cps
Bromine	81-2	277	163	213	218	26.08	cps
Cadmium	108-1	133	150	110	131	15.32	cps
Cadmium	106-1	1663	1800	1733	1732	3.95	cps
Cadmium	111-1	2948	3155	3083	3062	3.44	cps
Calcium	43-1	9570	10430	10107	10036	4.33	cps
Calcium	44-1	164388	168181	169017	167195	1.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6715	6802	6635	6717	1.24	cps
Cobalt	59-2	5091	4991	5368	5150	3.79	cps
Copper	63-2	11104	11034	11014	11051	0.43	cps
Dysprosium	156-1	7	3	3	4	43.40	cps
Dysprosium	156-2	10	17	0	9	94.38	cps
Erbium	164-1	17	10	33	20	60.08	cps
Erbium	164-2	20	17	20	19	10.18	cps
Gadolinium	160-1	20	17	17	18	10.81	cps
Gadolinium	160-2	193	207	207	202	3.81	cps
Holmium	165-1	4378638	4391505	4279148	4349764	1.41	cps
Holmium	165-2	3535386	3606853	3588553	3576930	1.04	cps
Indium	115-1	3849027	3842987	3762852	3818288	1.26	cps
Indium	115-2	1578151	1586978	1585700	1583610	0.30	cps
Iron	56-2	177335	174392	176500	176076	0.86	cps
Iron	57-2	5001	5258	4864	5041	3.96	cps
Iron	54-2	11301	11298	11164	11254	0.69	cps
Krypton	83-1	383	383	413	393	4.40	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5088	5301	5314	5234	2.43	cps
Lead	207-1	4594	4991	4491	4692	5.63	cps
Lead	208-1	20470	21213	21047	20910	1.87	cps
Lithium	6-1	479617	467724	463196	470179	1.80	cps
Magnesium	24-2	136890	135328	136146	136121	0.57	cps
Manganese	55-2	3967	3851	3884	3901	1.54	cps
Molybdenum	94-1	13930	14364	14160	14151	1.53	cps
Molybdenum	95-1	16920	17184	16813	16972	1.12	cps
Molybdenum	96-1	18151	19169	18292	18537	2.98	cps
Molybdenum	97-1	10220	10584	10270	10358	1.90	cps
Molybdenum	98-1	26624	27523	26434	26860	2.16	cps
Neodymium	150-1	3	0	0	1	173.21	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	1303	1450	1163	1306	10.98	cps
Phosphorus	31-2	1567	1450	1533	1517	3.96	cps
Potassium	39-2	248219	247648	248907	248258	0.25	cps
Rhodium	103-1	3632429	3579776	3516264	3576156	1.63	cps
Rhodium	103-2	2253129	2255325	2224959	2244471	0.75	cps
Scandium	45-1	2213693	2225115	2159613	2199474	1.59	cps
Scandium	45-2	204234	207004	206167	205802	0.69	cps
Selenium	82-1	930	922	965	939	2.41	cps
Selenium	77-2	123	100	100	108	12.50	cps
Selenium	78-2	1260	1253	1293	1269	1.69	cps
Silicon	28-1	1271869	1248922	1275897	1265563	1.15	cps
Silver	107-1	9470	9660	9403	9511	1.40	cps
Silver	109-1	8806	9043	9093	8981	1.71	cps
Sodium	23-2	233054	229320	228377	230250	1.07	cps
Strontium	86-1	2884	2784	2880	2849	1.99	cps
Strontium	88-1	19506	20247	20478	20077	2.53	cps
Sulfur	34-1	127577	128185	127362	127708	0.33	cps
Terbium	159-1	4508977	4558473	4465715	4511055	1.03	cps
Terbium	159-2	3493893	3523297	3522359	3513183	0.48	cps
Thallium	203-1	6055	6215	6141	6137	1.31	cps
Thallium	205-1	14898	14865	14561	14775	1.26	cps
Tin	118-1	28665	29263	28952	28960	1.03	cps
Titanium	47-1	4131	4591	4527	4416	5.65	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:01:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16964	17535	16988	17162	1.88	cps
Vanadium	51-2	13022	13129	12749	12967	1.51	cps
Yttrium	89-1	6530956	6332854	6452869	6438893	1.55	cps
Yttrium	89-2	1924380	1879345	1907485	1903737	1.20	cps
Zinc	66-2	3894	3761	3777	3811	1.91	cps
Zirconium	90-1	12269	11992	11815	12025	1.90	cps
Zirconium	91-1	2454	2620	2744	2606	5.59	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	114500	112690	112827	113339	0.89	cps
Antimony	121-1	457	457	453	456	0.42	cps
Arsenic	75-2	270	227	287	261	11.86	cps
Barium	135-1	21680	20966	21163	21269	1.73	cps
Barium	137-1	36594	36787	36764	36715	0.29	cps
Beryllium	9-1	317	390	347	351	10.50	cps
Bismuth	209-1	2643303	2585516	2570190	2599670	1.48	cps
Bismuth	209-2	2530958	2534975	2519272	2528402	0.32	cps
Bromine	81-1	40776	40990	40445	40737	0.67	cps
Bromine	81-2	563	657	733	651	13.08	cps
Cadmium	108-1	13	7	10	10	33.30	cps
Cadmium	106-1	1663	1520	1670	1618	5.24	cps
Cadmium	111-1	1288	1159	1279	1242	5.79	cps
Calcium	43-1	18351	17994	18011	18119	1.11	cps
Calcium	44-1	293274	294983	292801	293686	0.39	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16823	16853	17263	16980	1.45	cps
Cobalt	59-2	4691	4694	4424	4603	3.37	cps
Copper	63-2	18835	18191	18695	18574	1.82	cps
Dysprosium	156-1	16506	16897	16847	16750	1.27	cps
Dysprosium	156-2	15268	15405	15442	15372	0.59	cps
Erbium	164-1	13063	13070	12996	13043	0.31	cps
Erbium	164-2	10104	10484	10190	10259	1.94	cps
Gadolinium	160-1	17047	16587	16917	16850	1.41	cps
Gadolinium	160-2	14361	14257	14641	14420	1.38	cps
Holmium	165-1	4476431	4447932	4455557	4459973	0.33	cps
Holmium	165-2	3577801	3616690	3582643	3592378	0.59	cps
Indium	115-1	3872431	3857347	3851962	3860580	0.27	cps
Indium	115-2	1599829	1607022	1588751	1598534	0.58	cps
Iron	56-2	3744532	3758333	3655595	3719487	1.50	cps
Iron	57-2	95427	94230	93358	94338	1.10	cps
Iron	54-2	210072	207673	206323	208023	0.91	cps
Krypton	83-1	443	497	390	443	12.03	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10064	10057	9980	10034	0.46	cps
Lead	207-1	7826	8523	8236	8195	4.28	cps
Lead	208-1	38529	39002	38201	38577	1.04	cps
Lithium	6-1	479594	472153	471130	474292	0.97	cps
Magnesium	24-2	56748	56453	56637	56613	0.26	cps
Manganese	55-2	50775	50969	50297	50680	0.68	cps
Molybdenum	94-1	5664	5508	5258	5477	3.75	cps
Molybdenum	95-1	3991	3971	3894	3952	1.29	cps
Molybdenum	96-1	5008	4854	5001	4954	1.75	cps
Molybdenum	97-1	2567	2520	2464	2517	2.06	cps
Molybdenum	98-1	6148	6428	6435	6337	2.58	cps
Neodymium	150-1	25516	24872	25406	25265	1.36	cps
Neodymium	150-2	18479	17982	17855	18105	1.82	cps
Nickel	60-2	3020	2964	2930	2971	1.53	cps
Phosphorus	31-2	663	623	773	687	11.31	cps
Potassium	39-2	184877	184928	184780	184862	0.04	cps
Rhodium	103-1	3551722	3553319	3526159	3543733	0.43	cps
Rhodium	103-2	2298377	2261972	2246883	2269077	1.17	cps
Scandium	45-1	2201431	2198054	2225605	2208363	0.68	cps
Scandium	45-2	209313	209583	208309	209068	0.32	cps
Selenium	82-1	191	147	248	195	26.10	cps
Selenium	77-2	57	60	47	54	12.74	cps
Selenium	78-2	893	877	820	863	4.45	cps
Silicon	28-1	7466427	7446842	7427644	7446971	0.26	cps
Silver	107-1	177	130	183	163	17.79	cps
Silver	109-1	133	137	163	144	11.38	cps
Sodium	23-2	1402221	1392747	1404439	1399802	0.44	cps
Strontium	86-1	27549	27512	26230	27097	2.77	cps
Strontium	88-1	233061	230791	227910	230587	1.12	cps
Sulfur	34-1	149866	149089	147995	148983	0.63	cps
Terbium	159-1	4515793	4511362	4486013	4504389	0.36	cps
Terbium	159-2	3544271	3598312	3630815	3591133	1.22	cps
Thallium	203-1	650	613	703	656	6.90	cps
Thallium	205-1	1587	1580	1443	1537	5.26	cps
Tin	118-1	1767	1760	1867	1798	3.32	cps
Titanium	47-1	10143	9797	9683	9874	2.43	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:04:41	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15276	15639	15229	15381	1.46	cps
Vanadium	51-2	50979	50270	49585	50278	1.39	cps
Yttrium	89-1	6562109	6706985	6616036	6628377	1.10	cps
Yttrium	89-2	1981639	1961114	2012399	1985051	1.30	cps
Zinc	66-2	4737	4547	4391	4559	3.81	cps
Zirconium	90-1	8319	8179	8486	8328	1.84	cps
Zirconium	91-1	1713	1987	1833	1845	7.43	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	136435	136242	135428	136035	0.39	cps
Antimony	121-1	363	440	450	418	11.35	cps
Arsenic	75-2	283	300	267	283	5.88	cps
Barium	135-1	21603	23660	23763	23009	5.29	cps
Barium	137-1	37079	40685	41437	39733	5.86	cps
Beryllium	9-1	410	407	350	389	8.67	cps
Bismuth	209-1	2992766	2595444	2682625	2756945	7.57	cps
Bismuth	209-2	2641397	2591926	2567160	2600161	1.45	cps
Bromine	81-1	39934	40773	41151	40619	1.53	cps
Bromine	81-2	673	697	720	697	3.35	cps
Cadmium	108-1	17	27	10	18	47.19	cps
Cadmium	106-1	1980	1537	1650	1722	13.37	cps
Cadmium	111-1	1451	1157	1241	1283	11.80	cps
Calcium	43-1	17951	19483	19927	19120	5.42	cps
Calcium	44-1	293727	320171	326264	313387	5.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20310	20371	19620	20100	2.08	cps
Cobalt	59-2	5214	5114	4928	5085	2.86	cps
Copper	63-2	19633	19723	19389	19582	0.88	cps
Dysprosium	156-1	16890	18048	18232	17724	4.10	cps
Dysprosium	156-2	17418	17171	16567	17052	2.57	cps
Erbium	164-1	13540	14644	14341	14175	4.02	cps
Erbium	164-2	11792	11542	11562	11632	1.20	cps
Gadolinium	160-1	17571	18015	19040	18209	4.14	cps
Gadolinium	160-2	15505	15742	15993	15747	1.55	cps
Holmium	165-1	5102746	4617402	4544238	4754795	6.38	cps
Holmium	165-2	3738273	3664194	3622732	3675067	1.59	cps
Indium	115-1	4500517	4062271	3983851	4182213	6.66	cps
Indium	115-2	1684100	1653240	1638104	1658482	1.41	cps
Iron	56-2	4280041	4280747	4320845	4293878	0.54	cps
Iron	57-2	109636	110466	110197	110099	0.38	cps
Iron	54-2	245778	244366	242687	244277	0.63	cps
Krypton	83-1	387	407	433	409	5.72	cps

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9760	11018	11065	10614	6.97	cps
Lead	207-1	8086	8793	8946	8608	5.33	cps
Lead	208-1	37968	41144	41425	40179	4.78	cps
Lithium	6-1	557272	499432	488569	515091	7.17	cps
Magnesium	24-2	62640	63414	61780	62611	1.31	cps
Manganese	55-2	54696	55525	54997	55073	0.76	cps
Molybdenum	94-1	5138	5761	5735	5544	6.36	cps
Molybdenum	95-1	3150	3177	3234	3187	1.34	cps
Molybdenum	96-1	4071	4384	4437	4297	4.61	cps
Molybdenum	97-1	1913	2017	2120	2017	5.12	cps
Molybdenum	98-1	5068	5218	5468	5251	3.85	cps
Neodymium	150-1	25293	27480	28205	26993	5.62	cps
Neodymium	150-2	19794	20021	19777	19864	0.69	cps
Nickel	60-2	3240	3304	3350	3298	1.67	cps
Phosphorus	31-2	753	747	730	743	1.62	cps
Potassium	39-2	196103	195792	194479	195458	0.44	cps
Rhodium	103-1	4154375	3725154	3716066	3865198	6.48	cps
Rhodium	103-2	2400875	2344608	2338433	2361305	1.46	cps
Scandium	45-1	2593291	2319751	2370076	2427706	6.00	cps
Scandium	45-2	216504	215744	217197	216482	0.34	cps
Selenium	82-1	268	266	179	238	21.36	cps
Selenium	77-2	77	90	63	77	17.39	cps
Selenium	78-2	1013	940	943	966	4.29	cps
Silicon	28-1	7618105	8377775	8299543	8098474	5.16	cps
Silver	107-1	133	170	147	150	12.37	cps
Silver	109-1	120	137	90	116	20.47	cps
Sodium	23-2	1527276	1534480	1469229	1510328	2.37	cps
Strontium	86-1	27476	29580	30067	29041	4.74	cps
Strontium	88-1	230837	253951	258430	247739	5.98	cps
Sulfur	34-1	141928	144294	145750	143991	1.34	cps
Terbium	159-1	5189550	4769959	4711919	4890476	5.33	cps
Terbium	159-2	3733750	3574333	3649272	3652452	2.18	cps
Thallium	203-1	650	597	667	638	5.73	cps
Thallium	205-1	1480	1520	1530	1510	1.75	cps
Tin	118-1	1893	1790	1977	1887	4.96	cps
Titanium	47-1	10884	11638	12325	11616	6.21	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:09:32	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15559	15809	16323	15897	2.45	cps
Vanadium	51-2	56686	56703	55816	56402	0.90	cps
Yttrium	89-1	7569556	7048757	6810976	7143096	5.43	cps
Yttrium	89-2	2079141	2059061	2019720	2052641	1.47	cps
Zinc	66-2	4838	4994	4774	4869	2.33	cps
Zirconium	90-1	8939	9760	9807	9502	5.13	cps
Zirconium	91-1	1953	2094	2270	2106	7.54	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	23401	23054	22887	23114	1.13	cps
Antimony	121-1	117	143	127	129	10.45	cps
Arsenic	75-2	147	87	83	106	33.77	cps
Barium	135-1	4417	4134	3974	4175	5.38	cps
Barium	137-1	7429	7212	7192	7277	1.80	cps
Beryllium	9-1	130	173	127	143	18.16	cps
Bismuth	209-1	2483246	2493111	2440103	2472153	1.14	cps
Bismuth	209-2	2448469	2418952	2489844	2452422	1.45	cps
Bromine	81-1	39239	39102	38761	39034	0.63	cps
Bromine	81-2	363	370	280	338	14.85	cps
Cadmium	108-1	17	17	10	14	26.66	cps
Cadmium	106-1	1573	1357	1537	1489	7.79	cps
Cadmium	111-1	1150	991	1155	1099	8.47	cps
Calcium	43-1	3714	3897	3724	3778	2.73	cps
Calcium	44-1	64463	64965	64714	64714	0.39	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3887	3927	3771	3862	2.11	cps
Cobalt	59-2	1033	1087	923	1014	8.21	cps
Copper	63-2	6682	6388	6531	6534	2.25	cps
Dysprosium	156-1	3287	3140	3240	3223	2.33	cps
Dysprosium	156-2	2920	2917	2974	2937	1.08	cps
Erbium	164-1	2537	2504	2487	2509	1.01	cps
Erbium	164-2	1847	2170	2320	2112	11.45	cps
Gadolinium	160-1	3354	3067	3360	3260	5.14	cps
Gadolinium	160-2	2840	2880	3054	2925	3.88	cps
Holmium	165-1	4276117	4203067	4235932	4238372	0.86	cps
Holmium	165-2	3459172	3412868	3432236	3434759	0.68	cps
Indium	115-1	3778497	3676666	3686460	3713875	1.51	cps
Indium	115-2	1548326	1551471	1550528	1550109	0.10	cps
Iron	56-2	775665	775020	773883	774856	0.12	cps
Iron	57-2	19570	20297	20157	20008	1.93	cps
Iron	54-2	44943	43797	43994	44245	1.39	cps
Krypton	83-1	427	437	407	423	3.61	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2734	2667	2660	2687	1.51	cps
Lead	207-1	2444	2317	2217	2326	4.88	cps
Lead	208-1	10875	10342	10505	10574	2.59	cps
Lithium	6-1	457517	455299	451119	454645	0.71	cps
Magnesium	24-2	11488	11791	11921	11733	1.90	cps
Manganese	55-2	11191	11017	10997	11069	0.96	cps
Molybdenum	94-1	1083	1153	1210	1149	5.52	cps
Molybdenum	95-1	773	680	893	782	13.67	cps
Molybdenum	96-1	993	1153	1133	1093	7.97	cps
Molybdenum	97-1	500	527	510	512	2.63	cps
Molybdenum	98-1	1200	1337	1167	1235	7.30	cps
Neodymium	150-1	5368	4988	4974	5110	4.37	cps
Neodymium	150-2	3257	3384	3454	3365	2.96	cps
Nickel	60-2	803	883	773	820	6.93	cps
Phosphorus	31-2	273	313	383	323	17.22	cps
Potassium	39-2	83487	82304	82184	82658	0.87	cps
Rhodium	103-1	3448347	3472506	3463032	3461295	0.35	cps
Rhodium	103-2	2151568	2191704	2226443	2189905	1.71	cps
Scandium	45-1	2146286	2136953	2152340	2145193	0.36	cps
Scandium	45-2	202433	200931	203166	202177	0.56	cps
Selenium	82-1	193	181	174	182	5.42	cps
Selenium	77-2	10	10	13	11	17.30	cps
Selenium	78-2	823	953	1017	931	10.59	cps
Silicon	28-1	2517788	2460407	2494004	2490733	1.16	cps
Silver	107-1	57	77	90	74	22.53	cps
Silver	109-1	57	67	57	60	9.62	cps
Sodium	23-2	268287	267695	269409	268464	0.32	cps
Strontium	86-1	6005	5524	5805	5778	4.17	cps
Strontium	88-1	45918	45855	44835	45536	1.34	cps
Sulfur	34-1	116876	117544	116607	117009	0.41	cps
Terbium	159-1	4397292	4414698	4274941	4362310	1.75	cps
Terbium	159-2	3418146	3442782	3428643	3429857	0.36	cps
Thallium	203-1	443	510	460	471	7.36	cps
Thallium	205-1	1007	1020	1067	1031	3.06	cps
Tin	118-1	1170	1130	1130	1143	2.02	cps
Titanium	47-1	2047	1997	2160	2068	4.05	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01LDLX25	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	25
Date & Time Acquired :	2025-03-24 16:12:46	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3144	3234	3167	3182	1.47	cps
Vanadium	51-2	9827	9840	9947	9871	0.67	cps
Yttrium	89-1	6328942	6309461	6348569	6328990	0.31	cps
Yttrium	89-2	1893993	1899209	1852918	1882040	1.35	cps
Zinc	66-2	1233	1223	1217	1225	0.69	cps
Zirconium	90-1	2180	2014	1990	2061	5.03	cps
Zirconium	91-1	467	467	460	464	0.83	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	402143	397661	391787	397197	1.31	cps
Antimony	121-1	569447	580452	572338	574079	0.99	cps
Arsenic	75-2	237	270	297	268	11.23	cps
Barium	135-1	692514	698233	694236	694994	0.42	cps
Barium	137-1	1207805	1219680	1213914	1213800	0.49	cps
Beryllium	9-1	84132	84019	85591	84581	1.04	cps
Bismuth	209-1	2508182	2497257	2543320	2516253	0.96	cps
Bismuth	209-2	2405305	2365091	2363348	2377915	1.00	cps
Bromine	81-1	39590	40663	39142	39798	1.96	cps
Bromine	81-2	897	917	997	937	5.65	cps
Cadmium	108-1	12939	13053	12786	12926	1.04	cps
Cadmium	106-1	19553	19436	19336	19442	0.56	cps
Cadmium	111-1	174794	176846	175490	175710	0.59	cps
Calcium	43-1	196027	194774	197801	196200	0.78	cps
Calcium	44-1	3021375	3035896	3067329	3041533	0.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	280241	280746	277929	279639	0.54	cps
Cobalt	59-2	425522	421004	416405	420977	1.08	cps
Copper	63-2	2939725	2963544	2851490	2918253	2.02	cps
Dysprosium	156-1	18756	18819	18936	18837	0.49	cps
Dysprosium	156-2	16940	17010	17054	17001	0.34	cps
Erbium	164-1	15335	14858	14544	14912	2.67	cps
Erbium	164-2	11889	11542	11735	11722	1.48	cps
Gadolinium	160-1	19864	19871	19283	19673	1.71	cps
Gadolinium	160-2	15729	16500	15756	15995	2.74	cps
Holmium	165-1	4266318	4284771	4263936	4271675	0.27	cps
Holmium	165-2	3461116	3317953	3377983	3385684	2.12	cps
Indium	115-1	3715111	3689613	3661215	3688646	0.73	cps
Indium	115-2	1528200	1524954	1511361	1521505	0.59	cps
Iron	56-2	15246626	15149103	15033086	15142938	0.71	cps
Iron	57-2	395567	395473	394755	395265	0.11	cps
Iron	54-2	884653	879656	865557	876622	1.13	cps
Krypton	83-1	490	423	443	452	7.57	cps

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2155198	2119010	2092609	2122273	1.48	cps
Lead	207-1	1952954	1921091	1928389	1934144	0.86	cps
Lead	208-1	8802809	8698076	8733390	8744758	0.61	cps
Lithium	6-1	455682	460318	460492	458831	0.59	cps
Magnesium	24-2	2534243	2456594	2493824	2494887	1.56	cps
Manganese	55-2	2239181	2251424	2282703	2257769	0.99	cps
Molybdenum	94-1	2092500	2121842	2137840	2117394	1.09	cps
Molybdenum	95-1	3040820	3117509	3107495	3088608	1.35	cps
Molybdenum	96-1	3290212	3339957	3294496	3308221	0.83	cps
Molybdenum	97-1	1860411	1877336	1888633	1875460	0.76	cps
Molybdenum	98-1	4831070	4910972	4948228	4896757	1.22	cps
Neodymium	150-1	29751	29711	29601	29688	0.26	cps
Neodymium	150-2	20074	20024	19968	20022	0.27	cps
Nickel	60-2	109086	109523	107922	108843	0.76	cps
Phosphorus	31-2	697	663	683	681	2.46	cps
Potassium	39-2	1705832	1695443	1679135	1693470	0.79	cps
Rhodium	103-1	3460997	3476436	3455295	3464243	0.32	cps
Rhodium	103-2	2123855	2149245	2126190	2133096	0.66	cps
Scandium	45-1	2173347	2124270	2157021	2151546	1.16	cps
Scandium	45-2	204349	201900	201644	202631	0.74	cps
Selenium	82-1	14514	14825	14608	14649	1.09	cps
Selenium	77-2	1943	1850	1767	1853	4.77	cps
Selenium	78-2	6845	6632	6838	6772	1.79	cps
Silicon	28-1	7555738	7524141	7445855	7508578	0.75	cps
Silver	107-1	125238	127776	126089	126368	1.02	cps
Silver	109-1	118866	120244	118610	119240	0.74	cps
Sodium	23-2	5247003	5169909	5136112	5184342	1.10	cps
Strontium	86-1	274050	274747	272395	273731	0.44	cps
Strontium	88-1	2387502	2413805	2381312	2394206	0.72	cps
Sulfur	34-1	143758	146137	147763	145886	1.38	cps
Terbium	159-1	4403206	4419918	4416745	4413290	0.20	cps
Terbium	159-2	3399726	3363073	3422296	3395032	0.88	cps
Thallium	203-1	505483	509496	512862	509281	0.73	cps
Thallium	205-1	1185832	1196109	1204245	1195395	0.77	cps
Tin	118-1	459949	465249	464675	463291	0.63	cps
Titanium	47-1	504933	510118	504521	506524	0.62	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:16:07	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1531313	1547997	1546787	1542032	0.60	cps
Vanadium	51-2	292663	285688	286242	288197	1.35	cps
Yttrium	89-1	6427145	6357389	6354813	6379782	0.64	cps
Yttrium	89-2	1910789	1880077	1908360	1899742	0.90	cps
Zinc	66-2	602602	596073	597132	598602	0.59	cps
Zirconium	90-1	1044598	1066859	1055780	1055746	1.05	cps
Zirconium	91-1	238639	239223	238860	238907	0.12	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	403234	400469	398460	400721	0.60	cps
Antimony	121-1	576206	571115	577818	575046	0.61	cps
Arsenic	75-2	323	280	330	311	8.73	cps
Barium	135-1	691703	695449	698318	695157	0.48	cps
Barium	137-1	1203027	1201639	1199369	1201345	0.15	cps
Beryllium	9-1	85219	87994	85524	86245	1.76	cps
Bismuth	209-1	2518217	2471171	2477752	2489047	1.02	cps
Bismuth	209-2	2386470	2376073	2433113	2398552	1.27	cps
Bromine	81-1	37391	37631	37478	37500	0.32	cps
Bromine	81-2	827	947	923	899	7.08	cps
Cadmium	108-1	12469	12469	12719	12552	1.15	cps
Cadmium	106-1	19463	18872	19123	19153	1.55	cps
Cadmium	111-1	177682	176775	175072	176510	0.75	cps
Calcium	43-1	194220	195557	192997	194258	0.66	cps
Calcium	44-1	3076798	3042474	2994710	3037994	1.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	285729	285358	286085	285724	0.13	cps
Cobalt	59-2	427449	427224	424972	426548	0.32	cps
Copper	63-2	2995273	2916342	2968544	2960053	1.36	cps
Dysprosium	156-1	18966	19644	19437	19349	1.79	cps
Dysprosium	156-2	17454	17294	17468	17405	0.55	cps
Erbium	164-1	14811	14684	14404	14633	1.42	cps
Erbium	164-2	11538	11955	11932	11808	1.98	cps
Gadolinium	160-1	19597	19904	19260	19587	1.64	cps
Gadolinium	160-2	16326	15896	16119	16114	1.34	cps
Holmium	165-1	4200036	4173443	4294779	4222753	1.51	cps
Holmium	165-2	3497660	3413745	3491541	3467649	1.35	cps
Indium	115-1	3685044	3645349	3692871	3674421	0.69	cps
Indium	115-2	1523775	1512703	1506646	1514375	0.57	cps
Iron	56-2	15658528	15337618	15334706	15443617	1.21	cps
Iron	57-2	396747	397548	396633	396976	0.13	cps
Iron	54-2	877932	875313	881864	878370	0.38	cps
Krypton	83-1	467	410	407	428	7.88	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2138654	2175825	2113322	2142601	1.47	cps
Lead	207-1	1914728	1972608	1921173	1936169	1.64	cps
Lead	208-1	8675971	8776663	8639788	8697474	0.82	cps
Lithium	6-1	455176	459036	459687	457967	0.53	cps
Magnesium	24-2	2551901	2489686	2517469	2519685	1.24	cps
Manganese	55-2	2307125	2276342	2259069	2280845	1.07	cps
Molybdenum	94-1	2129319	2148042	2109446	2128936	0.91	cps
Molybdenum	95-1	3110379	3057850	2990421	3052883	1.97	cps
Molybdenum	96-1	3360242	3358847	3225729	3314939	2.33	cps
Molybdenum	97-1	1909768	1889181	1862778	1887243	1.25	cps
Molybdenum	98-1	4827635	4769475	4834948	4810686	0.75	cps
Neodymium	150-1	29908	29090	29364	29454	1.41	cps
Neodymium	150-2	20912	20639	20428	20660	1.17	cps
Nickel	60-2	112374	109627	109688	110563	1.42	cps
Phosphorus	31-2	660	737	660	686	6.46	cps
Potassium	39-2	1685864	1695655	1674896	1685472	0.62	cps
Rhodium	103-1	3415801	3368254	3396361	3393472	0.70	cps
Rhodium	103-2	2205830	2154035	2171334	2177066	1.21	cps
Scandium	45-1	2109990	2157694	2110564	2126083	1.29	cps
Scandium	45-2	206025	202340	201950	203438	1.11	cps
Selenium	82-1	14559	14852	14974	14795	1.44	cps
Selenium	77-2	1840	1990	1827	1886	4.81	cps
Selenium	78-2	7028	6922	6778	6909	1.82	cps
Silicon	28-1	7357677	7582762	7387394	7442611	1.64	cps
Silver	107-1	119729	116120	117004	117618	1.60	cps
Silver	109-1	112731	111293	113305	112443	0.92	cps
Sodium	23-2	5314598	5274622	5252083	5280434	0.60	cps
Strontium	86-1	274526	270407	272258	272397	0.76	cps
Strontium	88-1	2387821	2375072	2358146	2373679	0.63	cps
Sulfur	34-1	144014	146342	144842	145066	0.81	cps
Terbium	159-1	4298262	4340735	4318109	4319035	0.49	cps
Terbium	159-2	3458085	3378959	3407857	3414967	1.17	cps
Thallium	203-1	508588	516917	516604	514036	0.92	cps
Thallium	205-1	1190013	1211357	1205367	1202246	0.92	cps
Tin	118-1	460166	464588	460109	461621	0.56	cps
Titanium	47-1	503915	506005	503179	504366	0.29	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:19:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1547007	1574105	1561173	1560762	0.87	cps
Vanadium	51-2	293184	293726	291027	292646	0.49	cps
Yttrium	89-1	6289263	6281275	6306804	6292447	0.21	cps
Yttrium	89-2	1920983	1896111	1885716	1900937	0.95	cps
Zinc	66-2	607313	605092	605548	605984	0.19	cps
Zirconium	90-1	1057726	1055642	1056309	1056559	0.10	cps
Zirconium	91-1	237041	236344	238841	237409	0.54	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	423211	414668	416690	418190	1.07	cps
Antimony	121-1	576007	581344	574848	577399	0.60	cps
Arsenic	75-2	267	280	267	271	2.84	cps
Barium	135-1	696459	699382	697321	697720	0.22	cps
Barium	137-1	1216090	1214778	1205895	1212254	0.46	cps
Beryllium	9-1	87294	88869	87984	88049	0.90	cps
Bismuth	209-1	2525906	2524627	2538412	2529648	0.30	cps
Bismuth	209-2	2483329	2442984	2411153	2445822	1.48	cps
Bromine	81-1	38768	38079	38734	38527	1.01	cps
Bromine	81-2	1033	1087	1007	1042	3.91	cps
Cadmium	108-1	12305	12792	12589	12562	1.95	cps
Cadmium	106-1	20107	19340	19296	19581	2.33	cps
Cadmium	111-1	176564	177088	175703	176452	0.40	cps
Calcium	43-1	192894	194422	196826	194714	1.02	cps
Calcium	44-1	3070328	3001518	3036328	3036058	1.13	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	288842	284165	287712	286906	0.85	cps
Cobalt	59-2	436602	432002	436939	435181	0.63	cps
Copper	63-2	3039216	2962550	3001476	3001081	1.28	cps
Dysprosium	156-1	19130	18946	19036	19037	0.48	cps
Dysprosium	156-2	17745	17775	17945	17821	0.61	cps
Erbium	164-1	15041	15419	14634	15032	2.61	cps
Erbium	164-2	12012	11778	12079	11956	1.32	cps
Gadolinium	160-1	19203	19717	19424	19448	1.33	cps
Gadolinium	160-2	17037	16553	16466	16686	1.84	cps
Holmium	165-1	4304635	4284905	4301394	4296978	0.25	cps
Holmium	165-2	3509041	3416013	3497813	3474289	1.46	cps
Indium	115-1	3672469	3658822	3715441	3682244	0.80	cps
Indium	115-2	1540852	1508025	1520624	1523167	1.09	cps
Iron	56-2	15847336	15734156	15687541	15756344	0.52	cps
Iron	57-2	405599	407637	405836	406357	0.27	cps
Iron	54-2	906250	903157	902442	903950	0.22	cps
Krypton	83-1	490	417	397	434	11.31	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2171438	2201270	2180674	2184460	0.70	cps
Lead	207-1	1968804	1982430	1958591	1969942	0.61	cps
Lead	208-1	8865856	8978978	8852429	8899088	0.78	cps
Lithium	6-1	466339	474943	469975	470419	0.92	cps
Magnesium	24-2	2601845	2552890	2582586	2579107	0.96	cps
Manganese	55-2	2317990	2310097	2362905	2330331	1.22	cps
Molybdenum	94-1	2101470	2116260	2096769	2104833	0.48	cps
Molybdenum	95-1	3015776	2994027	3064127	3024643	1.19	cps
Molybdenum	96-1	3306181	3298188	3321854	3308741	0.36	cps
Molybdenum	97-1	1894874	1917837	1873399	1895370	1.17	cps
Molybdenum	98-1	4811793	4849986	4834176	4831985	0.40	cps
Neodymium	150-1	29067	29985	29611	29554	1.56	cps
Neodymium	150-2	21410	20525	20622	20852	2.33	cps
Nickel	60-2	111723	111890	111984	111866	0.12	cps
Phosphorus	31-2	660	720	647	676	5.78	cps
Potassium	39-2	1694994	1691269	1723081	1703114	1.02	cps
Rhodium	103-1	3398010	3446645	3316531	3387062	1.94	cps
Rhodium	103-2	2220214	2115453	2189941	2175203	2.48	cps
Scandium	45-1	2157035	2129231	2118244	2134837	0.94	cps
Scandium	45-2	206139	199391	202802	202778	1.66	cps
Selenium	82-1	14457	14597	14675	14576	0.76	cps
Selenium	77-2	1800	1877	1807	1828	2.32	cps
Selenium	78-2	6952	6762	6728	6814	1.77	cps
Silicon	28-1	7602746	7619571	7603946	7608754	0.12	cps
Silver	107-1	127508	127895	127259	127554	0.25	cps
Silver	109-1	122075	120675	121696	121482	0.60	cps
Sodium	23-2	5377150	5341545	5381948	5366881	0.41	cps
Strontium	86-1	272438	270659	269678	270925	0.52	cps
Strontium	88-1	2413839	2422612	2363581	2400010	1.33	cps
Sulfur	34-1	145589	146144	145794	145842	0.19	cps
Terbium	159-1	4295821	4436554	4375923	4369433	1.62	cps
Terbium	159-2	3447119	3389586	3414766	3417157	0.84	cps
Thallium	203-1	517424	523285	519839	520183	0.57	cps
Thallium	205-1	1212398	1243380	1225884	1227221	1.27	cps
Tin	118-1	465760	465866	461485	464370	0.54	cps
Titanium	47-1	506977	513122	508113	509404	0.64	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	Q1588-01ADLX5	Instrumnet Name :	P7
Client Sample ID :	TAPFTA-MW01D-031425	Dilution Factor :	5
Date & Time Acquired :	2025-03-24 16:22:29	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1575349	1589281	1594080	1586236	0.61	cps
Vanadium	51-2	299346	295728	295510	296862	0.73	cps
Yttrium	89-1	6324296	6345276	6278324	6315965	0.54	cps
Yttrium	89-2	1935475	1888895	1887866	1904078	1.43	cps
Zinc	66-2	618577	618540	620074	619064	0.14	cps
Zirconium	90-1	1073065	1071212	1070065	1071447	0.14	cps
Zirconium	91-1	238661	238795	238898	238785	0.05	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8098352	7932022	7948323	7992899	1.15	cps
Antimony	121-1	2905415	2981886	2956785	2948029	1.32	cps
Arsenic	75-2	202941	202016	202948	202635	0.26	cps
Barium	135-1	4070304	4100631	4105808	4092248	0.47	cps
Barium	137-1	6919232	7181125	7045425	7048594	1.86	cps
Beryllium	9-1	451792	461539	453906	455746	1.12	cps
Bismuth	209-1	2357050	2416490	2384370	2385970	1.25	cps
Bismuth	209-2	2281538	2228116	2275037	2261564	1.29	cps
Bromine	81-1	35710	36886	37270	36622	2.22	cps
Bromine	81-2	333	343	270	316	12.60	cps
Cadmium	108-1	63481	63254	64767	63834	1.28	cps
Cadmium	106-1	90188	90741	90805	90578	0.37	cps
Cadmium	111-1	848991	866376	871348	862238	1.36	cps
Calcium	43-1	4496448	4469567	4471229	4479082	0.34	cps
Calcium	44-1	71489557	73065449	72370521	72308509	1.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1472942	1470636	1431179	1458252	1.61	cps
Cobalt	59-2	2278761	2242713	2237243	2252906	1.00	cps
Copper	63-2	16238401	16427852	16477511	16381255	0.77	cps
Dysprosium	156-1	167	153	147	156	6.55	cps
Dysprosium	156-2	287	300	273	287	4.65	cps
Erbium	164-1	193	153	130	159	20.16	cps
Erbium	164-2	120	110	147	126	15.10	cps
Gadolinium	160-1	153	113	133	133	15.00	cps
Gadolinium	160-2	233	257	297	262	12.21	cps
Holmium	165-1	4252498	4305741	4283570	4280603	0.62	cps
Holmium	165-2	3421389	3427451	3404537	3417793	0.35	cps
Indium	115-1	3445418	3515077	3555921	3505472	1.59	cps
Indium	115-2	1472888	1467910	1471144	1470647	0.17	cps
Iron	56-2	337329462	336697395	332970082	335665646	0.70	cps
Iron	57-2	8384999	8385459	8310062	8360173	0.52	cps
Iron	54-2	18482350	18635559	18303018	18473643	0.90	cps
Krypton	83-1	447	390	483	440	10.69	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11195292	11103924	11145973	11148397	0.41	cps
Lead	207-1	9973707	9880080	10023281	9959023	0.73	cps
Lead	208-1	44667139	44946214	45376931	44996762	0.79	cps
Lithium	6-1	473219	469080	471794	471364	0.45	cps
Magnesium	24-2	69963746	69680474	69436064	69693428	0.38	cps
Manganese	55-2	13265213	13196897	13134184	13198765	0.50	cps
Molybdenum	94-1	11050287	11259104	11423976	11244455	1.67	cps
Molybdenum	95-1	16126645	16487356	16443136	16352379	1.20	cps
Molybdenum	96-1	17741766	17943633	18023855	17903085	0.81	cps
Molybdenum	97-1	10094841	10223593	10366689	10228374	1.33	cps
Molybdenum	98-1	25855661	26112968	26004140	25990923	0.50	cps
Neodymium	150-1	273	247	287	269	7.57	cps
Neodymium	150-2	133	103	100	112	16.36	cps
Nickel	60-2	561005	559588	562275	560956	0.24	cps
Phosphorus	31-2	100199	98937	99350	99495	0.65	cps
Potassium	39-2	45400521	46000463	45772861	45724615	0.66	cps
Rhodium	103-1	3216841	3227315	3258580	3234245	0.67	cps
Rhodium	103-2	2083034	2052542	2040033	2058536	1.07	cps
Scandium	45-1	2097153	2119113	2119674	2111980	0.61	cps
Scandium	45-2	205555	207599	210195	207783	1.12	cps
Selenium	82-1	68182	69241	69247	68890	0.89	cps
Selenium	77-2	8573	8733	8503	8603	1.37	cps
Selenium	78-2	29339	29680	29199	29406	0.84	cps
Silicon	28-1	6541053	6648362	6712742	6634052	1.31	cps
Silver	107-1	4364864	4498390	4515470	4459575	1.85	cps
Silver	109-1	4307244	4324061	4248090	4293132	0.93	cps
Sodium	23-2	106832445	106615475	105918312	106455411	0.45	cps
Strontium	86-1	1056598	1074299	1079634	1070177	1.13	cps
Strontium	88-1	9284711	9503725	9583423	9457286	1.64	cps
Sulfur	34-1	411331	418125	419809	416421	1.08	cps
Terbium	159-1	4385124	4382664	4368769	4378853	0.20	cps
Terbium	159-2	3407950	3386695	3433205	3409284	0.68	cps
Thallium	203-1	2844776	2924465	2869826	2879689	1.42	cps
Thallium	205-1	6669557	6903708	6747489	6773585	1.76	cps
Tin	118-1	2659916	2702827	2683910	2682217	0.80	cps
Titanium	47-1	4262343	4382304	4274797	4306482	1.53	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:25:58	DataFile Name :	035CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8867878	8964299	8872565	8901581	0.61	cps
Vanadium	51-2	1273788	1285955	1273914	1277886	0.55	cps
Yttrium	89-1	6180903	6098529	6229858	6169764	1.08	cps
Yttrium	89-2	1881709	1884493	1859096	1875100	0.74	cps
Zinc	66-2	3176151	3200030	3198034	3191405	0.42	cps
Zirconium	90-1	5570418	5710942	5693891	5658417	1.36	cps
Zirconium	91-1	1243807	1271568	1270529	1261968	1.25	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	583	553	493	543	8.43	cps
Antimony	121-1	540	550	683	591	13.54	cps
Arsenic	75-2	23	37	40	33	26.47	cps
Barium	135-1	113	167	187	156	24.37	cps
Barium	137-1	227	210	260	232	10.97	cps
Beryllium	9-1	133	110	107	117	12.45	cps
Bismuth	209-1	2546286	2558294	2580272	2561617	0.67	cps
Bismuth	209-2	2455808	2472346	2475219	2467791	0.42	cps
Bromine	81-1	38617	38768	37678	38354	1.54	cps
Bromine	81-2	250	267	270	262	4.09	cps
Cadmium	108-1	10	3	10	8	49.52	cps
Cadmium	106-1	1610	1580	1567	1586	1.40	cps
Cadmium	111-1	1220	1224	1220	1221	0.18	cps
Calcium	43-1	483	490	503	492	2.07	cps
Calcium	44-1	10711	10157	10290	10386	2.78	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	653	567	610	610	7.10	cps
Cobalt	59-2	197	237	243	226	11.19	cps
Copper	63-2	4207	3707	4014	3976	6.34	cps
Dysprosium	156-1	7	7	3	6	34.70	cps
Dysprosium	156-2	0	10	3	4	114.60	cps
Erbium	164-1	33	20	33	29	26.64	cps
Erbium	164-2	10	27	37	24	55.11	cps
Gadolinium	160-1	17	10	20	16	32.73	cps
Gadolinium	160-2	203	193	217	204	5.72	cps
Holmium	165-1	4335098	4346841	4366189	4349376	0.36	cps
Holmium	165-2	3506944	3424935	3464510	3465463	1.18	cps
Indium	115-1	3827147	3758067	3762607	3782607	1.02	cps
Indium	115-2	1594523	1560330	1553460	1569438	1.40	cps
Iron	56-2	36043	35816	35946	35935	0.32	cps
Iron	57-2	1463	1317	1497	1426	6.72	cps
Iron	54-2	3584	3317	3654	3518	5.05	cps
Krypton	83-1	433	370	370	391	9.35	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1273	1277	1257	1269	0.84	cps
Lead	207-1	1243	1060	1063	1122	9.35	cps
Lead	208-1	5227	5030	4830	5029	3.94	cps
Lithium	6-1	481489	474438	478586	478171	0.74	cps
Magnesium	24-2	2000	2150	2190	2113	4.74	cps
Manganese	55-2	1747	1687	1773	1736	2.56	cps
Molybdenum	94-1	710	510	523	581	19.25	cps
Molybdenum	95-1	700	663	633	666	5.02	cps
Molybdenum	96-1	950	713	900	854	14.60	cps
Molybdenum	97-1	380	337	400	372	8.70	cps
Molybdenum	98-1	1043	890	930	954	8.33	cps
Neodymium	150-1	3	3	3	3	0.00	cps
Neodymium	150-2	0	7	10	6	91.64	cps
Nickel	60-2	257	310	313	293	10.84	cps
Phosphorus	31-2	260	243	267	257	4.68	cps
Potassium	39-2	62802	63224	62886	62971	0.35	cps
Rhodium	103-1	3469945	3438066	3525720	3477910	1.28	cps
Rhodium	103-2	2244549	2248655	2238654	2243953	0.22	cps
Scandium	45-1	2165695	2152438	2189687	2169274	0.87	cps
Scandium	45-2	203603	204656	205329	204529	0.43	cps
Selenium	82-1	128	195	229	184	27.76	cps
Selenium	77-2	0	0	10	3	173.21	cps
Selenium	78-2	897	953	953	934	3.50	cps
Silicon	28-1	1277418	1253126	1252995	1261180	1.12	cps
Silver	107-1	313	250	333	299	14.56	cps
Silver	109-1	253	287	307	282	9.55	cps
Sodium	23-2	21609	21752	21942	21768	0.77	cps
Strontium	86-1	683	697	783	721	7.53	cps
Strontium	88-1	530	400	430	453	15.02	cps
Sulfur	34-1	127567	128158	127328	127685	0.33	cps
Terbium	159-1	4450956	4398062	4398832	4415950	0.69	cps
Terbium	159-2	3567480	3516819	3441186	3508495	1.81	cps
Thallium	203-1	637	630	633	633	0.53	cps
Thallium	205-1	1647	1557	1660	1621	3.47	cps
Tin	118-1	1073	1223	1270	1189	8.64	cps
Titanium	47-1	190	160	143	164	14.38	cps

Reviewed By:Mohan
On:3/26/2025 2:18:30 PM
Inst Id :P7
LB :LB135164

LB Number :	LB135164	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-03-24 16:28:48	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	543	403	503	483	14.92	cps
Vanadium	51-2	80	70	50	67	22.91	cps
Yttrium	89-1	6331762	6154771	6294577	6260370	1.49	cps
Yttrium	89-2	1936643	1939482	1889320	1921815	1.47	cps
Zinc	66-2	657	587	607	617	5.85	cps
Zirconium	90-1	557	610	577	581	4.64	cps
Zirconium	91-1	97	67	103	89	21.97	cps

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167196

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 03/18/2025 **Time :** 08:35 **Temp :** 94 °C

End Digest Date: 03/18/2025 **Time :** 10:35 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84907
CCV	30mL	MP84909
CRA	30mL	MP84911
Blank Spike	0.48mL	MP84900
Matrix Spike	0.48mL	MP84900

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
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	MP84901
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84902
2.5 ppb	S2.5	30mL	MP84903
5.0 ppb	S5.0	30mL	MP84904
7.5 ppb	S7.5	30mL	MP84905
10.0 ppb	S10.0	30mL	MP84906
ICV	ICV	30mL	MP84907
ICB	ICB	30mL	MP84908
CCV	CCV	30mL	MP84909
CCB	CCB	30mL	MP84910
CRI	CRI	30mL	MP84911
CHK STD	CHK STD	30mL	MP84912

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/18/25 @ 11:05		
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167196

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167196BL	PBW196	30	30	<2	N/A	3-1
PB167196BS	LCS196	30	30	<2	MP84900	2
Q1553-03DUP	FRAC-TANK-FMI120DUP	30	30	<2	N/A	4
Q1553-03MS	FRAC-TANK-FMI120MS	30	30	<2	MP84900	5
Q1553-03MSD	FRAC-TANK-FMI120MSD	30	30	<2	MP84900	6
Q1553-03	FRAC-TANK-FMI120	30	30	<2	N/A	3
Q1563-01	437	30	30	<2	N/A	7
Q1563-02	FERNOT-WATER	30	30	<2	N/A	8
Q1576-01	MW14	30	30	<2	N/A	9
Q1577-03	MOO-25-0072	30	30	<2	N/A	10
Q1588-01	TAPFTA-MW01D-031425-00-T1	30	30	<2	N/A	11
Q1590-04	3799	30	30	<2	N/A	12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 031825_7470 **WorkList ID :** 188327 **Department :** Digestion **Date :** 03-18-2025 08:05:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1576-01	MW14	Water	Mercury	1:1 HNO3 to pH < 2	GENV01	I31	03/12/2025	7470A
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	I41	03/14/2025	7470A
Q1553-03	FRAC-TANK-FMI120	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I31	03/12/2025	7470A
Q1563-01	437	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I51	03/13/2025	7470A
Q1563-02	FERNOT-WATER	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I51	03/13/2025	7470A
Q1577-03	MOO-25-0072	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I41	03/14/2025	7470A
Q1590-04	3799	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	I51	03/17/2025	7470A

Date/Time 3/18/25 @ 8:10

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 3/18/25 @ 8:40

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167152

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 03/17/2025 **Time :** 18:05 **Temp :** 96 °C

End Digest Date: 03/17/2025 **Time :** 20:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP84706
Spike Sol 2	1.00	MP84719
Spike Sol 3	1.00	MP84716
Spike Sol 4	1.00	MP84717
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6158
1:1 HCL	5.00	MP84720
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
03/17/25 21:10	SKD. met-dig	(metals lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167152

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167152BL	PBW152	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	12
PB167152BS	LCS152	<2	50	50	Colorless	Colorless	Clear	Clear	MP84706,MP84719,MP84716,N	13
Q1563-01	437	<2	50	50	Brown	Yellow	Clear	Clear	N/A	14
Q1563-02	FERNOT-WATER	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	15
Q1577-03	MOO-25-0072	<2	50	50	Pink	Colorless	Clear	Clear	N/A	19
Q1588-01MS	TAPFTA-MW01D-031425-00-T1MS	<2	50	50	Brown	Colorless	Cloudy	Clear	MP84706,MP84719,MP84716,N	17
Q1588-01MSD	TAPFTA-MW01D-031425-00-T1MSD	<2	50	50	Brown	Colorless	Cloudy	Clear	MP84706,MP84719,MP84716,N	18
Q1588-01DUP	TAPFTA-MW01D-031425-00-T1DUP	<2	50	50	Brown	Colorless	Cloudy	Clear	N/A	16
Q1588-01	TAPFTA-MW01D-031425-00-T1	<2	50	50	Brown	Colorless	Cloudy	Clear	N/A	20
Q1590-04	3799	<2	50	50	Pink	Light Pink	Clear	Clear	N/A	21

WORKLIST(Hardcopy Internal Chain)

WorkList Name : pb167152 **WorkList ID :** 188325 **Department :** Digestion **Date :** 03-17-2025 17:24:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1563-01	437	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I51	03/13/2025	6020B
Q1563-02	FERNOT-WATER	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I51	03/13/2025	6020B
Q1577-03	MOO-25-0072	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I51	03/13/2025	6020B
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I41	03/14/2025	6020B
Q1590-04	3799	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	WEST04	I41	03/14/2025	6020B
					PSEG03	I51	03/17/2025	6020B

Date/Time 03/17/25 ~~17~~ 17:45

Raw Sample Received by: SRS. metdig

Raw Sample Relinquished by: SM

Date/Time 03/17/25 16:45

Raw Sample Received by: SM

Raw Sample Relinquished by: SRS metdig

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135071

Review By	Mohan	Review On	3/20/2025 11:18:38 AM
Supervise By	jaswal	Supervise On	3/20/2025 1:26:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP84901,MP84902,MP84903,MP84904,MP84905,MP84906
ICV Standard	MP84907
CCV Standard	MP84909
ICSA Standard	
CRI Standard	MP84911
LCS Standard	
Chk Standard	MP84908,MP84910,MP84912,MP84898

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/18/25 13:17		Mohan	OK
2	S0.2	S0.2	CAL2	03/18/25 13:19		Mohan	OK
3	S2.5	S2.5	CAL3	03/18/25 13:22		Mohan	OK
4	S5	S5	CAL4	03/18/25 13:32		Mohan	OK
5	S7.5	S7.5	CAL5	03/18/25 13:34		Mohan	OK
6	S10	S10	CAL6	03/18/25 13:39		Mohan	OK
7	ICV47	ICV47	ICV	03/18/25 13:42		Mohan	OK
8	ICB47	ICB47	ICB	03/18/25 13:44		Mohan	OK
9	CCV23	CCV23	CCV	03/18/25 13:47		Mohan	OK
10	CCB23	CCB23	CCB	03/18/25 13:49		Mohan	OK
11	CRA	CRA	CRDL	03/18/25 13:51		Mohan	OK
12	HighStd	HighStd	HIGH STD	03/18/25 13:53		Mohan	OK
13	ChkStd	ChkStd	SAM	03/18/25 13:58		Mohan	OK
14	PB167196BL	PB167196BL	MB	03/18/25 14:01		Mohan	OK
15	PB167196BS	PB167196BS	LCS	03/18/25 14:03		Mohan	OK
16	Q1553-03	FRAC-TANK-FMI120	SAM	03/18/25 14:05		Mohan	OK
17	Q1553-03DUP	FRAC-TANK-FMI120[	DUP	03/18/25 14:07		Mohan	OK
18	Q1553-03MS	FRAC-TANK-FMI120M	MS	03/18/25 14:10		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135071

Review By	Mohan	Review On	3/20/2025 11:18:38 AM
Supervise By	jaswal	Supervise On	3/20/2025 1:26:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP84901,MP84902,MP84903,MP84904,MP84905,MP84906
ICV Standard	MP84907
CCV Standard	MP84909
ICSA Standard	
CRI Standard	MP84911
LCS Standard	
Chk Standard	MP84908,MP84910,MP84912,MP84898

19	Q1553-03MSD	FRAC-TANK-FMI120M	MSD	03/18/25 14:12		Mohan	OK
20	Q1563-01	437	SAM	03/18/25 14:14		Mohan	OK
21	CCV24	CCV24	CCV	03/18/25 14:17		Mohan	OK
22	CCB24	CCB24	CCB	03/18/25 14:19		Mohan	OK
23	Q1563-02	FERNOT-WATER	SAM	03/18/25 14:21		Mohan	OK
24	Q1576-01	MW14	SAM	03/18/25 14:23	High	Mohan	Dilution
25	Q1577-03	MOO-25-0072	SAM	03/18/25 14:26		Mohan	OK
26	Q1588-01	TAPFTA-MW01D-031	SAM	03/18/25 14:28		Mohan	OK
27	Q1590-04	3799	SAM	03/18/25 14:30		Mohan	OK
28	Q1553-03L	FRAC-TANK-FMI120L	SD	03/18/25 14:44		Mohan	OK
29	Q1553-03A	FRAC-TANK-FMI120A	PS	03/18/25 14:47		Mohan	OK
30	Q1576-01DL	MW14DL	SAM	03/18/25 14:49	Report 2X	Mohan	Confirms
31	CCV25	CCV25	CCV	03/18/25 14:54		Mohan	OK
32	CCB25	CCB25	CCB	03/18/25 14:56		Mohan	OK

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135118

Review By	JANVI	Review On	3/26/2025 11:00:41 AM
Supervise By	Mohan	Supervise On	3/26/2025 2:17:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	03/20/25 15:19		Jaswal	OK
2	S0	S0	CAL1	03/20/25 15:48		Jaswal	OK
3	S2	S2	CAL3	03/20/25 15:55		Jaswal	OK
4	S3	S3	CAL4	03/20/25 15:58		Jaswal	OK
5	S4	S4	CAL5	03/20/25 16:04		Jaswal	OK
6	S5	S5	CAL6	03/20/25 16:07		Jaswal	OK
7	S6	S6	CAL7	03/20/25 16:10		Jaswal	OK
8	S7	S7	CAL8	03/20/25 16:13		Jaswal	OK
9	S8	S8	CAL9	03/20/25 16:19		Jaswal	OK
10	ICV01	ICV01	ICV	03/20/25 17:16		Jaswal	OK
11	LLICV01	LLICV01	LLICV	03/20/25 17:19		Jaswal	OK
12	ICB01	ICB01	ICB	03/20/25 17:27		Jaswal	OK
13	ICSA01	ICSA01	ICSA	03/20/25 17:40		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	03/20/25 17:43		Jaswal	OK
15	CCV01	CCV01	CCV	03/20/25 17:49		Jaswal	OK
16	CCB01	CCB01	CCB	03/20/25 17:56		Jaswal	OK
17	CRI	CRI	CRDL	03/20/25 17:59		Jaswal	OK
18	PB167152BL	PB167152BL	MB	03/20/25 18:02		Jaswal	OK

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135118

Review By	JANVI	Review On	3/26/2025 11:00:41 AM
Supervise By	Mohan	Supervise On	3/26/2025 2:17:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

19	PB167152BS	PB167152BS	LCS	03/20/25 18:08		Jaswal	OK
20	Q1563-01DL	437DL	SAM	03/20/25 18:12	Na high	Jaswal	Dilution
21	Q1563-02DL	FERNOT-WATERDL	SAM	03/20/25 18:15		Jaswal	OK
22	Q1577-03DL	MOO-25-0072DL	SAM	03/20/25 18:22	All INT_STD Fail	Jaswal	Dilution
23	Q1577-03DL2	MOO-25-0072DL2	SAM	03/20/25 18:29	50X For All INT_STD	Jaswal	Confirms
24	Q1563-01DL2	437DL2	SAM	03/20/25 18:33	50X for Na	Jaswal	Confirms
25	CCV02	CCV02	CCV	03/20/25 18:36		Jaswal	OK
26	CCB02	CCB02	CCB	03/20/25 18:45		Jaswal	OK

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135143

Review By	Janvi	Review On	3/24/2025 10:32:11 AM
Supervise By	jaswal	Supervise On	3/24/2025 12:27:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	03/23/25 14:11		Jaswal	OK
2	S0	S0	CAL1	03/23/25 14:44		Jaswal	OK
3	S2	S2	CAL3	03/23/25 14:50		Jaswal	OK
4	S3	S3	CAL4	03/23/25 14:54		Jaswal	OK
5	S4	S4	CAL5	03/23/25 14:57		Jaswal	OK
6	S5	S5	CAL6	03/23/25 15:00		Jaswal	OK
7	S6	S6	CAL7	03/23/25 15:03		Jaswal	OK
8	S7	S7	CAL8	03/23/25 15:05		Jaswal	OK
9	S8	S8	CAL9	03/23/25 15:08		Jaswal	OK
10	ICV01	ICV01	ICV	03/23/25 15:35		Jaswal	OK
11	LLICV	LLICV	LLICV	03/23/25 15:47		Jaswal	OK
12	ICB01	ICB01	ICB	03/23/25 15:50		Jaswal	OK
13	ICSA01	ICSA01	ICSA	03/23/25 15:54		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	03/23/25 15:57		Jaswal	OK
15	CCV01	CCV01	CCV	03/23/25 16:00		Jaswal	OK
16	CCB01	CCB01	CCB	03/23/25 16:04		Jaswal	OK
17	CRI	CRI	CRDL	03/23/25 16:11		Jaswal	OK
18	PB167118BL	PB167118BL	MB	03/23/25 16:18		Jaswal	OK

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135143

Review By	Janvi	Review On	3/24/2025 10:32:11 AM
Supervise By	jaswal	Supervise On	3/24/2025 12:27:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

19	PB167118BS	PB167118BS	LCS	03/23/25 16:21		Jaswal	OK
20	Q1539-01	TAPIAL3-MW03D-031	SAM	03/23/25 16:24		Jaswal	OK
21	Q1539-02	TAPFTA-MW01I-0310	SAM	03/23/25 16:27		Jaswal	OK
22	Q1539-02DUP	TAPFTA-MW01I-0310	DUP	03/23/25 16:30		Jaswal	OK
23	Q1539-02L	TAPFTA-MW01I-0310	SD	03/23/25 16:34		Jaswal	OK
24	Q1539-02MS	TAPFTA-MW01I-0310	MS	03/23/25 16:37		Jaswal	OK
25	Q1539-02MSD	TAPFTA-MW01I-0310	MSD	03/23/25 16:40		Jaswal	OK
26	Q1539-02A	TAPFTA-MW01I-0310	PS	03/23/25 16:43		Jaswal	OK
27	CCV02	CCV02	CCV	03/23/25 16:45		Jaswal	OK
28	CCB02	CCB02	CCB	03/23/25 16:53		Jaswal	OK
29	Q1563-02DL	FERNOT-WATERDL	SAM	03/23/25 16:56	Not use	Jaswal	Not Ok
30	Q1563-02DUPDL	FERNOT-WATERDUP	DUP	03/23/25 16:59	Not use	Jaswal	Not Ok
31	Q1563-02LDL	FERNOT-WATERLDL	SD	03/23/25 17:03	Not use	Jaswal	Not Ok
32	Q1563-02MSDL	FERNOT-WATERMSD	MS	03/23/25 17:06	Not use	Jaswal	Not Ok
33	Q1563-02MSDDL	FERNOT-WATERMSD	MSD	03/23/25 17:09	Not use	Jaswal	Not Ok
34	Q1563-02ADL	FERNOT-WATERADL	PS	03/23/25 17:12	Not use	Jaswal	Not Ok
35	Q1588-01	TAPFTA-MW01D-031	SAM	03/23/25 17:15	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
36	Q1588-01DUP	TAPFTA-MW01D-031	DUP	03/23/25 17:18	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
37	Q1588-01L	TAPFTA-MW01D-031	SD	03/23/25 17:22	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
38	Q1588-01MS	TAPFTA-MW01D-031	MS	03/23/25 17:25	INT_STD 89Y(1&2) Fail	Jaswal	Dilution

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135143

Review By	Janvi	Review On	3/24/2025 10:32:11 AM
Supervise By	jaswal	Supervise On	3/24/2025 12:27:15 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

39	CCV03	CCV03	CCV	03/23/25 17:31		Jaswal	OK
40	CCB03	CCB03	CCB	03/23/25 17:37		Jaswal	OK
41	Q1588-01MSD	TAPFTA-MW01D-031	MSD	03/23/25 17:40	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
42	Q1588-01A	TAPFTA-MW01D-031	PS	03/23/25 17:43	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
43	Q1590-04DL	3799DL	SAM	03/23/25 17:45	K,NA High	Jaswal	Dilution
44	Q1590-04DL2	3799DL2	SAM	03/23/25 17:55	25X For K,NA	Jaswal	Confirms
45	CCV04	CCV04	CCV	03/23/25 18:20		Jaswal	OK
46	CCB04	CCB04	CCB	03/23/25 18:25		Jaswal	OK

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135164

Review By	JANVI	Review On	3/26/2025 10:54:36 AM
Supervise By	Mohan	Supervise On	3/26/2025 2:18:30 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	03/24/25 13:37		Jaswal	OK
2	S0	S0	CAL1	03/24/25 14:08		Jaswal	OK
3	S2	S2	CAL3	03/24/25 14:15		Jaswal	OK
4	S3	S3	CAL4	03/24/25 14:18		Jaswal	OK
5	S4	S4	CAL5	03/24/25 14:21		Jaswal	OK
6	S5	S5	CAL6	03/24/25 14:47		Jaswal	OK
7	S6	S6	CAL7	03/24/25 14:50		Jaswal	OK
8	S7	S7	CAL8	03/24/25 14:53		Jaswal	OK
9	S8	S8	CAL9	03/24/25 14:55		Jaswal	OK
10	ICV01	ICV01	ICV	03/24/25 15:23	Ca Fail	Jaswal	OK
11	LLICV01	LLICV01	LLICV	03/24/25 15:32		Jaswal	OK
12	ICB01	ICB01	ICB	03/24/25 15:36		Jaswal	OK
13	ICSA01	ICSA01	ICSA	03/24/25 15:44		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	03/24/25 15:49		Jaswal	OK
15	CCV01	CCV01	CCV	03/24/25 15:55		Jaswal	OK
16	CCB01	CCB01	CCB	03/24/25 15:58		Jaswal	OK
17	CRI	CRI	CRDL	03/24/25 16:01		Jaswal	OK
18	Q1588-01DL	TAPFTA-MW01D-031	SAM	03/24/25 16:04	5X For INT_STD 89Y(1&2)	Jaswal	Confirms

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

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135164

Review By	JANVI	Review On	3/26/2025 10:54:36 AM
Supervise By	Mohan	Supervise On	3/26/2025 2:18:30 PM

STD. NAME	STD REF.#
ICAL Standard	MP84682,MP84684,MP84683,MP84688,MP84687,MP84686,MP84685,MP84681,MP84689
ICV Standard	MP84690
CCV Standard	MP84697
ICSA Standard	MP84692,MP84693
CRI Standard	MP84683
LCS Standard	
Chk Standard	MP84695,MP84696

19	Q1588-01DUPDL	TAPFTA-MW01D-031	DUP	03/24/25 16:09	5X For INT_STD 89Y(1&2)	Jaswal	Confirms
20	Q1588-01LDL	TAPFTA-MW01D-031	SD	03/24/25 16:12	25X For INT_STD 89Y(1&2)	Jaswal	Confirms
21	Q1588-01MSDL	TAPFTA-MW01D-031	MS	03/24/25 16:16	5X For INT_STD 89Y(1&2)	Jaswal	Confirms
22	Q1588-01MSDDL	TAPFTA-MW01D-031	MSD	03/24/25 16:19	5X For INT_STD 89Y(1&2)	Jaswal	Confirms
23	Q1588-01ADL	TAPFTA-MW01D-031	PS	03/24/25 16:22	5X For INT_STD 89Y(1&2)	Jaswal	Confirms
24	CCV02	CCV02	CCV	03/24/25 16:25		Jaswal	OK
25	CCB02	CCB02	CCB	03/24/25 16:28		Jaswal	OK

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

Prep Standard - Chemical Standard Summary

Order ID : Q1588

Test : Hardness, Total,Mercury,Metals ICP-TAL

Prepbatch ID : PB167152,PB167196,

Sequence ID/Qc Batch ID: LB135071,LB135118,LB135143,LB135164,

Standard ID :
MP84563,MP84564,MP84565,MP84566,MP84680,MP84681,MP84682,MP84683,MP84684,MP84685,MP84686,MP84687,MP84688,MP84689,MP84690,MP84692,MP84693,MP84694,MP84695,MP84696,MP84697,MP84706,MP84716,MP84717,MP84719,MP84720,MP84898,MP84900,MP84901,MP84902,MP84903,MP84904,MP84905,MP84906,MP84907,MP84908,MP84909,MP84910,MP84911,MP84912,

Chemical ID :
M4371,M4465,M4884,M4888,M4916,M5062,M5288,M5307,M5472,M5476,M5498,M5520,M5532,M5658,M5744,M5751,M5798,M5799,M5800,M5801,M5802,M5808,M5811,M5815,M5817,M5873,M5874,M5882,M5884,M5942,M5961,M5962,M5977,M5981,M6021,M6023,M6025,M6026,M6028,M6030,M6032,M6041,M6055,M6079,M6126,M6127,M6128,M6144,M6145,M6146,M6150,M6151,M6158,W3112,

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP84563	02/18/2025	06/03/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP84564	02/18/2025	08/18/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP84565	02/18/2025	08/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP84566	02/18/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP84680	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.05000ml of M5472 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.05000ml of M6128 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M5808 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5942 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M4884 + 0.50000ml of M6032 + 1.25000ml of M5815 + 1.25000ml of M5817 + 1.25000ml of M6151 + 2.50000ml of M5498 + 2.50000ml of M5520 + 2.50000ml of M6126 + 2.50000ml of M6127 + 2.50000ml of M6144 + 230.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84681	03/03/2025	03/24/2025	Janvi Patel	None	None	Sarabjit Jaswal 03/03/2025

FROM 1.00000ml of M4884 + 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.90000ml of M5808 + 10.00000ml of M5942 + 10.00000ml of M5977 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5520 + 4.90000ml of M5811 + 5.00000ml of M6151 + 50.00000ml of M5307 + 829.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M5498 + 9.90000ml of M6127 + 9.90000ml of M6144 = Final Quantity: 1000.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84682	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP84683	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84680 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP84684	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84683 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP84685	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84681 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP84686	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84681 = 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)	MP84687	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84681 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP84688	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84685 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP84689	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 1.00000ml of M5808 + 2.50000ml of M5288 + 2.50000ml of M5811 + 5.00000ml of M5498 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84682 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP84690	03/03/2025	03/24/2025	Janvi Patel	None	None	Sarabjit Jaswal 03/03/2025

FROM 2.00000ml of M6150 + 98.00000ml of MP84682 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84692	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84682 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP84693	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84682 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84694	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84682 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP84695	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84694 + 96.00000ml of MP84682 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84696	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5744 + 170.00000ml of MP84682 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84697	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.20000ml of M6026 + 0.50000ml of M4884 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5476 + 10.00000ml of M6126 + 12.45000ml of M5520 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5307 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M5808 + 5.00000ml of M6151 + 5.50000ml of M5942 + 5.50000ml of M5977 + 823.35000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3880	M&B SPIKE-1	MP84706	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 5.00000ml of M5472 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 5.00000ml of M6079 + 5.00000ml of M6146 + 35.00000ml of MP84682 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3882	M&B SPIKE-3	MP84716	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 0.62500ml of M6026 + 12.50000ml of M5751 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP84682 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3900	M&B SPIKE-4	MP84717	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 6.25000ml of M5498 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP84682 = Final Quantity: 25.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3881	M&B SPIKE-2	MP84719	03/03/2025	03/24/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 03/03/2025

FROM 10.00000ml of M4888 + 10.00000ml of M5977 + 12.50000ml of M5520 + 12.50000ml of M5811 + 12.50000ml of M6032 + 2.50000ml of M4884 + 2.50000ml of M5799 + 5.00000ml of M5808 + 32.50000ml of MP84682 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP84720	03/03/2025	04/04/2025	Sagar Kanani	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 03/03/2025

FROM 1000.00000ml of M6151 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84898	03/18/2025	03/19/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 03/22/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84900	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 1.00000ml of M6158 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84901	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP84902	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP84900 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84903	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 245.00000ml of W3112 + 2.50000ml of MP84900 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP84904	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 242.50000ml of W3112 + 5.00000ml of MP84900 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84905	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 240.00000ml of W3112 + 7.50000ml of MP84900 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP84906	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 237.50000ml of W3112 + 10.00000ml of MP84900 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84907	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6158 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84908	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84909	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6158 + 10.00000ml of MP84900 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84910	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6158 = Final Quantity: 500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP84911	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP84900 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP84912	03/18/2025	03/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 240.50000ml of W3112 + 7.00000ml of MP84900 = Final Quantity: 250.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / jaswal	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	09/27/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	12/05/2025	12/05/2024 / JANVI	04/01/2022 / jaswal	M5307

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

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.	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.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5520

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	03/31/2025	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-MEB716346	03/07/2025	03/07/2024 / JANVI	08/09/2022 / jaswal	M5744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	58113 / Al, 10000 PPM, 500 ml	122926	12/29/2026	12/18/2024 / janvi	01/03/2024 / jaswal	M5808

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	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
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 #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	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 #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	57182 / Pb, 10000 PPM, 125 ml	110923	11/09/2026	12/05/2024 / janvi	08/05/2024 / Jaswal	M6026

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	01/15/2025 / Jaswal	09/30/2024 / Jaswal	M6079

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5808, M5809

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 122923
Description: Aluminum (Al)

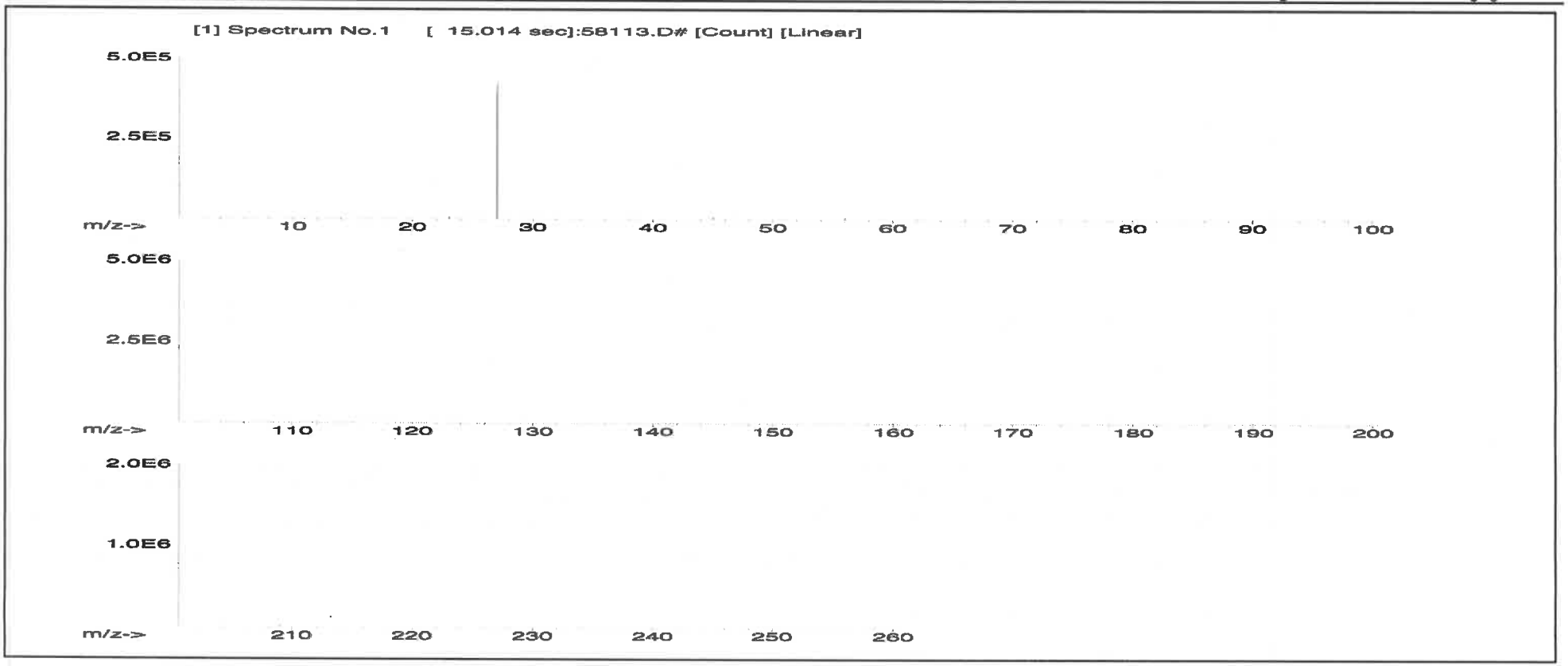
Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM092022A1	10000	99.999	0.10	7.30	273.9779	273.9813	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	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	17	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	0.03
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	4.5	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	0.56	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

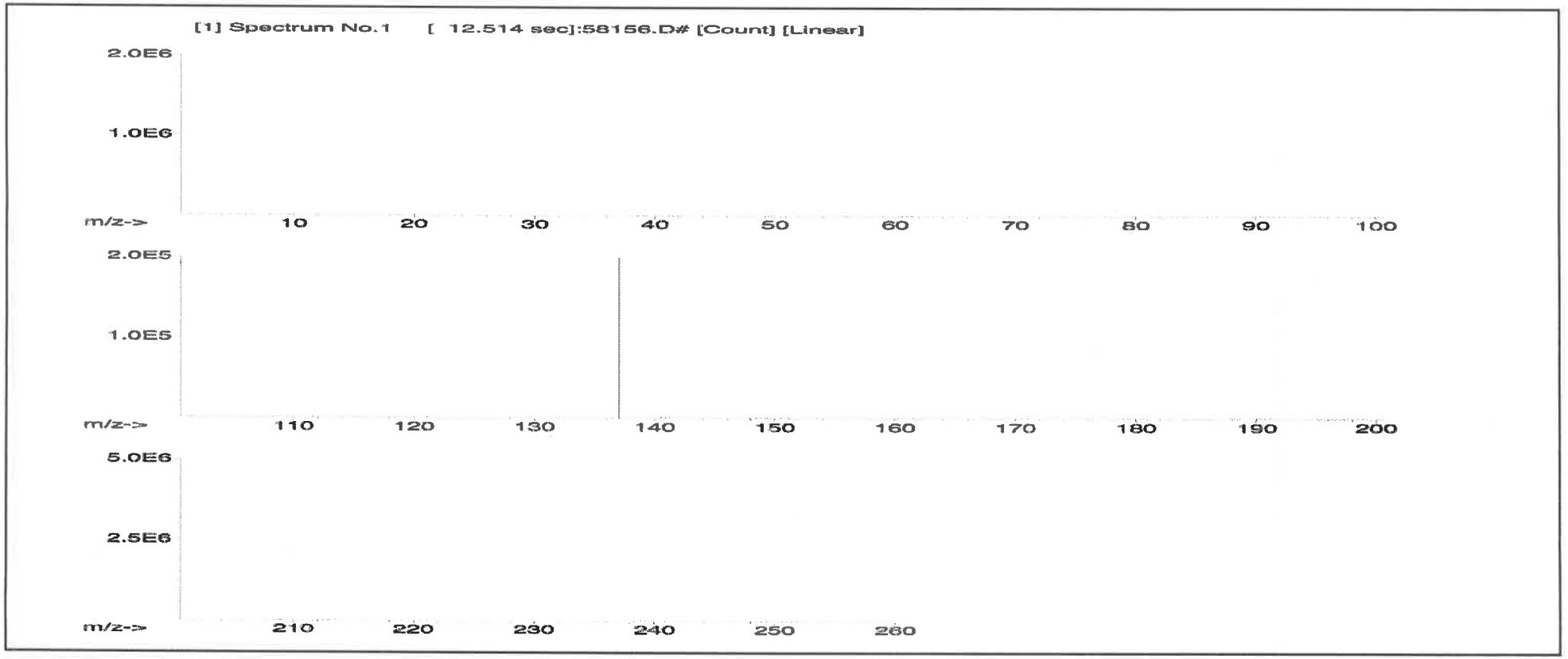
Part Number: 57056
Lot Number: 010924
Description: Barium (Ba)
Expiration Date: 010927
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 010924

Pedro Rentas
Reviewed By: Pedro L. Rentas 010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

R 8/15/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

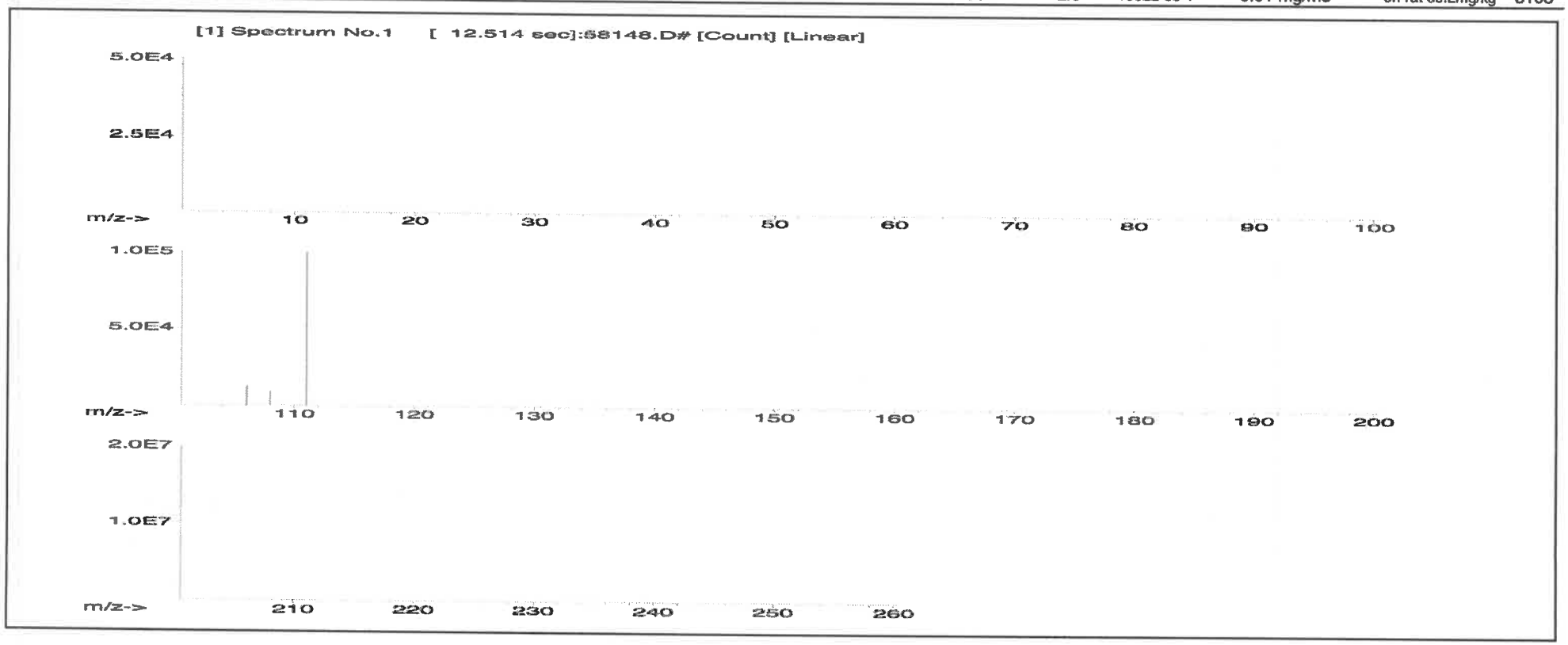
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.100	Flask Uncertainty	

Aleah O'Brady
Formulated By: Aleah O'Brady 070124

Pedro Rentas
Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R : 01/03/24. M5810, M5811

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

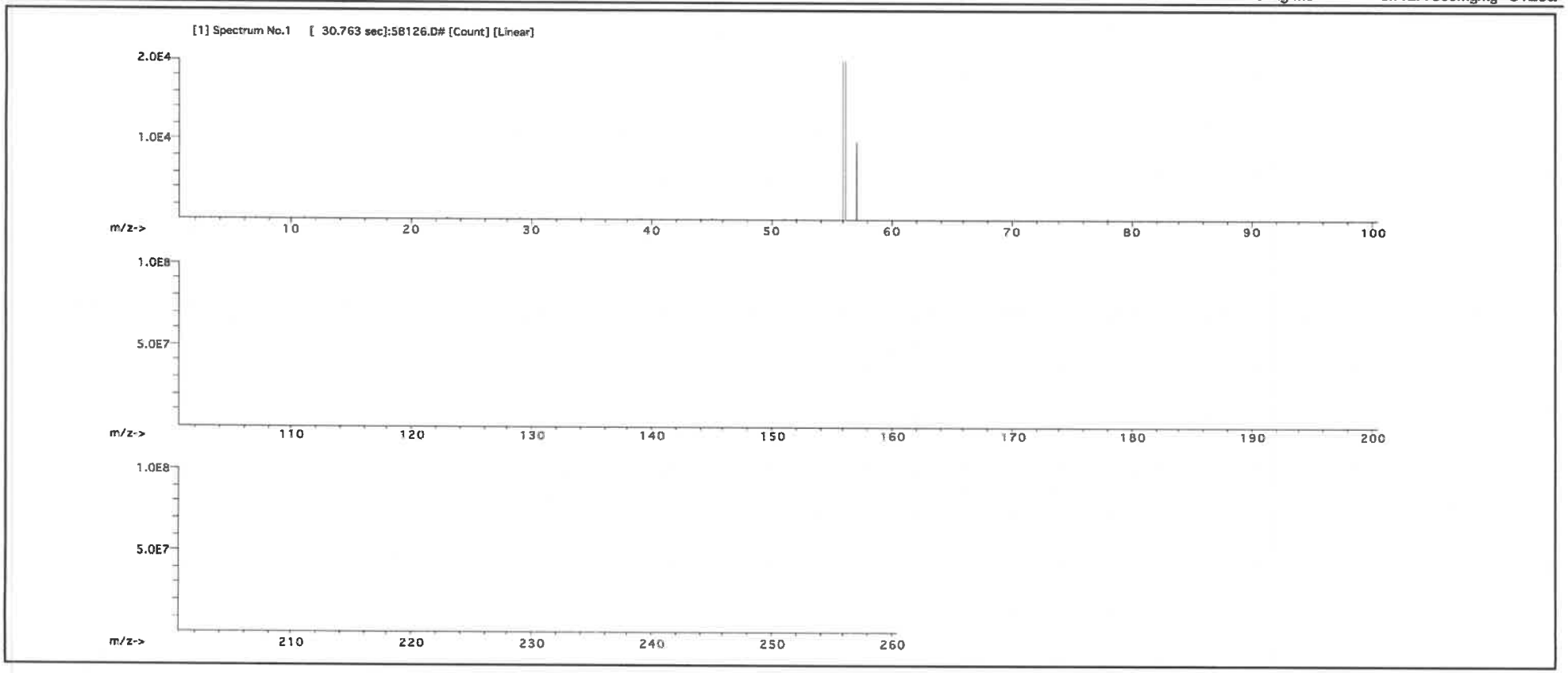
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #		
Solvent:	21110221	Nitric Acid		
	5.0%	250.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty		

Giovanni Esposito
Formulated By: Giovanni Esposito 051523

Pedro Rentas
Reviewed By: Pedro L. Rentas 051523

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 (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	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	<0.05	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	<0.10
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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

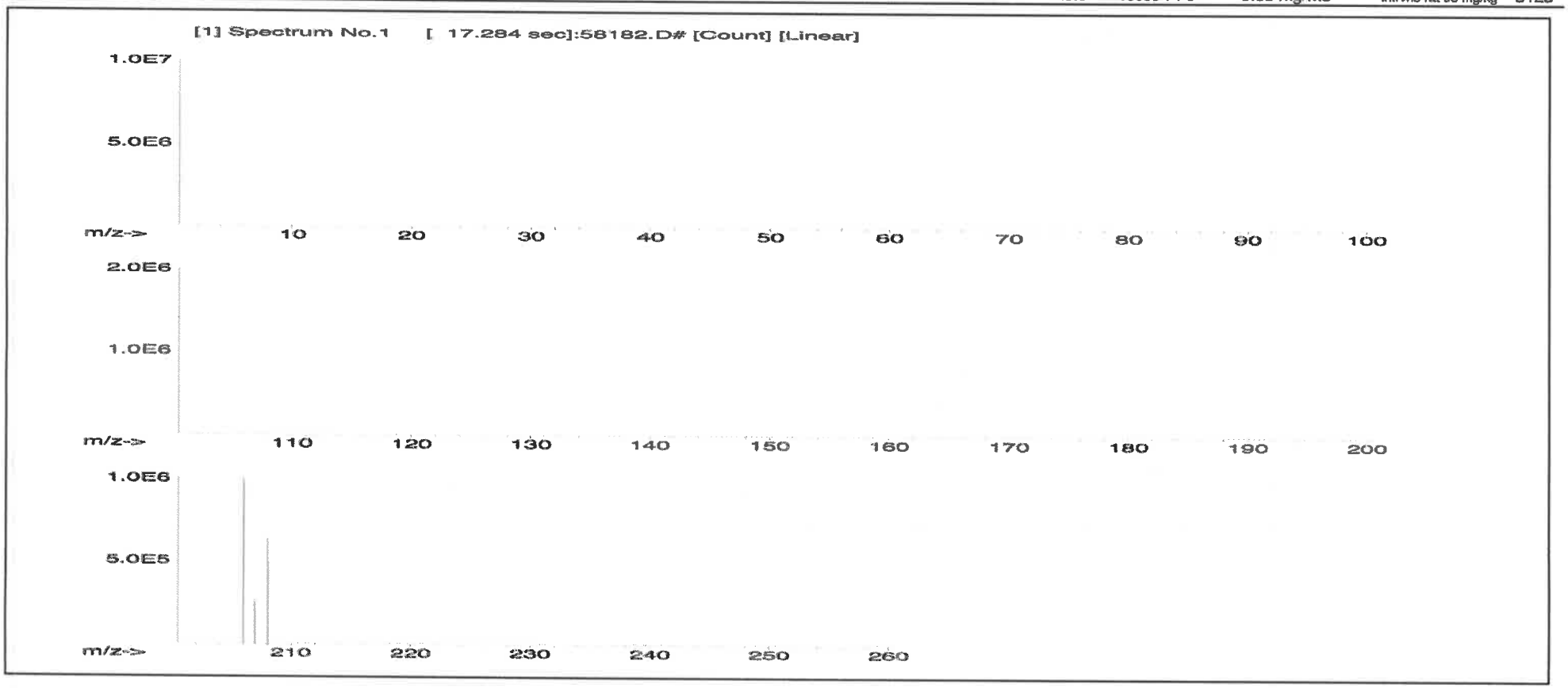
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6026

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

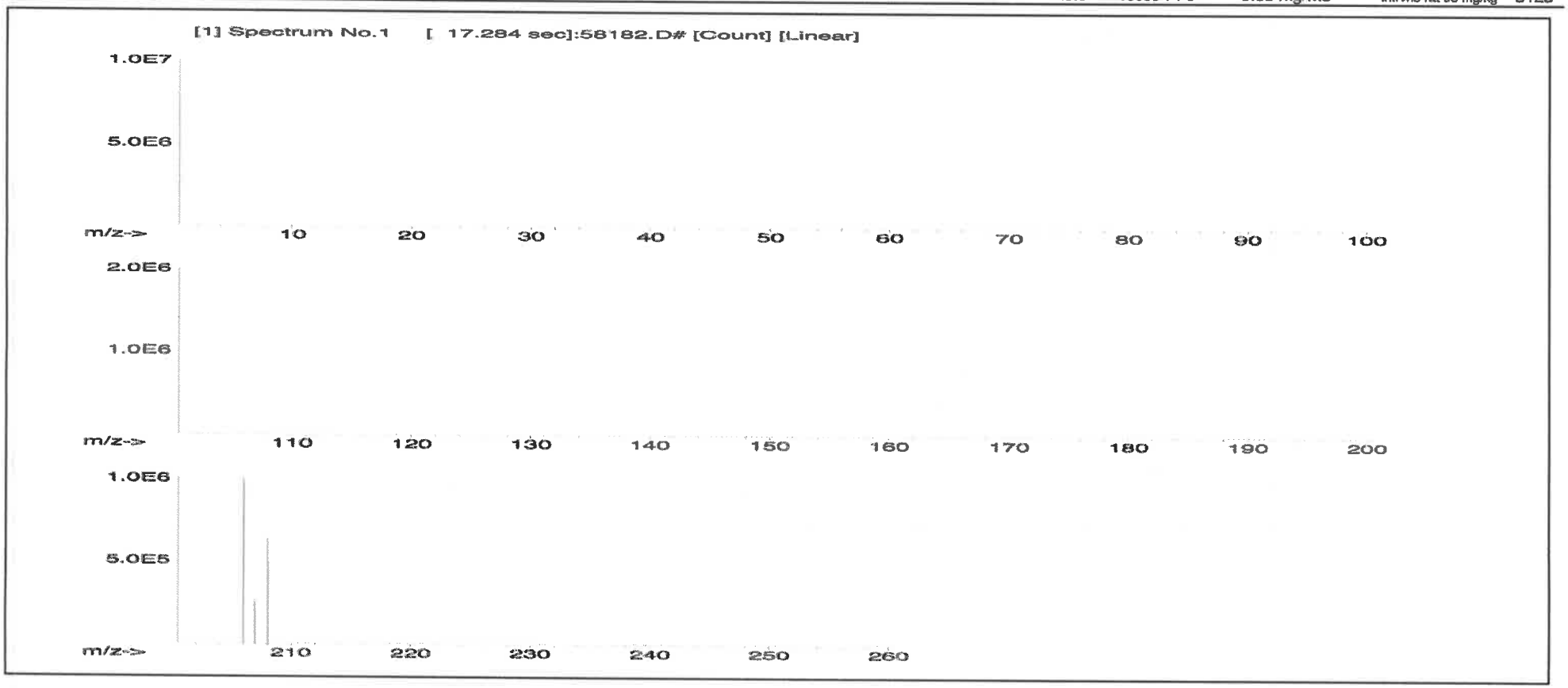
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546		Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	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).

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

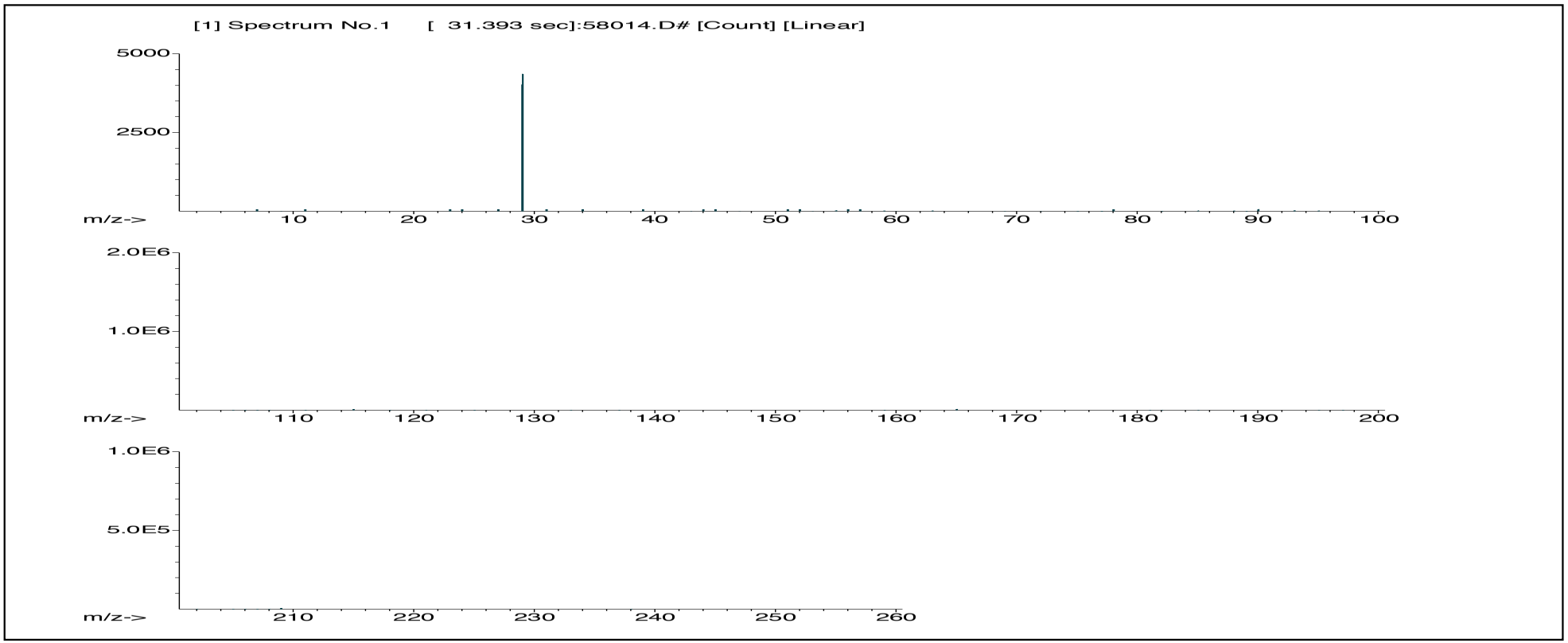
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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 030921
Reviewed By:	Pedro L. Rentas 030921

	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 hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass 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	T	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

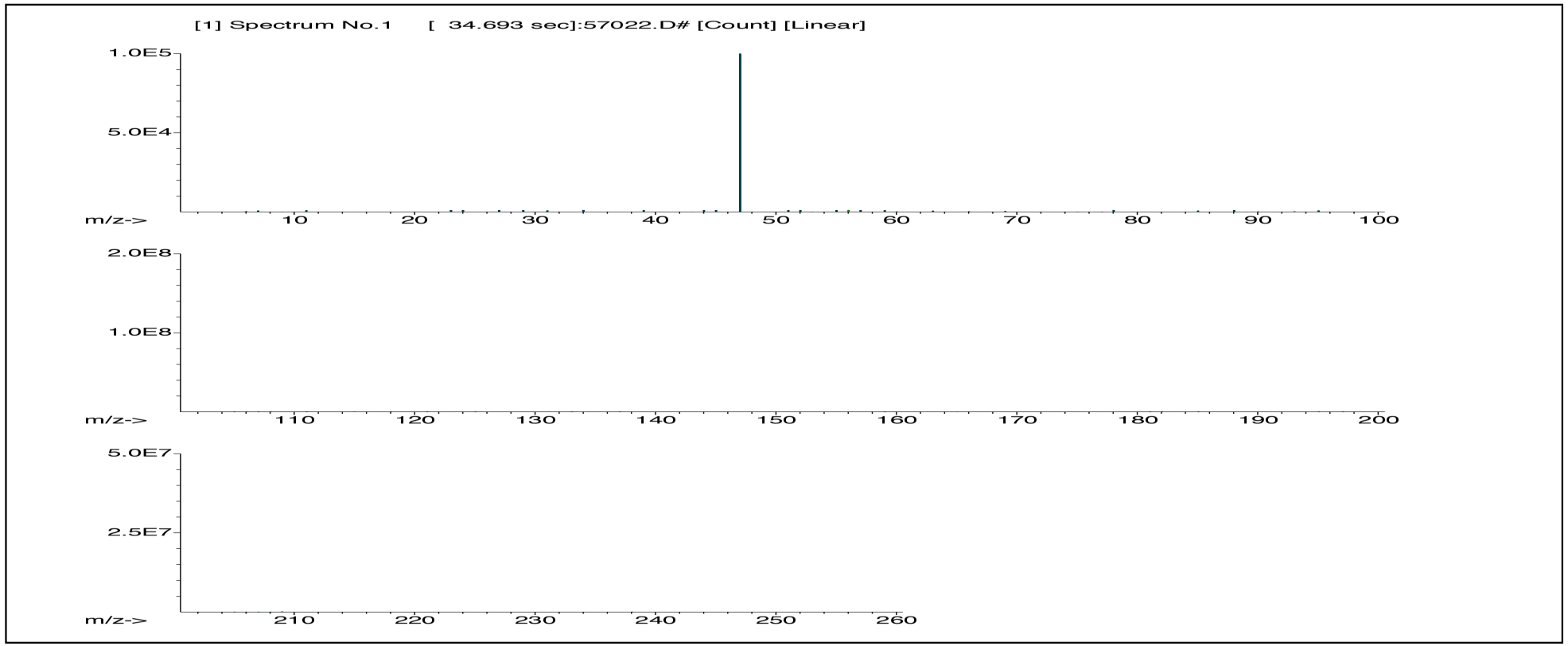
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070724			
Recommended Storage:	Ambient (20 ºC)			
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	070721
Reviewed By:	Pedro L. Rentas	070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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 hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	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).

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

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:

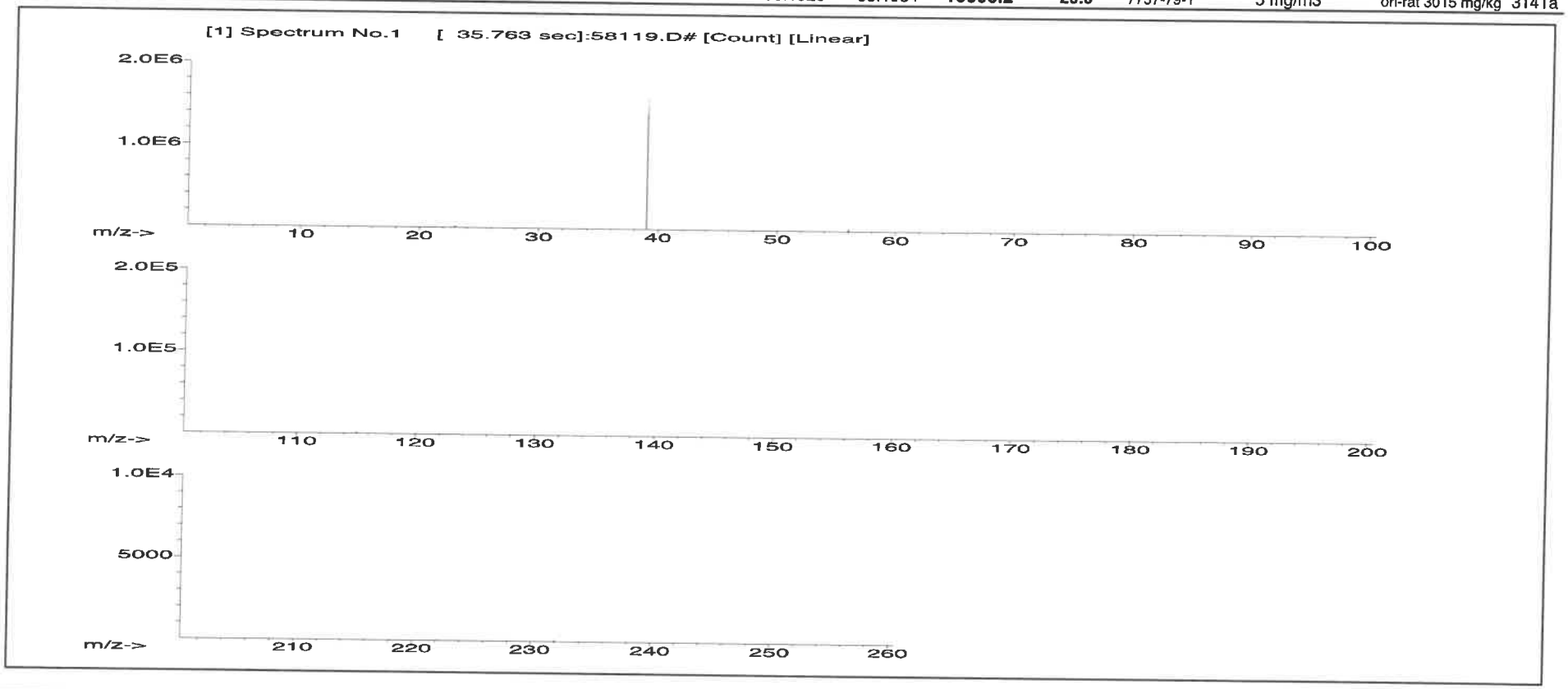
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Q1588-METALS

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

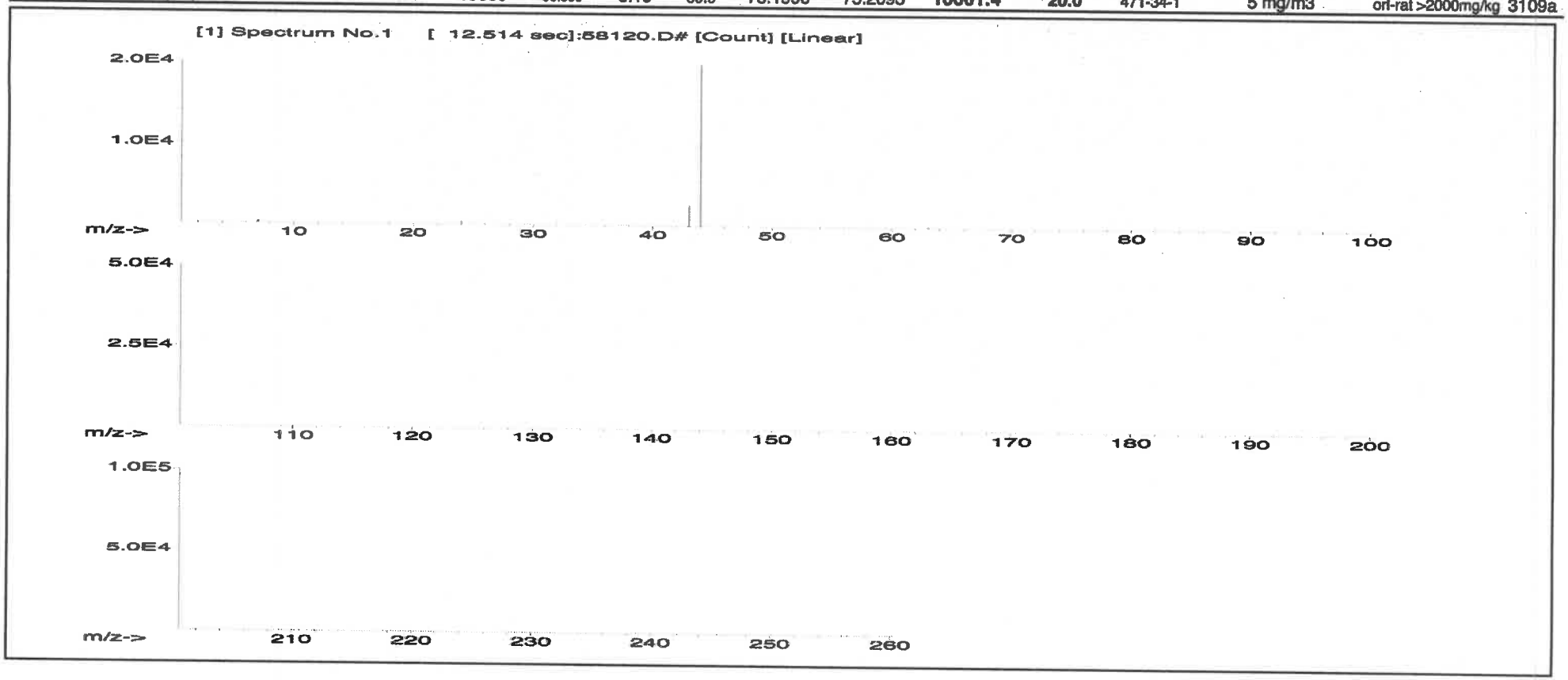
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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
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



CCSB-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	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M519. M520 BH R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 0.06 Flask Uncertainty

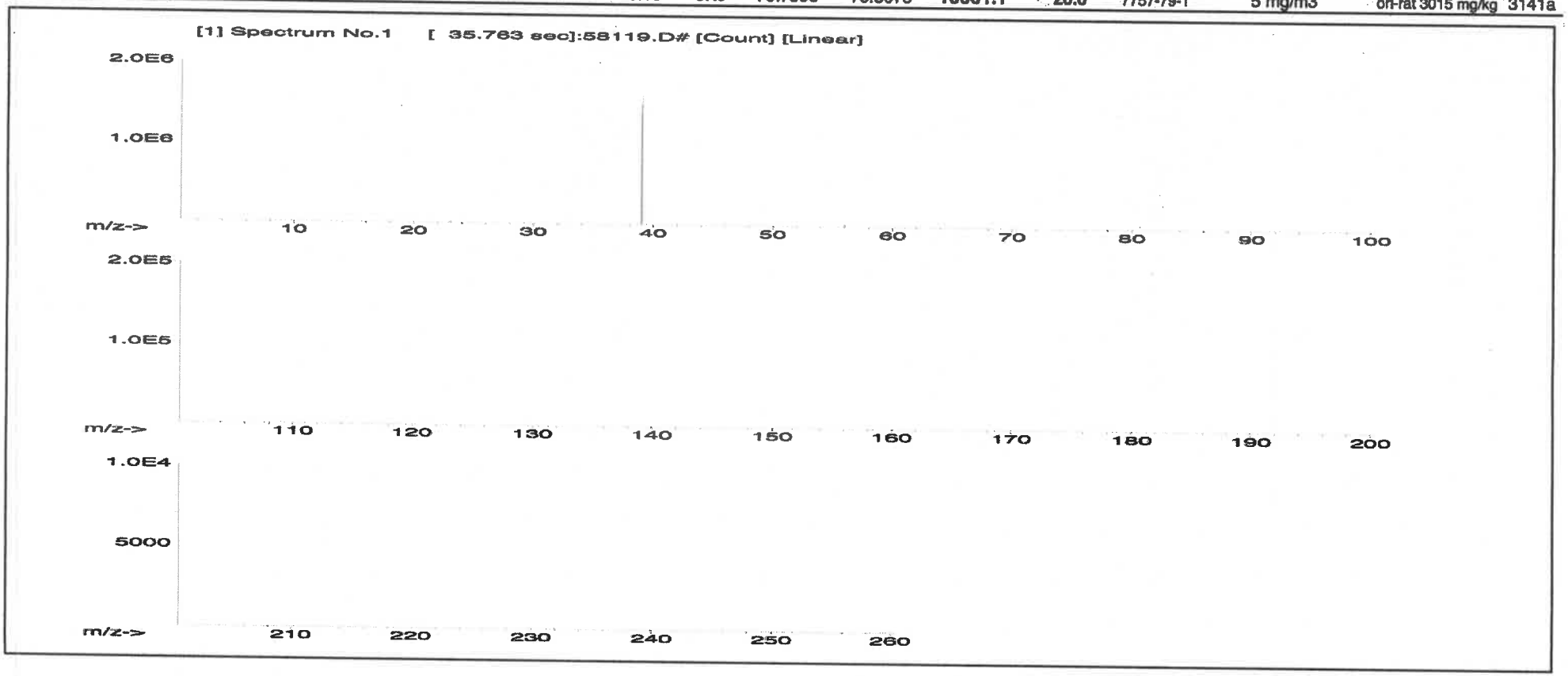
		Lot #	
Solvent:	20510011		Nitric Acid
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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).

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

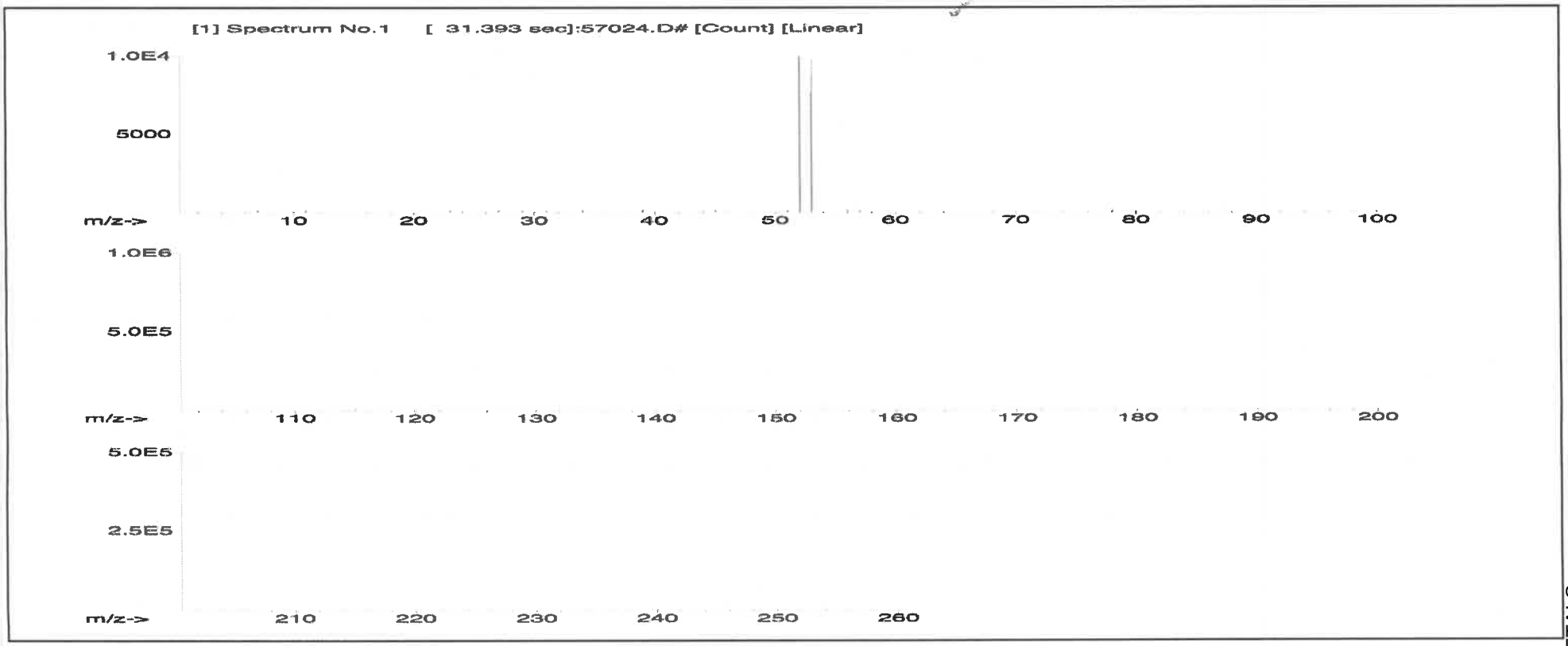
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/9/22

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

M5744, M5745 M5746

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:	T2-MEB716346
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 ± 0.05 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	170930
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

March 09, 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

- March 09, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/25/23 M5751

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

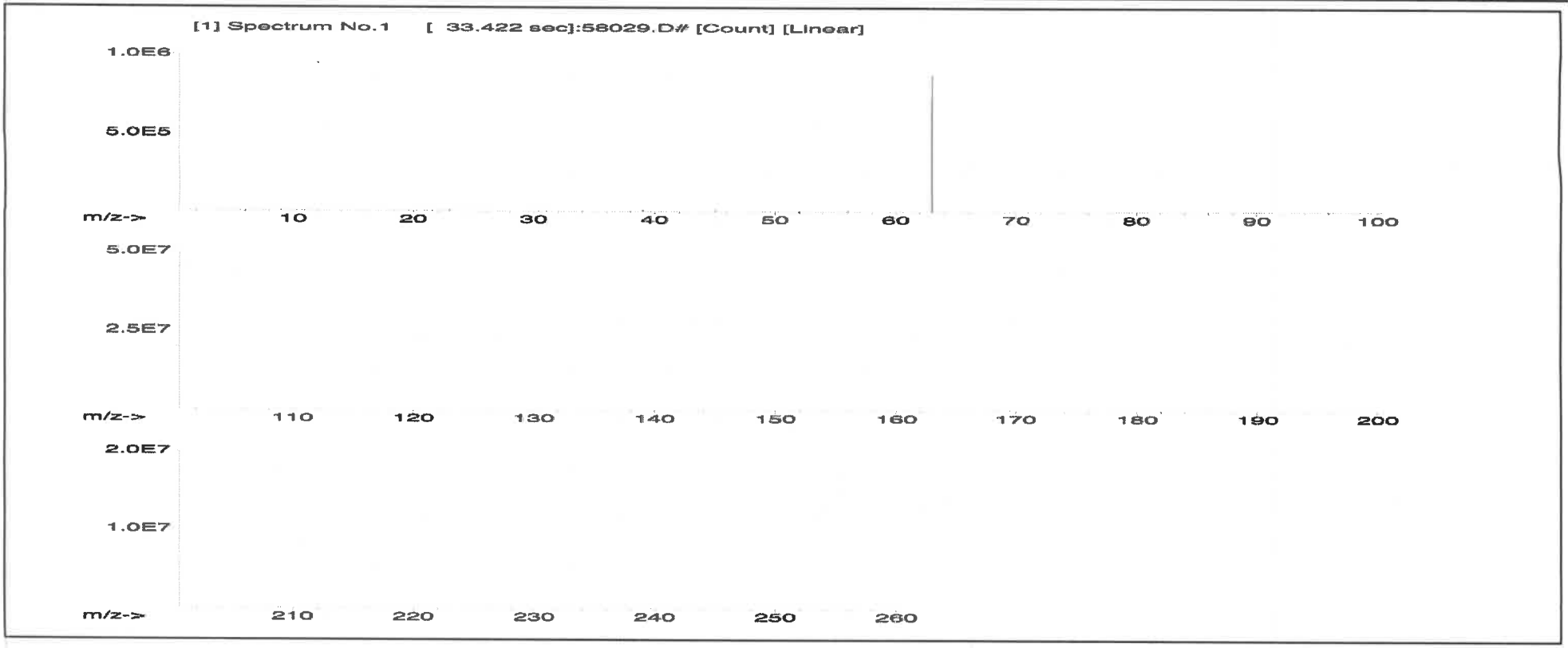
CERTIFIED WEIGHT REPORT:

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

878 of 955

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



Q1588-METALS

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are 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

R: 02/09/24 M5798

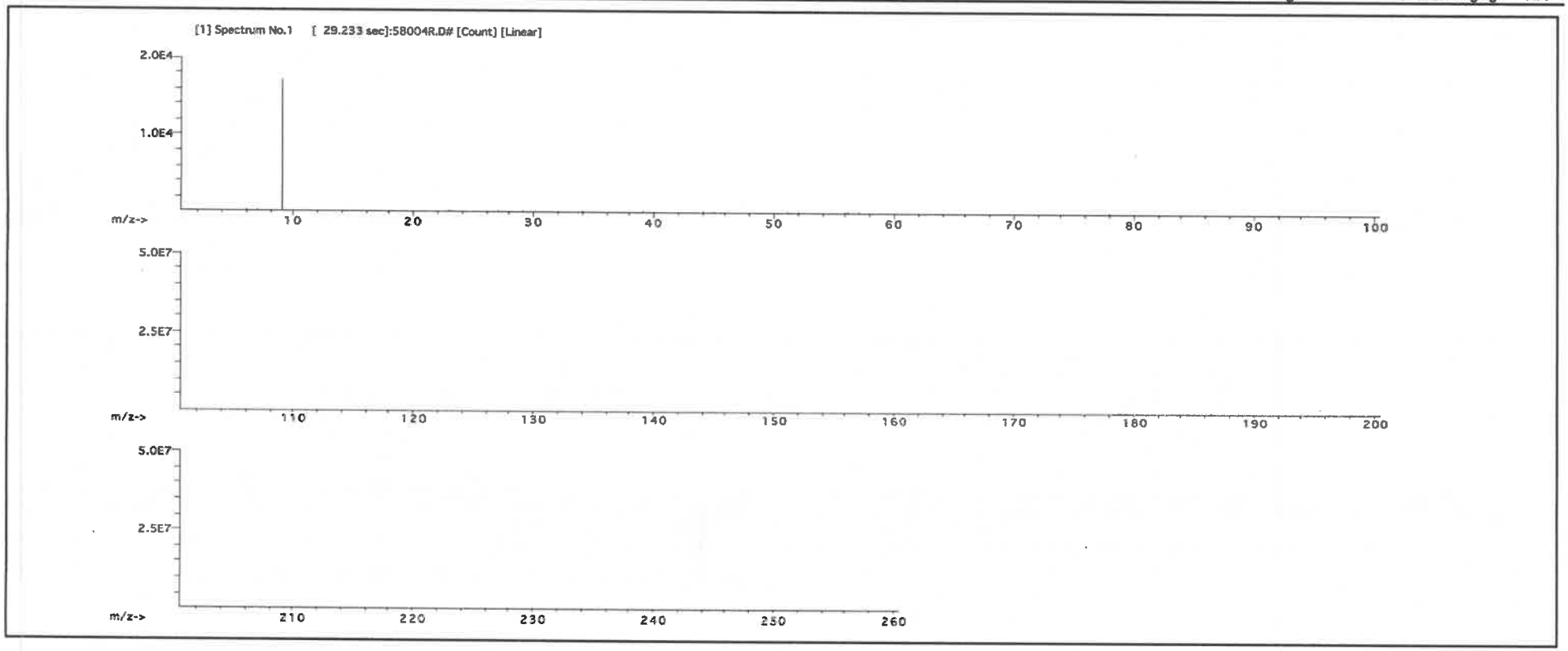
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



Q1868-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	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

R? 02/09/24 IV15799 (BA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

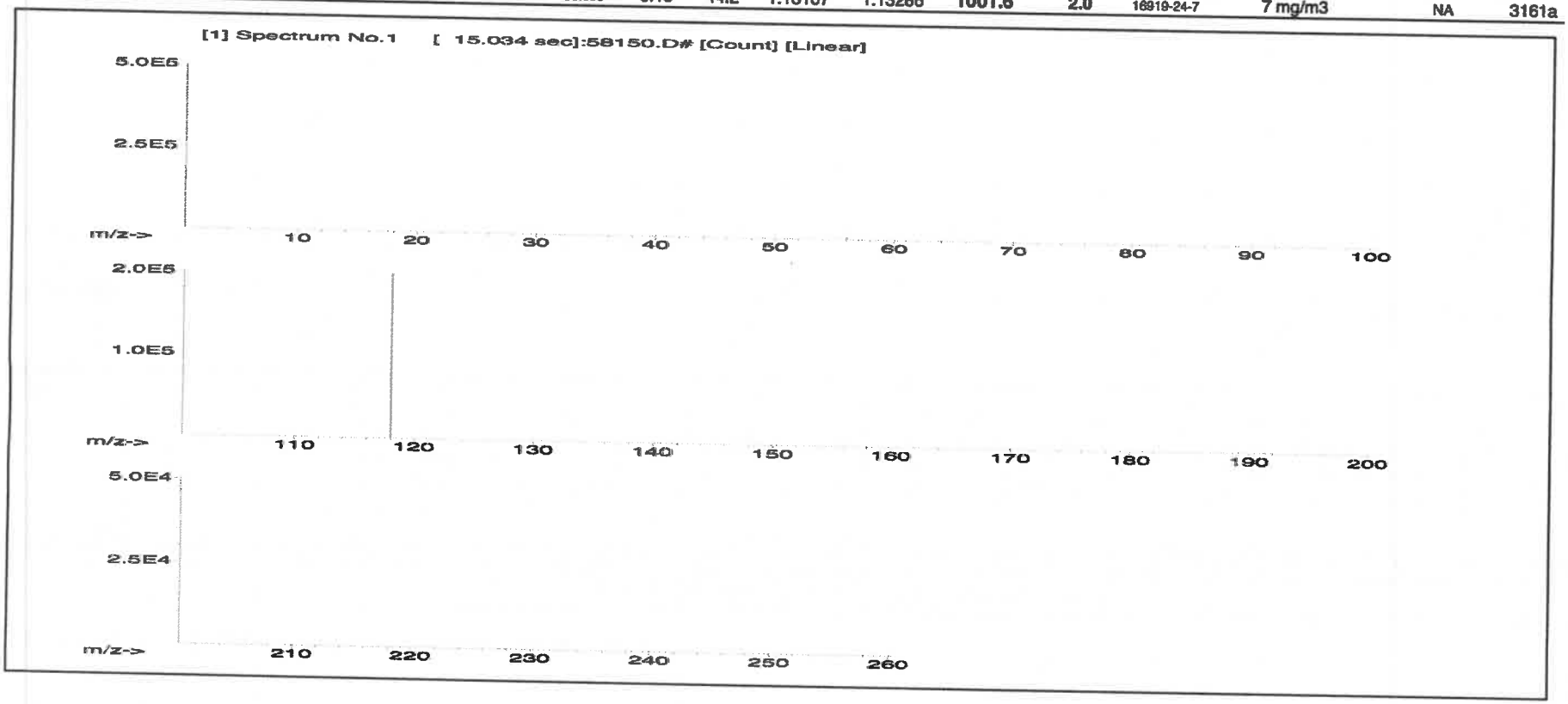
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<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.
* 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

R: 02/09/24 IM5800 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

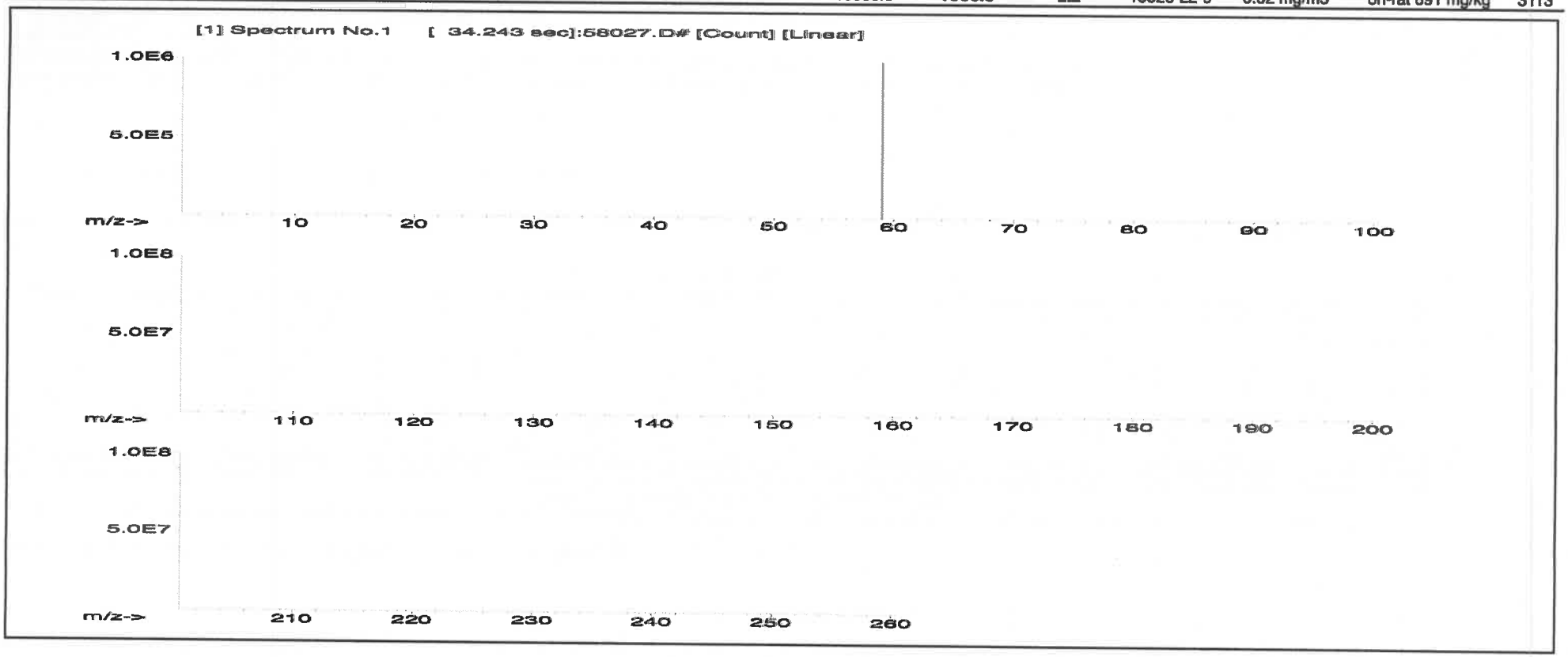
CERTIFIED WEIGHT REPORT:

		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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass 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.

* 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

R: 02/09/24 M5801 BH

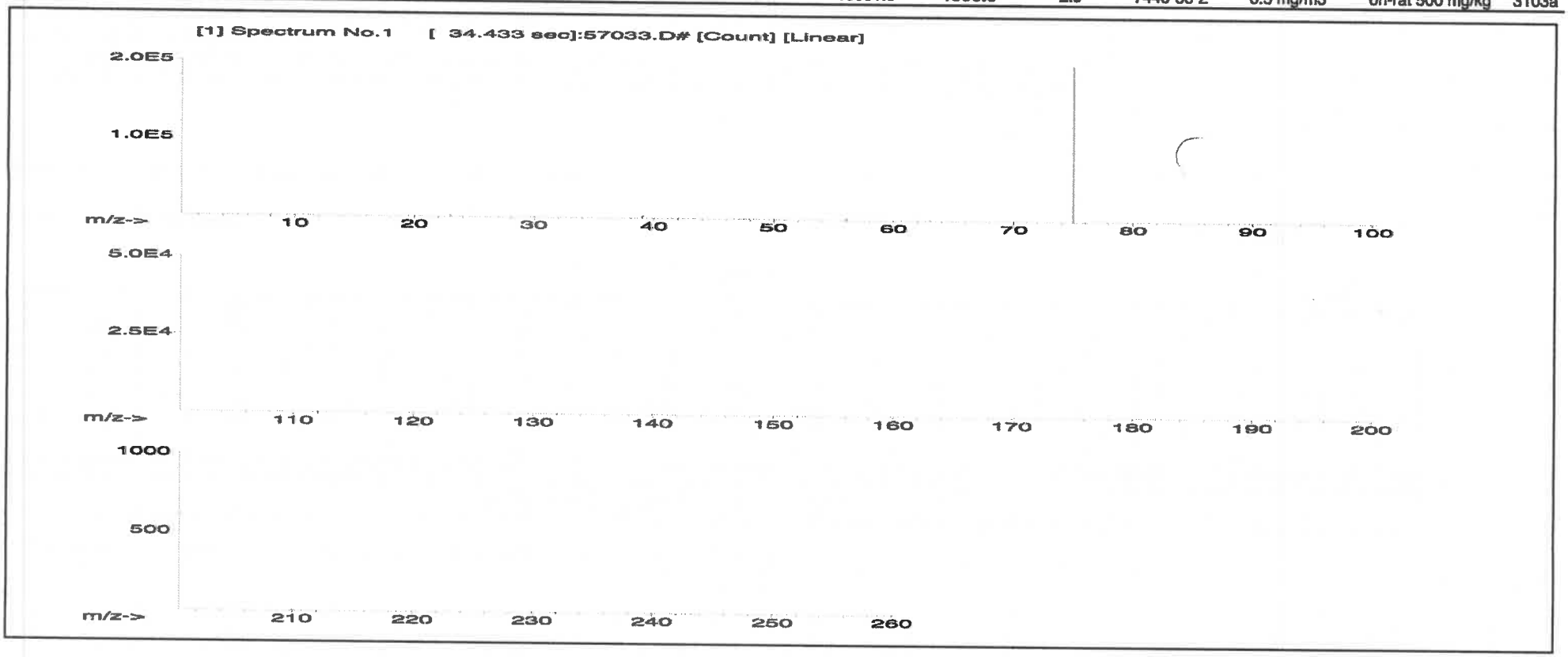
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	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.

* 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

R1 02/09/24. M58165

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

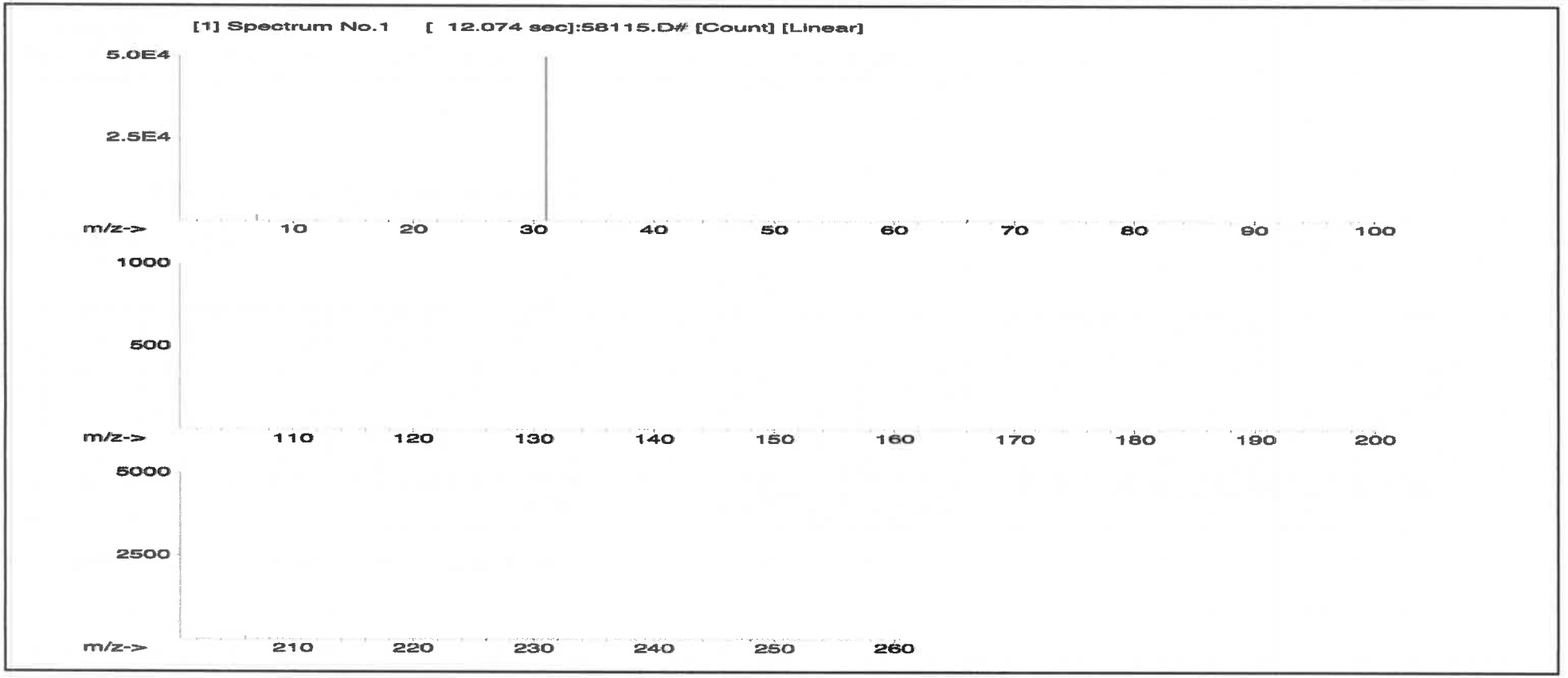
Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Expiration Date: 041726
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221		Nitric Acid
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass 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.

* 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

R: 02/09/24 M5817

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

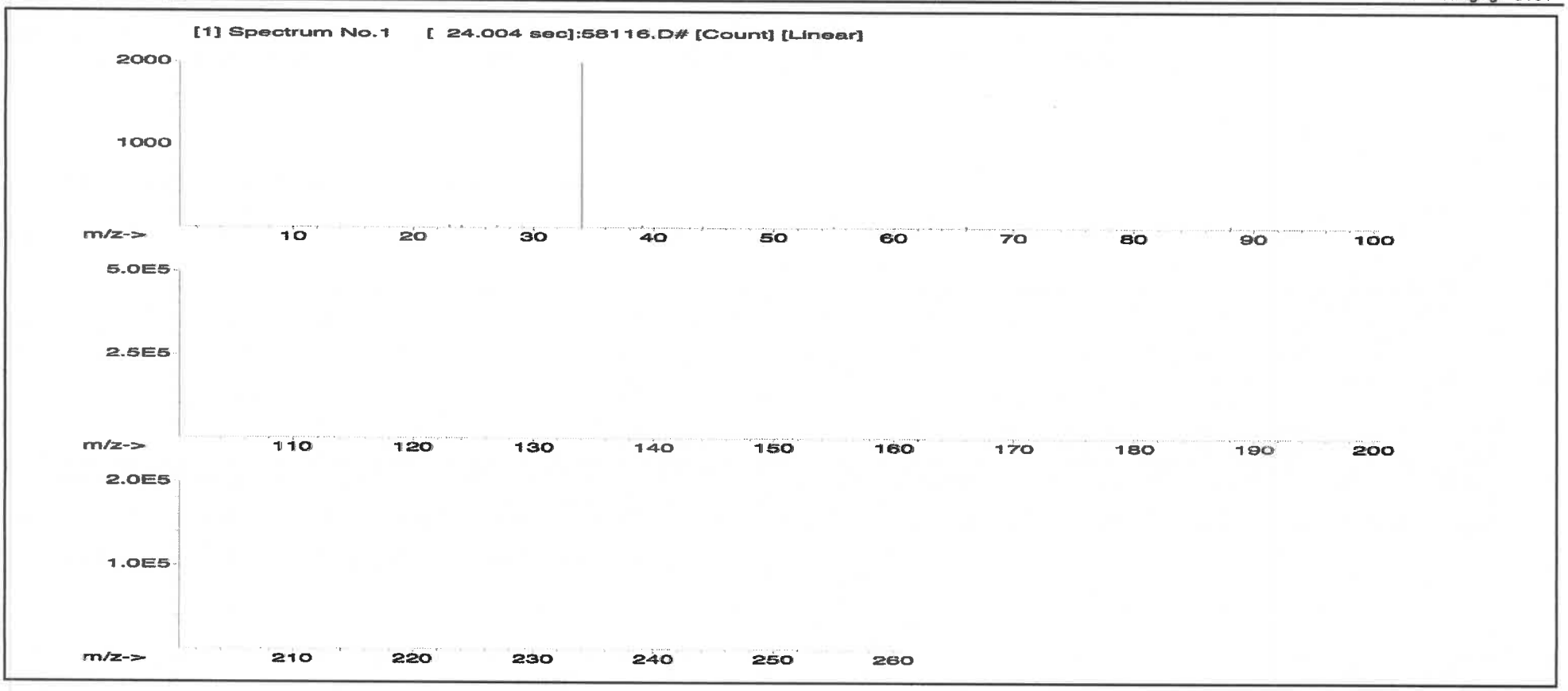
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

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

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	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:

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).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 02/22/24 M5942

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:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, 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	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5961 R: 6/11/24

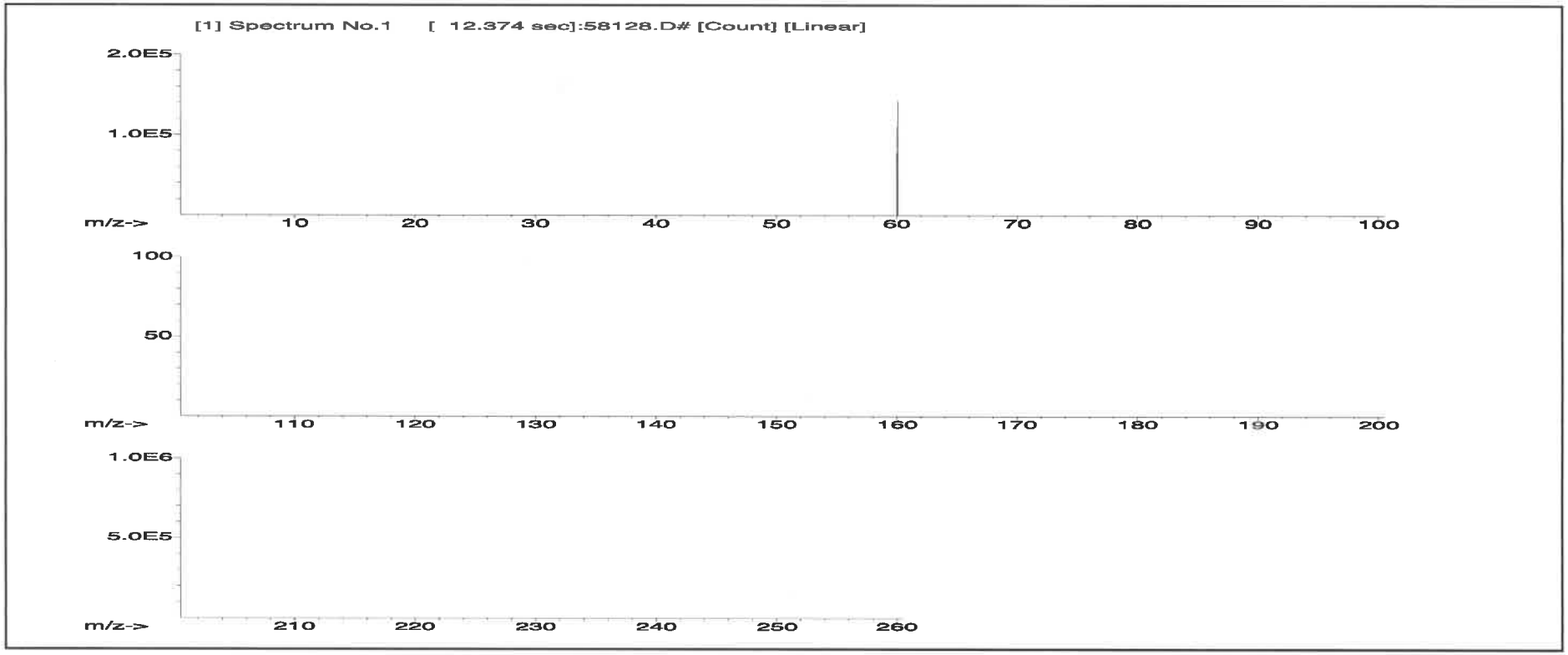
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

			Lot #		
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid	
Lot Number:	**041124**				
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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

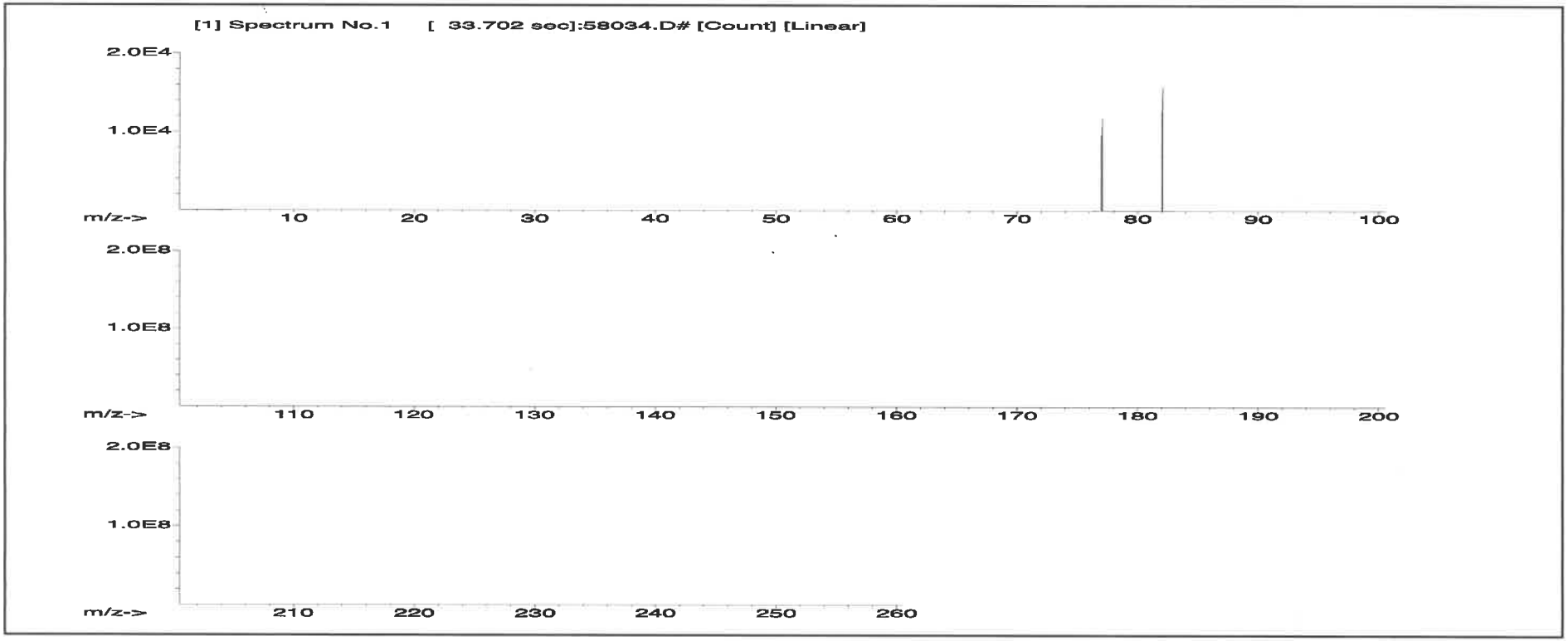
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5976, M5977
R: 02/22/24

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:	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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5981 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		

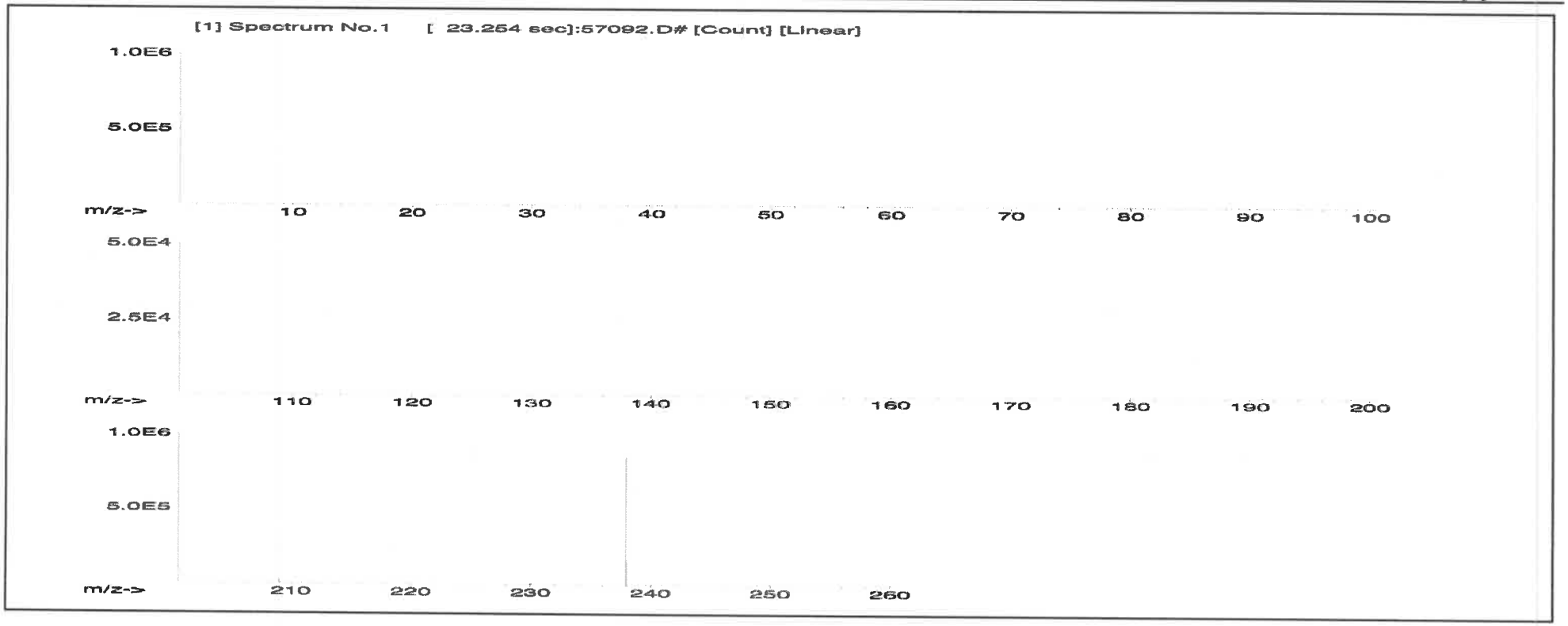
Giovanni Esposito

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	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).

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

INORGANIC VENTURES™
Refine your results. Redefine your industry.

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6079 R: 9/30/24

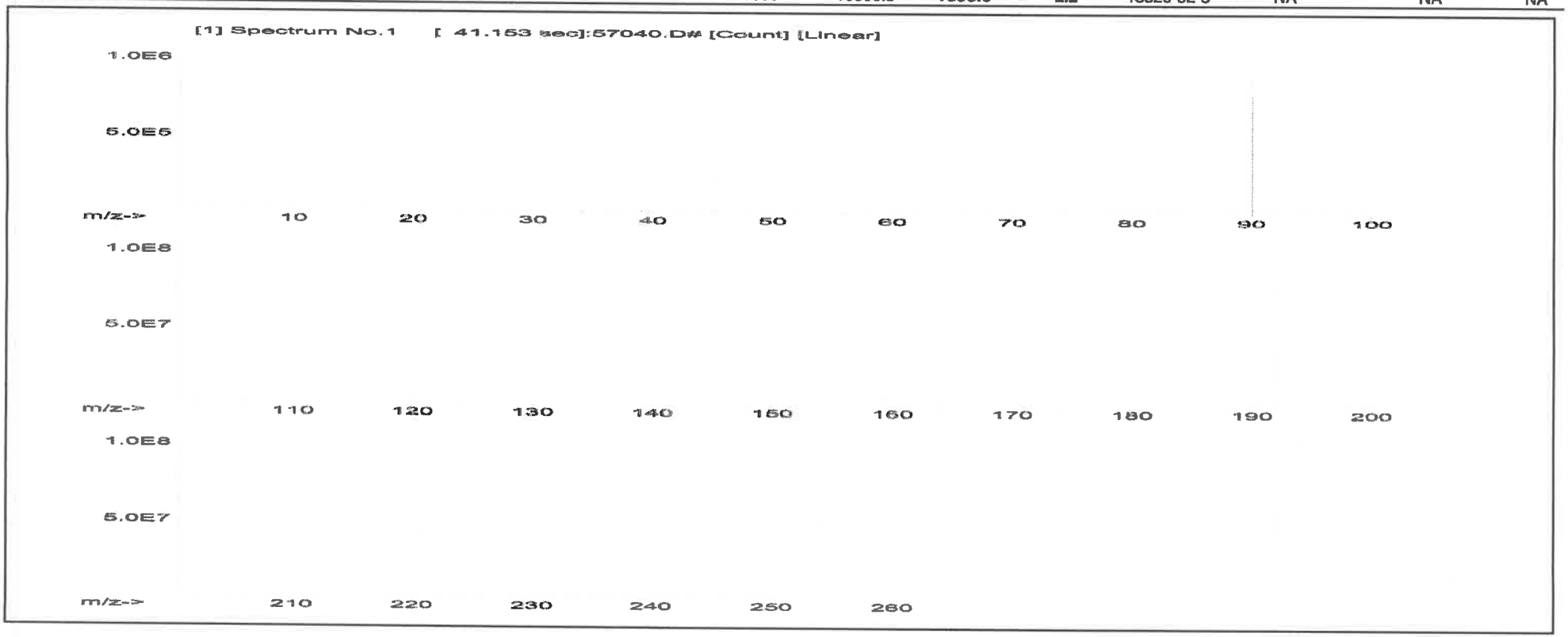
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<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).

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:

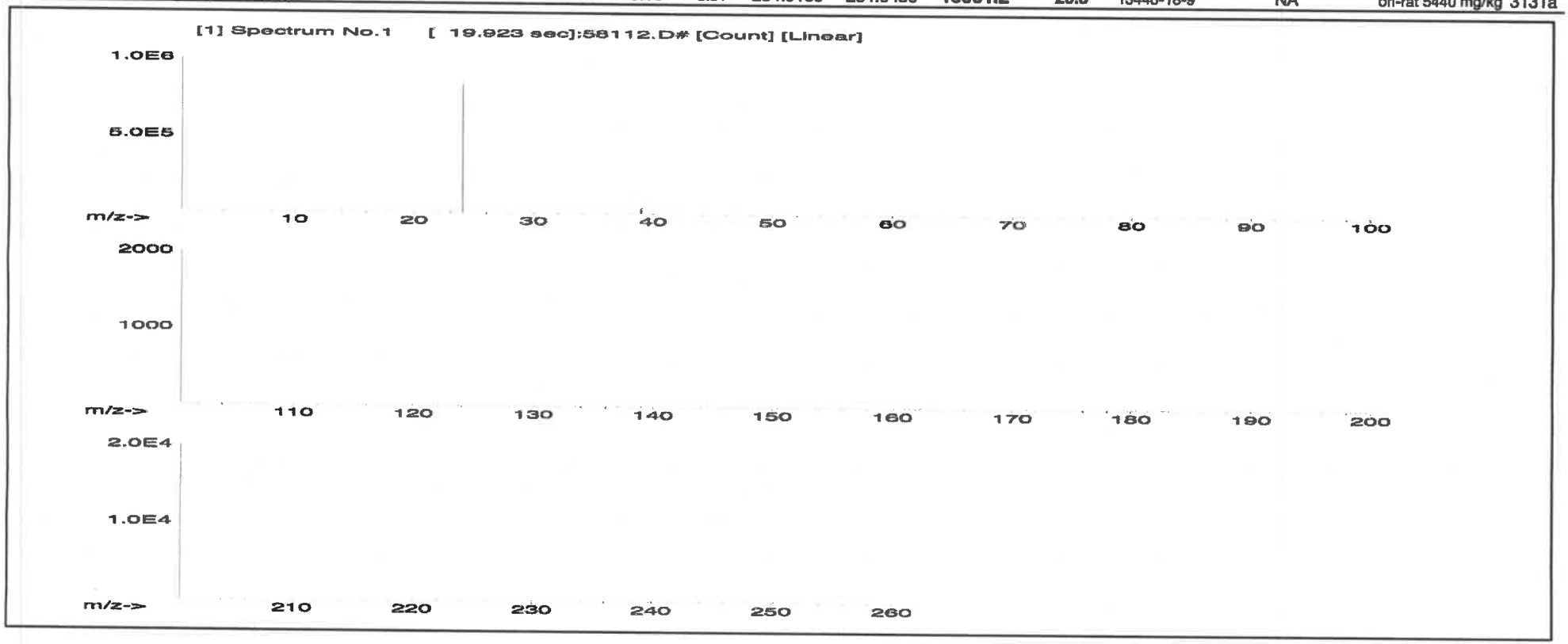
R→ 1/13/25
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
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
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

			Lot #	
Part Number:	**58025**	**Solvent:**	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	

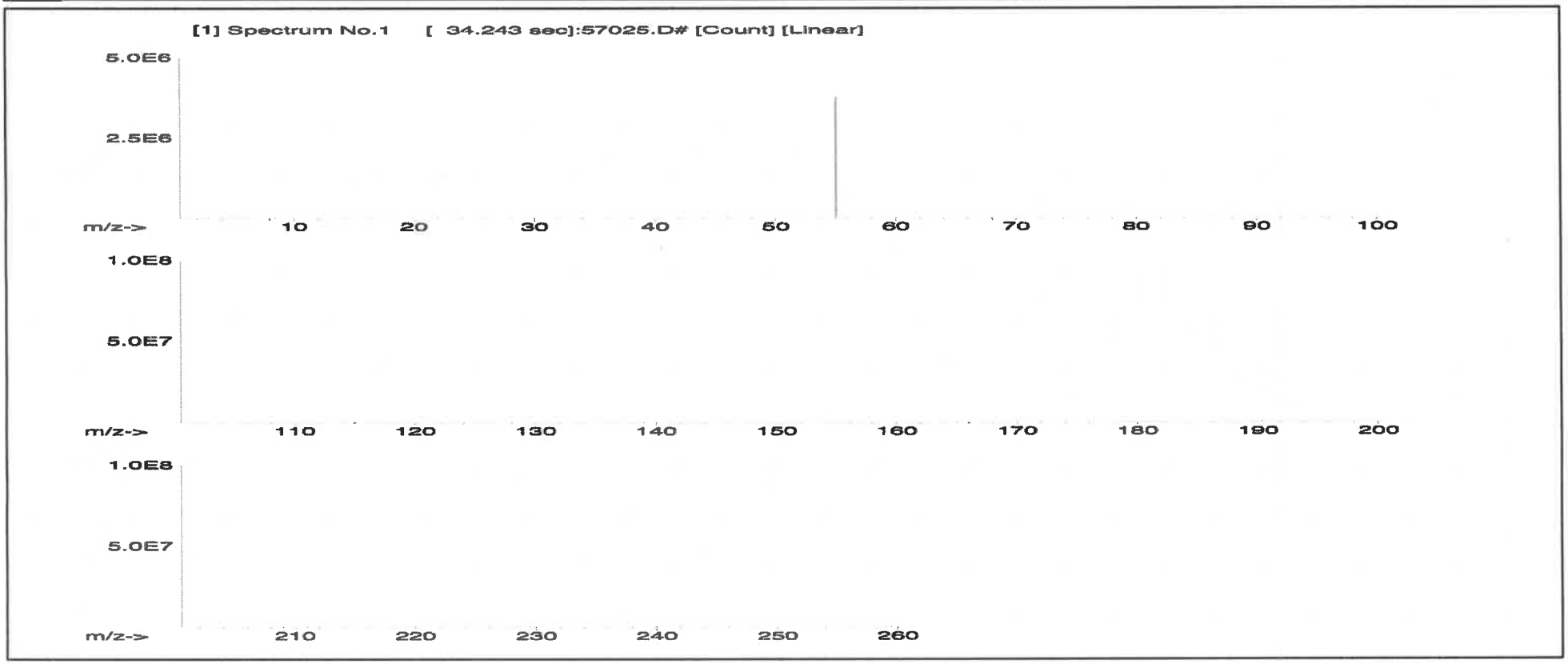
Giovanni Esposito

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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:

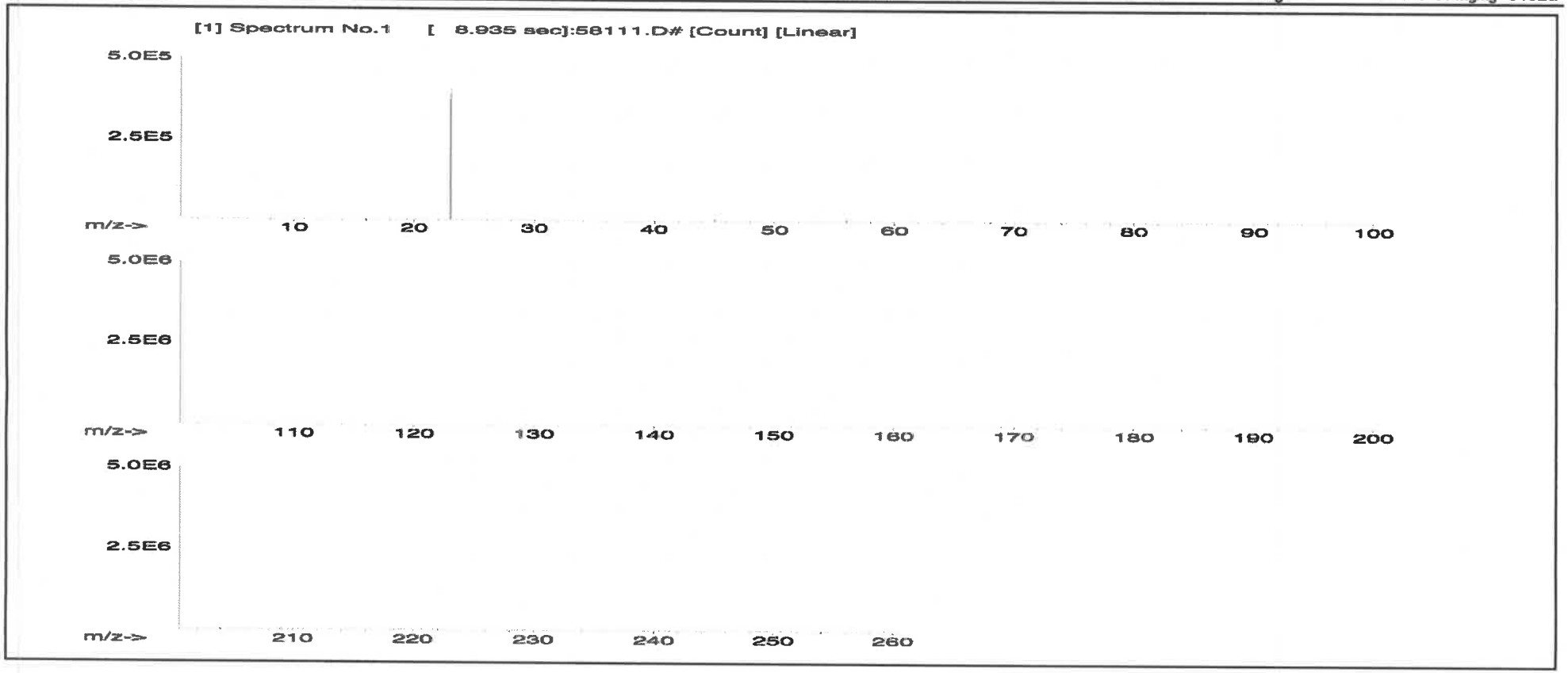
R->1/13/25

M6144

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Rentas	072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

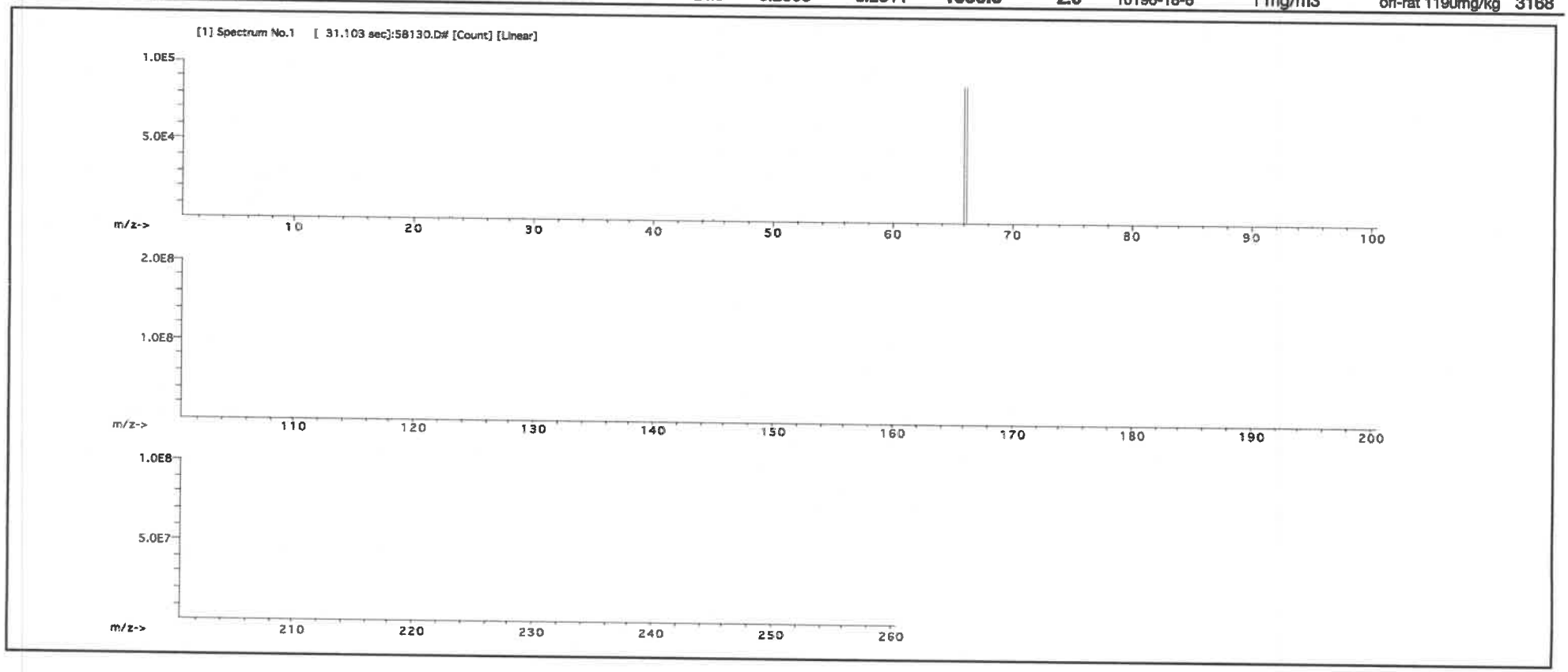
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.1 0.10 Flask Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

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

(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.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R→ 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Biosciences Production

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.

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

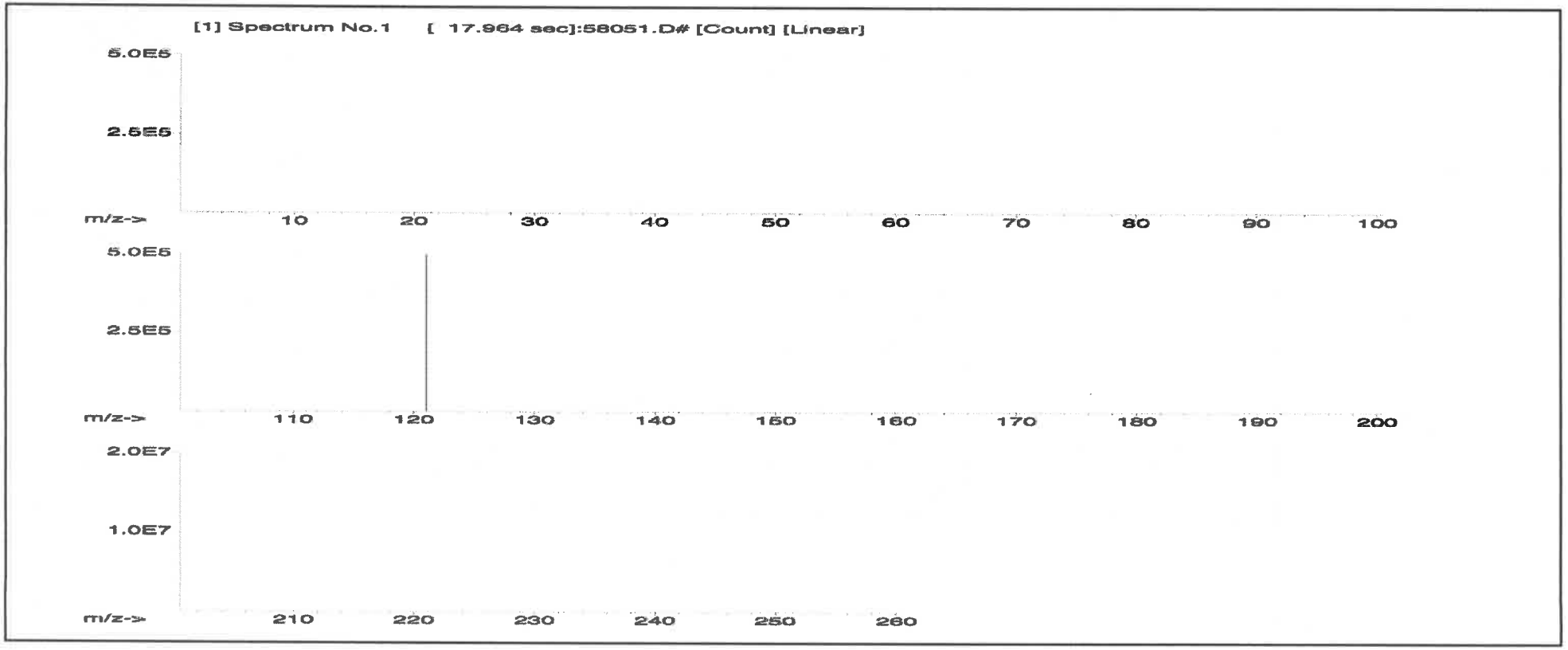
R: 01/03/24 M5802, M5803

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

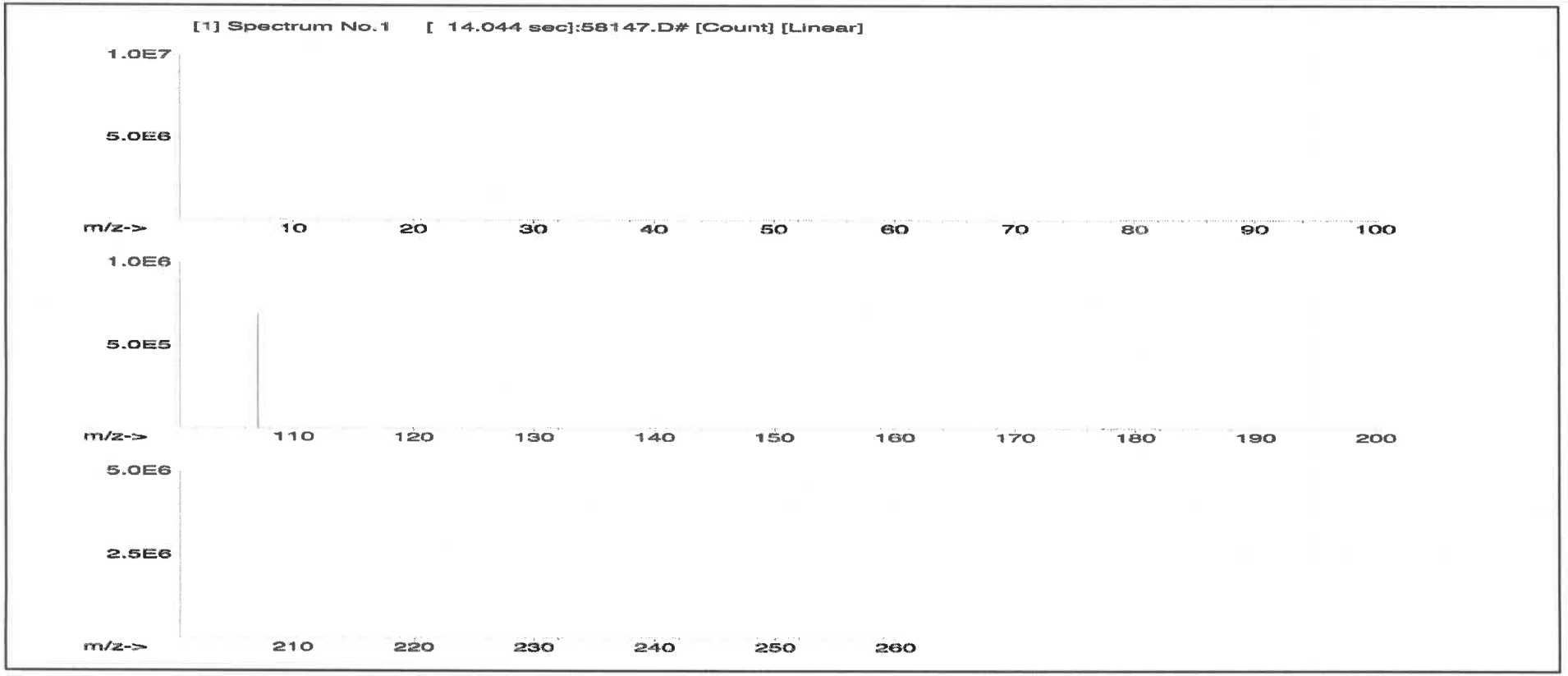
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

		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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
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):	2000.26	0.058	Flask Uncertainty	

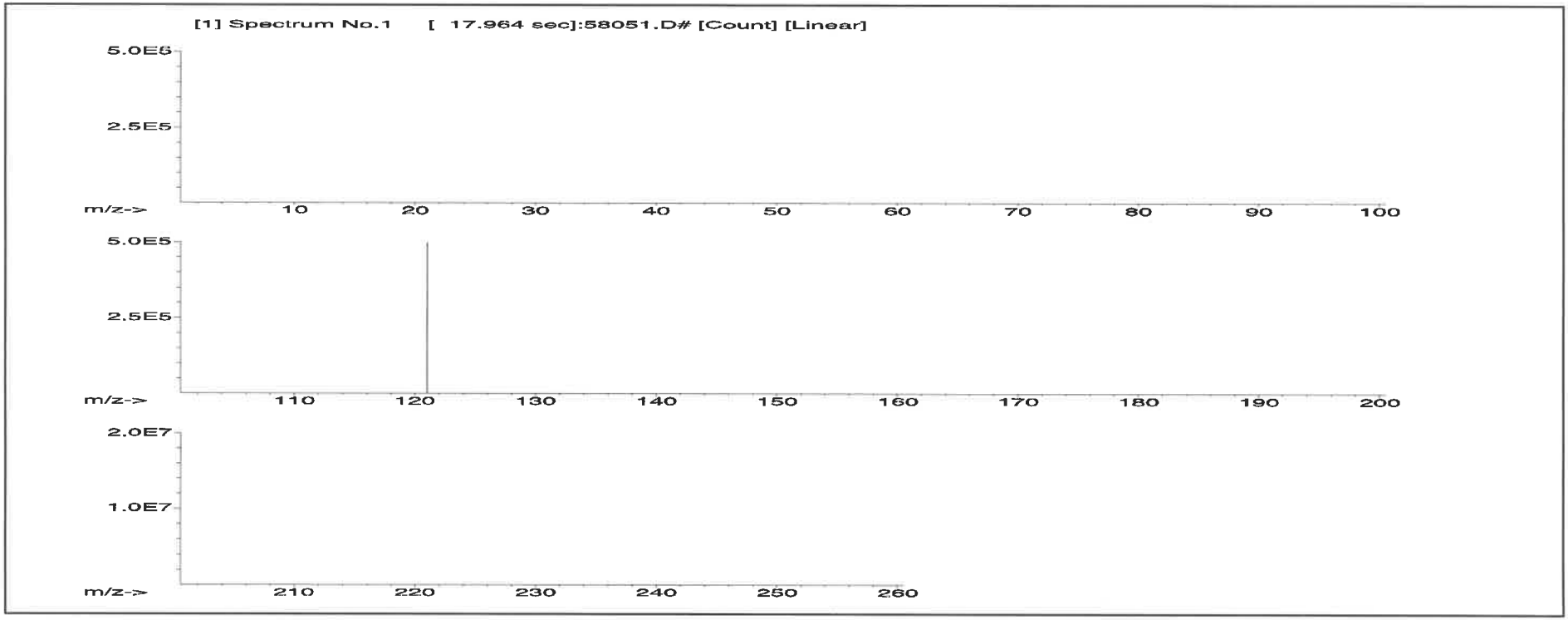
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

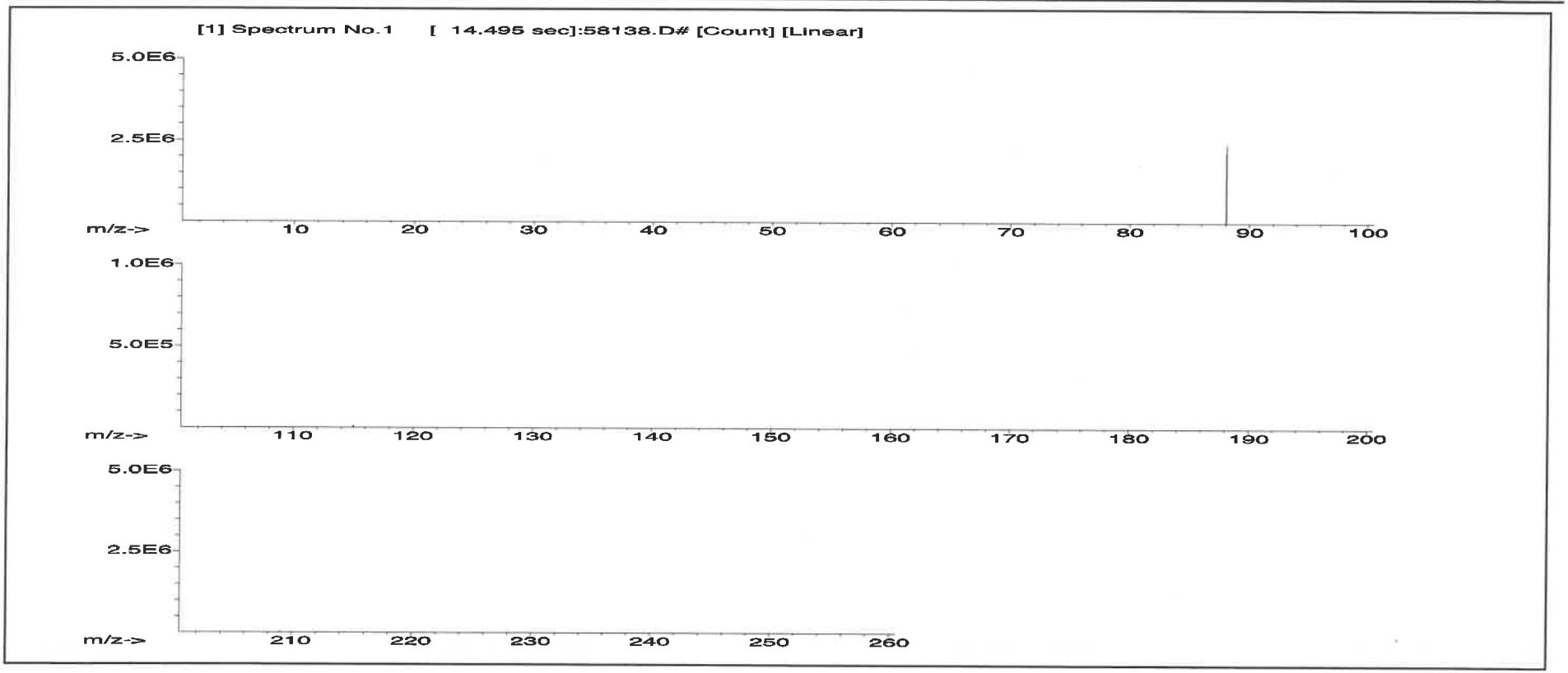
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass 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).
* 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

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (Tl)

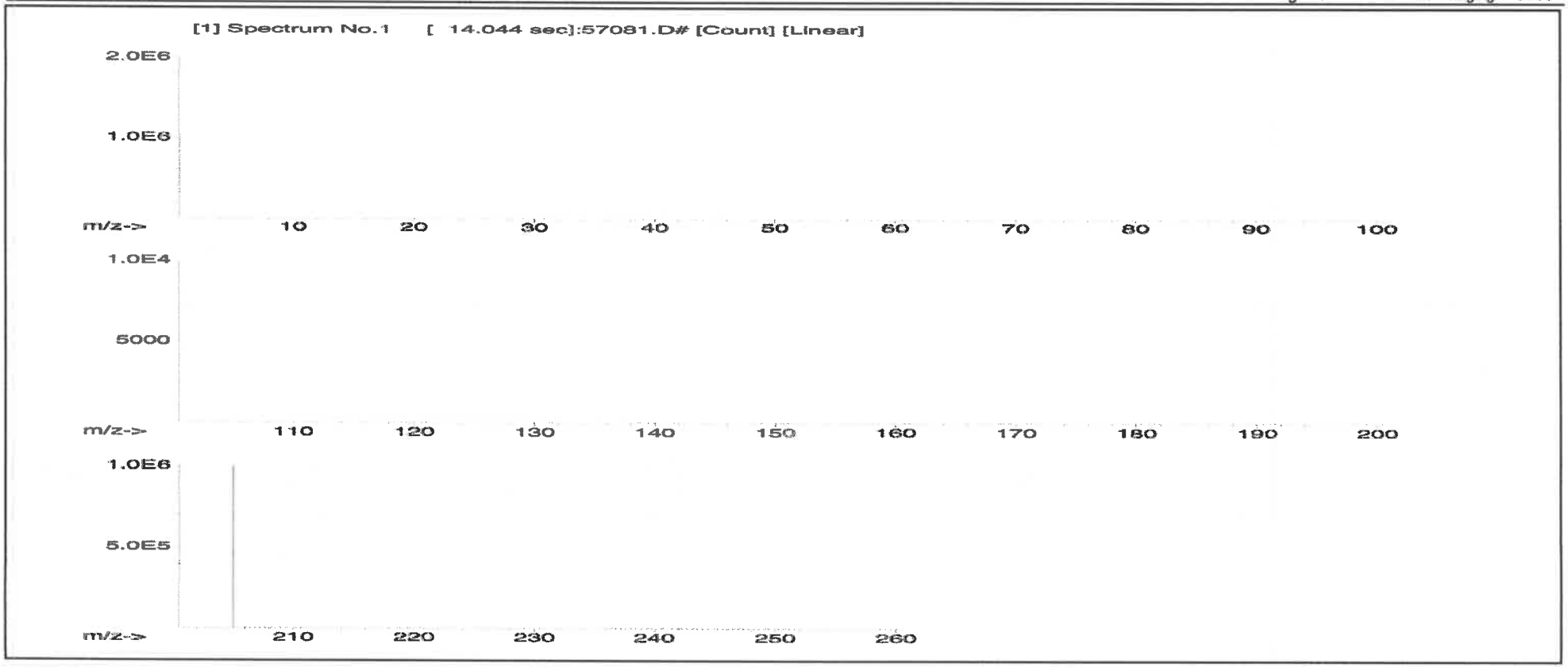
Expiration Date: 062727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.1

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.10	Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	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.
* 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

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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	

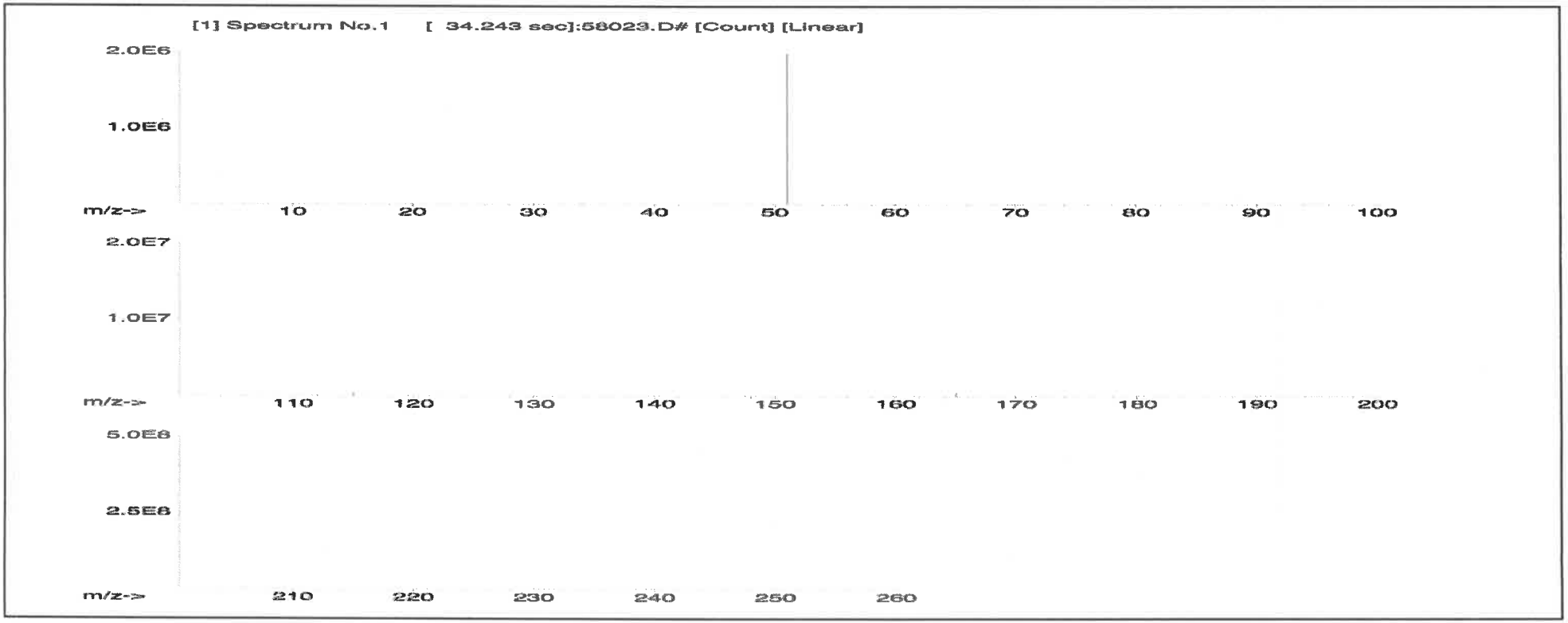
Aleah O'Brady

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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).

SHIPPING DOCUMENTS

Q1588

Weston COC ID
Weston_20250314_1429

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:**	Yazmeen Gomez
TAT (days):	10	**Lab Phone:**	908-728-3144
Lab Address:	284 Sheffield Street, Mountainside, NJ 07092		

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

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

#	Sample ID	G/C	Matrix	# Cont.	MS/MSD	Date Collected	Time Collected	Analyses Requested: Hardness by EPA 200.7 & SM2340B	TOC by EPA 9060A/Lloyd Kahn	Metals w Hg by EPA 6020B/7470A	Special Instructions/Comments
	Container Type:							Plastic	Vial	Plastic	
	Container Size:							1 L	40 mL	500 mL	
	Preservative:							HNO3 to pH <	H2SO4 to < 2	HNO3 to pH <	
1	TAPFTA-MW01D-031425-00-T1	g	GW	4	no	3/14/2025	13:25	X	X	X	elevated turbidity noted
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

Shipping Airbill Number:

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time
1.)		3/14/25	1450		3-17-25	0700
2.)						
3.)						

Additional Comments

QSM 6.0 Compliant

Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD

2.2°C

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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