SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No.: SDG No.: MJNKL4

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MJNKL4	P5158-01		X		
MJNKL4D	P5158-02		X		
MJNKL4S	P5158-03		X		
MJNKL5	P5158-04		X		
MJNKM5	P5158-05		X		
MJNKM6	P5158-06		X		
MJNKP8	P5158-07		X		
MJNKP9	P5158-08		X		
MJNKQ0	P5158-09		X		
MJNKQ1	P5158-10		X		
MJNKQ2	P5158-11		X		
MJNKQ8	P5158-12		X		
MJNL17	P5158-13		X		
MJNL18	P5158-14		X		
MJNL19	P5158-15		X		
MJNL49	P5158-16		X		
MJNL62	P5158-17		X		
MJNL63	P5158-18		X		
MJNL71	P5158-19		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

68HERH20D0011 SDG # MJNKL4

USEPA CLP COC (LAB COPY)
DateShipped: 12/5/2024
CarrierName: FedEx
AirbillNo: 7705 3089 3078

CHAIN OF CUSTODY RECORD

Case #: 51821
Cooler #: 3

No: 10-120524-143102-0004
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MJNKL4	MJNKL4	Sediment/ CT	Grab	ICP-MS(21)/PR	1396 (< 6 C) (1)	OU6-CS-YB02-0.0-1.0	12/03/2024 12:45	1-Qe
MJNKL5	MJNKL5	Sediment/ CT	Grab	ICP-MS(21)/PR	1397 (< 6 C) (1)	OU6-CS-YB02-0.0-1.0-FD	12/03/2024 12:45	L
MJNKM5	MJNKM5	Sediment/ LV	Grab	ICP-MS(21)/PR	1407 (< 6 C) (1)	OU6-CS-YB03-0.0-1.0	12/03/2024 15:25	3
MJNKM6	MJNKM6	Sediment/ CT	Grab	ICP-MS(21)/PR	1408 (< 6 C) (1)	OU6-CS-YB03-1.0-2.0	12/03/2024 15:30	4
MJNKP7	MJNKP7	Sediment/ LV	Grab	ICP-MS(21)/PR	1234 (< 6 C) (1)	OU6-CS-YB05-0.0-1.0	12/04/2024 10:10	.
MJNKP8	MJNKP8	Sediment/ LV	Grab	ICP-MS(21)/PR	1430 (< 6 C) (1)	OU6-CS-YB05-0.0-1.0-FD	12/04/2024 10:10	5
MJNKP9	MJNKP9	Sediment/ LV	Grab	ICP-MS(21)/PR	1431 (< 6 C) (1)	OU6-CS-YB05-1.0-2.0	12/04/2024 10:20	6
MJNLH1	MJNLH1	Sediment/ CT	Composite	TCLP-Metals(21)/PR	1241 (< 6 C) (1)	OU6-CS-YB02-0.0-1.4	12/03/2024 13:15	8
MJNLH2	MJNLH2	Sediment/ HH	Composite	TCLP-Metals(21)/PR	1242 (< 6 C) (1)	OU6-CS-YB05-0.0-2.0	12/04/2024 11:17	9

Sample(s) to be used for Lab QC: MJNKL4 Tag 1396, MJNKP7 Tag 1234 0543494, 0543497

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP Metals (As, Cu, Pb, Zn)-Sediment, TCLP-Metals=CLP TCLP Metals (As, Ba, Cd, Cr,Pb,Se,Ag, Hg)-Sed

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Jacobs	12/5/24 1600		1010 12-6-24	IR-Cont#1 2x Custody Seal (Tabs) Trip Blk present

68HERH20D0011 SDG # MJNKL4

USEPA CLP COC (LAB COPY)
DateShipped: 12/5/2024
CarrierName: FedEx
AirbillNo: 7705 3093 7563

CHAIN OF CUSTODY RECORD

Case #: 51821
Cooler #: 4

No: 10-120524-145421-0006
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MJNKQ0	MJNKQ0	Sediment/ LV,HH	Grab	ICP-MS(21)/PR	1432 (< 6 C) (1)	OU6-CS-YB05-2.0-3.0	12/04/2024 10:25	9
MJNKQ1	MJNKQ1	Sediment/ LV	Grab	ICP-MS(21)/PR	1433 (< 6 C) (1)	OU6-CS-YB05-3.0-4.0	12/04/2024 10:30	9
MJNKQ2	MJNKQ2	Sediment/ HH	Grab	ICP-MS(21)/PR	1434 (< 6 C) (1)	OU6-CS-YB05-4.0-5.0	12/04/2024 10:35	9
MJNKQ8	MJNKQ8	Sediment/ LV,CT	Grab	ICP-MS(21)/PR	1440 (< 6 C) (1)	OU6-CS-YB06-0.0-0.4	12/03/2024 09:40	10
MJNKR9	MJNKR9	Sediment/ LV	Grab	ICP-MS(21)/PR	1451 (< 6 C) (1)	OU6-CS-YB07-0.0-0.7	12/04/2024 16:50	.
MJNL16	MJNL16	Sediment/ LV	Grab	ICP-MS(21)/PR	1528 (< 6 C) (1)	OU6-CS-YB14-0.0-1.0	12/04/2024 15:50	.
MJNL17	MJNL17	Sediment/ LV	Grab	ICP-MS(21)/PR	1529 (< 6 C) (1)	OU6-CS-YB14-0.0-1.0-FD	12/04/2024 15:50	13
MJNL18	MJNL18	Sediment/ MM	Grab	ICP-MS(21)/PR	1530 (< 6 C) (1)	OU6-CS-YB14-1.0-2.0	12/04/2024 16:15	12
MJNL19	MJNL19	Sediment/ LV	Grab	ICP-MS(21)/PR	1531 (< 6 C) (1)	OU6-CS-YB14-2.0-2.6	12/04/2024 16:20	13
MJNL49	MJNL49	Sediment/ MM,LV	Grab	ICP-MS(21)/PR	1561 (< 6 C) (1)	OU6-CS-YB17-0.0-0.5	12/04/2024 13:50	14

Sample(s) to be used for Lab QC: MJNKR9 Tag 1451, MJNL16 Tag 1528, MJNL60 Tag 1572 0543408 0543409

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP Metals (As, Cu, Pb, Zn)-Sediment

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Jacobs	1215241600		1010 12-6-24	FR-Cont #1 2.3°C
					Custody Seal Intact
					Trip Blank present

68HERH20D0011 SDG # MJNKL4

USEPA CLP COC (LAB COPY)
DateShipped: 12/5/2024
CarrierName: FedEx
AirbillNo: 7705 3093 7563

CHAIN OF CUSTODY RECORD

Case #: 51821
Cooler #: 4

No: 10-120524-145421-0006
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MJNL60	MJNL60	Sediment/ CT,LV	Grab	ICP-MS(21)/PR	1572 (< 6 C) (1)	OU6-CS-YB18-0.0-1.0	12/02/2024 14:25	.
MJNL62	MJNL62	Sediment/ LV	Grab	ICP-MS(21)/PR	1574 (< 6 C) (1)	OU6-CS-YB18-1.0-2.0	12/02/2024 14:40	15
MJNL63	MJNL63	Sediment/ ET,LV	Grab	ICP-MS(21)/PR	1575 (< 6 C) (1)	OU6-CS-YB18-2.0-2.1	12/02/2024 14:50	16
MJNL71	MJNL71	Sediment/ CT	Grab	ICP-MS(21)/PR	1583 (< 6 C) (1)	OU6-CS-YB19-0.0-1.0	12/03/2024 16:15	17

Sample(s) to be used for Lab QC: MJNL60 Tag 1572 0543408 0543409

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP Metals (As, Cu, Pb, Zn)-Sediment

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	UTS Jacobs	1215 12/6/60	CL	1010 12-6-24	Th Cor #1 2.3 °C
					Custody Seal Intact
					Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Casanova Rene		Log-in Date 12/6/2024
Received By (Signature)		
Case Number 51821	SDG No. MJNKL4	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	0543496,0543497
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770530893078 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/06/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MJNKL4	N/A	1396	P5158-01	Intact
2	MJNKL4D	N/A	1396	P5158-02	Intact
3	MJNKL4S	N/A	1396	P5158-03	Intact
4	MJNKL5	N/A	1397	P5158-04	Intact
5	MJNKM5	N/A	1407	P5158-05	Intact
6	MJNKM6	N/A	1408	P5158-06	Intact
7	MJNKP8	N/A	1430	P5158-07	Intact
8	MJNKP9	N/A	1431	P5158-08	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 12/6/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name)		Log-in Date **12/6/2024**
Received By (Signature)		
Case Number 51821	SDG No. MJNKL4	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	0543408,0543409
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770530937563 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/06/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MJNKQ0	N/A	1432	P5158-09	Intact
2	MJNKQ1	N/A	1433	P5158-10	Intact
3	MJNKQ2	N/A	1434	P5158-11	Intact
4	MJNKQ8	N/A	1440	P5158-12	Intact
5	MJNL17	N/A	1529	P5158-13	Intact
6	MJNL18	N/A	1530	P5158-14	Intact
7	MJNL19	N/A	1531	P5158-15	Intact
8	MJNL49	N/A	1561	P5158-16	Intact
9	MJNL62	N/A	1574	P5158-17	Intact
10	MJNL63	N/A	1575	P5158-18	Intact
11	MJNL71	N/A	1583	P5158-19	Intact
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	12/6/2024	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51821**	SDG NO.	**MJNKL4**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	
3. Sample Log-In Sheet (DC-1)	5	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	12	✓	
6. Communication Logs	13	17	✓	
7. Percent Solids Log	18	19	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	20	36	✓	
18. Instrument raw data by instrument in analysis order	37	736	✓	
Other Data				
19. Standard and Reagent Preparation Logs	737	873	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	874	875	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	876	885	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	886	887	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	888	889	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	890	890	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab) _____ Nimisha Pandya, Document Control Officer _____
(Signature) (Print Name & Title) (Date)

Audited by:
(EPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MJNKL4
CASE # 51821
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5158

A. Number of Samples and Date of Receipt

17 Soil samples were delivered to the laboratory intact on 12/06/2024

B. Parameters

Test requested for Metals CLP4 MS = Arsenic, Copper, Lead, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.1^{o}C, 2.3^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The COC indicates PRs are required for all samples, but per scheduling there are no PRs requested for this Case. Please advise on how the laboratory may proceed.

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 10, preliminary results were inadvertently included on the COC but are not needed for this project. Please proceed with the scheduled 21-day TAT. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MJNKL4 For Arsenic:

If C = 159.59 ppb
Vf = 500 ml
W = 1.28 g
S = 0.712(71.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 159.59 \times \frac{500}{1.28 \times 0.712} \times 1 / 1000$$

$$= 87.5559 \text{ mg/kg}$$

$$= 88 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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.

284 Sheffield Street
Mountainside, NJ 07092

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Arsenic	89Y
Copper	45Sc
Lead	209Bi
Zinc	45Sc

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 Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

From: Shaeffer, Casey <Casey.Shaeffer@gdit.com>
Sent: Friday, December 06, 2024 3:09 PM
To: Mohammad Ahmed; Deepak Parmar; Sohil Jodhani
Cc: Johnson, Matthew; Bauer, Heather E; Dunn, Meghan (she/her/hers); Reece, Caitlin
Subject: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: 51821-COC.pdf

This is the first time you received an email from this sender (Casey.Shaeffer@gdit.com). Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good afternoon,

Please see the below resolutions from Region 10. Please note the added issue/resolution 2.

Discrepancies with tags, jars, and/or COC
Issue 1: The COC indicates PRs are required for all samples, but per scheduling there are no PRs requested for this Case. Please advise on how the laboratory may proceed.
Resolution 1: Per Region 10, preliminary results were inadvertently included on the COC but are not needed for this project. Please proceed with the scheduled 21-day TAT. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

Issue 2: Samples under this Case are scheduled for TCLP ICP-AES 5-10 Metals and TCLP Hg, but the COC only indicates TCLP ICP-AES 5-10 Metals for CLP sample numbers MJNLH1 and MJNLH2.
Resolution 2: Per Region 10, the laboratory should proceed with TCLP ICP-AES 5-10 Metals and TCLP Hg as scheduled for CLP sample numbers MJNLH1 and MJNLH2. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thank you,

Casey Shaeffer

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 4 & 10
Under contract to the EPA

T: (571) 454-2416
casey.shaeffer@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

GENERAL DYNAMICS
information technology

Leave Alert: December 24, 2024

From: Dunn, Meghan (she/her/hers) <dunn.meghan@epa.gov>
Sent: Friday, December 6, 2024 3:06 PM
To: Shaeffer, Casey <Casey.Shaeffer@gdit.com>; Reece, Caitlin <Reece.Caitlin@epa.gov>
Subject: RE: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Casey,

Yes, that's correct!

Thanks,
Meghan

From: Shaeffer, Casey <Casey.Shaeffer@gdit.com>
Sent: Friday, December 6, 2024 12:03 PM
To: Dunn, Meghan (she/her/hers) <dunn.meghan@epa.gov>; Reece, Caitlin <Reece.Caitlin@epa.gov>
Subject: RE: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon,

Thank you, Meghan! I would just like to confirm that CLP sample number MJNLH1 and MJNLH2, per the COC, should be analyzed for both TCLP ICP-AES 5-10 Metals and TCLP Hg?

Thank you,

Casey Shaeffer

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 4 & 10
Under contract to the EPA

T: (571) 454-2416
casey.shaeffer@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151

www.gdit.com

GENERAL DYNAMICS
information technology

Leave Alert: December 24, 2024

From: Dunn, Meghan (she/her/hers) <dunn.meghan@epa.gov>
Sent: Friday, December 6, 2024 2:48 PM
To: Shaeffer, Casey <Casey.Shaeffer@gdit.com>; Reece, Caitlin <Reece.Caitlin@epa.gov>
Subject: RE: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Casey,

The sampler accidentally included preliminary results for these samples No preliminary results are needed for this project. Please proceed with the 21 day TAT.

By the way: the COC may not have been very obvious, the TCLP analysis requested on the COC includes mercury (by CVAA) in addition to the 7 metals scheduled with ICP-AES.

Thank you,
Meghan

Meghan Dunn
QA Chemist / RSCC
(Regional Sample Control Coordinator)
U.S. EPA, Region 10
Cell (206) 330-6743
Office (206) 553-8561

From: Shaeffer, Casey <Casey.Shaeffer@gdit.com>
Sent: Friday, December 6, 2024 11:34 AM
To: Dunn, Meghan (she/her/hers) <dunn.meghan@epa.gov>; Reece, Caitlin <Reece.Caitlin@epa.gov>
Subject: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon,

Please see the below issue from ACE.

Issue: The COC indicates PRs are required for all samples, but per scheduling there are no PRs requested for this Case. Please advise on how the laboratory may proceed.

Thank you,

Casey Shaeffer

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 4 & 10
Under contract to the EPA

T: (571) 454-2416
casey.shaeffer@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com



Leave Alert: December 24, 2024

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Friday, December 6, 2024 1:52 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 10 | Case 51821 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good afternoon,

As per ASR PR is not schedule for this case however on COC PR mentioned for all samples . There for Lab like to know how to proceed ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/12/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:45
In Date: 12/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:34
Out Date: 12/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133880

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5158-01	MJNKL4	1	1.15	8.81	9.96	7.42	71.2	
P5158-02	MJNKL4D	2	1.15	8.81	9.96	7.42	71.2	
P5158-03	MJNKL4S	3	1.15	8.81	9.96	7.42	71.2	
P5158-04	MJNKL5	4	1.16	8.83	9.99	7.85	75.8	
P5158-05	MJNKM5	5	1.15	8.66	9.81	8.25	82.0	
P5158-06	MJNKM6	6	1.15	8.40	9.55	8.49	87.4	
P5158-07	MJNKP8	7	1.16	8.60	9.76	7.56	74.4	
P5158-08	MJNKP9	8	1.16	8.47	9.63	7.81	78.5	
P5158-09	MJNKQ0	9	1.16	8.46	9.62	8.27	84.0	
P5158-10	MJNKQ1	10	1.16	8.50	9.66	8.32	84.2	
P5158-11	MJNKQ2	11	1.16	8.75	9.91	8.52	84.1	
P5158-12	MJNKQ8	12	1.15	8.83	9.98	8.44	82.6	
P5158-13	MJNL17	13	1.16	8.76	9.92	7.13	68.2	
P5158-14	MJNL18	14	1.14	8.76	9.9	9.06	90.4	
P5158-15	MJNL19	15	1.17	8.71	9.88	9.35	93.9	
P5158-16	MJNL49	16	1.12	8.76	9.88	8.42	83.3	
P5158-17	MJNL62	17	1.16	8.52	9.68	6.06	57.5	
P5158-18	MJNL63	18	1.18	8.44	9.62	8.04	81.3	
P5158-19	MJNL71	19	1.16	8.44	9.6	7.46	74.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VM 133480

WorkList Name : %1-p5158 **WorkList ID :** 186220 **Department :** Wet-Chemistry **Date :** 12-11-2024 09:15:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5158-01	MJNKL4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-02	MJNKL4D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-03	MJNKL4S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-04	MJNKL5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-05	MJNKM5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-06	MJNKM6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-07	MJNKP8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-08	MJNKP9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-09	MJNKQ0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-10	MJNKQ1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-11	MJNKQ2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-12	MJNKQ8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-13	MJNL17	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO
P5158-14	MJNL18	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-15	MJNL19	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-16	MJNL49	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-17	MJNL62	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/04/2024	Chemtech -SO
P5158-18	MJNL63	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/02/2024	Chemtech -SO
P5158-19	MJNL71	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	12/03/2024	Chemtech -SO

19

Date/Time 12-11-24 13:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 12-11-24 13:50

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

EPA SAMPLE NO.

MJNKL4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-01

% Solids: 71.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	88		12/13/2024	1842
7440-50-8	Copper	510		12/13/2024	1842
7439-92-1	Lead	180		12/13/2024	1842
7440-66-6	Zinc	610		12/13/2024	1842

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKL5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-04

% Solids: 75.8 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	71		12/13/2024	1855
7440-50-8	Copper	440		12/13/2024	1855
7439-92-1	Lead	150		12/13/2024	1855
7440-66-6	Zinc	500		12/13/2024	1855

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKM5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-05

% Solids: 82 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	6.8		12/13/2024	1858
7440-50-8	Copper	53		12/13/2024	1858
7439-92-1	Lead	31		12/13/2024	1858
7440-66-6	Zinc	51		12/13/2024	1858

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKM6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-06

% Solids: 87.4 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	3.1		12/13/2024	1901
7440-50-8	Copper	25		12/13/2024	1901
7439-92-1	Lead	11		12/13/2024	1901
7440-66-6	Zinc	28		12/13/2024	1901

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKP8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-07

% Solids: 74.4 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	80		12/13/2024	1904
7440-50-8	Copper	540		12/13/2024	1904
7439-92-1	Lead	170		12/13/2024	1904
7440-66-6	Zinc	790		12/13/2024	1904

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKP9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-08

% Solids: 78.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	59		12/13/2024	1908
7440-50-8	Copper	390		12/13/2024	1908
7439-92-1	Lead	130		12/13/2024	1908
7440-66-6	Zinc	580		12/13/2024	1908

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKQ0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-09

% Solids: 84 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	31		12/13/2024	1911
7440-50-8	Copper	200		12/13/2024	1911
7439-92-1	Lead	66		12/13/2024	1911
7440-66-6	Zinc	300		12/13/2024	1911

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKQ1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-10

% Solids: 84.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	5.2		12/13/2024	1914
7440-50-8	Copper	33		12/13/2024	1914
7439-92-1	Lead	9.5		12/13/2024	1914
7440-66-6	Zinc	63		12/13/2024	1914

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKQ2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-11

% Solids: 84.1 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	1.2		12/13/2024	1917
7440-50-8	Copper	15		12/13/2024	1917
7439-92-1	Lead	3.0		12/13/2024	1917
7440-66-6	Zinc	27		12/13/2024	1917

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNKQ8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-12

% Solids: 82.6 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	25		12/13/2024	1920
7440-50-8	Copper	370		12/13/2024	1920
7439-92-1	Lead	77		12/13/2024	1920
7440-66-6	Zinc	190		12/13/2024	1920

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL17

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-13

% Solids: 68.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	84		12/13/2024	1923
7440-50-8	Copper	1000		12/13/2024	1923
7439-92-1	Lead	150		12/13/2024	1923
7440-66-6	Zinc	190		12/13/2024	1923

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL18

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-14

% Solids: 90.4 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	14		12/13/2024	1926
7440-50-8	Copper	160		12/13/2024	1926
7439-92-1	Lead	36		12/13/2024	1926
7440-66-6	Zinc	45		12/13/2024	1926

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL19

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-15

% Solids: 93.9 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	3.7		12/13/2024	1930
7440-50-8	Copper	24		12/13/2024	1930
7439-92-1	Lead	4.7		12/13/2024	1930
7440-66-6	Zinc	23		12/13/2024	1930

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL49

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-16

% Solids: 83.3 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	9.8		12/13/2024	1933
7440-50-8	Copper	140		12/13/2024	1933
7439-92-1	Lead	77		12/13/2024	1933
7440-66-6	Zinc	46		12/13/2024	1933

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL62

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-17

% Solids: 57.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	160		12/13/2024	1936
7440-50-8	Copper	2200		12/13/2024	1936
7439-92-1	Lead	340		12/13/2024	1936
7440-66-6	Zinc	330		12/13/2024	1936

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL63

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-18

% Solids: 81.3 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	8.3		12/13/2024	1939
7440-50-8	Copper	110		12/13/2024	1939
7439-92-1	Lead	14		12/13/2024	1939
7440-66-6	Zinc	43		12/13/2024	1939

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MJNL71

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51821 MA No. : SDG No.: MJNKL4

Matrix: SOIL Lab Sample ID: P5158-19

% Solids: 74.6 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	58		12/13/2024	1942
7440-50-8	Copper	990		12/13/2024	1942
7439-92-1	Lead	81		12/13/2024	1942
7440-66-6	Zinc	200		12/13/2024	1942

NOTE: Hardness (total) is reported in mg/L

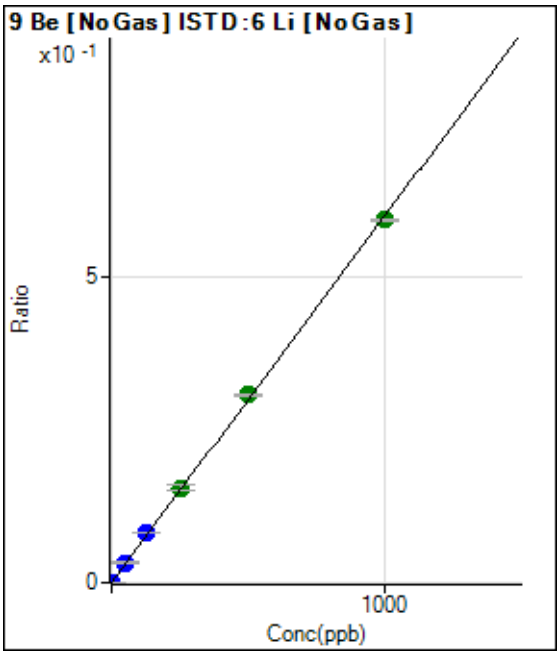
Comments:

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8121324 MS.b\
Analysis File: P8121324 MS.batch.bin
DA Date-Time: 2024-12-14 01:14:38
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-12-13 12:46:05
2	006CALS.d	S02	2024-12-13 12:52:44
3	007CALB.d	S03	2024-12-13 12:56:02
4	008CALS.d	S04	2024-12-13 12:59:05
5	009CALS.d	S05	2024-12-13 13:01:57
6	010CALS.d	S06	2024-12-13 13:04:45
7	011CALS.d	S07	2024-12-13 13:07:30
8	012CALS.d	S08	2024-12-13 13:10:17

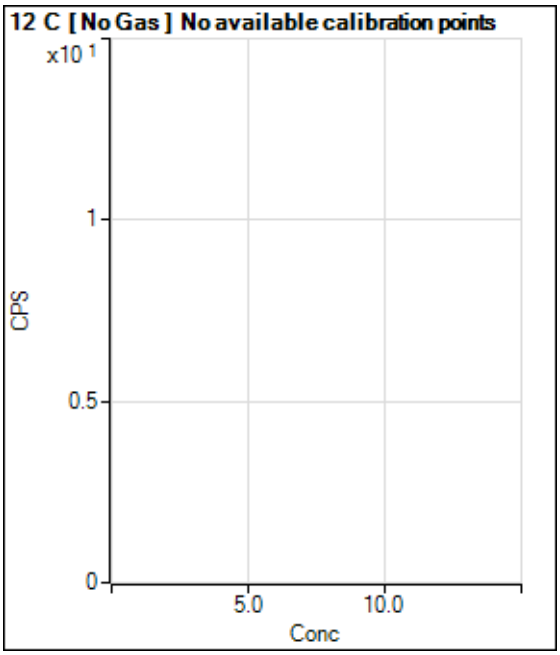
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.38	0.0000	P	3.0
2	☐	1.000	1.096	7968.02	0.0007	P	1.3
3	☐	50.000	54.252	387231.66	0.0324	P	5.4
4	☐	125.000	134.660	940954.69	0.0805	P	0.8
5	☐	250.000	258.635	1860407.74	0.1546	A	5.4
6	☐	500.000	512.133	3511199.04	0.3061	A	0.4
7	☐	1000.000	990.355	6528700.56	0.5919	A	0.5
8	☐			1598.73	0.0002	P	9.6

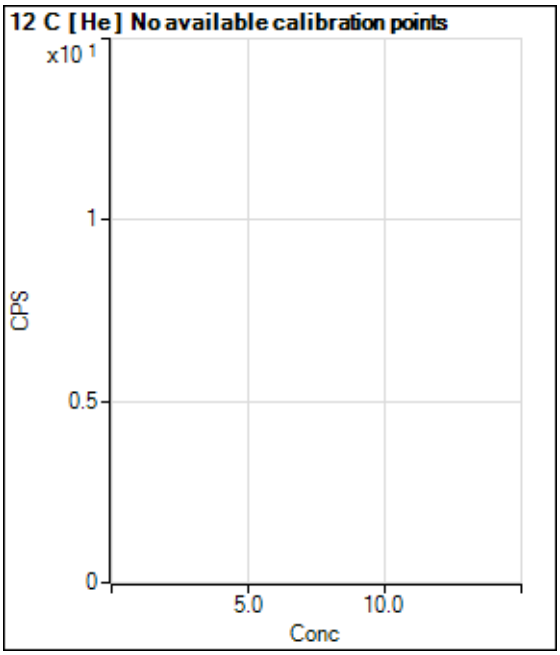
y = 5.9761E-004 * x + 1.4464E-005
R = 0.9998
DL = 0.002188
BEC = 0.0242

Weight: <None>
Min Conc: 0

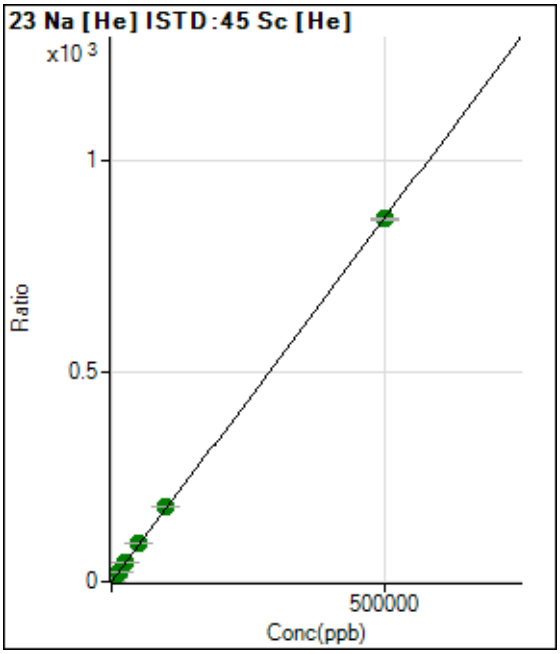


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4838302.81		A	1.0
2	☐			5120772.21		A	0.6
3	☐			4655097.81		A	0.2
4	☐			4937663.61		A	0.1
5	☐			5128269.09		A	0.7
6	☐			5449089.71		A	1.8
7	☐			6172793.87		A	2.7
8	☐			5817088.25		A	1.9

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			31961.38		P	0.5
2	☐			32749.76		P	0.3
3	☐			30060.76		P	2.3
4	☐			31728.61		P	1.3
5	☐			33504.83		P	2.0
6	☐			36935.25		P	0.6
7	☐			44595.17		P	0.6
8	☐			50050.33		P	0.3

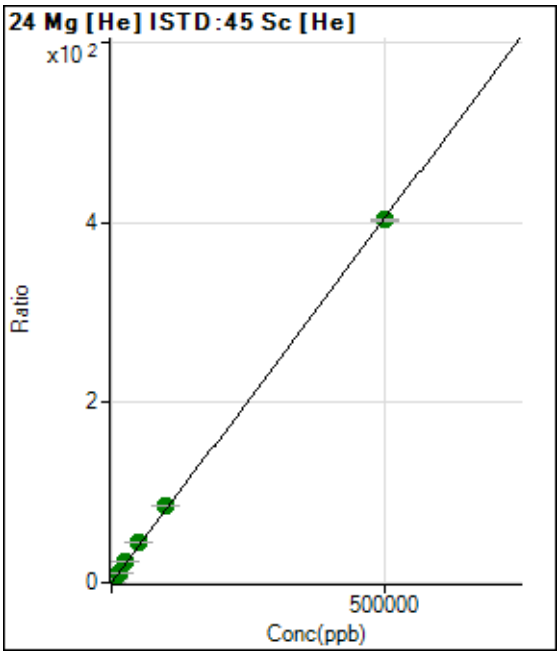


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	49447.79	0.1314	P	1.2
2	☐	500.000	536.923	404025.77	1.0581	P	0.7
3	☐	5000.000	5477.686	3648694.50	9.5859	A	0.5
4	☐	12500.000	13186.640	8532612.51	22.8917	A	4.1
5	☐	25000.000	26952.684	16719874.34	46.6522	A	0.8
6	☐	50000.000	52579.572	32061558.41	90.8846	A	1.5
7	☐	100000.00	102698.21	62547613.51	177.3903	A	1.0
8	☐	500000.00	499082.78	268567229.3	861.5570	A	0.3

y = 0.0017 * x + 0.1314
R = 1.0000
DL = 2.734
BEC = 76.1

Weight: <None>
Min Conc: 0

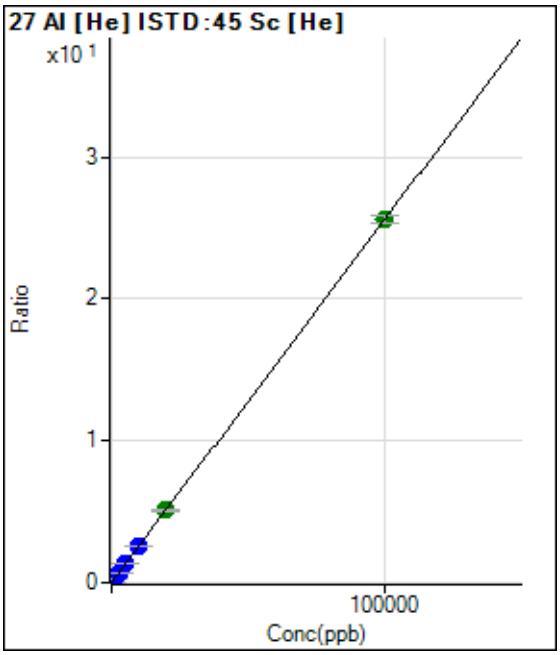
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1357.85	0.0036	P	3.3
2	☐	500.000	574.762	179083.55	0.4690	P	0.5
3	☐	5000.000	5695.588	1756920.89	4.6153	A	1.6
4	☐	12500.000	13652.173	4121653.20	11.0578	A	4.1
5	☐	25000.000	28146.046	8168934.25	22.7935	A	0.5
6	☐	50000.000	54668.262	15616852.40	44.2687	A	1.0
7	☐	100000.00	105568.02	30140820.94	85.4823	A	0.6
8	☐	500000.00	498226.43	125755158.1	403.4190	A	0.7

y = 8.0970E-004 * x + 0.0036
R = 0.9999
DL = 0.4348
BEC = 4.454

Weight: <None>
Min Conc: 0

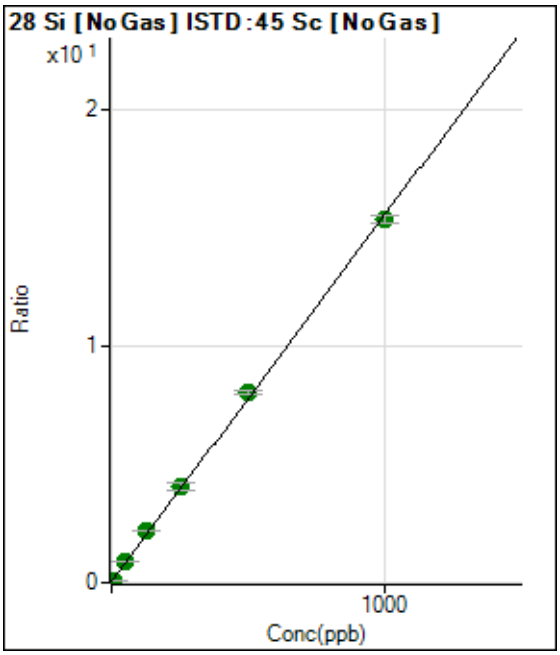


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0003	P	18.8
2	☐	20.000	19.519	2017.94	0.0053	P	1.1
3	☐	1000.000	1049.408	102208.96	0.2685	P	0.9
4	☐	2500.000	2558.803	243906.54	0.6544	P	4.0
5	☐	5000.000	5182.063	474828.19	1.3249	P	0.3
6	☐	10000.000	9996.651	901568.51	2.5555	P	0.4
7	☐	20000.000	19962.202	1799263.27	5.1029	A	1.5
8	☐	100000.00	99996.827	7967275.37	25.5606	A	2.0

y = 2.5561E-004 * x + 2.9534E-004
R = 1.0000
DL = 0.6515
BEC = 1.155

Weight: <None>
Min Conc: 0

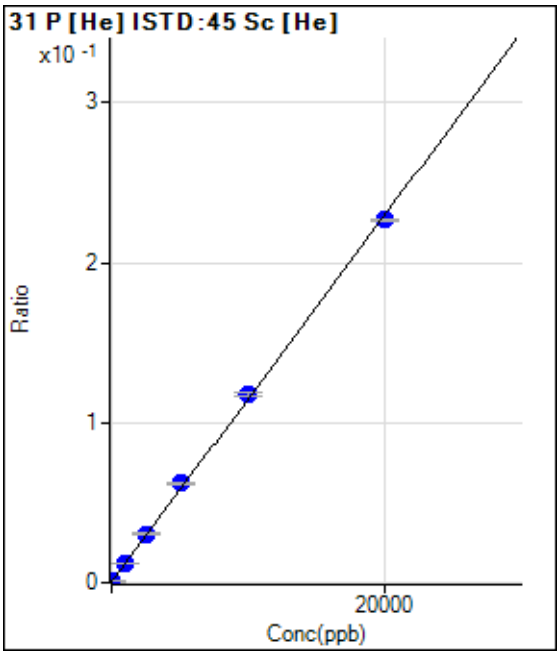
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	851987.01	0.0457	P	9.5
2	☐	10.000	0.387	955974.32	0.0517	A	1.7
3	☐	50.000	55.185	16840014.33	0.8996	A	4.4
4	☐	125.000	137.880	40104568.57	2.1790	A	1.1
5	☐	250.000	259.613	76879613.30	4.0625	A	8.4
6	☐	500.000	517.328	144696191.1	8.0500	A	1.9
7	☐	1000.000	987.160	275304467.0	15.3194	A	2.1
8	☐			934245.59	0.0606	A	3.9

y = 0.0155 * x + 0.0457
R = 0.9995
DL = 0.8425
BEC = 2.954

Weight: <None>
Min Conc: 0

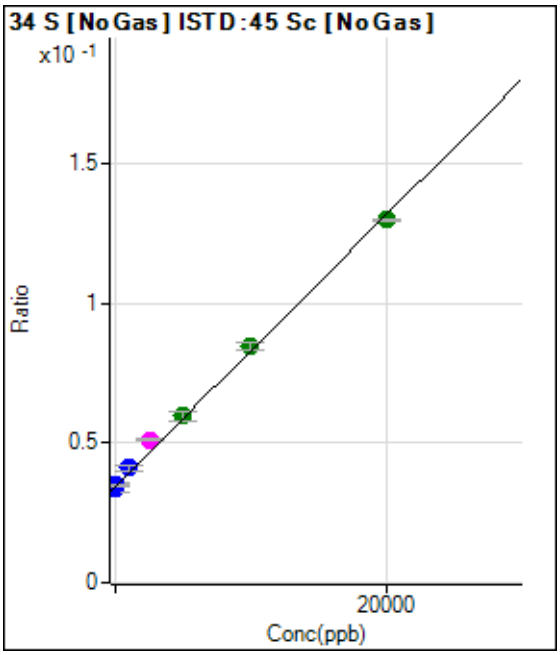


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-19.540	112.22	0.0003	P	17.2
2	☐	0.000	19.540	284.45	0.0007	P	14.9
3	☐	1000.000	1023.720	4659.68	0.0122	P	1.1
4	☐	2500.000	2630.444	11421.25	0.0306	P	3.6
5	☐	5000.000	5364.726	22200.38	0.0619	P	1.0
6	☐	10000.000	10267.462	41652.99	0.1181	P	1.9
7	☐	20000.000	19757.596	79944.33	0.2267	P	0.7
8	☐			122.22	0.0004	P	21.2

y = 1.1449E-005 * x + 5.2145E-004
R = 0.9997
DL = 21.2
BEC = 45.54

Weight: <None>
Min Conc: 0

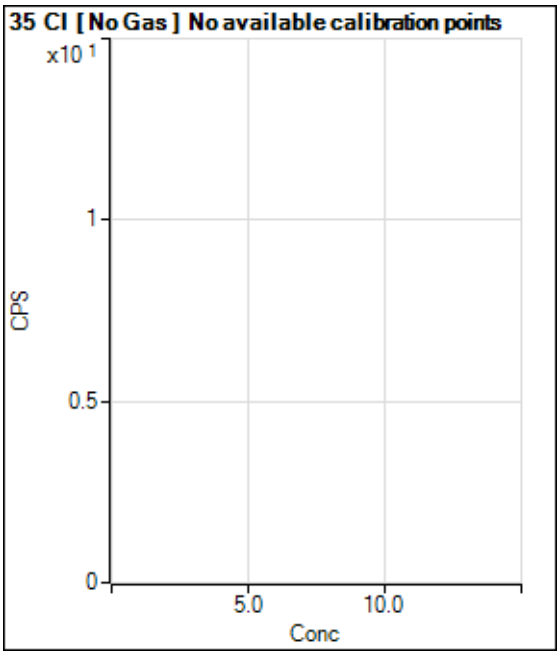
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-80.903	635397.64	0.0341	P	9.0
2	☐	0.000	80.903	644852.99	0.0349	P	0.9
3	☐	1000.000	1363.420	769332.33	0.0411	P	4.2
4	☐	2500.000	3418.870	940047.08	0.0511	M	1.7
5	☐	5000.000	5176.328	1129168.59	0.0596	A	6.3
6	☐	10000.000	10331.861	1521424.77	0.0847	A	3.3
7	☐	20000.000	19656.958	2335658.30	0.1300	A	0.6
8	☐			491658.31	0.0319	P	2.0

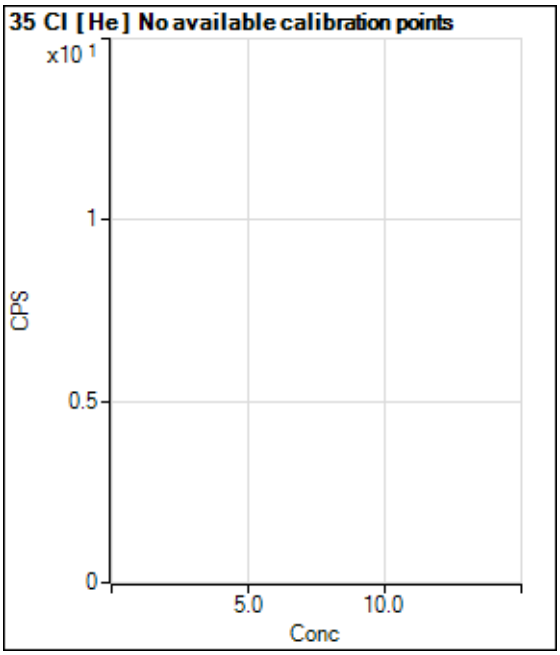
y = 4.8576E-006 * x + 0.0345
R = 0.9988
DL = 1044
BEC = 7096

Weight: <None>
Min Conc: 0

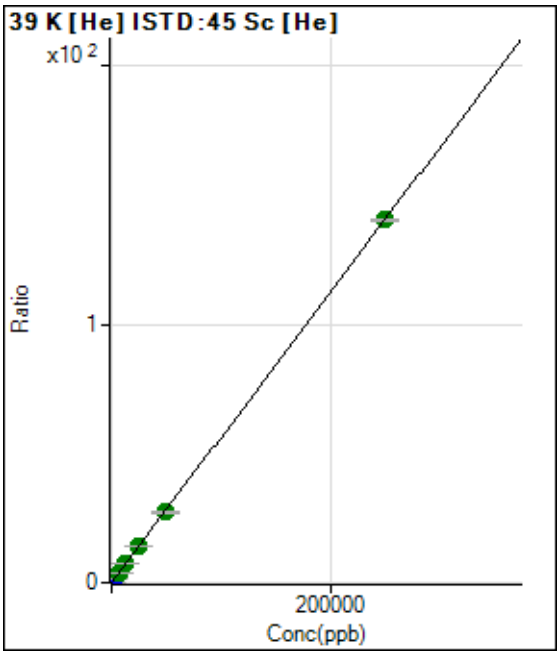


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			81686.47		P	0.5
2	☐			84653.22		P	0.2
3	☐			84561.76		P	0.8
4	☐			89702.20		P	1.2
5	☐			96042.49		P	2.4
6	☐			110629.83		P	0.8
7	☐			140723.12		P	2.1
8	☐			78595.17		P	2.3

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			304.45		P	4.1
2	☐			352.23		P	9.7
3	☐			344.45		P	6.8
4	☐			345.57		P	11.4
5	☐			404.46		P	11.5
6	☐			462.23		P	4.0
7	☐			620.02		P	10.8
8	☐			316.68		P	12.1

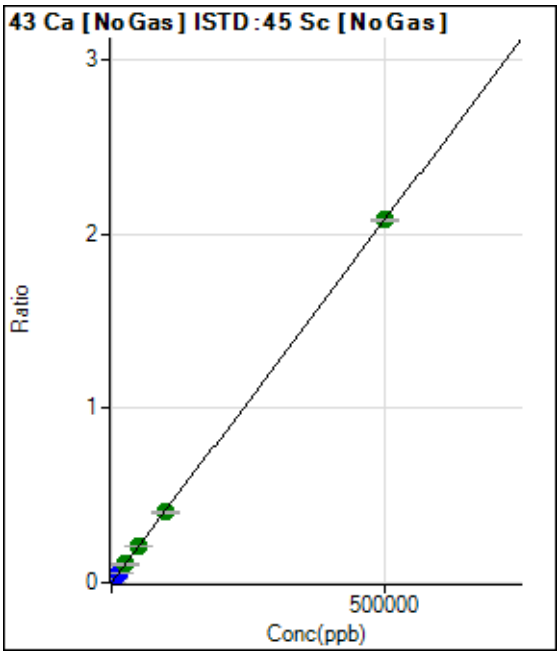


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13286.19	0.0353	P	1.2
2	☐	500.000	510.981	122908.95	0.3219	P	0.5
3	☐	2500.000	2526.188	552705.00	1.4521	P	0.7
4	☐	6250.000	6299.996	1329927.59	3.5687	A	4.9
5	☐	12500.000	12892.182	2604036.68	7.2659	A	0.7
6	☐	25000.000	24793.864	4918344.89	13.9411	A	0.4
7	☐	50000.000	48472.165	9598045.48	27.2212	A	0.7
8	☐	250000.00	250305.03	43771654.90	140.4202	A	0.8

y = 5.6086E-004 * x + 0.0353
R = 1.0000
DL = 2.314
BEC = 62.92

Weight: <None>
Min Conc: 0

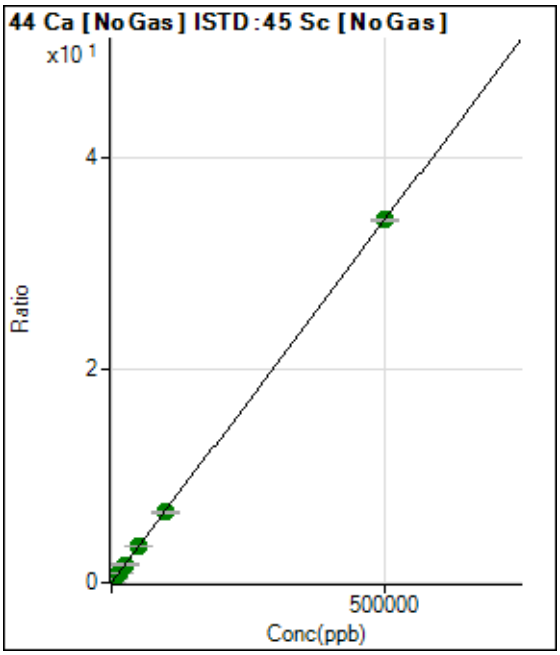
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	971.15	0.0001	P	19.0
2	☐	500.000	521.134	41035.08	0.0022	P	0.3
3	☐	5000.000	5112.827	398763.53	0.0213	P	4.8
4	☐	12500.000	12744.334	975747.22	0.0530	P	2.1
5	☐	25000.000	25242.443	1987446.53	0.1050	A	7.4
6	☐	50000.000	50962.612	3808920.25	0.2119	A	0.9
7	☐	100000.00	96971.188	7244527.11	0.4031	A	1.7
8	☐	500000.00	500490.12	32045643.97	2.0804	A	0.3

y = 4.1565E-006 * x + 5.2380E-005
R = 1.0000
DL = 7.192
BEC = 12.6

Weight: <None>
Min Conc: 0

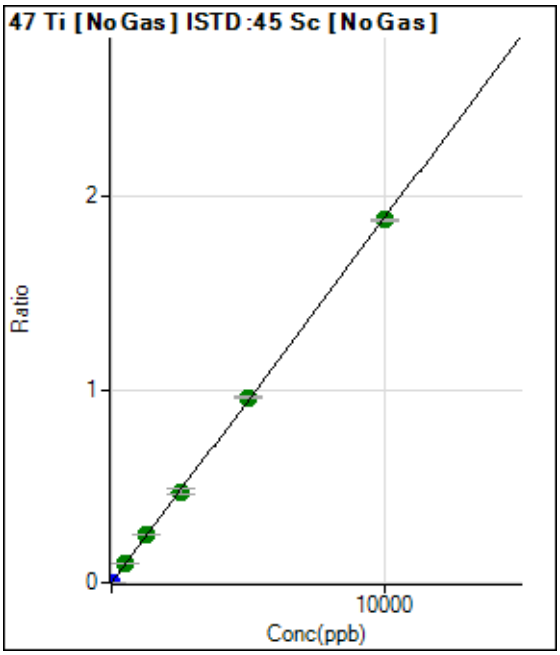


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24943.95	0.0013	P	7.4
2	☐	500.000	521.176	681842.05	0.0369	P	0.7
3	☐	5000.000	5136.680	6579828.79	0.3515	A	4.5
4	☐	12500.000	12916.620	16228634.20	0.8818	A	1.8
5	☐	25000.000	24635.444	31806292.58	1.6807	A	8.4
6	☐	50000.000	50202.176	61544460.75	3.4235	A	1.2
7	☐	100000.00	97097.947	118976897.1	6.6203	A	1.6
8	☐	500000.00	500566.61	525638463.2	34.1238	A	0.3

y = 6.8168E-005 * x + 0.0013
R = 1.0000
DL = 4.372
BEC = 19.61

Weight: <None>
Min Conc: 0

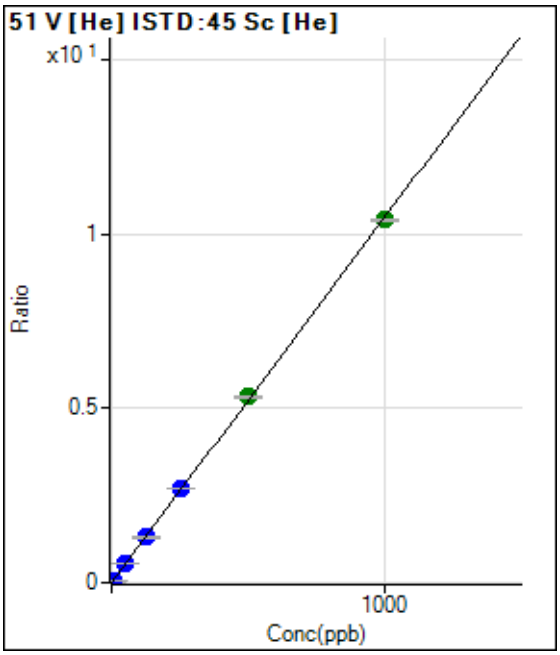
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	290.00	0.0000	P	8.1
2	☐	5.000	5.295	18807.98	0.0010	P	1.1
3	☐	500.000	529.706	1875904.14	0.1002	A	4.2
4	☐	1250.000	1315.060	4577568.72	0.2487	A	1.0
5	☐	2500.000	2501.466	8954351.12	0.4731	A	8.0
6	☐	5000.000	5085.818	17293225.44	0.9618	A	0.6
7	☐	10000.000	9947.106	33809396.72	1.8812	A	0.7
8	☐			4929.80	0.0003	P	1.6

y = 1.8912E-004 * x + 1.5486E-005
R = 0.9999
DL = 0.01991
BEC = 0.08188

Weight: <None>
Min Conc: 0

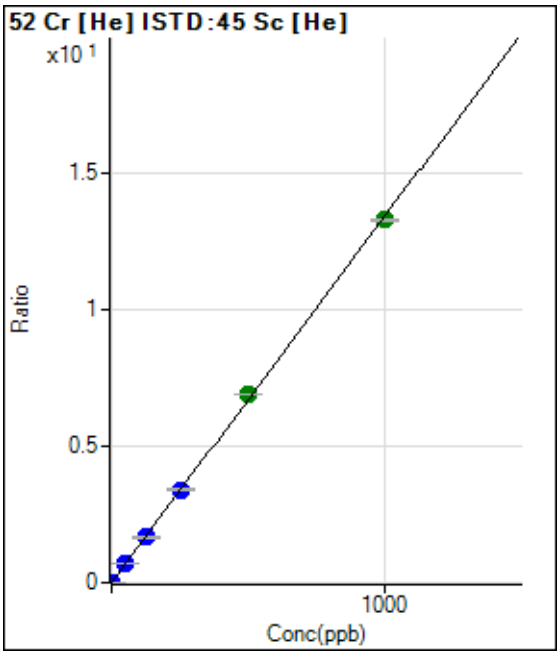


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	68.0
2	☐	5.000	5.206	20835.29	0.0546	P	1.7
3	☐	50.000	50.552	201567.42	0.5296	P	0.7
4	☐	125.000	124.532	486327.25	1.3045	P	3.4
5	☐	250.000	256.217	961908.97	2.6840	P	0.2
6	☐	500.000	509.129	1881428.53	5.3333	A	1.7
7	☐	1000.000	993.911	3671061.82	10.4115	A	0.3
8	☐			486.68	0.0016	P	8.1

y = 0.0105 * x + 3.2375E-005
R = 0.9999
DL = 0.006306
BEC = 0.003091

Weight: <None>
Min Conc: 0

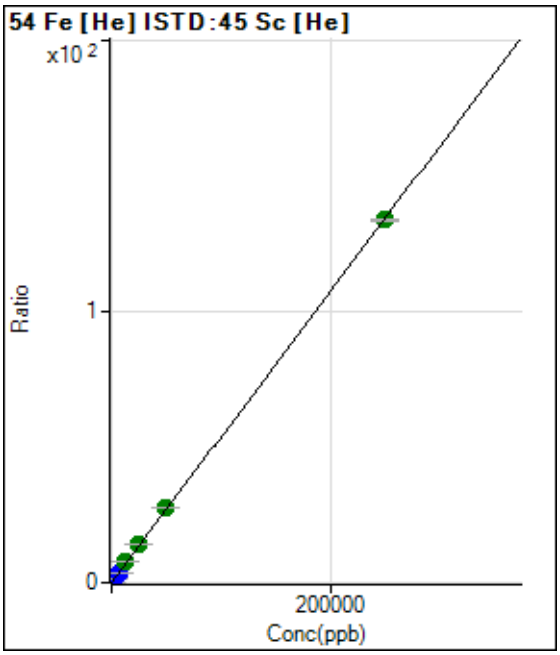
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2024.61	0.0054	P	6.5
2	☐	2.000	2.117	12890.33	0.0338	P	1.2
3	☐	50.000	50.758	260997.06	0.6857	P	1.1
4	☐	125.000	125.160	627366.15	1.6830	P	3.9
5	☐	250.000	254.275	1223452.00	3.4137	P	0.4
6	☐	500.000	515.341	2438839.25	6.9131	A	0.6
7	☐	1000.000	991.203	4686601.18	13.2916	A	0.7
8	☐			7314.28	0.0235	P	16.7

y = 0.0134 * x + 0.0054
R = 0.9998
DL = 0.07815
BEC = 0.4013

Weight: <None>
Min Conc: 0

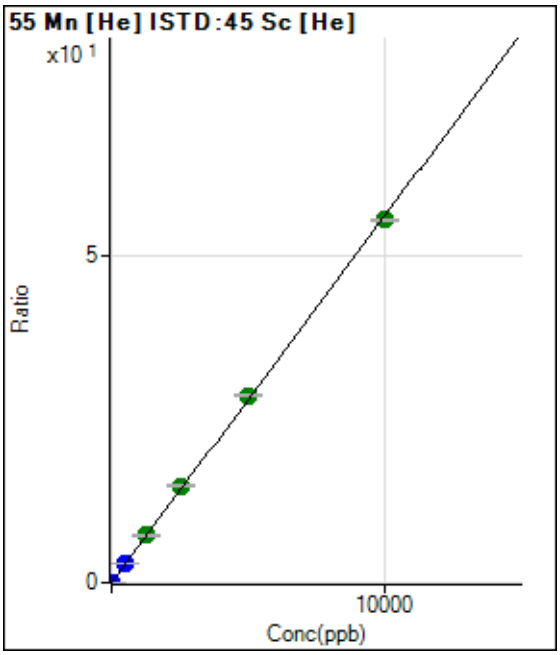


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	676.69	0.0018	P	7.9
2	☐	50.000	55.823	12125.25	0.0318	P	2.2
3	☐	2500.000	2685.015	549039.38	1.4425	P	0.8
4	☐	6250.000	6577.032	1315993.09	3.5308	P	4.3
5	☐	12500.000	13999.734	2692808.87	7.5136	A	0.9
6	☐	25000.000	26517.407	5019930.41	14.2301	A	1.4
7	☐	50000.000	51024.617	9654031.24	27.3798	A	0.3
8	☐	250000.00	249558.32	41742171.05	133.9059	A	0.8

y = 5.3656E-004 * x + 0.0018
R = 1.0000
DL = 0.7908
BEC = 3.351

Weight: <None>
Min Conc: 0

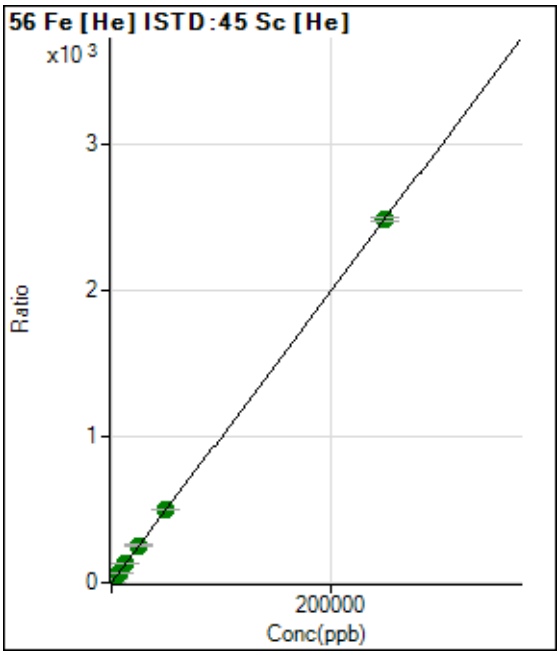
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.11	0.0006	P	4.8
2	☐	1.000	1.049	2469.13	0.0065	P	5.4
3	☐	500.000	513.739	1096372.02	2.8804	P	0.8
4	☐	1250.000	1298.031	2712394.16	7.2767	A	3.9
5	☐	2500.000	2642.588	5309041.38	14.8136	A	1.3
6	☐	5000.000	5109.932	10105581.31	28.6443	A	0.7
7	☐	10000.000	9902.696	19572729.71	55.5102	A	0.4
8	☐			5802.34	0.0186	P	2.6

y = 0.0056 * x + 5.8751E-004
R = 0.9998
DL = 0.01523
BEC = 0.1048

Weight: <None>
Min Conc: 0

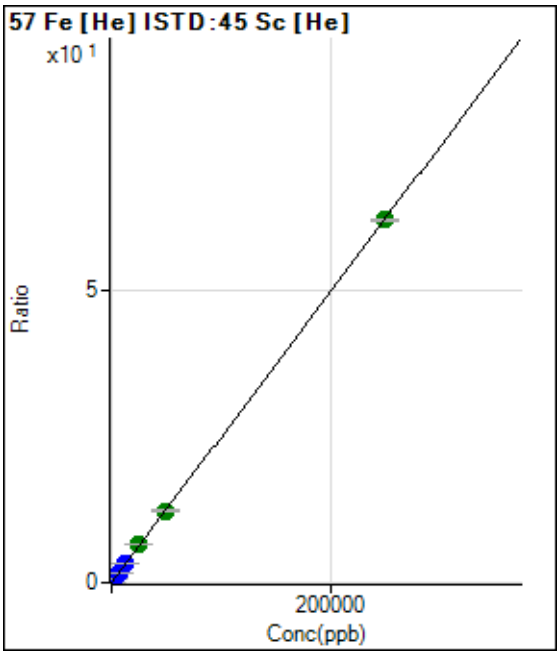


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8166.84	0.0217	P	2.1
2	☐	50.000	53.724	211926.91	0.5550	P	0.7
3	☐	2500.000	2647.424	10011533.46	26.3026	A	0.5
4	☐	6250.000	6558.345	24272108.53	65.1263	A	4.6
5	☐	12500.000	13354.717	47520293.74	132.5938	A	0.3
6	☐	25000.000	25817.346	90424170.87	256.3102	A	0.1
7	☐	50000.000	49888.712	174629232.9	495.2664	A	0.8
8	☐	250000.00	249888.60	773262432.9	2,480.663	A	1.1

y = 0.0099 * x + 0.0217
R = 1.0000
DL = 0.141
BEC = 2.185

Weight: <None>
Min Conc: 0

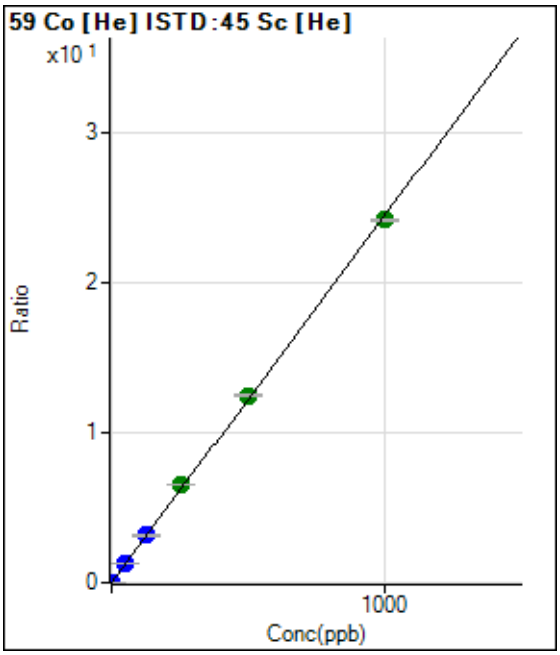
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.78	0.0005	P	2.1
2	☐	50.000	51.381	5088.74	0.0133	P	2.1
3	☐	2500.000	2605.813	247306.54	0.6497	P	0.1
4	☐	6250.000	6414.369	595823.19	1.5985	P	4.1
5	☐	12500.000	13116.906	1171335.28	3.2683	P	0.2
6	☐	25000.000	26176.139	2300668.53	6.5217	A	1.3
7	☐	50000.000	49663.747	4362722.96	12.3731	A	0.3
8	☐	250000.00	249913.62	19408141.24	62.2610	A	0.4

y = 2.4913E-004 * x + 5.2536E-004
R = 1.0000
DL = 0.1317
BEC = 2.109

Weight: <None>
Min Conc: 0

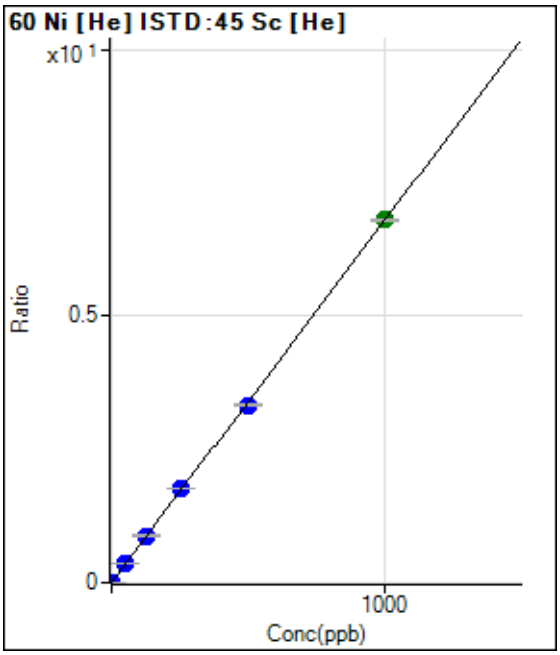


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	117.78	0.0003	P	6.1
2	☐	1.000	1.131	10664.09	0.0279	P	2.2
3	☐	50.000	52.458	487807.94	1.2817	P	1.3
4	☐	125.000	129.001	1174588.23	3.1513	P	4.2
5	☐	250.000	268.924	2354323.84	6.5691	A	0.4
6	☐	500.000	511.010	4403652.57	12.4823	A	0.7
7	☐	1000.000	989.141	8519136.82	24.1612	A	0.5
8	☐			16217.11	0.0520	P	0.1

y = 0.0244 * x + 3.1288E-004
R = 0.9997
DL = 0.002349
BEC = 0.01281

Weight: <None>
Min Conc: 0

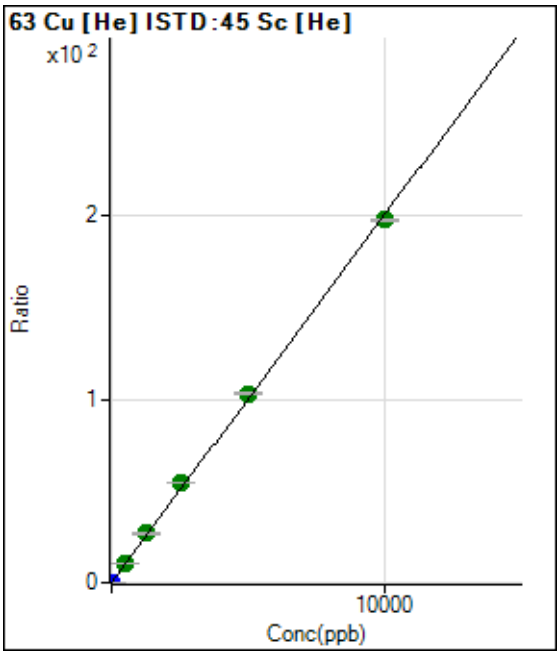
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	730.03	0.0019	P	6.2
2	☐	1.000	1.100	3594.94	0.0094	P	2.9
3	☐	50.000	52.158	135608.85	0.3563	P	1.4
4	☐	125.000	128.066	325050.23	0.8720	P	3.8
5	☐	250.000	259.194	631796.82	1.7629	P	0.6
6	☐	500.000	490.483	1176256.83	3.3342	P	0.5
7	☐	1000.000	1001.969	2400875.80	6.8091	A	0.9
8	☐			4942.02	0.0159	P	3.5

y = 0.0068 * x + 0.0019
R = 0.9999
DL = 0.05306
BEC = 0.2854

Weight: <None>
Min Conc: 0

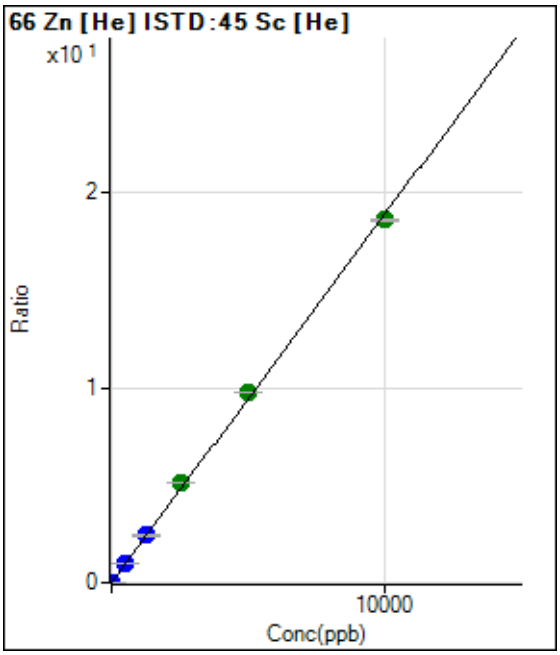


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3533.80	0.0094	P	2.0
2	☐	2.000	2.091	19584.67	0.0513	P	1.5
3	☐	500.000	545.777	4166181.36	10.9457	A	0.6
4	☐	1250.000	1338.388	9999716.80	26.8281	A	4.1
5	☐	2500.000	2715.159	19502254.85	54.4159	A	0.3
6	☐	5000.000	5138.233	36324918.90	102.9696	A	1.2
7	☐	10000.000	9863.756	69694000.07	197.6599	A	0.5
8	☐			11245.67	0.0361	P	1.1

y = 0.0200 * x + 0.0094
R = 0.9996
DL = 0.02811
BEC = 0.4684

Weight: <None>
Min Conc: 0

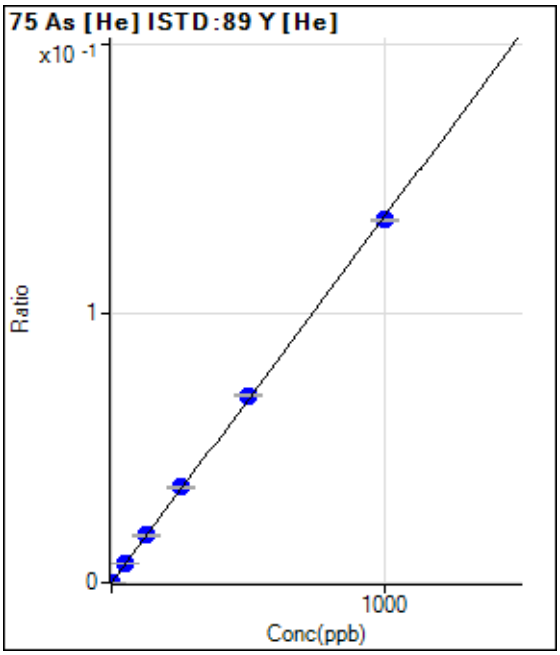
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	618.91	0.0016	P	2.3
2	☐	2.000	5.338	4470.74	0.0117	P	3.8
3	☐	500.000	524.842	377312.95	0.9913	P	1.0
4	☐	1250.000	1294.920	910854.19	2.4435	P	3.8
5	☐	2500.000	2704.613	1828443.88	5.1018	A	0.9
6	☐	5000.000	5166.100	3437337.38	9.7434	A	0.4
7	☐	10000.000	9858.939	6555713.10	18.5928	A	0.8
8	☐			2171.30	0.0070	P	7.5

y = 0.0019 * x + 0.0016
R = 0.9996
DL = 0.06039
BEC = 0.8717

Weight: <None>
Min Conc: 0

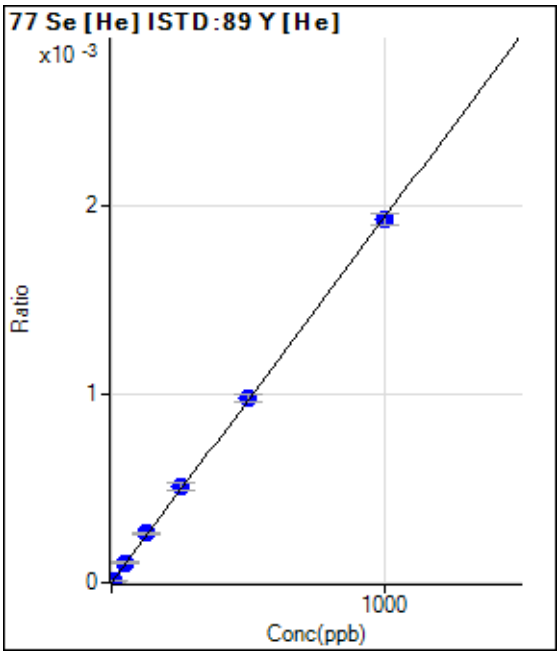


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.4
2	☐	1.000	1.108	473.35	0.0002	P	3.6
3	☐	50.000	52.425	22301.05	0.0071	P	0.9
4	☐	125.000	129.277	54051.99	0.0176	P	2.5
5	☐	250.000	260.330	105988.09	0.0354	P	2.1
6	☐	500.000	511.501	201433.03	0.0696	P	0.6
7	☐	1000.000	991.011	391425.82	0.1348	P	0.8
8	☐			174.45	0.0001	P	18.8

y = 1.3602E-004 * x + 1.1097E-006
R = 0.9998
DL = 0.02434
BEC = 0.008159

Weight: <None>
Min Conc: 0

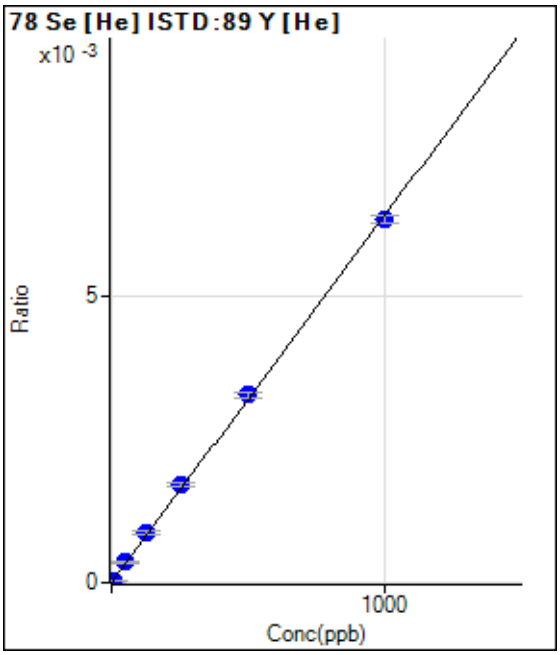
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.570	28.89	0.0000	P	36.2
3	☐	50.000	53.314	324.45	0.0001	P	11.3
4	☐	125.000	134.856	805.59	0.0003	P	5.7
5	☐	250.000	261.354	1520.10	0.0005	P	7.5
6	☐	500.000	504.648	2838.09	0.0010	P	3.6
7	☐	1000.000	993.442	5602.27	0.0019	P	3.1
8	☐			4.44	0.0000	P	43.8

y = 1.9417E-006 * x + 3.6376E-007
R = 0.9999
DL = 0.9734
BEC = 0.1873

Weight: <None>
Min Conc: 0

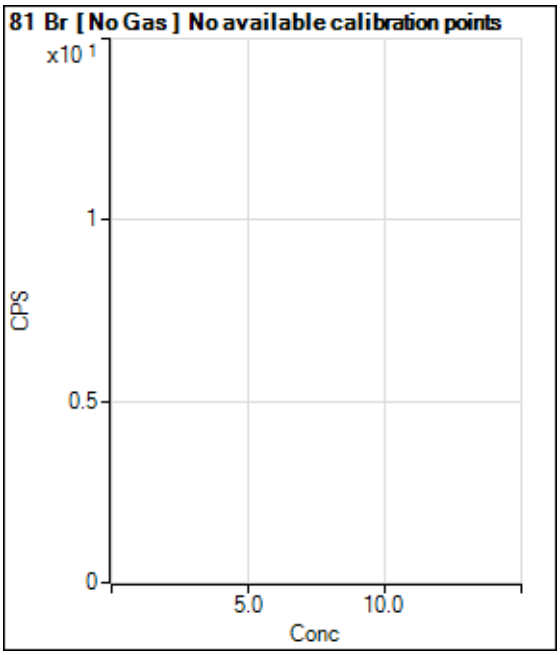


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	14.8
2	☐	5.000	6.044	135.56	0.0000	P	4.7
3	☐	50.000	55.656	1127.83	0.0004	P	9.5
4	☐	125.000	134.814	2665.83	0.0009	P	6.5
5	☐	250.000	267.178	5133.22	0.0017	P	3.3
6	☐	500.000	511.374	9488.83	0.0033	P	3.4
7	☐	1000.000	988.504	18387.68	0.0063	P	2.0
8	☐			20.00	0.0000	P	43.9

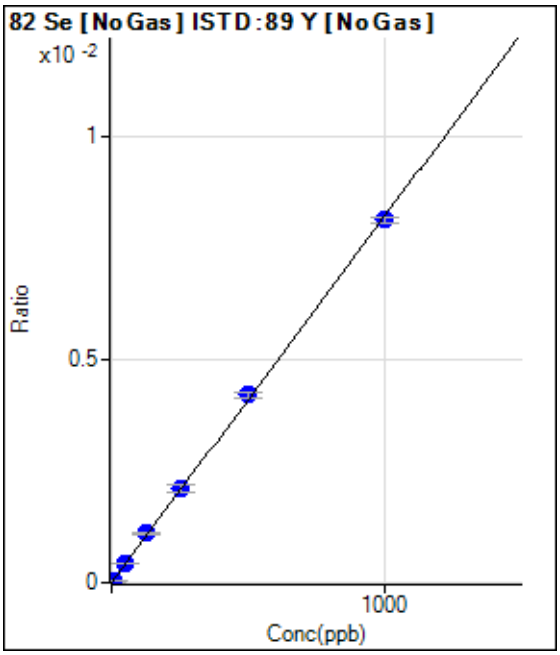
y = 6.4005E-006 * x + 4.7990E-006
R = 0.9997
DL = 0.3327
BEC = 0.7498

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11236.83		P	0.1
2	☐			11687.18		P	2.8
3	☐			11433.62		P	2.3
4	☐			11653.84		P	3.5
5	☐			11229.06		P	0.5
6	☐			11062.21		P	3.6
7	☐			11042.22		P	1.4
8	☐			10995.51		P	3.8

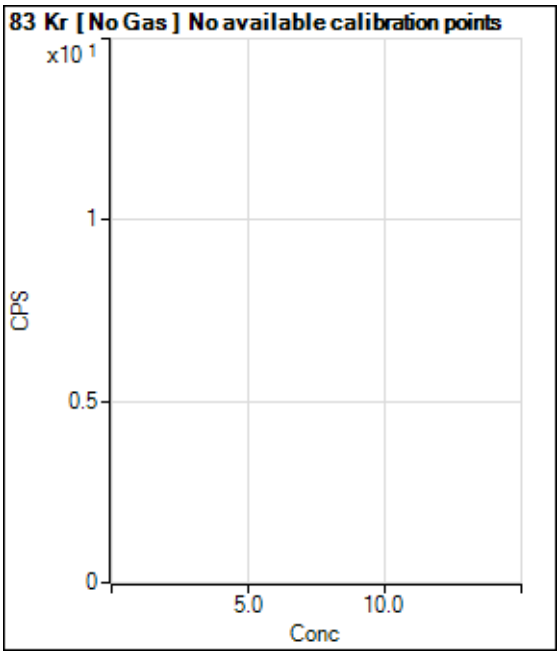


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.24	0.0000	P	30.1
2	☐	5.000	5.560	1842.41	0.0000	P	5.3
3	☐	50.000	53.602	17744.96	0.0004	P	4.4
4	☐	125.000	133.904	44202.79	0.0011	P	1.2
5	☐	250.000	256.919	86064.41	0.0021	P	7.9
6	☐	500.000	512.251	164694.46	0.0042	P	2.3
7	☐	1000.000	990.849	317069.46	0.0081	P	1.4
8	☐			14.82	0.0000	P	207.

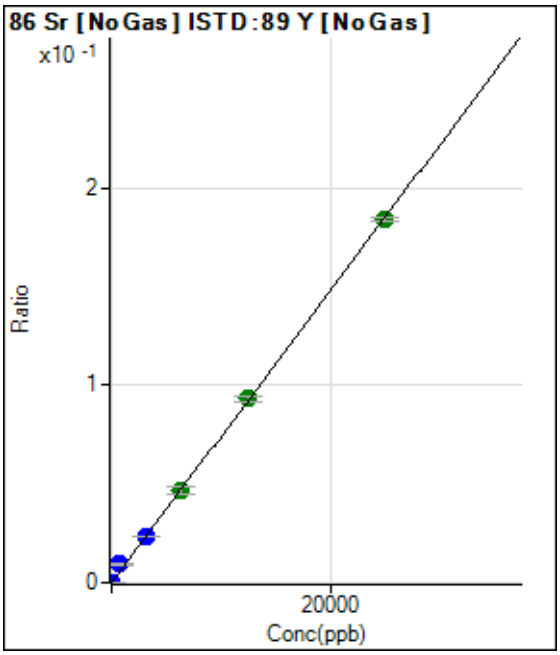
y = 8.1940E-006 * x + 7.9631E-007
R = 0.9998
DL = 0.08771
BEC = 0.09718

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			263.34		P	5.8
2	☐			263.34		P	8.8
3	☐			310.01		P	11.8
4	☐			297.79		P	16.6
5	☐			373.34		P	14.0
6	☐			286.67		P	11.6
7	☐			345.56		P	3.1
8	☐			457.79		P	7.1

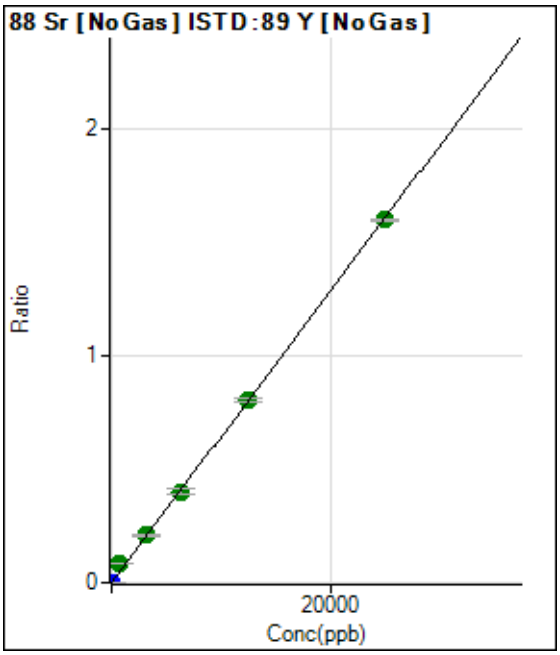


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	507.79	0.0000	P	14.1
2	☐	1.000	26.682	8329.20	0.0002	P	3.8
3	☐	625.000	1271.215	378951.79	0.0094	P	4.8
4	☐	3125.000	3146.963	935693.27	0.0232	P	1.2
5	☐	6250.000	6370.374	1921817.52	0.0470	A	8.7
6	☐	12500.000	12636.796	3660399.77	0.0933	A	3.0
7	☐	25000.000	24882.607	7174463.44	0.1837	A	1.0
8	☐			18442.28	0.0005	P	1.9

y = 7.3826E-006 * x + 1.2845E-005
R = 0.9997
DL = 0.7371
BEC = 1.74

Weight: <None>
Min Conc: 0

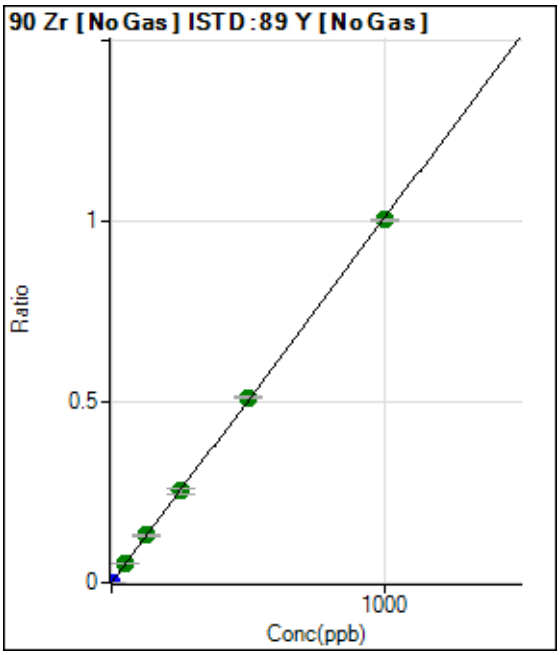
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	494.46	0.0000	P	21.8
2	☐	1.000	26.389	67622.54	0.0017	P	0.4
3	☐	625.000	1315.110	3397564.01	0.0842	A	4.3
4	☐	3125.000	3245.592	8367932.37	0.2079	A	1.8
5	☐	6250.000	6260.291	16387271.01	0.4010	A	7.8
6	☐	12500.000	12593.542	31644471.47	0.8066	A	2.2
7	☐	25000.000	24918.329	62327071.30	1.5960	A	0.6
8	☐			157637.18	0.0046	P	1.3

y = 6.4050E-005 * x + 1.2575E-005
R = 0.9997
DL = 0.1285
BEC = 0.1963

Weight: <None>
Min Conc: 0

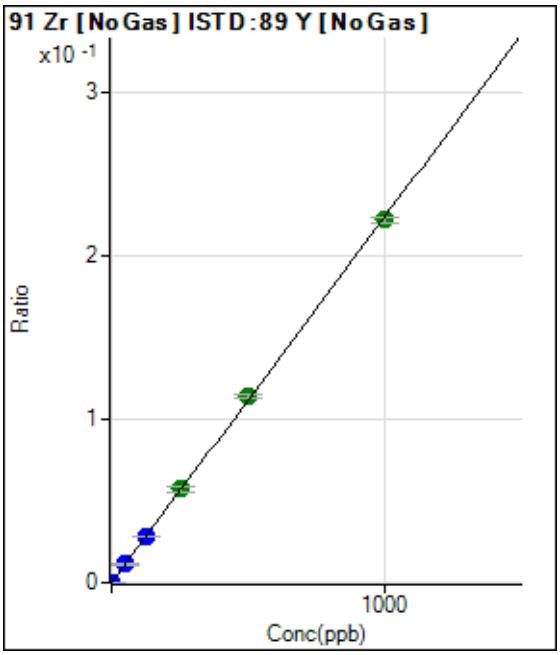


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1546.77	0.0000	P	5.2
2	☐	1.000	0.998	41469.31	0.0010	P	0.5
3	☐	50.000	52.892	2150761.84	0.0533	A	4.6
4	☐	125.000	129.760	5264382.18	0.1308	A	1.8
5	☐	250.000	251.722	10374921.37	0.2537	A	6.0
6	☐	500.000	508.086	20088414.70	0.5120	A	1.2
7	☐	1000.000	994.787	39145679.14	1.0024	A	0.4
8	☐			18448.96	0.0005	P	2.2

y = 0.0010 * x + 3.8855E-005
R = 0.9999
DL = 0.006027
BEC = 0.03856

Weight: <None>
Min Conc: 0

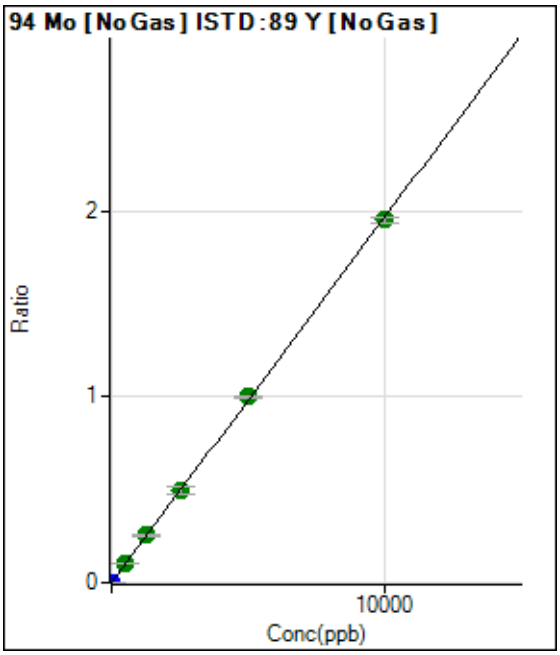
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	282.23	0.0000	P	6.4
2	☐	1.000	1.006	9215.34	0.0002	P	2.1
3	☐	50.000	50.372	454492.22	0.0113	P	5.4
4	☐	125.000	125.450	1129689.41	0.0281	P	1.4
5	☐	250.000	255.306	2334003.05	0.0571	A	7.8
6	☐	500.000	511.553	4488751.64	0.1144	A	2.3
7	☐	1000.000	992.822	8671494.73	0.2221	A	1.4
8	☐			4068.42	0.0001	P	1.6

y = 2.2366E-004 * x + 7.0434E-006
R = 0.9999
DL = 0.006011
BEC = 0.03149

Weight: <None>
Min Conc: 0

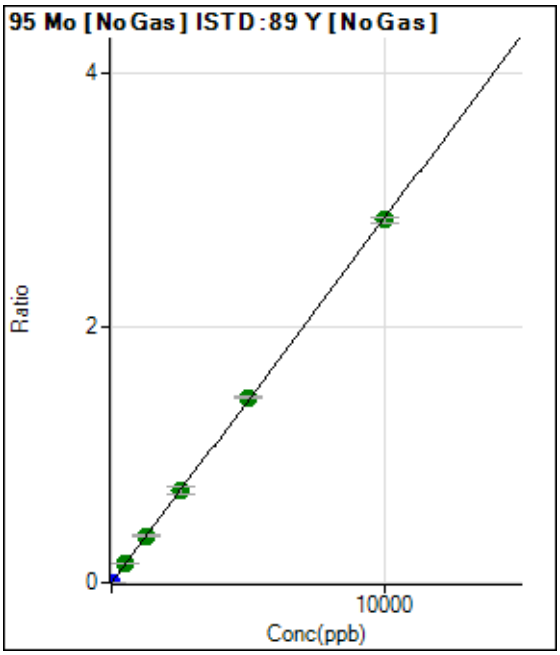


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	646.69	0.0000	P	8.7
2	☐	5.000	6.108	48305.80	0.0012	P	0.9
3	☐	500.000	521.005	4128162.65	0.1024	A	5.5
4	☐	1250.000	1297.512	10263976.03	0.2550	A	1.3
5	☐	2500.000	2526.570	20298686.64	0.4965	A	6.9
6	☐	5000.000	5103.923	39354599.97	1.0030	A	1.0
7	☐	10000.000	9934.406	76233000.53	1.9522	A	1.5
8	☐			13062.98	0.0004	P	8.0

y = 1.9651E-004 * x + 1.6279E-005
R = 0.9999
DL = 0.02161
BEC = 0.08284

Weight: <None>
Min Conc: 0

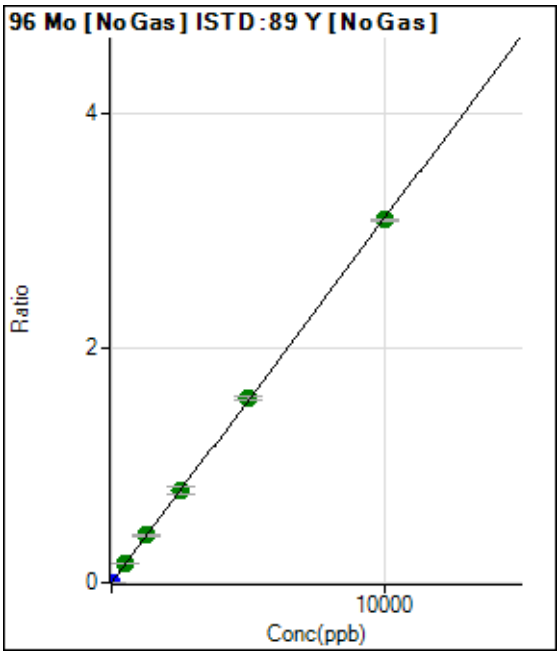
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	413.35	0.0000	P	13.7
2	☐	5.000	5.116	58489.08	0.0015	P	1.2
3	☐	500.000	518.296	5975232.55	0.1482	A	4.5
4	☐	1250.000	1285.659	14794573.95	0.3675	A	1.1
5	☐	2500.000	2514.904	29373063.45	0.7189	A	8.5
6	☐	5000.000	5079.569	56972555.26	1.4521	A	1.4
7	☐	10000.000	9951.117	111083017.2	2.8447	A	1.3
8	☐			11715.20	0.0003	P	8.4

y = 2.8586E-004 * x + 1.0449E-005
R = 0.9999
DL = 0.01507
BEC = 0.03655

Weight: <None>
Min Conc: 0

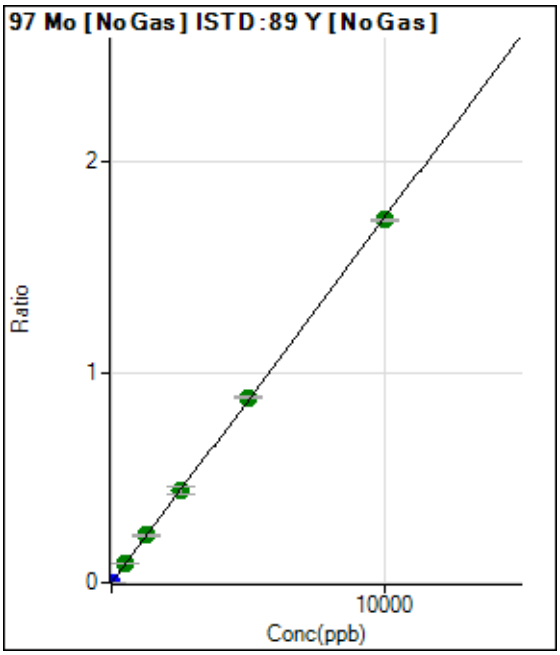


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	488.90	0.0000	P	9.2
2	☐	5.000	5.174	64215.23	0.0016	P	3.5
3	☐	500.000	524.740	6566227.89	0.1628	A	4.6
4	☐	1250.000	1300.383	16241352.95	0.4035	A	1.6
5	☐	2500.000	2523.690	32001377.02	0.7831	A	7.9
6	☐	5000.000	5058.198	61587361.86	1.5695	A	1.6
7	☐	10000.000	9957.443	120652823.7	3.0896	A	0.4
8	☐			19500.63	0.0006	P	7.4

y = 3.1028E-004 * x + 1.2324E-005
R = 1.0000
DL = 0.01095
BEC = 0.03972

Weight: <None>
Min Conc: 0

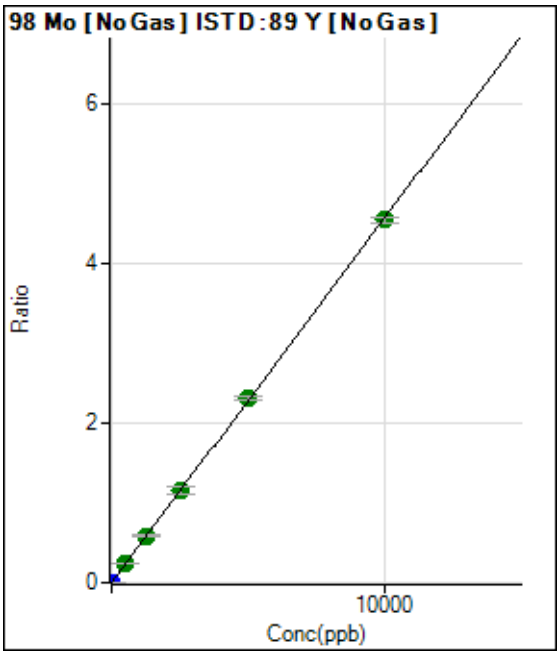
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	217.78	0.0000	P	13.4
2	☐	5.000	5.197	36026.68	0.0009	P	0.8
3	☐	500.000	529.567	3704510.50	0.0919	A	5.4
4	☐	1250.000	1304.123	9107722.02	0.2263	A	2.1
5	☐	2500.000	2532.204	17960477.37	0.4394	A	7.1
6	☐	5000.000	5078.525	34574546.98	0.8812	A	1.6
7	☐	10000.000	9944.442	67377906.22	1.7254	A	0.7
8	☐			6633.99	0.0002	P	15.4

y = 1.7350E-004 * x + 5.5020E-006
R = 0.9999
DL = 0.01272
BEC = 0.03171

Weight: <None>
Min Conc: 0

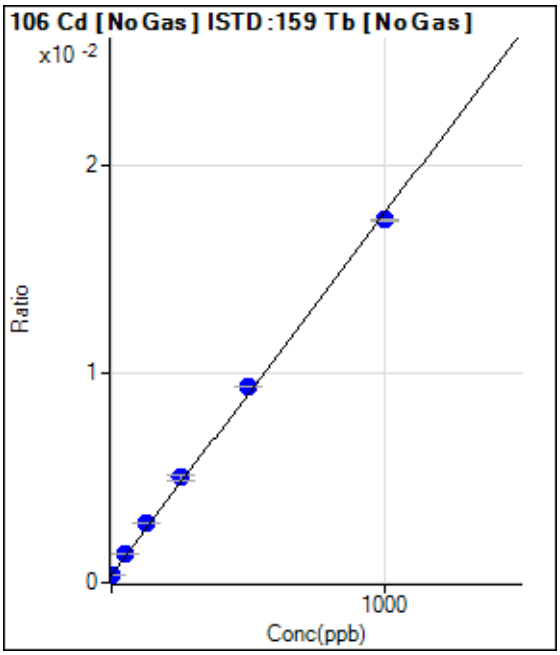


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	565.57	0.0000	P	11.4
2	☐	5.000	5.084	92664.54	0.0023	P	1.3
3	☐	500.000	514.561	9466813.33	0.2348	A	4.8
4	☐	1250.000	1286.924	23634655.48	0.5872	A	1.1
5	☐	2500.000	2525.534	47100776.52	1.1523	A	7.2
6	☐	5000.000	5064.507	90649366.43	2.3106	A	2.3
7	☐	10000.000	9956.019	177372772.9	4.5423	A	1.4
8	☐			16260.32	0.0005	P	14.1

y = 4.5624E-004 * x + 1.4275E-005
R = 1.0000
DL = 0.01069
BEC = 0.03129

Weight: <None>
Min Conc: 0

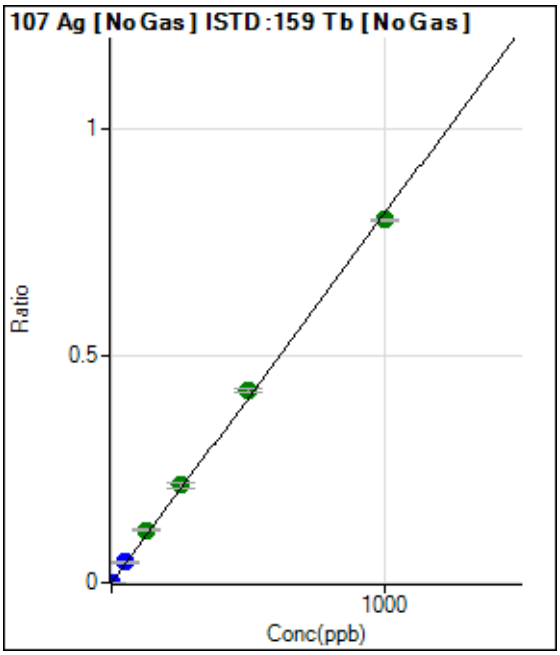
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11947.50	0.0004	P	3.9
2	☐	1.000	1.368	12643.71	0.0004	P	2.0
3	☐	50.000	56.519	42865.24	0.0014	P	2.1
4	☐	125.000	142.082	89067.27	0.0028	P	1.7
5	☐	250.000	268.394	162845.50	0.0050	P	5.8
6	☐	500.000	522.087	295857.15	0.0094	P	0.1
7	☐	1000.000	981.896	551613.67	0.0174	P	0.6
8	☐			10142.70	0.0004	P	2.9

y = 1.7320E-005 * x + 3.7960E-004
R = 0.9994
DL = 2.577
BEC = 21.92

Weight: <None>
Min Conc: 0

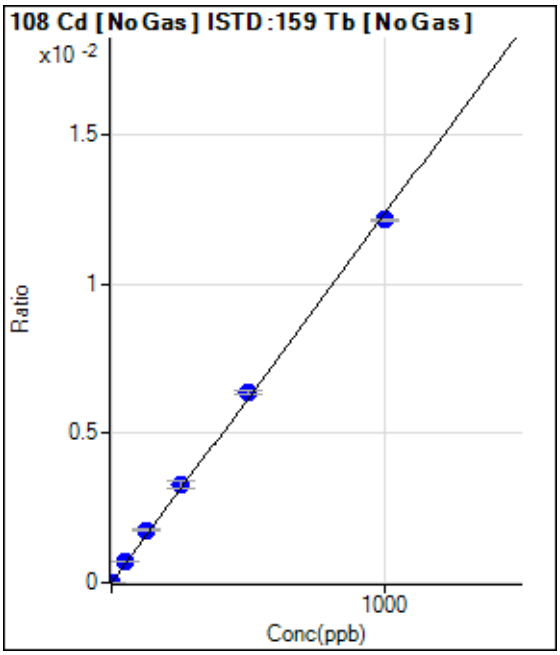


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0000	P	15.0
2	☐	1.000	1.060	27196.92	0.0009	P	2.3
3	☐	50.000	54.923	1407376.13	0.0446	P	5.1
4	☐	125.000	141.738	3611621.48	0.1152	A	2.6
5	☐	250.000	264.867	6970891.28	0.2153	A	6.0
6	☐	500.000	521.604	13307616.61	0.4239	A	1.8
7	☐	1000.000	983.143	25350062.96	0.7990	A	0.4
8	☐			3220.41	0.0001	P	5.3

y = 8.1267E-004 * x + 6.6978E-006
R = 0.9994
DL = 0.003714
BEC = 0.008242

Weight: <None>
Min Conc: 0

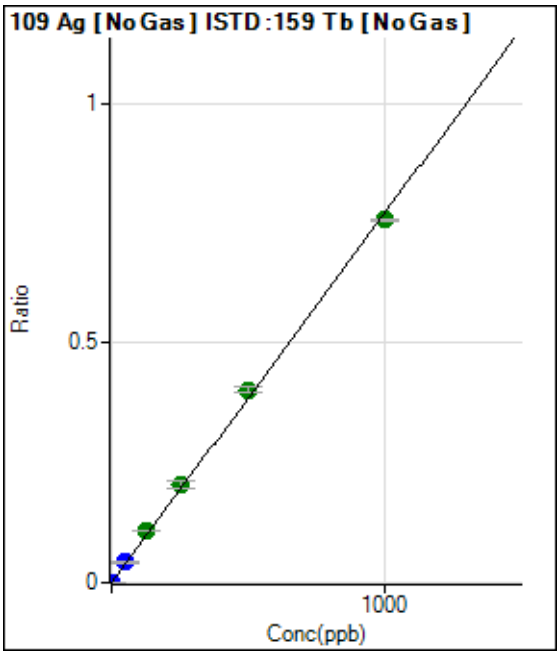
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	32.7
2	☐	1.000	1.142	467.79	0.0000	P	5.5
3	☐	50.000	56.511	21994.31	0.0007	P	4.0
4	☐	125.000	141.410	54676.78	0.0017	P	2.9
5	☐	250.000	266.657	106443.85	0.0033	P	6.9
6	☐	500.000	518.068	200503.90	0.0064	P	2.0
7	☐	1000.000	984.425	385038.32	0.0121	P	0.5
8	☐			160.00	0.0000	P	21.5

y = 1.2327E-005 * x + 8.4760E-007
R = 0.9995
DL = 0.06748
BEC = 0.06876

Weight: <None>
Min Conc: 0

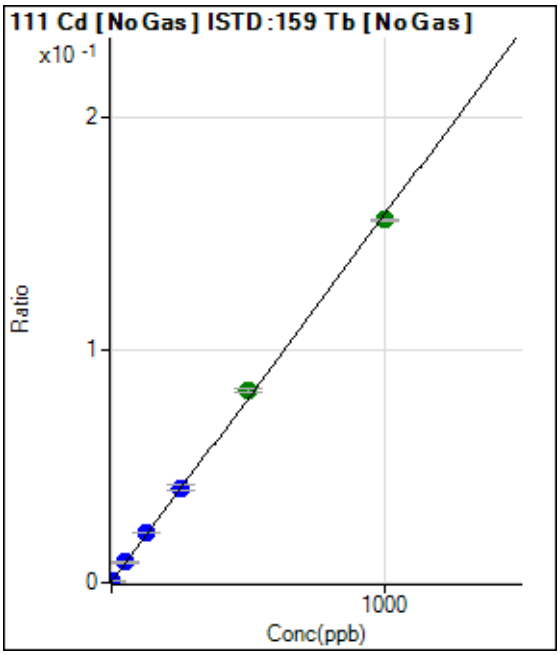


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	11.9
2	☐	1.000	1.089	26369.78	0.0008	P	0.6
3	☐	50.000	55.265	1341166.66	0.0426	P	5.9
4	☐	125.000	139.569	3369727.73	0.1075	A	1.8
5	☐	250.000	265.955	6630232.68	0.2048	A	6.3
6	☐	500.000	522.982	12639087.31	0.4026	A	2.6
7	☐	1000.000	982.436	23998036.31	0.7564	A	0.7
8	☐			2970.35	0.0001	P	5.4

y = 7.6989E-004 * x + 2.5873E-006
R = 0.9994
DL = 0.001202
BEC = 0.003361

Weight: <None>
Min Conc: 0

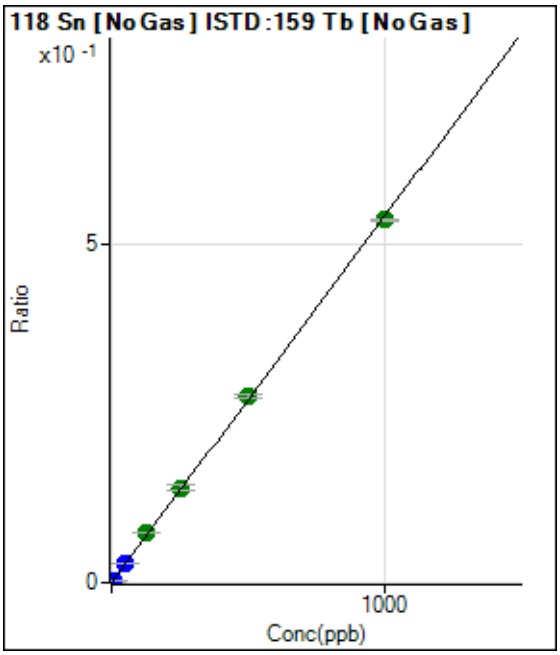
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8357.92	0.0003	P	4.0
2	☐	1.000	1.128	13903.13	0.0004	P	1.4
3	☐	50.000	54.358	278749.92	0.0088	P	4.7
4	☐	125.000	134.677	674523.01	0.0215	P	1.8
5	☐	250.000	256.005	1316216.68	0.0407	P	6.6
6	☐	500.000	522.520	2596342.22	0.0827	A	1.7
7	☐	1000.000	985.811	4942578.50	0.1558	A	0.8
8	☐			7550.13	0.0003	P	3.2

y = 1.5775E-004 * x + 2.6557E-004
R = 0.9996
DL = 0.204
BEC = 1.683

Weight: <None>
Min Conc: 0

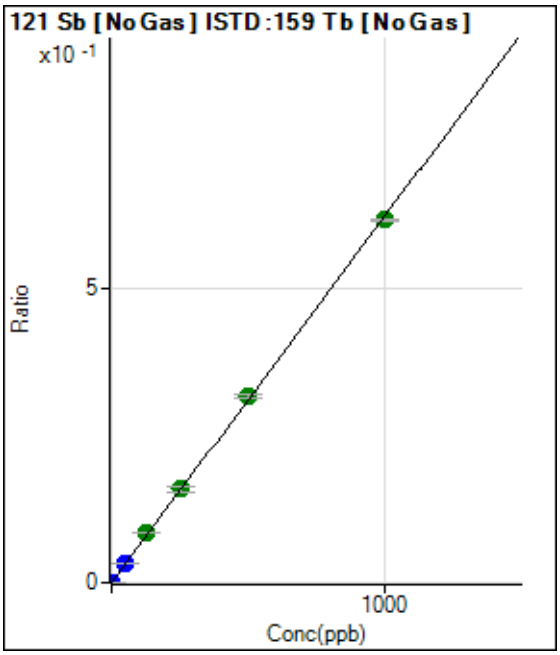


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4312.98	0.0001	P	13.2
2	☐	5.000	5.496	97386.66	0.0031	P	2.5
3	☐	50.000	53.050	907980.29	0.0288	P	4.9
4	☐	125.000	136.852	2322675.64	0.0741	A	2.7
5	☐	250.000	258.246	4523510.18	0.1397	A	5.6
6	☐	500.000	511.082	8673064.80	0.2763	A	1.9
7	☐	1000.000	990.761	16987578.64	0.5354	A	0.6
8	☐			6311.53	0.0002	P	2.7

y = 5.4027E-004 * x + 1.3804E-004
R = 0.9998
DL = 0.1013
BEC = 0.2555

Weight: <None>
Min Conc: 0

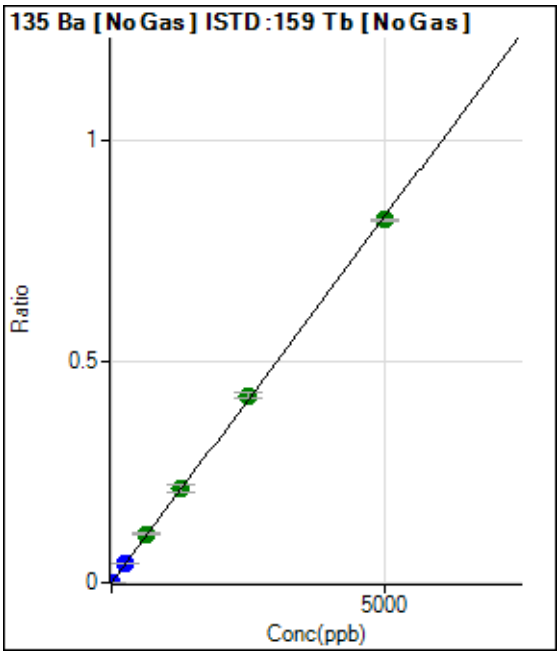
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	32.1
2	☐	2.000	2.139	41774.70	0.0013	P	1.2
3	☐	50.000	52.565	1031682.19	0.0327	P	4.8
4	☐	125.000	136.674	2667272.06	0.0851	A	3.1
5	☐	250.000	256.738	5175725.13	0.1598	A	5.9
6	☐	500.000	511.121	9988130.96	0.3182	A	2.1
7	☐	1000.000	991.168	19575429.43	0.6170	A	0.2
8	☐			5815.74	0.0002	P	5.1

y = 6.2247E-004 * x + 1.4878E-006
R = 0.9998
DL = 0.0023
BEC = 0.00239

Weight: <None>
Min Conc: 0

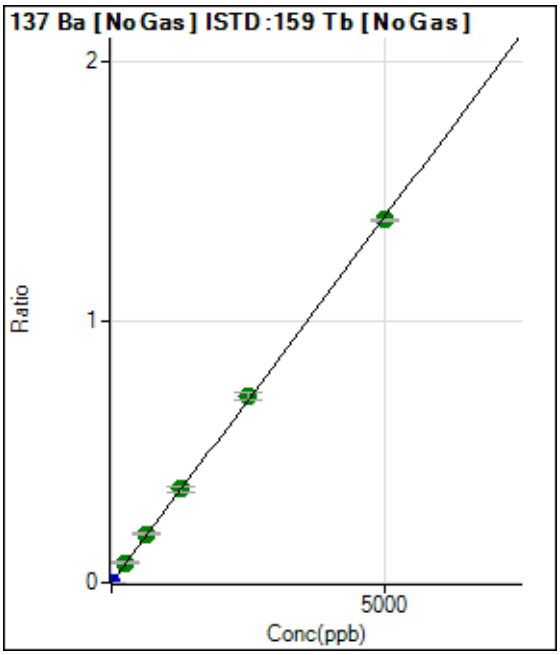


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0000	P	16.0
2	☐	10.000	10.361	53794.10	0.0017	P	2.3
3	☐	250.000	260.292	1357261.66	0.0430	P	4.6
4	☐	625.000	669.590	3471786.30	0.1107	A	2.4
5	☐	1250.000	1284.545	6877637.54	0.2124	A	6.7
6	☐	2500.000	2556.629	13270538.13	0.4228	A	2.8
7	☐	5000.000	4956.960	26007601.56	0.8197	A	0.2
8	☐			8522.75	0.0003	P	2.8

y = 1.6536E-004 * x + 3.1658E-006
R = 0.9999
DL = 0.009209
BEC = 0.01914

Weight: <None>
Min Conc: 0

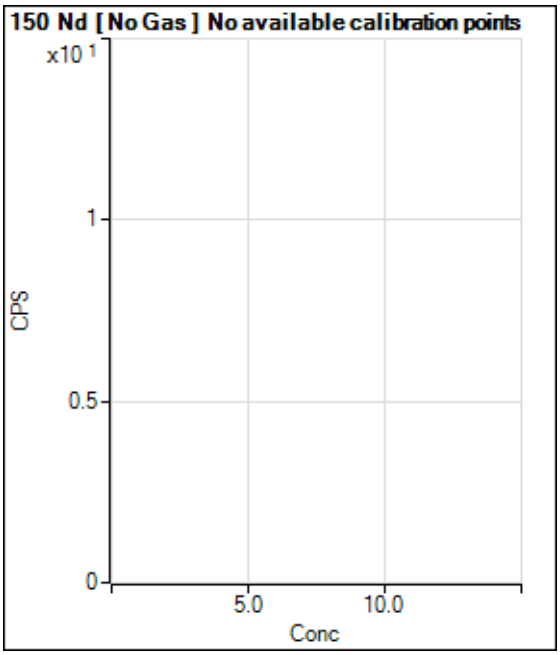
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0000	P	11.9
2	☐	10.000	10.616	93410.90	0.0030	P	0.9
3	☐	250.000	273.898	2419894.30	0.0768	A	5.4
4	☐	625.000	661.566	5812144.43	0.1854	A	3.2
5	☐	1250.000	1286.393	11672686.22	0.3605	A	6.2
6	☐	2500.000	2542.474	22359159.67	0.7124	A	3.9
7	☐	5000.000	4963.898	44130861.56	1.3909	A	0.2
8	☐			14411.17	0.0005	P	2.1

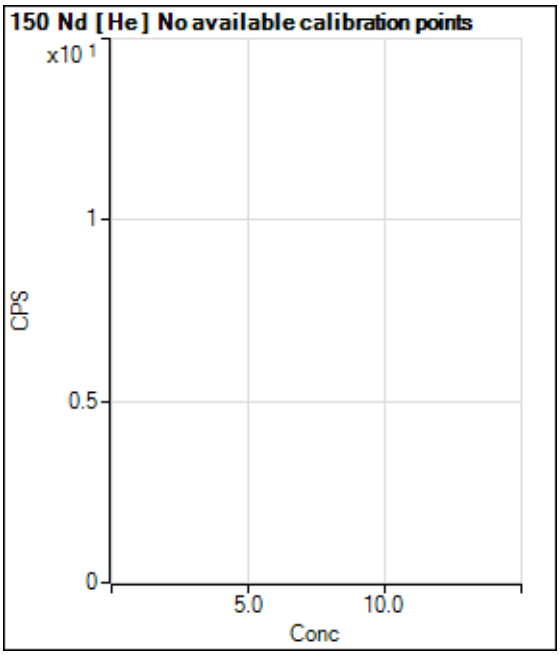
y = 2.8021E-004 * x + 5.4365E-006
R = 0.9999
DL = 0.006939
BEC = 0.0194

Weight: <None>
Min Conc: 0

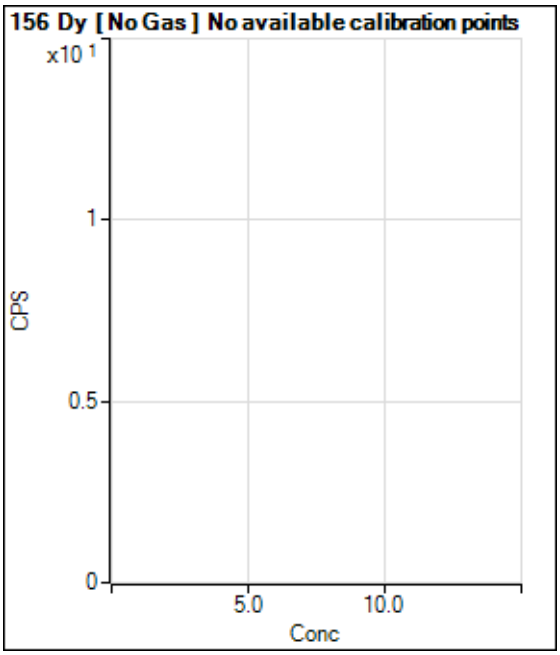


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21.11		P	24.1
2	☐			23.33		P	14.3
3	☐			136.67		P	12.9
4	☐			291.12		P	5.8
5	☐			594.46		P	5.8
6	☐			1210.06		P	2.0
7	☐			2247.99		P	1.0
8	☐			387.79		P	9.5

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

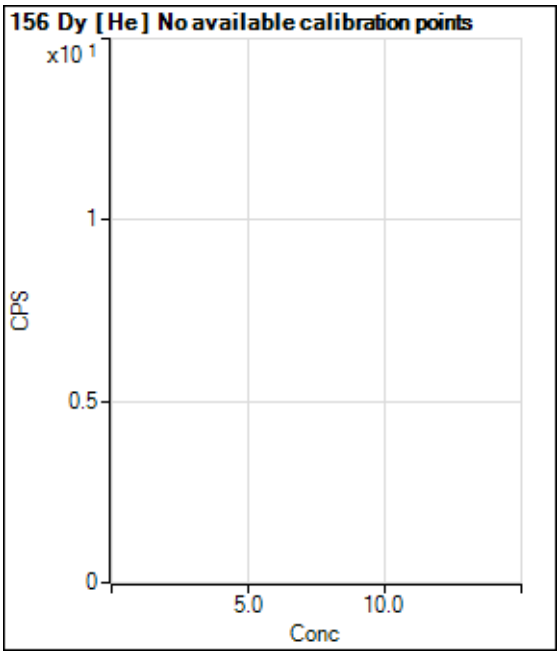


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			11.11		P	75.5
4	☐			18.89		P	20.4
5	☐			42.22		P	25.4
6	☐			87.78		P	11.0
7	☐			148.89		P	16.2
8	☐			110.00		P	8.0

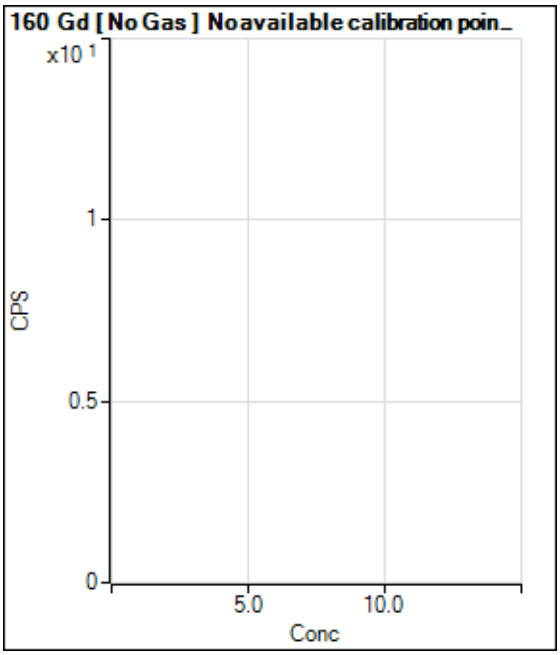


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.78		P	24.7
2	☐			18.89		P	66.8
3	☐			62.22		P	34.4
4	☐			108.89		P	11.6
5	☐			177.78		P	19.2
6	☐			335.57		P	4.1
7	☐			668.91		P	4.7
8	☐			725.58		P	7.2

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

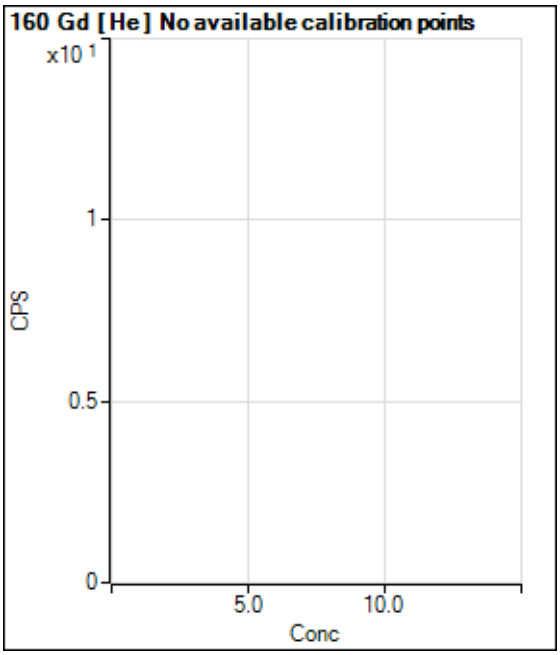


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.
2	☐			11.11		P	34.6
3	☐			10.00		P	88.2
4	☐			26.66		P	57.3
5	☐			44.45		P	8.7
6	☐			65.56		P	19.2
7	☐			128.89		P	3.9
8	☐			254.45		P	7.4

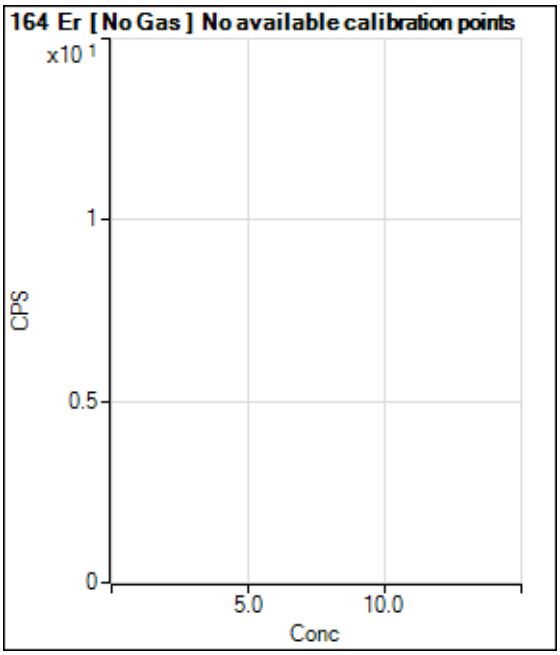


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			181.11		P	14.9
2	☐			200.01		P	23.5
3	☐			220.01		P	18.4
4	☐			228.89		P	19.0
5	☐			243.34		P	7.6
6	☐			362.23		P	12.0
7	☐			542.24		P	3.2
8	☐			797.81		P	5.4

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

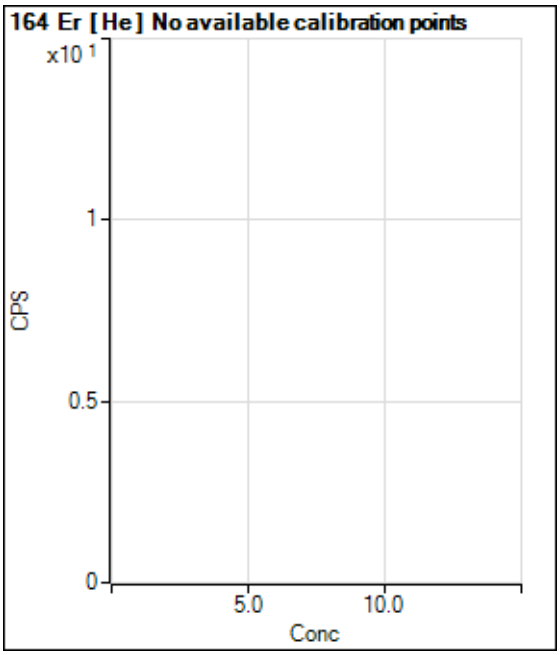


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			37.78		P	22.2
2	☐			42.22		P	44.9
3	☐			38.89		P	47.2
4	☐			61.11		P	19.2
5	☐			76.67		P	15.7
6	☐			96.67		P	6.0
7	☐			183.34		P	25.5
8	☐			353.34		P	8.2

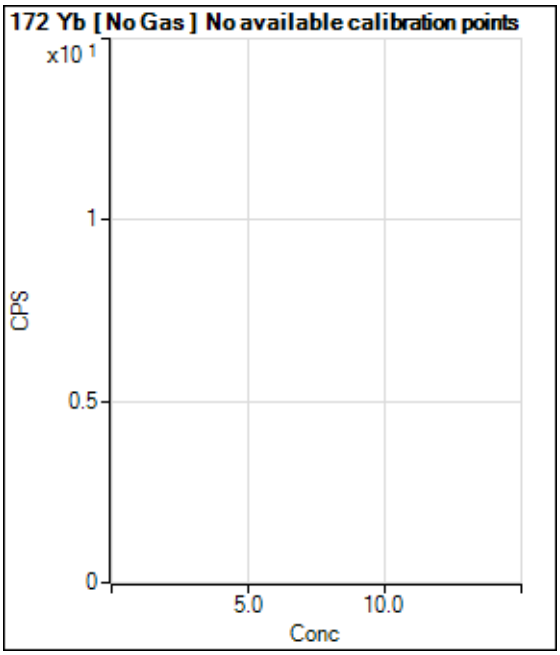


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1	☐			114.45		P	6.1
2	☐			126.67		P	16.0
3	☐			162.22		P	9.7
4	☐			233.34		P	3.8
5	☐			325.57		P	11.9
6	☐			430.01		P	6.3
7	☐			622.24		P	8.8
8	☐			833.37		P	5.0

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

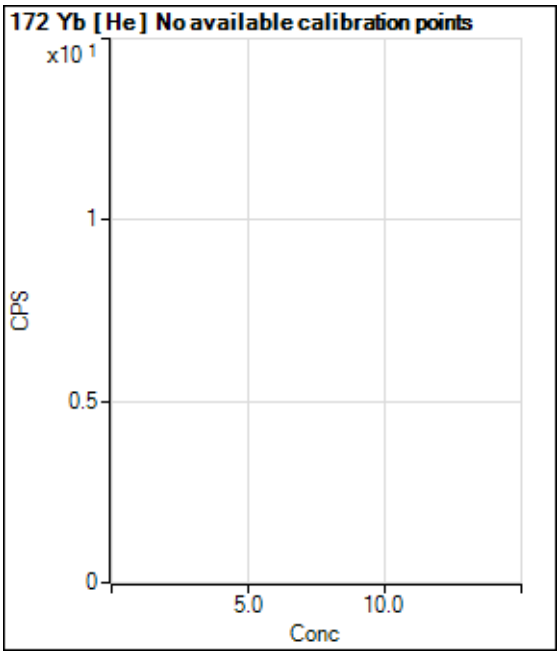


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1	☐			30.00		P	40.1
2	☐			46.67		P	18.9
3	☐			54.45		P	7.1
4	☐			85.55		P	27.4
5	☐			106.67		P	9.4
6	☐			120.00		P	43.7
7	☐			193.34		P	22.8
8	☐			294.45		P	9.9

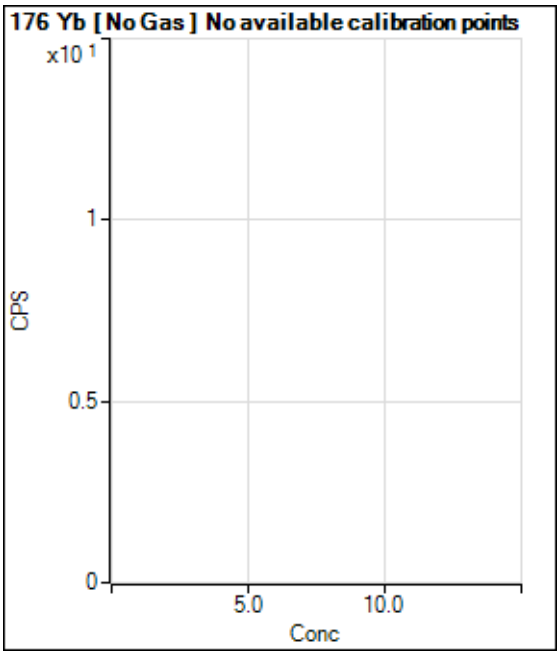


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1	☐			161.11		P	24.0
2	☐			146.67		P	3.9
3	☐			196.67		P	16.3
4	☐			261.11		P	14.8
5	☐			278.89		P	10.0
6	☐			390.01		P	3.1
7	☐			636.69		P	6.0
8	☐			926.71		P	7.6

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

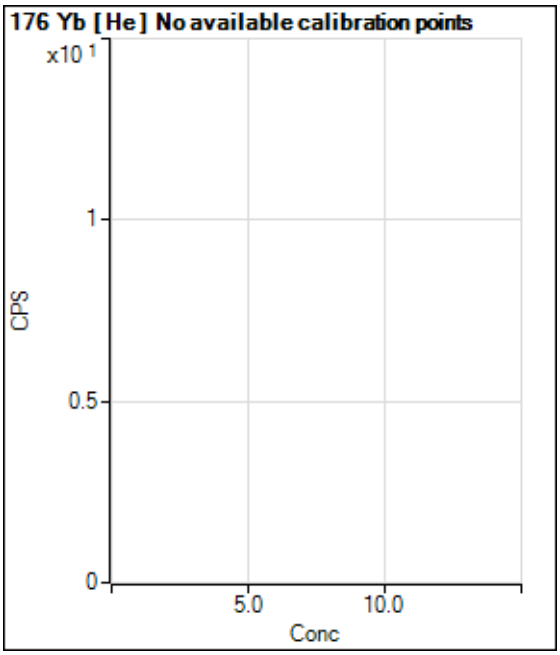


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			64.44		P	25.5
2	☐			57.78		P	13.3
3	☐			73.33		P	29.8
4	☐			97.78		P	13.8
5	☐			124.45		P	20.3
6	☐			153.34		P	23.9
7	☐			280.01		P	18.0
8	☐			438.90		P	19.7

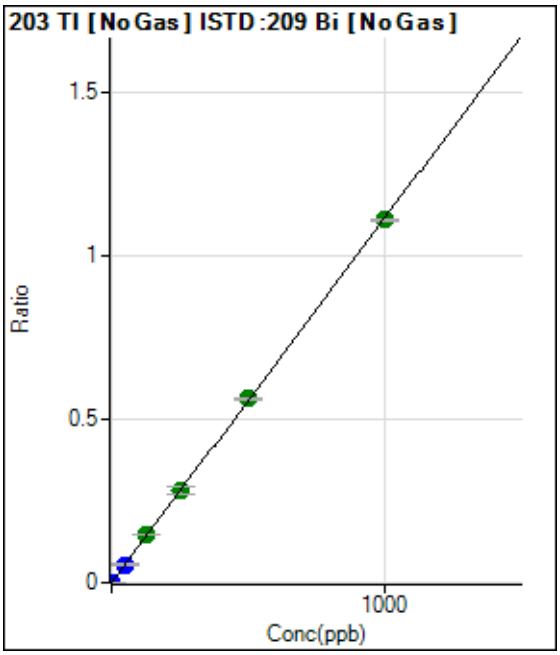


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3708.34		P	9.3
2	☐			3707.23		P	4.3
3	☐			8801.90		P	2.1
4	☐			15836.25		P	1.4
5	☐			28161.22		P	0.5
6	☐			51204.37		P	1.1
7	☐			96699.56		P	0.9
8	☐			3835.04		P	2.6

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			991.16		P	6.3
2	☐			826.70		P	6.3
3	☐			2710.31		P	1.2
4	☐			5313.34		P	3.0
5	☐			9595.81		P	2.2
6	☐			17444.95		P	1.2
7	☐			34173.07		P	0.6
8	☐			950.04		P	5.2

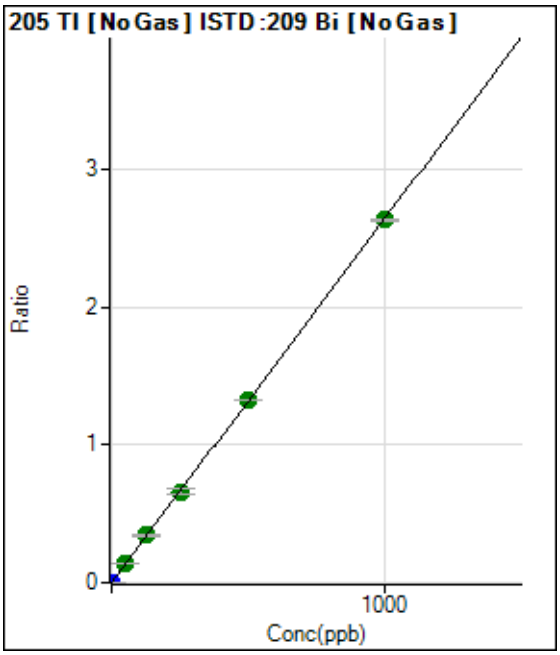


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	165.56	0.0000	P	25.4
2	☐	1.000	1.003	20871.28	0.0011	P	3.1
3	☐	50.000	50.010	1041612.21	0.0558	P	4.5
4	☐	125.000	131.226	2704889.54	0.1464	A	1.9
5	☐	250.000	253.274	5349935.92	0.2825	A	6.6
6	☐	500.000	504.842	10141066.93	0.5630	A	0.6
7	☐	1000.000	995.982	19876028.04	1.1108	A	0.3
8	☐			1203.41	0.0001	P	22.1

y = 0.0011 * x + 8.9821E-006
R = 1.0000
DL = 0.00613
BEC = 0.008054

Weight: <None>
Min Conc: 0

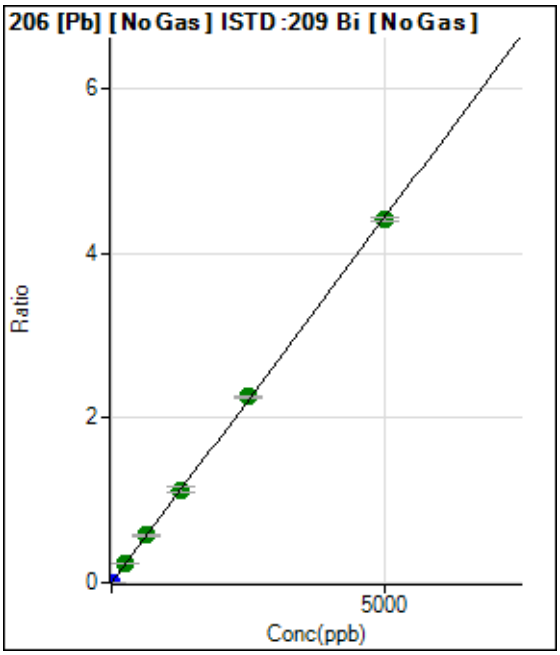
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On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	381.12	0.0000	P	2.8
2	☐	1.000	1.006	49588.94	0.0027	P	1.7
3	☐	50.000	51.798	2556518.09	0.1369	A	4.2
4	☐	125.000	129.638	6330215.18	0.3426	A	3.3
5	☐	250.000	251.149	12567836.34	0.6637	A	7.1
6	☐	500.000	502.782	23932527.98	1.3287	A	0.4
7	☐	1000.000	997.652	47175521.52	2.6364	A	0.3
8	☐			2823.69	0.0002	P	16.6

y = 0.0026 * x + 2.0448E-005
R = 1.0000
DL = 0.0006551
BEC = 0.007738

Weight: <None>
Min Conc: 0

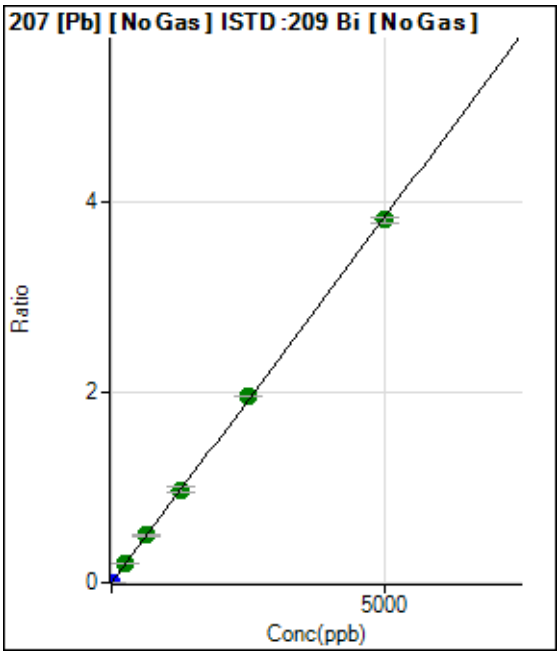


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1093.39	0.0001	P	10.0
2	☐	1.000	0.995	17439.56	0.0009	P	2.9
3	☐	250.000	264.512	4387140.98	0.2349	A	3.8
4	☐	625.000	651.092	10683633.59	0.5781	A	2.4
5	☐	1250.000	1267.441	21316000.38	1.1253	A	6.2
6	☐	2500.000	2545.780	40709414.11	2.2603	A	1.2
7	☐	5000.000	4968.763	78936059.93	4.4115	A	0.9
8	☐			10152.95	0.0007	P	1.7

y = 8.8783E-004 * x + 5.8923E-005
R = 0.9999
DL = 0.02
BEC = 0.06637

Weight: <None>
Min Conc: 0

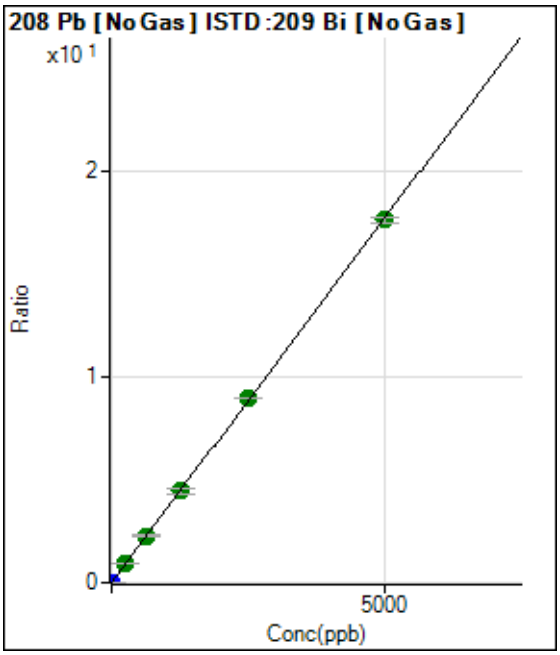
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1020.05	0.0001	P	7.6
2	☐	1.000	1.013	15437.08	0.0008	P	4.5
3	☐	250.000	264.240	3796890.95	0.2033	A	4.8
4	☐	625.000	651.221	9257092.71	0.5011	A	4.0
5	☐	1250.000	1265.965	18448205.14	0.9740	A	6.5
6	☐	2500.000	2551.927	35363620.86	1.9634	A	0.7
7	☐	5000.000	4966.055	68362541.20	3.8207	A	1.8
8	☐			8778.62	0.0006	P	3.6

y = 7.6935E-004 * x + 5.4896E-005
R = 0.9999
DL = 0.0163
BEC = 0.07135

Weight: <None>
Min Conc: 0

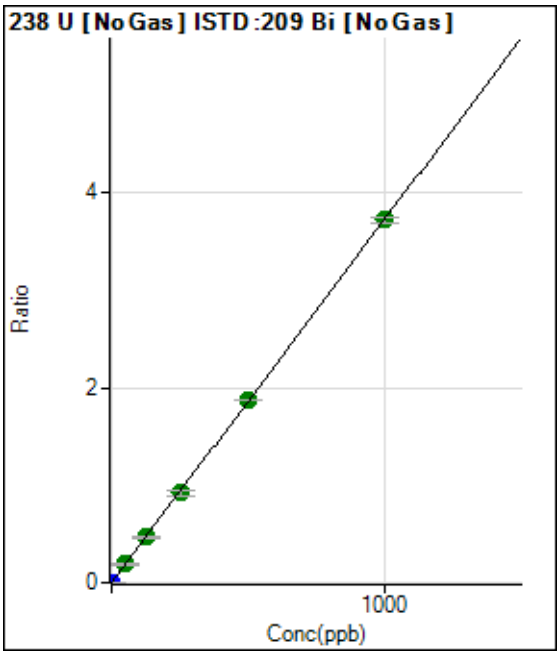


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4421.46	0.0002	P	8.2
2	☐	1.000	1.005	70430.99	0.0038	P	2.1
3	☐	250.000	261.300	17309940.40	0.9270	A	4.7
4	☐	625.000	646.399	42365062.63	2.2930	A	3.6
5	☐	1250.000	1257.129	84444993.74	4.4592	A	6.8
6	☐	2500.000	2530.335	161657695.3	8.9751	A	0.6
7	☐	5000.000	4979.810	316049160.8	17.6632	A	1.3
8	☐			40682.64	0.0028	P	2.3

y = 0.0035 * x + 2.3802E-004
R = 1.0000
DL = 0.01648
BEC = 0.06711

Weight: <None>
Min Conc: 0

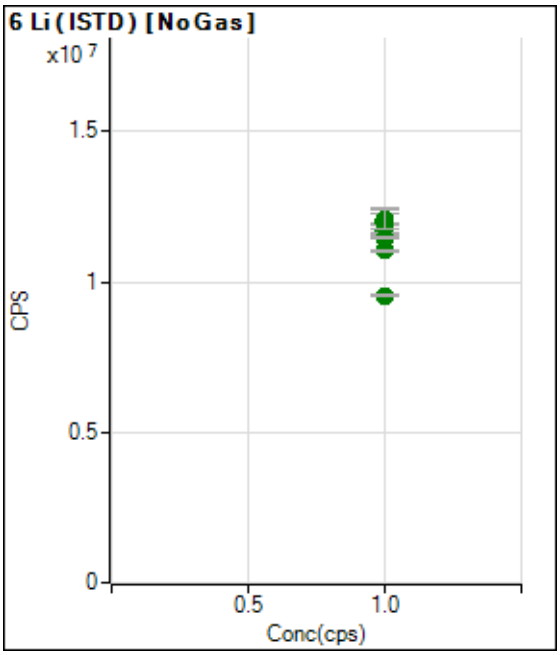
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On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0000	P	46.4
2	☐	1.000	0.968	66752.91	0.0036	P	2.5
3	☐	50.000	50.320	3498483.94	0.1874	A	5.4
4	☐	125.000	124.648	8577221.75	0.4642	A	3.2
5	☐	250.000	246.433	17369832.80	0.9177	A	8.2
6	☐	500.000	503.587	33779443.11	1.8754	A	0.6
7	☐	1000.000	999.126	66583117.34	3.7208	A	1.5
8	☐			1883.58	0.0001	P	12.4

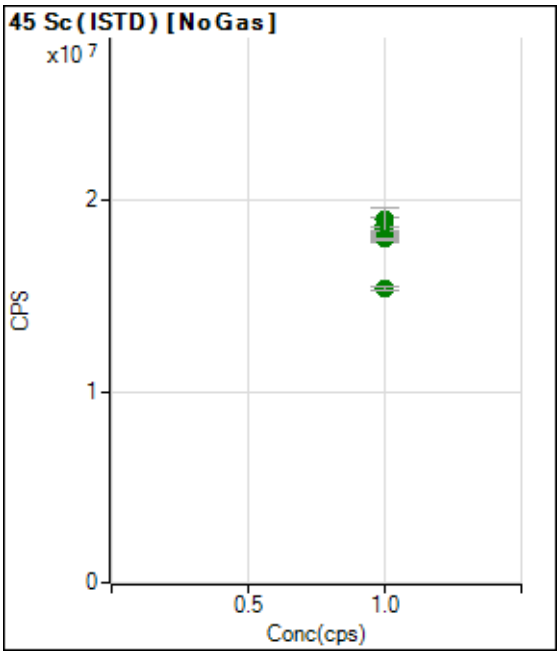
y = 0.0037 * x + 2.6723E-006
R = 1.0000
DL = 0.000998
BEC = 0.0007176

Weight: <None>
Min Conc: 0

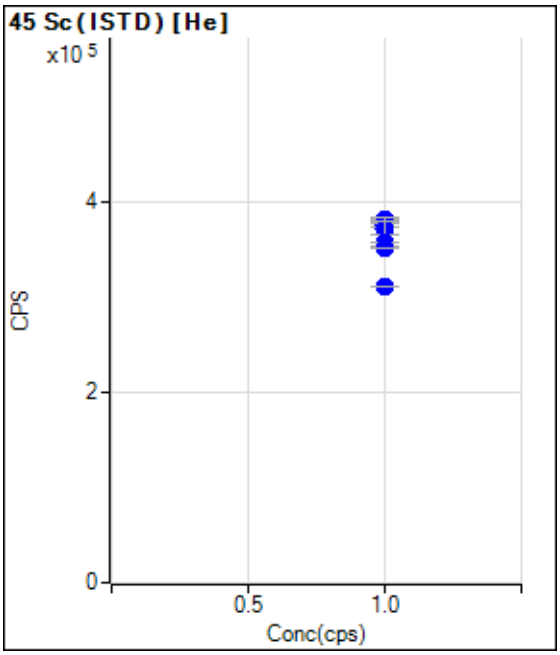


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12004663.50		A	7.3
2	☐	1.000		11901657.42		A	0.4
3	☐	1.000		11961183.94		A	5.3
4	☐	1.000		11690891.26		A	0.7
5	☐	1.000		12058517.60		A	5.3
6	☐	1.000		11471899.99		A	0.9
7	☐	1.000		11030912.71		A	0.3
8	☐	1.000		9552965.27		A	1.0

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

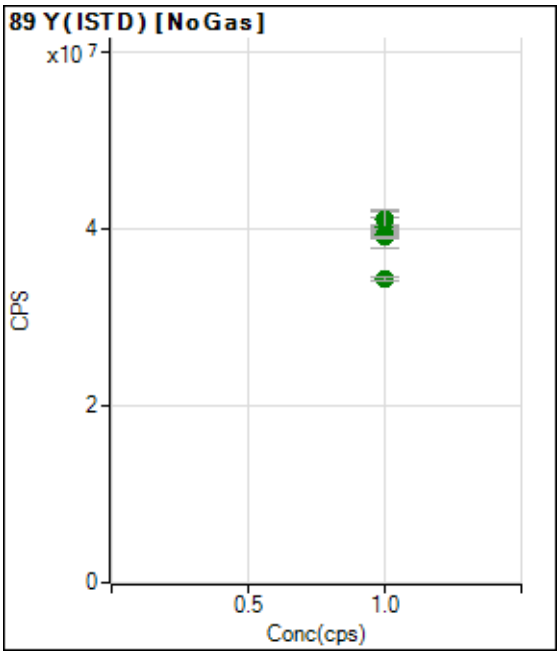


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18748619.58		A	9.2
2	☐	1.000		18497075.00		A	1.0
3	☐	1.000		18743800.69		A	4.3
4	☐	1.000		18406775.98		A	2.0
5	☐	1.000		18990975.13		A	6.3
6	☐	1.000		17978109.04		A	1.8
7	☐	1.000		17972841.40		A	1.0
8	☐	1.000		15403974.63		A	0.8

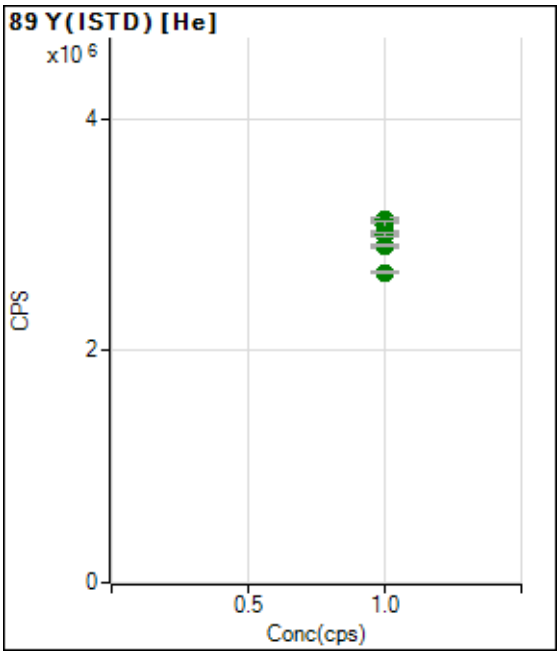


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		376485.05		P	1.1
2	☐	1.000		381854.71		P	0.6
3	☐	1.000		380646.93		P	1.6
4	☐	1.000		373117.83		P	3.8
5	☐	1.000		358391.00		P	0.2
6	☐	1.000		352791.58		P	0.7
7	☐	1.000		352596.50		P	0.1
8	☐	1.000		311726.04		P	0.6

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

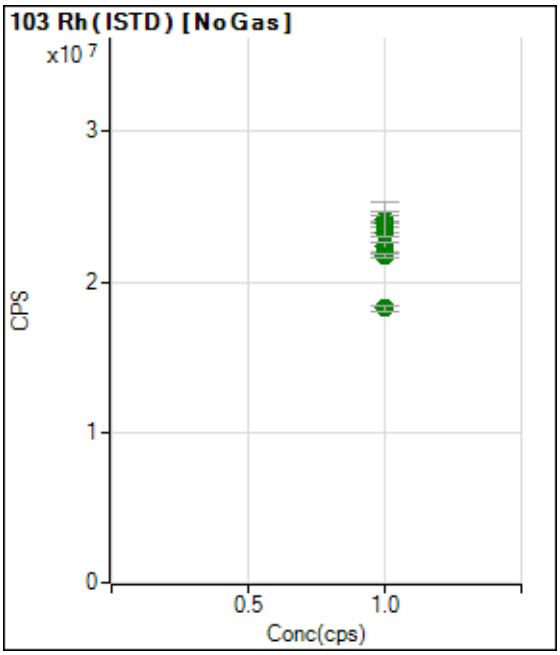


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		39928719.68		A	10.6
2	☐	1.000		39713997.46		A	2.1
3	☐	1.000		40381853.29		A	4.6
4	☐	1.000		40255944.68		A	1.1
5	☐	1.000		40994621.33		A	6.0
6	☐	1.000		39239769.14		A	1.7
7	☐	1.000		39051521.92		A	0.7
8	☐	1.000		34320793.38		A	1.1

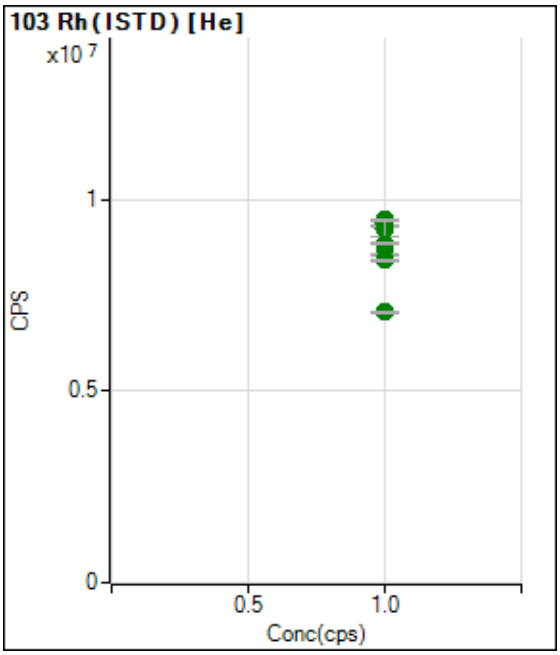


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3013657.77		A	1.4
2	☐	1.000		3118463.25		A	1.3
3	☐	1.000		3127263.63		A	1.8
4	☐	1.000		3075105.03		A	2.8
5	☐	1.000		2993510.02		A	1.0
6	☐	1.000		2895157.84		A	0.5
7	☐	1.000		2903869.40		A	0.6
8	☐	1.000		2672978.80		A	0.4

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

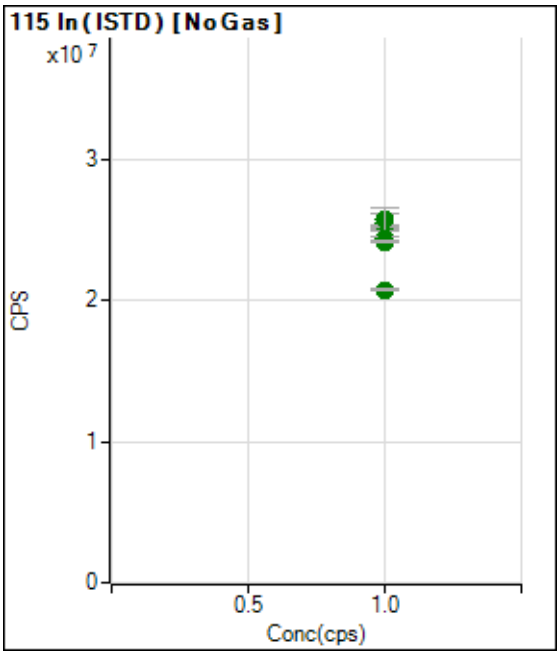


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		24119954.09		A	9.4
2	☐	1.000		23980469.37		A	0.8
3	☐	1.000		23844484.37		A	5.0
4	☐	1.000		23320708.54		A	2.3
5	☐	1.000		23848886.87		A	6.9
6	☐	1.000		22326742.44		A	2.9
7	☐	1.000		21754901.76		A	1.0
8	☐	1.000		18244679.45		A	1.9

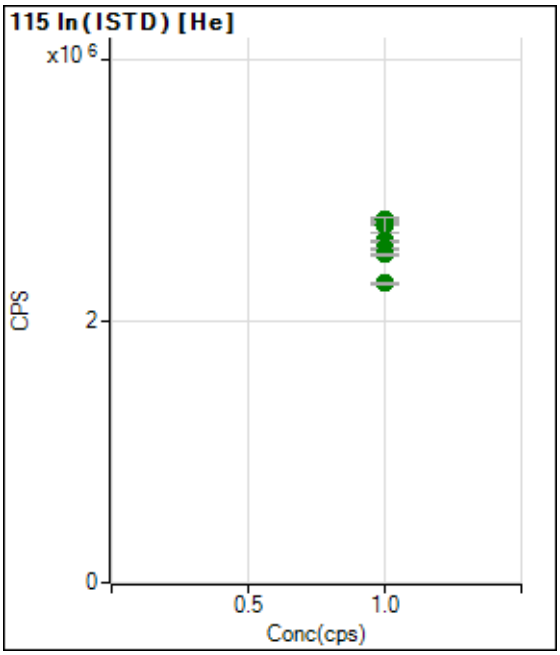


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9318674.24		A	0.1
2	☐	1.000		9462372.29		A	0.7
3	☐	1.000		9385476.46		A	2.0
4	☐	1.000		9227222.08		A	4.5
5	☐	1.000		8843583.90		A	0.4
6	☐	1.000		8559484.25		A	0.6
7	☐	1.000		8422799.04		A	0.6
8	☐	1.000		7053017.81		A	0.3

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

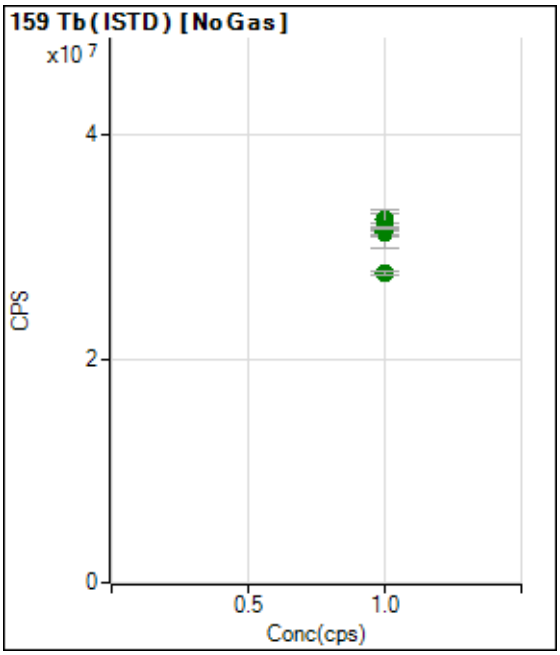


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		25389645.48		A	9.7
2	☐	1.000		25199639.03		A	1.2
3	☐	1.000		25535568.01		A	5.0
4	☐	1.000		25296626.43		A	0.8
5	☐	1.000		25719869.99		A	6.2
6	☐	1.000		24373389.04		A	1.6
7	☐	1.000		24187020.57		A	0.1
8	☐	1.000		20755081.35		A	0.9

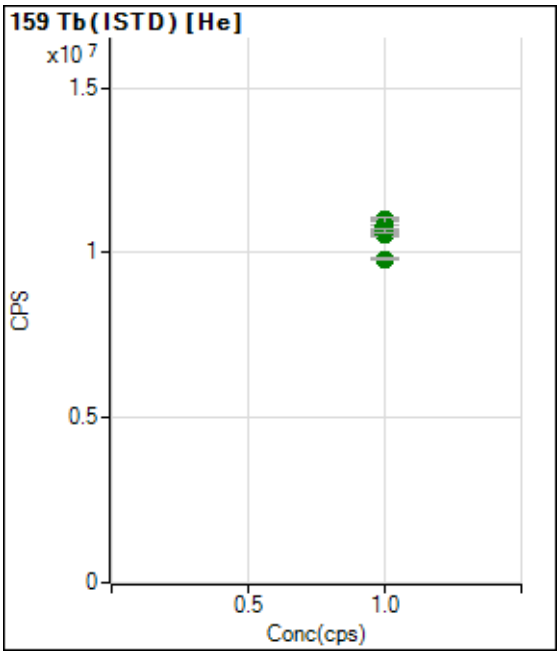


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2752613.86		A	1.6
2	☐	1.000		2763855.18		A	0.9
3	☐	1.000		2775554.84		A	1.1
4	☐	1.000		2736745.50		A	4.5
5	☐	1.000		2613562.38		A	0.5
6	☐	1.000		2556616.08		A	0.7
7	☐	1.000		2508450.39		A	1.0
8	☐	1.000		2291467.77		A	0.8

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

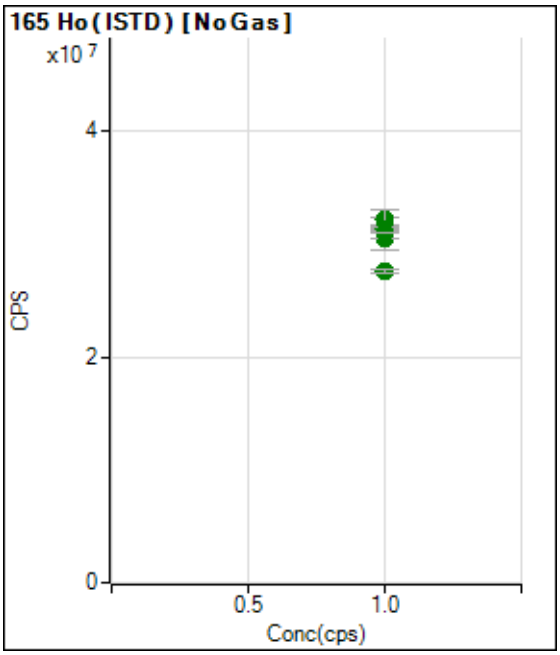


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		31519806.20		A	10.0
2	☐	1.000		31346960.36		A	1.4
3	☐	1.000		31568975.92		A	4.0
4	☐	1.000		31364470.37		A	2.1
5	☐	1.000		32451603.68		A	5.2
6	☐	1.000		31400850.92		A	2.0
7	☐	1.000		31728075.08		A	0.4
8	☐	1.000		27712803.76		A	1.2

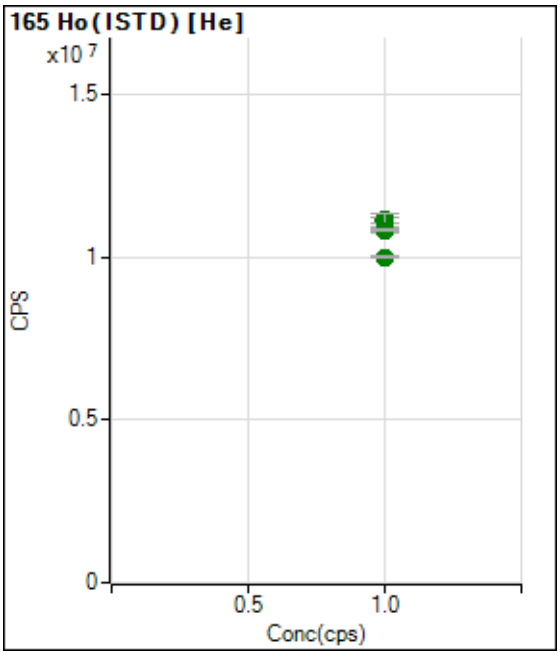


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10674004.01		A	0.7
2	☐	1.000		10793550.54		A	0.8
3	☐	1.000		10992630.25		A	0.8
4	☐	1.000		10839810.60		A	4.3
5	☐	1.000		10556629.43		A	0.6
6	☐	1.000		10553265.61		A	1.0
7	☐	1.000		10639496.23		A	1.1
8	☐	1.000		9794210.55		A	0.6

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

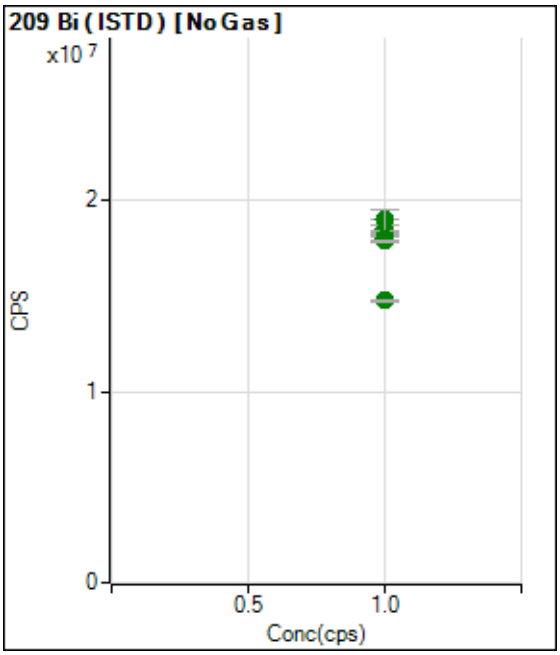


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		30943772.87		A	9.2
2	☐	1.000		30475035.10		A	0.3
3	☐	1.000		31064848.70		A	3.9
4	☐	1.000		30961717.60		A	2.7
5	☐	1.000		32154123.97		A	5.2
6	☐	1.000		31333874.81		A	1.3
7	☐	1.000		31090488.15		A	0.0
8	☐	1.000		27599511.81		A	0.8

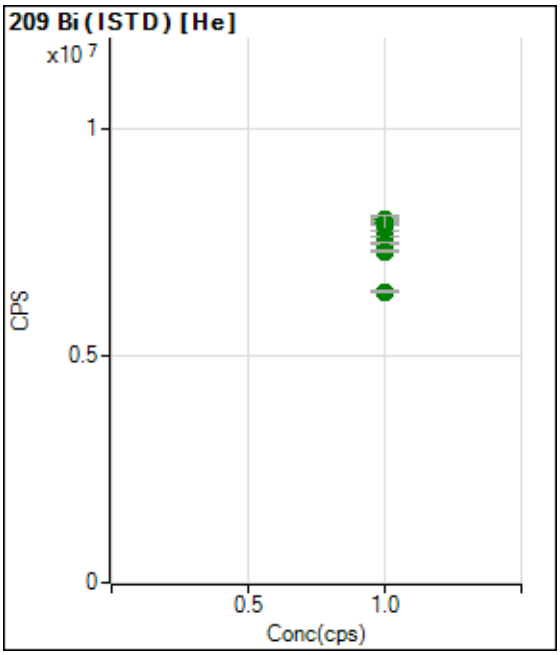


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10889918.52		A	1.3
2	☐	1.000		11068766.50		A	0.1
3	☐	1.000		11162208.45		A	1.3
4	☐	1.000		11151390.04		A	3.9
5	☐	1.000		10842581.85		A	0.9
6	☐	1.000		10801870.54		A	1.1
7	☐	1.000		10853116.78		A	0.2
8	☐	1.000		10021389.50		A	0.8

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18670849.03		A	9.5
2	☐	1.000		18518518.33		A	1.9
3	☐	1.000		18694726.11		A	3.9
4	☐	1.000		18487494.45		A	2.6
5	☐	1.000		18989094.16		A	6.0
6	☐	1.000		18012651.68		A	1.3
7	☐	1.000		17894002.93		A	0.7
8	☐	1.000		14746845.06		A	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7870303.63		A	0.1
2	☐	1.000		7976620.30		A	0.3
3	☐	1.000		7989597.04		A	1.5
4	☐	1.000		7926724.12		A	4.4
5	☐	1.000		7623576.35		A	0.5
6	☐	1.000		7459110.93		A	0.7
7	☐	1.000		7298141.14		A	0.5
8	☐	1.000		6402646.29		A	0.4

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8121324 MS.b
Acq. Date-Time	2024-12-13 11:23:45
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		35252	352518.96			1.536	5.000
24		747741	7477414.03			1.819	5.000
25		103733	1037329.11			2.094	5.000
26		116255	1162551.09			1.544	5.000
59		196422	1964223.86			2.213	5.000
113		22031	220307.44			2.075	5.000
115		289455	2894551.22			2.269	5.000
206		68579	685789.94			1.949	5.000
207		58843	588432.93			1.689	5.000
208		145356	1453560.19			1.122	5.000
220		1	5.50			11.134	

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	35155	35594	34633	35984	34894
24	744993	763946	728322	756847	744599
25	103236	105937	100446	105450	103596
26	117033	117809	113743	117676	115015
59	197577	200166	189024	198760	196586
113	22299	22589	21369	21971	21926
115	290572	298279	280575	286272	291578
206	68353	69409	66336	69267	69529
207	57948	58919	57753	59541	60055
208	144469	146243	143063	145736	147268

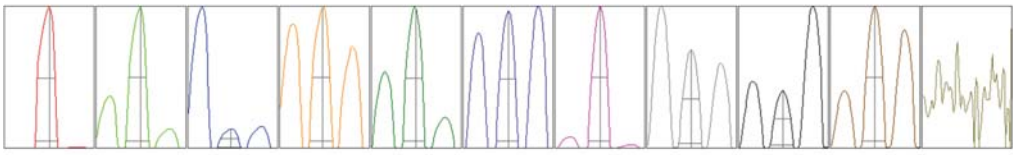
Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	63934.82	9.05	8.90 - 9.10	
24	1384561.53	24.00	23.90 - 24.10	
25	182378.65	24.95	24.90 - 25.10	
26	207737.78	25.95	25.90 - 26.10	
59	365322.86	59.00	58.90 - 59.10	
113	43932.83	113.05	112.90 - 113.10	
115	578012.80	115.05	114.90 - 115.10	
206	129010.77	206.00	205.90 - 206.10	
207	110985.46	207.00	206.90 - 207.10	
208	272084.70	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.735	0.900	
24	0.58	0.775	0.900	
25	0.60	0.778	0.900	
26	0.60	0.780	0.900	
59	0.57	0.736	0.900	
113	0.52	0.727	0.900	
115	0.52	0.726	0.900	
206	0.56	0.771	0.900	
207	0.56	0.783	0.900	
208	0.56	0.778	0.900	
220	0.21			

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

Tune Parameters

Plasma Parameters

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

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	15.2 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9967	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-1.0 mm		

EM

Discriminator	4.1 mV	Analog HV	2165 V	Pulse HV	1040 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		36436	364359.82			1.585	
89		29047	290468.07			2.031	
205		42306	423055.71			1.278	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	37363	36409	35783	36401	36223
89	30006	29102	28429	28781	28916
205	43204	42332	41787	42170	42035

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	3.6 V

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	121	Axis Gain	0.9967	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-1.0 mm

EM

Discriminator	4.1 mV	Analog HV	2165 V	Pulse HV	1040 V

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.23	-0.04	-0.20	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	0.01	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.01	0.03	0.00	N/A	ppb
Cadmium	106-1	0.90	-0.10	-0.80	0.00	N/A	ppb
Cadmium	111-1	0.07	-0.01	-0.06	0.00	N/A	ppb
Calcium	43-1	2.70	-1.87	-0.83	0.00	N/A	ppb
Calcium	44-1	1.39	-1.52	0.13	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.03	-0.01	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.01	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	54-2	0.19	0.11	-0.30	0.00	N/A	ppb
Iron	56-2	0.04	0.01	-0.05	0.00	N/A	ppb
Iron	57-2	-0.04	0.04	0.00	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	-0.01	0.00	0.00	N/A	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	-0.01	0.00	0.00	N/A	ppb
Lead	208-1	0.00	-0.01	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.13	-0.16	0.03	0.00	N/A	ppb
Manganese	55-2	0.00	0.01	0.00	0.00	N/A	ppb
Molybdenum	94-1	0.01	0.00	0.00	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	0.00	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	-0.02	0.01	0.01	0.00	N/A	ppb
Phosphorus	31-2	-18.42	-24.46	-15.74	-19.54		ppb
Potassium	39-2	0.86	-0.64	-0.21	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.01	0.03	-0.03	0.00	N/A	ppb
Selenium	77-2	-0.19	-0.19	0.37	0.00	N/A	ppb
Selenium	78-2	0.13	-0.06	-0.07	0.00	N/A	ppb
Silicon	28-1	0.29	-0.27	-0.02	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	0.10	0.86	-0.96	0.00	N/A	ppb
Strontium	86-1	0.24	-0.25	0.00	0.00	N/A	ppb
Strontium	88-1	0.05	-0.04	-0.01	0.00	N/A	ppb
Sulfur	34-1	568.09	-696.89	-113.91	-80.90		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.03	-0.03	0.00	0.00	N/A	ppb
Titanium	47-1	0.00	-0.01	0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.01	-0.02	0.01	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:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.27	19.59	19.70	19.52	1.14	ppb
Antimony	121-1	2.15	2.11	2.15	2.14	1.21	ppb
Arsenic	75-2	1.15	1.09	1.08	1.11	3.60	ppb
Barium	135-1	10.31	10.15	10.62	10.36	2.29	ppb
Barium	137-1	10.54	10.59	10.72	10.62	0.89	ppb
Beryllium	9-1	1.08	1.11	1.10	1.10	1.30	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.18	1.07	1.18	1.14	5.84	ppb
Cadmium	106-1	1.00	1.90	1.20	1.37	34.53	ppb
Cadmium	111-1	1.08	1.14	1.16	1.13	3.45	ppb
Calcium	43-1	519.98	523.23	520.20	521.13	0.35	ppb
Calcium	44-1	522.61	523.83	517.08	521.18	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.08	2.12	2.15	2.12	1.46	ppb
Cobalt	59-2	1.10	1.15	1.14	1.13	2.19	ppb
Copper	63-2	2.13	2.09	2.05	2.09	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				98		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	57.11	54.47	55.89	55.82	2.37	ppb
Iron	56-2	53.72	54.11	53.34	53.72	0.72	ppb
Iron	57-2	52.70	50.73	50.71	51.38	2.22	ppb
Krypton	83-1						cps
Lead	206-1	0.98	1.03	0.97	0.99	3.06	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.03	1.05	0.96	1.01	4.82	ppb
Lead	208-1	1.00	1.03	0.98	1.01	2.28	ppb
Lithium	6-1				99		%
Magnesium	24-2	573.05	577.83	573.40	574.76	0.46	ppb
Manganese	55-2	1.11	1.05	0.98	1.05	5.90	ppb
Molybdenum	94-1	6.17	6.07	6.09	6.11	0.91	ppb
Molybdenum	95-1	5.19	5.07	5.09	5.12	1.19	ppb
Molybdenum	96-1	5.39	5.10	5.04	5.17	3.57	ppb
Molybdenum	97-1	5.24	5.16	5.19	5.20	0.76	ppb
Molybdenum	98-1	5.16	5.06	5.03	5.08	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.13	1.11	1.05	1.10	3.68	ppb
Phosphorus	31-2	25.13	25.11	8.38	19.54	49.46	ppb
Potassium	39-2	507.61	512.34	513.00	510.98	0.58	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	5.22	5.76	5.71	5.56	5.37	ppb
Selenium	77-2	5.27	2.61	5.83	4.57	37.71	ppb
Selenium	78-2	6.04	6.37	5.72	6.04	5.33	ppb
Silicon	28-1	0.42	0.42	0.32	0.39	14.82	ppb
Silver	107-1	1.04	1.05	1.09	1.06	2.30	ppb
Silver	109-1	1.08	1.09	1.10	1.09	0.60	ppb
Sodium	23-2	536.28	541.47	533.02	536.92	0.79	ppb
Strontium	86-1	27.73	25.57	26.74	26.68	4.05	ppb
Strontium	88-1	26.49	26.28	26.41	26.39	0.40	ppb
Sulfur	34-1	74.97	146.75	20.99	80.90	77.98	ppb
Terbium	159-1				99		%
Terbium	159-2				101		%
Thallium	203-1	1.03	1.01	0.97	1.00	3.16	ppb
Thallium	205-1	1.01	1.02	0.99	1.01	1.75	ppb
Tin	118-1	5.40	5.43	5.66	5.50	2.62	ppb
Titanium	47-1	5.36	5.27	5.25	5.29	1.10	ppb
Uranium	238-1	0.98	0.98	0.94	0.97	2.50	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.31	5.15	5.15	5.21	1.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				103		%
Zinc	66-2	5.06	5.50	5.45	5.34	4.48	ppb
Zirconium	90-1	1.00	0.99	1.00	1.00	0.49	ppb
Zirconium	91-1	1.02	1.01	0.98	1.01	2.17	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1043.68	1043.83	1060.71	1049.41	0.93	ppb
Antimony	121-1	50.64	51.64	55.42	52.57	4.79	ppb
Arsenic	75-2	52.18	52.12	52.97	52.42	0.90	ppb
Barium	135-1	251.41	255.71	273.76	260.29	4.56	ppb
Barium	137-1	258.28	275.53	287.88	273.90	5.43	ppb
Beryllium	9-1	52.08	53.11	57.57	54.25	5.37	ppb
Bismuth	209-1				100		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	54.74	55.72	59.07	56.51	4.02	ppb
Cadmium	106-1	56.18	55.05	58.33	56.52	2.95	ppb
Cadmium	111-1	52.48	53.26	57.34	54.36	4.80	ppb
Calcium	43-1	4951.68	4989.23	5397.58	5112.83	4.84	ppb
Calcium	44-1	4972.90	5036.32	5400.82	5136.68	4.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.16	50.90	51.21	50.76	1.06	ppb
Cobalt	59-2	51.69	53.05	52.63	52.46	1.33	ppb
Copper	63-2	542.18	546.34	548.81	545.78	0.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	2660.72	2700.69	2693.63	2685.02	0.79	ppb
Iron	56-2	2635.36	2646.47	2660.44	2647.42	0.47	ppb
Iron	57-2	2602.61	2608.49	2606.34	2605.81	0.11	ppb
Krypton	83-1						cps
Lead	206-1	257.07	260.54	275.92	264.51	3.79	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	258.88	255.21	278.63	264.24	4.77	ppb
Lead	208-1	254.92	253.59	275.39	261.30	4.68	ppb
Lithium	6-1				100		%
Magnesium	24-2	5686.47	5791.53	5608.77	5695.59	1.61	ppb
Manganese	55-2	510.54	518.18	512.49	513.74	0.77	ppb
Molybdenum	94-1	500.52	508.76	553.74	521.01	5.50	ppb
Molybdenum	95-1	499.93	510.08	544.88	518.30	4.55	ppb
Molybdenum	96-1	506.03	516.18	552.02	524.74	4.60	ppb
Molybdenum	97-1	512.39	514.00	562.31	529.57	5.36	ppb
Molybdenum	98-1	497.06	503.86	542.76	514.56	4.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.36	52.84	52.28	52.16	1.43	ppb
Phosphorus	31-2	1021.24	1013.71	1036.21	1023.72	1.12	ppb
Potassium	39-2	2509.34	2524.98	2544.24	2526.19	0.69	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	52.53	51.99	56.29	53.60	4.37	ppb
Selenium	77-2	50.09	49.53	60.32	53.31	11.39	ppb
Selenium	78-2	53.38	51.79	61.80	55.66	9.66	ppb
Silicon	28-1	53.21	54.28	58.07	55.19	4.63	ppb
Silver	107-1	52.70	54.03	58.04	54.92	5.06	ppb
Silver	109-1	52.97	53.83	58.99	55.27	5.89	ppb
Sodium	23-2	5461.72	5459.91	5511.43	5477.69	0.53	ppb
Strontium	86-1	1221.71	1252.66	1339.28	1271.21	4.79	ppb
Strontium	88-1	1285.94	1279.36	1380.03	1315.11	4.28	ppb
Sulfur	34-1	1152.89	1164.17	1773.20	1363.42	26.03	ppb
Terbium	159-1				100		%
Terbium	159-2				103		%
Thallium	203-1	48.59	48.83	52.61	50.01	4.51	ppb
Thallium	205-1	50.38	50.70	54.32	51.80	4.23	ppb
Tin	118-1	51.08	52.05	56.01	53.05	4.92	ppb
Titanium	47-1	508.94	527.13	553.04	529.71	4.18	ppb
Uranium	238-1	48.88	48.65	53.43	50.32	5.36	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.14	50.65	50.87	50.55	0.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	518.99	525.91	529.62	524.84	1.03	ppb
Zirconium	90-1	50.93	52.12	55.63	52.89	4.63	ppb
Zirconium	91-1	48.45	49.18	53.48	50.37	5.39	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2652.39	2448.09	2575.93	2558.80	4.03	ppb
Antimony	121-1	141.52	133.47	135.03	136.67	3.13	ppb
Arsenic	75-2	133.00	126.92	127.91	129.28	2.53	ppb
Barium	135-1	687.99	656.81	663.97	669.59	2.44	ppb
Barium	137-1	686.06	651.29	647.34	661.57	3.22	ppb
Beryllium	9-1	134.74	135.67	133.57	134.66	0.78	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	146.04	137.98	140.21	141.41	2.94	ppb
Cadmium	106-1	144.88	139.28	142.08	142.08	1.97	ppb
Cadmium	111-1	137.34	132.45	134.24	134.68	1.84	ppb
Calcium	43-1	13004.90	12459.98	12768.12	12744.33	2.14	ppb
Calcium	44-1	13167.22	12725.87	12856.77	12916.62	1.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	130.10	120.42	124.95	125.16	3.87	ppb
Cobalt	59-2	134.56	123.84	128.60	129.00	4.17	ppb
Copper	63-2	1392.07	1281.88	1341.21	1338.39	4.12	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				100		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	54-2	6849.52	6287.11	6594.47	6577.03	4.28	ppb
Iron	56-2	6826.95	6231.22	6616.86	6558.34	4.61	ppb
Iron	57-2	6669.80	6142.38	6430.93	6414.37	4.12	ppb
Krypton	83-1						cps
Lead	206-1	669.05	641.42	642.81	651.09	2.39	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	681.52	636.09	636.05	651.22	4.03	ppb
Lead	208-1	672.77	635.50	630.92	646.40	3.55	ppb
Lithium	6-1				97		%
Magnesium	24-2	14187.25	13074.59	13694.69	13652.17	4.08	ppb
Manganese	55-2	1350.98	1248.75	1294.36	1298.03	3.95	ppb
Molybdenum	94-1	1316.36	1284.17	1292.01	1297.51	1.29	ppb
Molybdenum	95-1	1296.20	1269.61	1291.17	1285.66	1.10	ppb
Molybdenum	96-1	1323.92	1292.60	1284.63	1300.38	1.60	ppb
Molybdenum	97-1	1331.68	1303.34	1277.35	1304.12	2.08	ppb
Molybdenum	98-1	1302.41	1284.60	1273.75	1286.92	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	133.03	123.34	127.83	128.07	3.79	ppb
Phosphorus	31-2	2725.33	2531.46	2634.55	2630.44	3.69	ppb
Potassium	39-2	6584.94	5971.54	6343.51	6300.00	4.90	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	133.16	132.78	135.78	133.90	1.22	ppb
Selenium	77-2	143.65	131.04	129.87	134.86	5.67	ppb
Selenium	78-2	139.07	124.64	140.73	134.81	6.57	ppb
Silicon	28-1	139.70	136.73	137.21	137.88	1.16	ppb
Silver	107-1	145.70	138.40	141.11	141.74	2.60	ppb
Silver	109-1	140.07	136.81	141.83	139.57	1.82	ppb
Sodium	23-2	13659.48	12583.18	13317.26	13186.64	4.17	ppb
Strontium	86-1	3189.14	3120.63	3131.12	3146.96	1.17	ppb
Strontium	88-1	3302.93	3188.08	3245.76	3245.59	1.77	ppb
Sulfur	34-1	3385.03	3261.73	3609.85	3418.87	5.16	ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	134.12	129.86	129.70	131.23	1.91	ppb
Thallium	205-1	134.55	127.84	126.52	129.64	3.32	ppb
Tin	118-1	141.00	135.56	133.99	136.85	2.69	ppb
Titanium	47-1	1328.56	1302.37	1314.25	1315.06	1.00	ppb
Uranium	238-1	129.20	122.56	122.19	124.65	3.17	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	128.70	120.19	124.71	124.53	3.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	1339.66	1242.57	1302.53	1294.92	3.78	ppb
Zirconium	90-1	132.43	128.50	128.35	129.76	1.78	ppb
Zirconium	91-1	127.47	124.70	124.18	125.45	1.41	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5166.87	5200.46	5178.86	5182.06	0.33	ppb
Antimony	121-1	239.51	267.29	263.41	256.74	5.86	ppb
Arsenic	75-2	266.21	259.33	255.46	260.33	2.09	ppb
Barium	135-1	1185.65	1333.04	1334.95	1284.54	6.67	ppb
Barium	137-1	1194.95	1337.38	1326.85	1286.39	6.17	ppb
Beryllium	9-1	243.21	270.24	262.46	258.63	5.38	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	245.61	279.45	274.91	266.66	6.89	ppb
Cadmium	106-1	249.13	280.11	275.93	268.39	6.26	ppb
Cadmium	111-1	236.34	266.34	265.34	256.01	6.66	ppb
Calcium	43-1	23224.28	26882.57	25620.48	25242.44	7.36	ppb
Calcium	44-1	22352.22	26351.69	25202.42	24635.44	8.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	255.34	253.97	253.51	254.28	0.37	ppb
Cobalt	59-2	269.27	269.72	267.78	268.92	0.38	ppb
Copper	63-2	2721.14	2717.53	2706.81	2715.16	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				104		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	54-2	14139.90	13940.61	13918.69	13999.73	0.87	ppb
Iron	56-2	13383.40	13301.92	13378.83	13354.72	0.34	ppb
Iron	57-2	13096.00	13150.33	13104.39	13116.91	0.22	ppb
Krypton	83-1						cps
Lead	206-1	1177.33	1324.43	1300.57	1267.44	6.23	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1172.45	1323.52	1301.92	1265.97	6.45	ppb
Lead	208-1	1158.76	1317.39	1295.24	1257.13	6.83	ppb
Lithium	6-1				100		%
Magnesium	24-2	28088.55	28040.21	28309.39	28146.05	0.51	ppb
Manganese	55-2	2671.22	2605.78	2650.76	2642.59	1.27	ppb
Molybdenum	94-1	2326.00	2644.54	2609.17	2526.57	6.91	ppb
Molybdenum	95-1	2272.70	2675.57	2596.44	2514.90	8.49	ppb
Molybdenum	96-1	2299.36	2682.45	2589.26	2523.69	7.92	ppb
Molybdenum	97-1	2328.62	2668.58	2599.42	2532.20	7.10	ppb
Molybdenum	98-1	2318.70	2665.43	2592.47	2525.53	7.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	259.31	260.74	257.53	259.19	0.62	ppb
Phosphorus	31-2	5367.55	5418.90	5307.72	5364.73	1.04	ppb
Potassium	39-2	12783.81	12951.99	12940.75	12892.18	0.73	ppb
Rhodium	103-1				99		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				95		%
Selenium	82-1	233.66	270.52	266.58	256.92	7.88	ppb
Selenium	77-2	251.20	284.03	248.84	261.35	7.53	ppb
Selenium	78-2	262.87	277.47	261.20	267.18	3.35	ppb
Silicon	28-1	234.77	277.20	266.87	259.61	8.52	ppb
Silver	107-1	246.61	276.08	271.91	264.87	6.02	ppb
Silver	109-1	246.77	278.46	272.63	265.96	6.34	ppb
Sodium	23-2	26902.63	27180.34	26775.09	26952.68	0.77	ppb
Strontium	86-1	5737.15	6783.79	6590.18	6370.37	8.74	ppb
Strontium	88-1	5700.98	6602.92	6476.97	6260.29	7.80	ppb
Sulfur	34-1	4294.51	5766.36	5468.11	5176.33	15.03	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	235.28	268.21	256.33	253.27	6.59	ppb
Thallium	205-1	231.82	267.17	254.46	251.15	7.13	ppb
Tin	118-1	241.76	268.89	264.08	258.25	5.61	ppb
Titanium	47-1	2276.71	2662.26	2565.42	2501.47	8.02	ppb
Uranium	238-1	223.70	262.58	253.02	246.43	8.22	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	255.78	256.72	256.15	256.22	0.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				99		%
Zinc	66-2	2732.44	2694.57	2686.83	2704.61	0.90	ppb
Zirconium	90-1	234.23	261.28	259.66	251.72	6.03	ppb
Zirconium	91-1	232.42	267.30	266.20	255.31	7.77	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10028.51	10003.70	9957.75	9996.65	0.36	ppb
Antimony	121-1	523.15	507.37	502.84	511.12	2.09	ppb
Arsenic	75-2	512.67	514.02	507.82	511.50	0.64	ppb
Barium	135-1	2635.59	2497.89	2536.41	2556.63	2.78	ppb
Barium	137-1	2653.95	2467.18	2506.29	2542.47	3.87	ppb
Beryllium	9-1	513.93	512.76	509.71	512.13	0.43	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	529.51	510.14	514.55	518.07	1.96	ppb
Cadmium	106-1	522.44	521.46	522.36	522.09	0.10	ppb
Cadmium	111-1	531.47	522.85	513.24	522.52	1.75	ppb
Calcium	43-1	51369.52	51011.56	50506.75	50962.61	0.85	ppb
Calcium	44-1	50552.93	50569.45	49484.15	50202.18	1.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.15	518.16	515.71	515.34	0.59	ppb
Cobalt	59-2	515.15	510.01	507.87	511.01	0.73	ppb
Copper	63-2	5158.79	5189.32	5066.59	5138.23	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				101		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	54-2	26429.36	26918.16	26204.70	26517.41	1.38	ppb
Iron	56-2	25788.32	25820.91	25842.81	25817.35	0.11	ppb
Iron	57-2	26036.64	26573.19	25918.58	26176.14	1.33	ppb
Krypton	83-1						cps
Lead	206-1	2582.03	2526.01	2529.30	2545.78	1.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2571.19	2544.24	2540.35	2551.93	0.66	ppb
Lead	208-1	2548.07	2523.96	2518.98	2530.33	0.61	ppb
Lithium	6-1				96		%
Magnesium	24-2	54542.68	55281.10	54181.01	54668.26	1.03	ppb
Manganese	55-2	5071.77	5111.86	5146.16	5109.93	0.73	ppb
Molybdenum	94-1	5101.60	5157.24	5052.93	5103.92	1.02	ppb
Molybdenum	95-1	5085.98	5149.67	5003.06	5079.57	1.45	ppb
Molybdenum	96-1	4994.94	5145.96	5033.70	5058.20	1.55	ppb
Molybdenum	97-1	5038.71	5173.51	5023.36	5078.53	1.63	ppb
Molybdenum	98-1	5097.29	5160.67	4935.57	5064.51	2.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	488.30	492.85	490.30	490.48	0.47	ppb
Phosphorus	31-2	10132.89	10492.14	10177.36	10267.46	1.91	ppb
Potassium	39-2	24882.65	24704.44	24794.50	24793.86	0.36	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	518.95	519.41	498.39	512.25	2.34	ppb
Selenium	77-2	516.64	513.60	483.70	504.65	3.61	ppb
Selenium	78-2	519.72	491.13	523.27	511.37	3.45	ppb
Silicon	28-1	527.24	516.80	507.94	517.33	1.87	ppb
Silver	107-1	530.89	512.62	521.29	521.60	1.75	ppb
Silver	109-1	538.85	515.30	514.80	522.98	2.63	ppb
Sodium	23-2	53012.33	53065.43	51660.96	52579.57	1.51	ppb
Strontium	86-1	13069.02	12385.02	12456.35	12636.80	2.98	ppb
Strontium	88-1	12899.36	12528.57	12352.70	12593.54	2.22	ppb
Sulfur	34-1	10970.60	9879.21	10145.77	10331.86	5.51	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	508.42	502.00	504.10	504.84	0.65	ppb
Thallium	205-1	504.34	503.48	500.52	502.78	0.40	ppb
Tin	118-1	522.10	508.45	502.70	511.08	1.95	ppb
Titanium	47-1	5053.66	5088.95	5114.84	5085.82	0.60	ppb
Uranium	238-1	506.74	502.66	501.36	503.59	0.56	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.85	518.11	508.42	509.13	1.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	5172.34	5185.02	5140.94	5166.10	0.44	ppb
Zirconium	90-1	514.90	507.01	502.35	508.09	1.25	ppb
Zirconium	91-1	520.04	516.60	498.01	511.55	2.32	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20256.41	19980.59	19649.61	19962.20	1.52	ppb
Antimony	121-1	988.59	991.52	993.39	991.17	0.24	ppb
Arsenic	75-2	995.05	995.90	982.08	991.01	0.78	ppb
Barium	135-1	4955.69	4948.00	4967.19	4956.96	0.19	ppb
Barium	137-1	4958.24	4977.93	4955.52	4963.90	0.25	ppb
Beryllium	9-1	993.80	992.84	984.43	990.35	0.52	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	987.98	985.92	979.37	984.42	0.46	ppb
Cadmium	106-1	975.80	988.05	981.84	981.90	0.62	ppb
Cadmium	111-1	990.44	990.20	976.79	985.81	0.79	ppb
Calcium	43-1	96789.59	98712.74	95411.24	96971.19	1.71	ppb
Calcium	44-1	96653.75	98815.75	95824.34	97097.95	1.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	996.73	993.60	983.28	991.20	0.71	ppb
Cobalt	59-2	989.31	984.26	993.85	989.14	0.49	ppb
Copper	63-2	9895.19	9805.94	9890.14	9863.76	0.51	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				100		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	51215.06	50996.81	50861.98	51024.62	0.35	ppb
Iron	56-2	50336.38	49598.09	49731.66	49888.71	0.79	ppb
Iron	57-2	49785.01	49505.68	49700.56	49663.75	0.29	ppb
Krypton	83-1						cps
Lead	206-1	4921.92	4972.42	5011.95	4968.76	0.91	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4945.19	4888.45	5064.53	4966.06	1.81	ppb
Lead	208-1	4954.85	4933.46	5051.12	4979.81	1.26	ppb
Lithium	6-1				92		%
Magnesium	24-2	106296.28	105284.07	105123.73	105568.02	0.60	ppb
Manganese	55-2	9951.44	9882.58	9874.07	9902.70	0.43	ppb
Molybdenum	94-1	9763.14	10026.67	10013.41	9934.41	1.49	ppb
Molybdenum	95-1	9809.98	10044.77	9998.60	9951.12	1.25	ppb
Molybdenum	96-1	9914.48	9954.85	10003.00	9957.44	0.45	ppb
Molybdenum	97-1	9893.65	9921.50	10018.18	9944.44	0.66	ppb
Molybdenum	98-1	9792.80	10039.52	10035.74	9956.02	1.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1011.53	995.11	999.27	1001.97	0.85	ppb
Phosphorus	31-2	19802.51	19595.27	19875.00	19757.60	0.73	ppb
Potassium	39-2	48160.34	48412.78	48843.38	48472.16	0.71	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	977.04	991.35	1004.16	990.85	1.37	ppb
Selenium	77-2	958.06	1015.64	1006.63	993.44	3.12	ppb
Selenium	78-2	994.27	966.97	1004.27	988.50	1.95	ppb
Silicon	28-1	1010.03	981.36	970.09	987.16	2.09	ppb
Silver	107-1	987.40	979.73	982.31	983.14	0.40	ppb
Silver	109-1	990.39	980.55	976.38	982.44	0.73	ppb
Sodium	23-2	103491.29	103038.08	101565.26	102698.21	0.98	ppb
Strontium	86-1	25137.17	24667.78	24842.87	24882.61	0.95	ppb
Strontium	88-1	24821.31	25087.75	24845.92	24918.33	0.59	ppb
Sulfur	34-1	19836.61	19556.78	19577.49	19656.96	0.79	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	993.72	998.77	995.46	995.98	0.26	ppb
Thallium	205-1	996.74	994.92	1001.30	997.65	0.33	ppb
Tin	118-1	987.28	997.47	987.53	990.76	0.59	ppb
Titanium	47-1	9946.45	10016.66	9878.22	9947.11	0.70	ppb
Uranium	238-1	1016.04	986.34	995.00	999.13	1.53	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	993.41	997.19	991.13	993.91	0.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	9845.13	9791.31	9940.38	9858.94	0.77	ppb
Zirconium	90-1	990.65	994.81	998.90	994.79	0.41	ppb
Zirconium	91-1	977.94	1004.13	996.39	992.82	1.36	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	97902.60	100246.43	101841.45	99996.83	1.98	ppb
Antimony	121-1	0.35	0.33	0.32	0.33	5.12	ppb
Arsenic	75-2	0.56	0.48	0.38	0.47	19.16	ppb
Barium	135-1	1.80	1.90	1.82	1.84	2.84	ppb
Barium	137-1	1.84	1.87	1.79	1.84	2.10	ppb
Beryllium	9-1	0.28	0.26	0.23	0.26	10.47	ppb
Bismuth	209-1				79		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	0.51	0.37	0.32	0.40	25.20	ppb
Cadmium	106-1	-1.42	-0.20	-0.73	-0.78		ppb
Cadmium	111-1	-0.02	0.10	0.05	0.04	127.90	ppb
Calcium	43-1	499205.10	502007.56	500257.71	500490.12	0.28	ppb
Calcium	44-1	499230.40	501840.82	500628.64	500566.62	0.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.23	1.68	1.14	1.35	21.69	ppb
Cobalt	59-2	2.12	2.12	2.12	2.12	0.11	ppb
Copper	63-2	1.34	1.34	1.31	1.33	1.44	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				89		%
Holmium	165-2				92		%
Indium	115-1				82		%
Indium	115-2				83		%
Iron	54-2	249026.32	251843.66	247804.99	249558.32	0.83	ppb
Iron	56-2	246897.67	252321.60	250446.54	249888.60	1.10	ppb
Iron	57-2	248784.95	250945.14	250010.78	249913.62	0.43	ppb
Krypton	83-1						cps
Lead	206-1	0.72	0.71	0.70	0.71	1.86	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.73	0.70	0.68	0.70	4.00	ppb
Lead	208-1	0.73	0.70	0.70	0.71	2.57	ppb
Lithium	6-1				80		%
Magnesium	24-2	495764.07	501901.41	497013.81	498226.43	0.65	ppb
Manganese	55-2	3.23	3.12	3.29	3.22	2.64	ppb
Molybdenum	94-1	2.03	1.75	1.77	1.85	8.33	ppb
Molybdenum	95-1	1.27	1.08	1.11	1.16	8.70	ppb
Molybdenum	96-1	1.95	1.73	1.70	1.79	7.51	ppb
Molybdenum	97-1	1.28	1.00	0.97	1.08	15.82	ppb
Molybdenum	98-1	1.17	0.96	0.89	1.01	14.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.04	2.13	1.97	2.05	3.98	ppb
Phosphorus	31-2	-13.06	-17.50	-3.29	-11.28		ppb
Potassium	39-2	249325.42	249071.72	252517.97	250305.04	0.77	ppb
Rhodium	103-1				76		%
Rhodium	103-2				76		%
Scandium	45-1				82		%
Scandium	45-2				83		%
Selenium	82-1	-0.10	-0.12	0.08	-0.04		ppb
Selenium	77-2	0.45	0.45	1.10	0.67	56.05	ppb
Selenium	78-2	0.22	1.00	0.03	0.42	122.61	ppb
Silicon	28-1	1.11	0.98	0.80	0.96	15.91	ppb
Silver	107-1	0.14	0.13	0.13	0.13	5.62	ppb
Silver	109-1	0.14	0.14	0.13	0.14	5.58	ppb
Sodium	23-2	497435.42	500245.71	499567.23	499082.79	0.29	ppb
Strontium	86-1	72.46	69.69	70.99	71.05	1.95	ppb
Strontium	88-1	71.49	70.64	72.43	71.52	1.26	ppb
Sulfur	34-1	-411.41	-501.95	-665.86	-526.41		ppb
Terbium	159-1				88		%
Terbium	159-2				92		%
Thallium	203-1	0.08	0.06	0.05	0.07	24.80	ppb
Thallium	205-1	0.08	0.06	0.06	0.06	18.55	ppb
Tin	118-1	0.18	0.16	0.16	0.17	6.95	ppb
Titanium	47-1	1.60	1.59	1.64	1.61	1.71	ppb
Uranium	238-1	0.04	0.04	0.03	0.03	12.68	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.14	0.14	0.15	8.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				86		%
Yttrium	89-2				89		%
Zinc	66-2	3.12	2.58	2.76	2.82	9.83	ppb
Zirconium	90-1	0.50	0.48	0.51	0.49	2.42	ppb
Zirconium	91-1	0.50	0.51	0.49	0.50	1.69	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	505.39	497.17	501.72	501.43	0.82	ppb
Antimony	121-1	218.13	212.48	223.08	217.90	2.43	ppb
Arsenic	75-2	218.48	216.40	221.81	218.90	1.25	ppb
Barium	135-1	102.56	103.31	106.95	104.27	2.25	ppb
Barium	137-1	105.57	104.79	109.42	106.59	2.33	ppb
Beryllium	9-1	98.57	101.50	103.21	101.09	2.32	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	90.70	90.64	93.73	91.69	1.93	ppb
Cadmium	106-1	88.25	90.93	90.09	89.76	1.53	ppb
Cadmium	111-1	106.90	108.05	111.86	108.94	2.38	ppb
Calcium	43-1	1936.72	1961.89	1968.90	1955.83	0.87	ppb
Calcium	44-1	1997.34	1998.28	2022.96	2006.19	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	105.42	103.01	104.93	104.46	1.22	ppb
Cobalt	59-2	108.88	106.48	108.49	107.95	1.19	ppb
Copper	63-2	104.07	102.31	102.82	103.07	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				101		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				102		%
Iron	54-2	2196.76	2144.42	2186.79	2175.99	1.28	ppb
Iron	56-2	2123.49	2065.62	2102.57	2097.22	1.40	ppb
Iron	57-2	2087.68	2047.70	2092.71	2076.03	1.19	ppb
Krypton	83-1						cps
Lead	206-1	219.59	212.55	219.84	217.33	1.90	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	211.58	198.95	209.62	206.72	3.29	ppb
Lead	208-1	210.03	202.92	211.95	208.30	2.28	ppb
Lithium	6-1				102		%
Magnesium	24-2	1299.72	1264.70	1285.64	1283.35	1.37	ppb
Manganese	55-2	104.36	101.74	104.32	103.47	1.45	ppb
Molybdenum	94-1	0.05	0.05	0.06	0.06	11.30	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.92	ppb
Molybdenum	96-1	0.07	0.07	0.06	0.06	9.87	ppb
Molybdenum	97-1	0.03	0.02	0.03	0.03	27.21	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	19.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	108.69	106.34	108.05	107.69	1.13	ppb
Phosphorus	31-2	-13.64	-17.25	-8.38	-13.09		ppb
Potassium	39-2	2033.82	2000.87	2038.51	2024.40	1.01	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				103		%
Scandium	45-2				103		%
Selenium	82-1	214.30	218.27	222.70	218.42	1.92	ppb
Selenium	77-2	231.90	227.22	215.29	224.80	3.81	ppb
Selenium	78-2	246.29	223.29	224.30	231.30	5.62	ppb
Silicon	28-1	-0.31	-0.30	-0.27	-0.29		ppb
Silver	107-1	52.36	53.22	55.00	53.53	2.51	ppb
Silver	109-1	52.92	53.18	55.25	53.79	2.38	ppb
Sodium	23-2	2177.13	2144.98	2182.09	2168.07	0.93	ppb
Strontium	86-1	6.40	6.25	6.42	6.36	1.43	ppb
Strontium	88-1	6.29	6.27	6.36	6.31	0.74	ppb
Sulfur	34-1	-405.50	-325.49	-158.91	-296.63		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	209.27	203.53	214.31	209.03	2.58	ppb
Thallium	205-1	207.20	199.90	211.71	206.27	2.89	ppb
Tin	118-1	-0.05	-0.05	-0.06	-0.05		ppb
Titanium	47-1	0.05	0.04	0.05	0.05	11.93	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	101.70	100.35	102.14	101.40	0.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				105		%
Zinc	66-2	211.13	208.43	209.43	209.67	0.65	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	46.71	ppb
Zirconium	91-1	0.09	0.07	0.07	0.08	8.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.14	-0.18	-0.22	-0.18		ppb
Antimony	121-1	0.05	0.05	0.05	0.05	3.55	ppb
Arsenic	75-2	0.01	0.01	0.01	0.01	40.81	ppb
Barium	135-1	0.00	0.00	0.00	0.00	251.92	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.05	0.05	0.05	0.05	3.06	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.01	0.05	0.03	68.09	ppb
Cadmium	106-1	-0.55	-0.63	0.39	-0.26		ppb
Cadmium	111-1	-0.04	-0.04	0.03	-0.02		ppb
Calcium	43-1	-0.69	-3.29	-1.94	-1.97		ppb
Calcium	44-1	-1.33	-0.74	0.25	-0.61		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.05	0.07	0.06	12.22	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.00	-0.01	-0.01	-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				105		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	54-2	-0.14	0.35	-0.04	0.05	469.86	ppb
Iron	56-2	0.16	0.28	0.25	0.23	27.23	ppb
Iron	57-2	0.12	0.55	0.36	0.34	62.71	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.03	0.03	0.03	9.15	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.02	0.02	0.02	10.93	ppb
Lead	208-1	0.02	0.02	0.03	0.02	5.72	ppb
Lithium	6-1				102		%
Magnesium	24-2	-1.70	-1.54	-1.70	-1.65		ppb
Manganese	55-2	-0.01	0.00	0.01	0.00		ppb
Molybdenum	94-1	0.00	0.00	0.01	0.00	165.50	ppb
Molybdenum	95-1	0.00	0.01	0.01	0.00	152.69	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	531.09	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.02	0.03	0.02	121.49	ppb
Phosphorus	31-2	-18.36	-18.54	-4.56	-13.82		ppb
Potassium	39-2	19.36	17.58	17.15	18.03	6.49	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	0.08	-0.01	0.20	0.09	120.01	ppb
Selenium	77-2	-0.19	-0.19	0.90	0.17	360.08	ppb
Selenium	78-2	-0.27	-0.42	0.73	0.01	5137.01	ppb
Silicon	28-1	-0.16	-0.05	0.06	-0.05		ppb
Silver	107-1	0.04	0.03	0.03	0.03	22.30	ppb
Silver	109-1	0.04	0.03	0.02	0.03	26.64	ppb
Sodium	23-2	39.13	38.83	40.43	39.46	2.16	ppb
Strontium	86-1	-0.16	0.25	-0.17	-0.03		ppb
Strontium	88-1	0.01	0.01	0.00	0.01	151.60	ppb
Sulfur	34-1	-719.49	-414.52	-184.16	-439.39		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.02	0.02	0.03	20.09	ppb
Thallium	205-1	0.03	0.02	0.03	0.03	7.35	ppb
Tin	118-1	0.02	0.02	0.03	0.02	39.44	ppb
Titanium	47-1	0.03	0.04	0.04	0.03	18.22	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	117.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	0.00	-0.04	-0.13	-0.06		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93160.45	90124.68	93327.71	92204.28	1.96	ppb
Antimony	121-1	1.14	1.27	1.28	1.23	6.29	ppb
Arsenic	75-2	0.33	0.33	0.28	0.32	9.23	ppb
Barium	135-1	1.29	1.46	1.43	1.39	6.83	ppb
Barium	137-1	1.31	1.50	1.50	1.44	7.64	ppb
Beryllium	9-1	0.26	0.30	0.28	0.28	6.11	ppb
Bismuth	209-1				91		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	14.26	15.14	14.85	14.75	3.03	ppb
Cadmium	106-1	-2.53	-2.24	-2.24	-2.34		ppb
Cadmium	111-1	0.31	0.40	0.41	0.37	15.29	ppb
Calcium	43-1	91089.77	98653.28	98660.91	96134.66	4.54	ppb
Calcium	44-1	92099.23	98016.63	98835.86	96317.24	3.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.92	19.68	19.99	19.86	0.82	ppb
Cobalt	59-2	1.19	1.15	1.15	1.16	1.96	ppb
Copper	63-2	7.74	7.45	7.66	7.62	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				99		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	103888.65	103581.99	101650.12	103040.25	1.18	ppb
Iron	56-2	101921.71	100843.62	102747.76	101837.70	0.94	ppb
Iron	57-2	104829.95	101349.21	101718.48	102632.55	1.86	ppb
Krypton	83-1						cps
Lead	206-1	4.40	4.79	4.74	4.64	4.49	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.12	4.40	4.40	4.31	3.81	ppb
Lead	208-1	4.16	4.50	4.52	4.39	4.64	ppb
Lithium	6-1				88		%
Magnesium	24-2	104203.78	99948.44	103254.44	102468.89	2.18	ppb
Manganese	55-2	7.80	7.67	7.56	7.68	1.55	ppb
Molybdenum	94-1	1495.30	1581.21	1604.02	1560.18	3.67	ppb
Molybdenum	95-1	1807.27	1942.05	1974.80	1908.04	4.65	ppb
Molybdenum	96-1	1799.39	1899.54	1930.84	1876.59	3.66	ppb
Molybdenum	97-1	1843.51	1930.36	1977.59	1917.15	3.55	ppb
Molybdenum	98-1	1809.19	1912.55	1942.32	1888.02	3.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.89	5.78	5.88	5.85	1.00	ppb
Phosphorus	31-2	107155.37	106089.85	105792.59	106345.94	0.67	ppb
Potassium	39-2	101465.70	98128.88	99381.12	99658.57	1.69	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	-0.06	-0.33	-0.11	-0.17		ppb
Selenium	77-2	-0.19	-0.19	0.39	0.01	5710.46	ppb
Selenium	78-2	0.30	0.98	-0.05	0.41	126.85	ppb
Silicon	28-1	0.68	1.03	1.01	0.91	21.92	ppb
Silver	107-1	0.06	0.06	0.07	0.06	3.64	ppb
Silver	109-1	0.07	0.06	0.07	0.07	4.07	ppb
Sodium	23-2	104420.52	102010.28	103201.78	103210.86	1.17	ppb
Strontium	86-1	781.86	849.96	852.31	828.04	4.83	ppb
Strontium	88-1	829.46	889.85	916.06	878.46	5.06	ppb
Sulfur	34-1	95256.43	101588.40	104826.76	100557.20	4.84	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.06	0.08	0.08	0.07	15.81	ppb
Thallium	205-1	0.06	0.07	0.08	0.07	16.62	ppb
Tin	118-1	0.15	0.17	0.15	0.15	6.56	ppb
Titanium	47-1	1882.76	2058.25	2083.13	2008.05	5.44	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	7.20	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.14	0.16	0.14	10.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	13.35	13.99	13.91	13.75	2.53	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	8.36	ppb
Zirconium	91-1	0.01	0.01	0.02	0.02	24.89	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	89841.60	91755.33	91252.01	90949.65	1.09	ppb
Antimony	121-1	21.07	21.49	21.37	21.31	1.01	ppb
Arsenic	75-2	21.12	20.32	21.17	20.87	2.26	ppb
Barium	135-1	20.94	21.12	21.10	21.05	0.49	ppb
Barium	137-1	21.10	21.54	21.53	21.39	1.17	ppb
Beryllium	9-1	19.16	19.68	18.81	19.22	2.29	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	32.52	32.80	32.18	32.50	0.96	ppb
Cadmium	106-1	14.10	14.76	14.65	14.50	2.42	ppb
Cadmium	111-1	19.58	19.69	19.82	19.70	0.62	ppb
Calcium	43-1	95598.73	99084.61	98340.90	97674.75	1.88	ppb
Calcium	44-1	96983.71	101240.19	99973.15	99399.02	2.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.35	38.69	38.82	38.62	0.63	ppb
Cobalt	59-2	20.55	20.66	20.74	20.65	0.46	ppb
Copper	63-2	25.67	25.51	25.70	25.63	0.40	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				100		%
Indium	115-2				99		%
Iron	54-2	101524.06	101746.08	102746.73	102005.63	0.64	ppb
Iron	56-2	100903.71	101977.09	99207.28	100696.03	1.39	ppb
Iron	57-2	101835.35	101470.87	102295.77	101867.33	0.41	ppb
Krypton	83-1						cps
Lead	206-1	24.42	24.23	24.69	24.45	0.95	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.57	23.69	23.94	23.73	0.80	ppb
Lead	208-1	23.51	23.75	23.86	23.70	0.76	ppb
Lithium	6-1				91		%
Magnesium	24-2	101890.24	101657.55	100339.18	101295.66	0.83	ppb
Manganese	55-2	26.14	26.87	26.80	26.60	1.52	ppb
Molybdenum	94-1	1600.95	1594.02	1572.19	1589.05	0.94	ppb
Molybdenum	95-1	1963.90	1919.13	1946.83	1943.29	1.16	ppb
Molybdenum	96-1	1925.06	1890.31	1917.40	1910.92	0.96	ppb
Molybdenum	97-1	1964.74	1955.24	1950.59	1956.86	0.37	ppb
Molybdenum	98-1	1967.41	1902.43	1940.63	1936.83	1.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.49	24.01	23.99	23.83	1.25	ppb
Phosphorus	31-2	105054.82	106369.88	105074.59	105499.76	0.71	ppb
Potassium	39-2	98498.24	99292.31	97663.04	98484.53	0.83	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	19.26	19.28	18.97	19.17	0.89	ppb
Selenium	77-2	20.64	19.90	19.23	19.92	3.55	ppb
Selenium	78-2	23.53	20.99	22.31	22.27	5.70	ppb
Silicon	28-1	0.98	1.11	1.10	1.06	7.05	ppb
Silver	107-1	18.21	18.65	18.33	18.39	1.25	ppb
Silver	109-1	18.44	18.72	18.64	18.60	0.79	ppb
Sodium	23-2	101888.32	101948.38	101876.08	101904.26	0.04	ppb
Strontium	86-1	842.21	834.06	839.68	838.65	0.50	ppb
Strontium	88-1	883.60	869.82	877.29	876.90	0.79	ppb
Sulfur	34-1	102780.33	106065.24	104814.20	104553.26	1.59	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	19.54	19.65	20.11	19.77	1.51	ppb
Thallium	205-1	19.80	19.75	20.38	19.98	1.75	ppb
Tin	118-1	0.19	0.15	0.17	0.17	11.58	ppb
Titanium	47-1	2020.37	2059.86	2052.05	2044.09	1.02	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	1.97	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.39	19.58	19.41	19.46	0.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				104		%
Zinc	66-2	30.92	29.90	29.67	30.16	2.20	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	25.97	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	13.32	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50019.78	49101.91	48495.47	49205.72	1.56	ppb
Antimony	121-1	485.99	482.87	487.53	485.46	0.49	ppb
Arsenic	75-2	478.72	469.26	475.89	474.63	1.02	ppb
Barium	135-1	2479.42	2482.63	2465.87	2475.97	0.36	ppb
Barium	137-1	2439.58	2488.28	2467.43	2465.10	0.99	ppb
Beryllium	9-1	510.42	526.81	515.02	517.41	1.63	ppb
Bismuth	209-1				90		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	477.03	476.45	481.53	478.34	0.58	ppb
Cadmium	106-1	479.01	487.36	482.97	483.11	0.86	ppb
Cadmium	111-1	465.18	482.87	474.83	474.29	1.87	ppb
Calcium	43-1	238435.70	234951.77	235913.34	236433.61	0.76	ppb
Calcium	44-1	236668.64	237551.07	241255.41	238491.71	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	494.37	486.90	489.24	490.17	0.78	ppb
Cobalt	59-2	489.44	478.66	475.34	481.15	1.53	ppb
Copper	63-2	4666.61	4545.90	4571.13	4594.55	1.39	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				99		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	125468.52	122278.30	122316.84	123354.55	1.48	ppb
Iron	56-2	122470.02	120498.10	120452.47	121140.20	0.95	ppb
Iron	57-2	124727.68	121923.21	121180.58	122610.49	1.53	ppb
Krypton	83-1						cps
Lead	206-1	2520.71	2487.61	2519.26	2509.19	0.75	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2466.73	2456.91	2497.68	2473.77	0.86	ppb
Lead	208-1	2475.27	2488.01	2498.50	2487.26	0.47	ppb
Lithium	6-1				85		%
Magnesium	24-2	250466.56	244761.89	245314.81	246847.76	1.27	ppb
Manganese	55-2	4900.49	4812.04	4797.16	4836.56	1.15	ppb
Molybdenum	94-1	4831.42	4867.54	4894.28	4864.41	0.65	ppb
Molybdenum	95-1	4760.50	4834.97	4981.59	4859.02	2.32	ppb
Molybdenum	96-1	4768.97	4796.96	4952.93	4839.62	2.05	ppb
Molybdenum	97-1	4821.74	4806.37	4899.48	4842.53	1.03	ppb
Molybdenum	98-1	4716.51	4781.43	4890.59	4796.18	1.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	517.91	508.63	509.36	511.97	1.01	ppb
Phosphorus	31-2	9959.29	9855.86	9932.44	9915.86	0.54	ppb
Potassium	39-2	123287.83	121116.30	121457.57	121953.90	0.96	ppb
Rhodium	103-1				89		%
Rhodium	103-2				89		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	462.24	470.97	477.53	470.25	1.63	ppb
Selenium	77-2	448.98	436.91	474.55	453.48	4.24	ppb
Selenium	78-2	483.02	470.49	482.32	478.61	1.47	ppb
Silicon	28-1	484.26	489.91	493.11	489.10	0.92	ppb
Silver	107-1	467.80	470.77	467.13	468.57	0.41	ppb
Silver	109-1	464.32	477.63	475.37	472.44	1.51	ppb
Sodium	23-2	252223.78	243548.32	245636.50	247136.20	1.83	ppb
Strontium	86-1	12120.13	12474.00	12566.49	12386.87	1.90	ppb
Strontium	88-1	12008.11	12240.55	12421.71	12223.46	1.70	ppb
Sulfur	34-1	9731.72	9357.13	9714.83	9601.23	2.20	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	502.21	492.21	502.65	499.03	1.18	ppb
Thallium	205-1	494.56	497.87	502.79	498.41	0.83	ppb
Tin	118-1	478.77	490.07	485.97	484.94	1.18	ppb
Titanium	47-1	4710.31	4851.74	4880.02	4814.02	1.89	ppb
Uranium	238-1	502.16	502.24	514.65	506.35	1.42	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.71	487.64	493.38	493.91	1.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	5043.92	4944.53	4952.70	4980.38	1.11	ppb
Zirconium	90-1	489.87	489.85	491.09	490.27	0.14	ppb
Zirconium	91-1	480.69	490.95	504.29	491.98	2.40	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.36	-0.12	-0.19		ppb
Antimony	121-1	0.02	0.02	0.01	0.02	13.59	ppb
Arsenic	75-2	-0.01	0.00	-0.01	-0.01		ppb
Barium	135-1	0.00	0.01	0.00	0.00	104.40	ppb
Barium	137-1	0.00	0.00	0.00	0.00	1349.48	ppb
Beryllium	9-1	0.04	0.03	0.04	0.04	6.87	ppb
Bismuth	209-1				105		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.04	0.00	0.03	96.50	ppb
Cadmium	106-1	0.75	-0.11	0.13	0.26	172.67	ppb
Cadmium	111-1	0.06	-0.01	0.02	0.02	157.99	ppb
Calcium	43-1	2.50	0.25	1.39	1.38	81.76	ppb
Calcium	44-1	5.50	4.26	5.30	5.02	13.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.13	0.10	0.09	61.63	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	32.81	ppb
Copper	63-2	0.13	0.27	0.21	0.20	34.10	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				104		%
Holmium	165-2				95		%
Indium	115-1				106		%
Indium	115-2				95		%
Iron	54-2	1.63	1.79	0.87	1.43	34.37	ppb
Iron	56-2	0.98	1.64	1.15	1.26	27.08	ppb
Iron	57-2	0.62	2.19	1.23	1.34	58.75	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.03	0.05	0.04	16.31	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.04	0.04	0.04	9.18	ppb
Lead	208-1	0.04	0.04	0.04	0.04	4.91	ppb
Lithium	6-1				97		%
Magnesium	24-2	-1.72	-1.30	-1.62	-1.54		ppb
Manganese	55-2	0.01	0.04	0.02	0.02	64.39	ppb
Molybdenum	94-1	0.09	0.03	0.03	0.05	67.21	ppb
Molybdenum	95-1	0.10	0.04	0.02	0.05	77.28	ppb
Molybdenum	96-1	0.09	0.03	0.02	0.05	73.60	ppb
Molybdenum	97-1	0.08	0.04	0.03	0.05	60.20	ppb
Molybdenum	98-1	0.09	0.03	0.03	0.05	62.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.05	-0.01	0.01	190.88	ppb
Phosphorus	31-2	-6.97	-12.62	-12.82	-10.80		ppb
Potassium	39-2	34.32	52.66	39.98	42.32	22.19	ppb
Rhodium	103-1				106		%
Rhodium	103-2				97		%
Scandium	45-1				106		%
Scandium	45-2				96		%
Selenium	82-1	-0.12	-0.02	-0.07	-0.07		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	0.06	0.21	-0.23	0.01	1817.58	ppb
Silicon	28-1	-0.08	-0.18	-0.07	-0.11		ppb
Silver	107-1	0.01	0.01	0.01	0.01	13.73	ppb
Silver	109-1	0.01	0.01	0.01	0.01	14.14	ppb
Sodium	23-2	74.96	105.34	87.79	89.36	17.06	ppb
Strontium	86-1	0.00	-0.29	-0.22	-0.17		ppb
Strontium	88-1	0.05	0.05	0.05	0.05	7.26	ppb
Sulfur	34-1	-100.83	-336.08	-55.57	-164.16		ppb
Terbium	159-1				103		%
Terbium	159-2				97		%
Thallium	203-1	0.02	0.02	0.02	0.02	9.12	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.02	ppb
Tin	118-1	0.03	0.02	0.03	0.02	28.29	ppb
Titanium	47-1	0.07	0.04	0.06	0.06	25.12	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	227.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				99		%
Zinc	66-2	0.34	0.45	0.37	0.39	13.56	ppb
Zirconium	90-1	0.00	0.01	0.00	0.01	30.18	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	5.58	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.21	-0.23	-0.24	-0.23		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.29	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.01	0.01	0.01	0.01	31.69	ppb
Barium	137-1	0.01	0.01	0.01	0.01	18.00	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	4.46	ppb
Bismuth	209-1				103		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Cadmium	108-1	0.03	-0.01	0.01	0.01	170.71	ppb
Cadmium	106-1	-0.31	0.05	0.42	0.05	713.79	ppb
Cadmium	111-1	-0.03	0.00	0.03	0.00	805.60	ppb
Calcium	43-1	-2.21	-0.72	-0.49	-1.14		ppb
Calcium	44-1	0.86	1.06	1.29	1.07	20.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.11	0.01	0.07	0.06	74.73	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	584.66	ppb
Copper	63-2	0.16	0.06	0.12	0.11	45.98	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				108		%
Indium	115-1				105		%
Indium	115-2				108		%
Iron	54-2	1.77	-0.02	1.42	1.05	90.22	ppb
Iron	56-2	1.22	0.65	1.05	0.97	29.93	ppb
Iron	57-2	0.93	0.70	0.78	0.80	14.89	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.04	0.05	0.04	4.89	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.04	0.04	0.04	8.68	ppb
Lead	208-1	0.04	0.04	0.04	0.04	3.47	ppb
Lithium	6-1				99		%
Magnesium	24-2	-1.29	-2.03	-1.90	-1.74		ppb
Manganese	55-2	-0.01	0.00	0.00	0.00		ppb
Molybdenum	94-1	0.03	0.02	0.03	0.02	26.90	ppb
Molybdenum	95-1	0.04	0.03	0.02	0.03	37.51	ppb
Molybdenum	96-1	0.02	0.02	0.02	0.02	19.10	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	9.20	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.03	34.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	-0.02	0.03	0.01	201.83	ppb
Phosphorus	31-2	-12.04	-22.47	-7.58	-14.03		ppb
Potassium	39-2	37.58	17.19	31.09	28.62	36.40	ppb
Rhodium	103-1				104		%
Rhodium	103-2				111		%
Scandium	45-1				106		%
Scandium	45-2				110		%
Selenium	82-1	0.03	-0.30	-0.01	-0.09		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	-0.06	-0.61	-0.10	-0.26		ppb
Silicon	28-1	-0.37	-0.36	-0.35	-0.36		ppb
Silver	107-1	0.00	0.00	0.01	0.01	41.63	ppb
Silver	109-1	0.01	0.01	0.00	0.01	21.42	ppb
Sodium	23-2	71.37	40.52	59.36	57.08	27.24	ppb
Strontium	86-1	-0.26	-0.19	0.14	-0.10		ppb
Strontium	88-1	0.02	0.06	0.06	0.05	44.29	ppb
Sulfur	34-1	-174.82	-25.68	-17.47	-72.66		ppb
Terbium	159-1				103		%
Terbium	159-2				109		%
Thallium	203-1	0.02	0.02	0.02	0.02	1.81	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.30	ppb
Tin	118-1	-0.02	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.06	0.04	0.07	0.06	23.22	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	1812.19	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				111		%
Zinc	66-2	0.01	-0.12	-0.04	-0.05		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	35.54	ppb
Zirconium	91-1	0.00	0.00	-0.01	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43.79	39.71	47.97	43.83	9.42	ppb
Antimony	121-1	3.99	4.06	4.03	4.03	0.89	ppb
Arsenic	75-2	2.47	2.21	2.44	2.37	6.04	ppb
Barium	135-1	19.12	19.53	19.16	19.27	1.18	ppb
Barium	137-1	19.38	19.87	19.62	19.63	1.24	ppb
Beryllium	9-1	2.14	2.13	2.11	2.13	0.81	ppb
Bismuth	209-1				104		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.04	2.06	2.20	2.10	4.02	ppb
Cadmium	106-1	1.90	2.23	2.04	2.06	8.08	ppb
Cadmium	111-1	2.04	2.10	2.06	2.07	1.59	ppb
Calcium	43-1	960.78	975.63	955.10	963.84	1.10	ppb
Calcium	44-1	1005.13	1025.81	1002.33	1011.09	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.13	3.78	4.38	4.10	7.39	ppb
Cobalt	59-2	2.21	2.05	2.46	2.24	9.24	ppb
Copper	63-2	4.59	4.35	5.16	4.70	8.80	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				104		%
Holmium	165-2				96		%
Indium	115-1				106		%
Indium	115-2				95		%
Iron	54-2	442.34	413.25	485.29	446.96	8.11	ppb
Iron	56-2	442.54	414.55	489.88	448.99	8.48	ppb
Iron	57-2	427.61	401.65	468.93	432.73	7.84	ppb
Krypton	83-1						cps
Lead	206-1	1.97	1.95	1.95	1.96	0.53	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.00	2.01	1.99	2.00	0.56	ppb
Lead	208-1	1.96	1.99	1.97	1.97	0.81	ppb
Lithium	6-1				99		%
Magnesium	24-2	1113.57	1044.06	1214.65	1124.09	7.63	ppb
Manganese	55-2	2.01	1.91	2.42	2.11	12.93	ppb
Molybdenum	94-1	10.92	11.31	11.17	11.13	1.79	ppb
Molybdenum	95-1	9.27	9.45	9.65	9.45	2.02	ppb
Molybdenum	96-1	9.44	9.66	9.69	9.60	1.43	ppb
Molybdenum	97-1	9.32	9.62	9.85	9.60	2.75	ppb
Molybdenum	98-1	9.22	9.40	9.43	9.35	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.18	2.00	2.36	2.18	8.06	ppb
Phosphorus	31-2	50.17	21.92	41.35	37.82	38.22	ppb
Potassium	39-2	1074.87	1004.15	1196.04	1091.68	8.89	ppb
Rhodium	103-1				104		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				96		%
Selenium	82-1	9.75	10.17	10.80	10.24	5.16	ppb
Selenium	77-2	15.22	11.25	10.43	12.30	20.82	ppb
Selenium	78-2	9.46	12.64	11.75	11.28	14.52	ppb
Silicon	28-1	0.63	0.59	0.55	0.59	6.68	ppb
Silver	107-1	1.99	2.05	2.04	2.02	1.52	ppb
Silver	109-1	2.02	2.08	2.05	2.05	1.39	ppb
Sodium	23-2	1150.07	1076.50	1270.42	1165.66	8.40	ppb
Strontium	86-1	48.75	48.16	48.04	48.31	0.79	ppb
Strontium	88-1	48.51	49.27	48.96	48.91	0.78	ppb
Sulfur	34-1	-126.72	-124.23	-151.66	-134.20		ppb
Terbium	159-1				106		%
Terbium	159-2				95		%
Thallium	203-1	1.91	1.95	1.90	1.92	1.24	ppb
Thallium	205-1	1.90	1.91	1.92	1.91	0.62	ppb
Tin	118-1	9.75	10.10	9.90	9.92	1.77	ppb
Titanium	47-1	2.48	2.43	2.47	2.46	1.23	ppb
Uranium	238-1	1.82	1.77	1.79	1.79	1.56	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.69	10.12	11.70	10.84	7.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				99		%
Zinc	66-2	10.85	11.17	12.40	11.48	7.13	ppb
Zirconium	90-1	1.78	1.82	1.86	1.82	2.38	ppb
Zirconium	91-1	1.78	1.88	1.86	1.84	2.98	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.07	-0.05	-0.05	-0.01		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	59.06	ppb
Arsenic	75-2	-0.01	0.01	0.01	0.00	396.58	ppb
Barium	135-1	0.01	0.01	0.00	0.01	136.64	ppb
Barium	137-1	0.00	0.00	0.00	0.00	56.68	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	10.99	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	0.00	-0.02	-0.01		ppb
Cadmium	106-1	-0.21	-1.23	-0.05	-0.50		ppb
Cadmium	111-1	-0.02	-0.10	0.00	-0.04		ppb
Calcium	43-1	-1.33	-1.00	-2.16	-1.49		ppb
Calcium	44-1	1.46	1.31	0.79	1.18	29.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.06	0.11	0.09	33.02	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.02	0.01	0.05	0.03	84.97	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				102		%
Indium	115-2				101		%
Iron	54-2	1.43	0.73	1.17	1.11	31.80	ppb
Iron	56-2	0.74	1.57	0.70	1.01	48.64	ppb
Iron	57-2	0.33	0.99	0.81	0.71	47.75	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.04	0.02	0.03	30.49	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.02	0.02	0.02	24.54	ppb
Lead	208-1	0.02	0.03	0.02	0.02	17.74	ppb
Lithium	6-1				97		%
Magnesium	24-2	-1.05	-1.14	-1.01	-1.07		ppb
Manganese	55-2	0.01	-0.01	-0.01	-0.01		ppb
Molybdenum	94-1	0.01	0.01	0.01	0.01	26.62	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.01	45.49	ppb
Molybdenum	96-1	0.02	0.01	0.01	0.01	60.25	ppb
Molybdenum	97-1	0.03	0.01	0.02	0.02	38.70	ppb
Molybdenum	98-1	0.02	0.01	0.01	0.01	23.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.02	0.02	0.03	34.04	ppb
Phosphorus	31-2	-3.01	-14.03	-11.22	-9.42		ppb
Potassium	39-2	25.94	26.82	24.04	25.60	5.56	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				103		%
Scandium	45-2				103		%
Selenium	82-1	-0.08	-0.32	0.11	-0.09		ppb
Selenium	77-2	-0.19	-0.19	0.36	0.00		ppb
Selenium	78-2	0.08	-0.09	-0.58	-0.20		ppb
Silicon	28-1	-0.22	-0.27	-0.29	-0.26		ppb
Silver	107-1	0.00	0.00	0.00	0.00	9.07	ppb
Silver	109-1	0.00	0.00	0.00	0.00	8.63	ppb
Sodium	23-2	53.65	52.98	51.16	52.60	2.46	ppb
Strontium	86-1	0.14	0.19	0.11	0.15	27.48	ppb
Strontium	88-1	0.03	0.03	0.05	0.03	39.05	ppb
Sulfur	34-1	187.91	119.07	100.97	135.98	33.73	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.00	0.01	39.47	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	25.79	ppb
Tin	118-1	0.00	-0.02	0.09	0.02	259.38	ppb
Titanium	47-1	0.05	0.04	0.07	0.05	26.49	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	15.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				104		%
Zinc	66-2	0.06	0.00	0.02	0.03	117.58	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	15.94	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32.51	37.93	42.44	37.63	13.20	ppb
Antimony	121-1	4.16	4.42	3.92	4.17	6.01	ppb
Arsenic	75-2	1.88	2.11	2.32	2.10	10.65	ppb
Barium	135-1	20.44	21.16	19.08	20.23	5.20	ppb
Barium	137-1	20.52	21.46	19.28	20.42	5.36	ppb
Beryllium	9-1	2.13	2.40	2.05	2.19	8.16	ppb
Bismuth	209-1				104		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Cadmium	108-1	1.99	2.22	2.20	2.14	5.88	ppb
Cadmium	106-1	2.64	2.39	2.15	2.40	10.23	ppb
Cadmium	111-1	2.22	2.26	2.03	2.17	5.61	ppb
Calcium	43-1	1030.67	1049.34	980.66	1020.22	3.48	ppb
Calcium	44-1	1078.24	1081.69	1007.40	1055.77	3.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.26	3.77	3.96	3.66	9.93	ppb
Cobalt	59-2	1.81	2.11	2.14	2.02	8.94	ppb
Copper	63-2	3.65	4.22	4.40	4.09	9.56	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				105		%
Holmium	165-2				108		%
Indium	115-1				106		%
Indium	115-2				108		%
Iron	54-2	357.39	413.70	425.37	398.82	9.11	ppb
Iron	56-2	363.10	415.50	433.70	404.10	9.07	ppb
Iron	57-2	352.77	399.16	412.92	388.28	8.12	ppb
Krypton	83-1						cps
Lead	206-1	1.97	2.07	1.87	1.97	5.27	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.96	2.14	1.94	2.01	5.43	ppb
Lead	208-1	1.95	2.11	1.89	1.98	5.64	ppb
Lithium	6-1				101		%
Magnesium	24-2	918.79	1048.97	1088.32	1018.69	8.71	ppb
Manganese	55-2	1.71	1.92	2.00	1.88	7.85	ppb
Molybdenum	94-1	11.55	11.84	10.75	11.38	4.97	ppb
Molybdenum	95-1	9.73	10.18	9.12	9.68	5.53	ppb
Molybdenum	96-1	9.83	10.28	9.23	9.78	5.41	ppb
Molybdenum	97-1	9.75	10.24	9.29	9.76	4.88	ppb
Molybdenum	98-1	9.67	10.15	9.16	9.66	5.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.81	2.02	2.00	1.94	5.92	ppb
Phosphorus	31-2	28.72	36.28	35.79	33.60	12.59	ppb
Potassium	39-2	875.03	1008.37	1048.38	977.26	9.29	ppb
Rhodium	103-1				105		%
Rhodium	103-2				109		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	10.44	10.40	10.09	10.31	1.85	ppb
Selenium	77-2	6.86	11.98	10.23	9.69	26.84	ppb
Selenium	78-2	10.66	10.96	9.07	10.23	9.96	ppb
Silicon	28-1	0.63	0.68	0.47	0.59	18.52	ppb
Silver	107-1	2.09	2.20	1.96	2.09	5.68	ppb
Silver	109-1	2.10	2.19	2.02	2.11	4.08	ppb
Sodium	23-2	940.13	1072.16	1112.92	1041.74	8.67	ppb
Strontium	86-1	50.40	50.68	46.46	49.18	4.80	ppb
Strontium	88-1	50.00	52.26	48.03	50.09	4.23	ppb
Sulfur	34-1	-15.03	239.18	-167.77	18.79	1093.94	ppb
Terbium	159-1				104		%
Terbium	159-2				107		%
Thallium	203-1	1.90	2.09	1.87	1.95	6.08	ppb
Thallium	205-1	1.92	2.09	1.86	1.96	6.11	ppb
Tin	118-1	10.37	10.75	9.70	10.28	5.17	ppb
Titanium	47-1	2.57	2.58	2.37	2.51	4.78	ppb
Uranium	238-1	1.80	1.93	1.73	1.82	5.59	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	8.61	10.20	10.38	9.73	10.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				111		%
Zinc	66-2	9.87	11.33	11.18	10.79	7.43	ppb
Zirconium	90-1	1.86	1.93	1.75	1.85	4.89	ppb
Zirconium	91-1	1.79	1.90	1.70	1.80	5.48	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.34	-0.15	-0.19		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	8.05	ppb
Arsenic	75-2	0.01	0.02	0.01	0.01	40.82	ppb
Barium	135-1	0.01	0.01	0.00	0.01	79.58	ppb
Barium	137-1	0.00	0.00	0.00	0.00	120.41	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	10.20	ppb
Bismuth	209-1				100		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.02	0.03	0.00	836.16	ppb
Cadmium	106-1	0.57	0.72	0.20	0.50	53.55	ppb
Cadmium	111-1	0.05	0.06	0.01	0.04	59.16	ppb
Calcium	43-1	0.11	-0.62	-0.57	-0.36		ppb
Calcium	44-1	0.45	1.21	1.21	0.96	46.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.16	0.13	0.13	0.14	13.69	ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	0.08	0.05	0.01	0.05	65.86	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				97		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	0.80	1.06	0.75	0.87	19.13	ppb
Iron	56-2	0.93	0.83	0.94	0.90	6.43	ppb
Iron	57-2	0.60	1.66	0.88	1.05	52.40	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.03	0.03	0.02	17.38	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.03	0.02	0.02	18.77	ppb
Lead	208-1	0.02	0.03	0.02	0.02	4.88	ppb
Lithium	6-1				98		%
Magnesium	24-2	-0.89	-0.77	-0.74	-0.80		ppb
Manganese	55-2	0.04	0.02	0.01	0.02	52.28	ppb
Molybdenum	94-1	0.02	0.03	0.02	0.02	29.58	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.01	29.44	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	21.88	ppb
Molybdenum	97-1	0.01	0.00	0.01	0.01	43.63	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	6.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.05	0.03	0.05	23.37	ppb
Phosphorus	31-2	-17.67	-10.84	-9.89	-12.80		ppb
Potassium	39-2	28.76	26.83	25.92	27.17	5.34	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	-0.22	-0.12	-0.07	-0.13		ppb
Selenium	77-2	-0.19	-0.19	0.38	0.00	12373.40	ppb
Selenium	78-2	0.31	0.11	0.12	0.18	65.03	ppb
Silicon	28-1	-0.30	-0.25	-0.19	-0.24		ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.54	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.17	ppb
Sodium	23-2	56.84	54.66	51.80	54.43	4.65	ppb
Strontium	86-1	0.18	0.17	0.24	0.20	20.48	ppb
Strontium	88-1	0.06	0.05	0.04	0.05	16.39	ppb
Sulfur	34-1	106.44	341.46	335.89	261.26	51.33	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.01	0.01	0.01	0.01	14.06	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	3.44	ppb
Tin	118-1	-0.01	0.03	-0.02	0.00	10154.92	ppb
Titanium	47-1	0.04	0.05	0.06	0.05	24.00	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	313.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	0.02	0.00	0.03	0.01	122.43	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	63.21	ppb
Zirconium	91-1	0.01	0.01	0.00	0.00	138.74	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.57	37.45	38.67	37.90	1.78	ppb
Antimony	121-1	4.11	4.18	3.97	4.08	2.60	ppb
Arsenic	75-2	2.08	2.22	2.06	2.12	4.17	ppb
Barium	135-1	19.92	20.04	19.34	19.77	1.89	ppb
Barium	137-1	20.04	20.46	19.76	20.09	1.74	ppb
Beryllium	9-1	2.10	2.13	2.08	2.11	1.19	ppb
Bismuth	209-1				103		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	1.99	1.98	2.32	2.10	9.21	ppb
Cadmium	106-1	1.70	2.71	2.11	2.17	23.21	ppb
Cadmium	111-1	2.07	2.23	2.08	2.12	4.28	ppb
Calcium	43-1	974.34	978.75	962.12	971.74	0.89	ppb
Calcium	44-1	1028.16	1025.55	988.07	1013.93	2.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.70	3.68	3.68	3.69	0.35	ppb
Cobalt	59-2	2.00	1.97	2.03	2.00	1.32	ppb
Copper	63-2	4.22	4.01	4.09	4.11	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				104		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	54-2	400.77	402.44	399.98	401.06	0.31	ppb
Iron	56-2	399.50	405.19	410.41	405.03	1.35	ppb
Iron	57-2	387.12	394.32	396.34	392.59	1.23	ppb
Krypton	83-1						cps
Lead	206-1	1.98	2.00	1.90	1.96	2.79	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.97	1.96	1.91	1.95	1.69	ppb
Lead	208-1	1.96	1.96	1.93	1.95	0.85	ppb
Lithium	6-1				101		%
Magnesium	24-2	1025.88	1022.91	1023.95	1024.25	0.15	ppb
Manganese	55-2	1.99	1.90	1.88	1.93	3.09	ppb
Molybdenum	94-1	11.27	11.33	11.00	11.20	1.58	ppb
Molybdenum	95-1	9.64	9.69	9.34	9.56	1.97	ppb
Molybdenum	96-1	9.73	9.70	9.47	9.63	1.50	ppb
Molybdenum	97-1	9.78	9.84	9.37	9.66	2.63	ppb
Molybdenum	98-1	9.54	9.66	9.28	9.49	2.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.93	1.89	1.85	1.89	2.07	ppb
Phosphorus	31-2	37.31	28.88	31.58	32.59	13.21	ppb
Potassium	39-2	985.64	979.20	988.63	984.49	0.49	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				105		%
Scandium	45-2				106		%
Selenium	82-1	10.13	9.92	9.95	10.00	1.14	ppb
Selenium	77-2	14.14	11.10	7.39	10.88	31.07	ppb
Selenium	78-2	11.65	11.97	10.75	11.45	5.53	ppb
Silicon	28-1	0.68	0.68	0.61	0.65	5.96	ppb
Silver	107-1	2.04	2.10	2.01	2.05	2.09	ppb
Silver	109-1	2.07	2.11	2.03	2.07	1.92	ppb
Sodium	23-2	1053.61	1047.55	1045.46	1048.87	0.40	ppb
Strontium	86-1	50.35	50.30	47.76	49.47	2.99	ppb
Strontium	88-1	49.62	50.26	48.37	49.42	1.94	ppb
Sulfur	34-1	-35.86	45.03	-51.66	-14.16		ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	1.91	1.90	1.88	1.89	0.80	ppb
Thallium	205-1	1.94	1.92	1.88	1.91	1.76	ppb
Tin	118-1	10.03	10.35	9.81	10.06	2.70	ppb
Titanium	47-1	2.58	2.56	2.34	2.50	5.27	ppb
Uranium	238-1	1.84	1.81	1.75	1.80	2.51	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.82	9.88	9.76	9.82	0.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				106		%
Zinc	66-2	10.04	10.35	9.91	10.10	2.28	ppb
Zirconium	90-1	1.87	1.85	1.80	1.84	1.84	ppb
Zirconium	91-1	1.86	1.89	1.78	1.84	3.17	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.21	-0.09	-0.47	-0.26		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	21.60	ppb
Arsenic	75-2	-0.01	0.00	-0.01	-0.01		ppb
Barium	135-1	0.00	0.00	0.00	0.00	224.71	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	7.78	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.01	-0.01	0.02	181.17	ppb
Cadmium	106-1	-1.68	-0.12	-0.40	-0.74		ppb
Cadmium	111-1	-0.13	-0.01	-0.03	-0.06		ppb
Calcium	43-1	-2.19	-0.19	-1.27	-1.22		ppb
Calcium	44-1	0.02	0.90	0.01	0.31	164.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.07	0.13	0.09	35.21	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.00	0.04	0.02	0.02	121.55	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				101		%
Indium	115-2				101		%
Iron	54-2	0.80	1.06	0.70	0.85	21.24	ppb
Iron	56-2	0.53	0.69	0.71	0.64	14.77	ppb
Iron	57-2	-0.10	0.78	0.38	0.36	124.52	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.03	0.03	0.03	17.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.02	0.02	0.02	17.90	ppb
Lead	208-1	0.02	0.02	0.02	0.02	10.63	ppb
Lithium	6-1				98		%
Magnesium	24-2	-1.18	-0.81	-0.85	-0.94		ppb
Manganese	55-2	0.00	0.00	0.01	0.00	774.04	ppb
Molybdenum	94-1	0.02	0.02	0.03	0.02	15.78	ppb
Molybdenum	95-1	0.00	0.01	0.01	0.01	43.22	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	31.35	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	48.22	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	13.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.01	0.03	0.01	297.10	ppb
Phosphorus	31-2	-23.69	-7.16	-11.19	-14.01		ppb
Potassium	39-2	18.94	22.19	22.29	21.14	9.01	ppb
Rhodium	103-1				99		%
Rhodium	103-2				103		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	-0.15	-0.17	-0.05	-0.12		ppb
Selenium	77-2	0.34	-0.19	-0.19	-0.01		ppb
Selenium	78-2	-0.11	0.78	-0.41	0.09	696.41	ppb
Silicon	28-1	-0.30	-0.18	-0.26	-0.25		ppb
Silver	107-1	0.02	0.01	0.01	0.01	24.99	ppb
Silver	109-1	0.01	0.01	0.01	0.01	28.47	ppb
Sodium	23-2	40.98	46.71	47.82	45.17	8.13	ppb
Strontium	86-1	0.12	0.34	-0.18	0.09	273.84	ppb
Strontium	88-1	0.02	0.06	0.04	0.04	44.99	ppb
Sulfur	34-1	-9.73	346.19	93.76	143.40	127.67	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.00	0.01	0.00	0.01	7.92	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.90	ppb
Tin	118-1	0.00	0.00	-0.02	0.00		ppb
Titanium	47-1	0.04	0.04	0.05	0.04	6.73	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	182.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				103		%
Zinc	66-2	-0.07	0.04	-0.06	-0.03		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	73.33	ppb
Zirconium	91-1	0.00	0.01	0.00	0.00	87.92	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.39	39.06	38.18	38.88	1.61	ppb
Antimony	121-1	4.24	4.17	4.17	4.19	0.90	ppb
Arsenic	75-2	2.32	2.36	2.48	2.39	3.66	ppb
Barium	135-1	19.96	20.08	20.01	20.02	0.30	ppb
Barium	137-1	20.16	20.28	20.57	20.34	1.02	ppb
Beryllium	9-1	2.24	2.19	2.23	2.22	1.02	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	2.26	2.07	2.01	2.11	6.24	ppb
Cadmium	106-1	2.22	2.16	1.25	1.88	28.89	ppb
Cadmium	111-1	2.16	2.24	2.10	2.16	3.20	ppb
Calcium	43-1	989.58	981.20	1043.80	1004.86	3.38	ppb
Calcium	44-1	997.95	1001.13	1051.08	1016.72	2.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.91	3.94	3.97	3.94	0.81	ppb
Cobalt	59-2	2.17	2.20	2.20	2.19	0.76	ppb
Copper	63-2	4.33	4.37	4.46	4.39	1.41	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				103		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	54-2	427.07	436.51	428.37	430.65	1.19	ppb
Iron	56-2	425.41	435.63	438.58	433.21	1.60	ppb
Iron	57-2	422.59	422.26	418.81	421.22	0.50	ppb
Krypton	83-1						cps
Lead	206-1	1.99	1.99	2.01	1.99	0.55	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.02	2.01	2.00	2.01	0.67	ppb
Lead	208-1	2.02	2.00	2.01	2.01	0.44	ppb
Lithium	6-1				99		%
Magnesium	24-2	1084.82	1075.66	1100.37	1086.95	1.15	ppb
Manganese	55-2	2.12	2.07	2.24	2.14	4.12	ppb
Molybdenum	94-1	11.53	11.54	11.60	11.56	0.31	ppb
Molybdenum	95-1	9.83	9.67	9.85	9.78	1.01	ppb
Molybdenum	96-1	9.92	9.89	9.91	9.91	0.16	ppb
Molybdenum	97-1	9.86	9.91	9.76	9.85	0.80	ppb
Molybdenum	98-1	9.60	9.60	9.66	9.62	0.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.12	2.03	2.00	2.05	3.02	ppb
Phosphorus	31-2	48.55	40.68	39.90	43.04	11.12	ppb
Potassium	39-2	1031.74	1033.62	1036.80	1034.05	0.25	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	10.37	10.41	10.86	10.54	2.59	ppb
Selenium	77-2	8.44	11.84	11.56	10.61	17.79	ppb
Selenium	78-2	10.87	10.03	13.68	11.53	16.58	ppb
Silicon	28-1	0.67	0.55	0.78	0.66	17.54	ppb
Silver	107-1	2.10	2.14	2.09	2.11	1.15	ppb
Silver	109-1	2.07	2.10	2.11	2.09	1.07	ppb
Sodium	23-2	1090.49	1101.35	1118.93	1103.59	1.30	ppb
Strontium	86-1	50.56	51.02	50.16	50.58	0.86	ppb
Strontium	88-1	49.83	50.42	49.89	50.05	0.65	ppb
Sulfur	34-1	2.36	-113.99	337.98	75.45	311.04	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	1.97	1.96	1.99	1.97	0.73	ppb
Thallium	205-1	1.98	1.97	1.97	1.97	0.12	ppb
Tin	118-1	10.27	10.19	10.20	10.22	0.39	ppb
Titanium	47-1	2.52	2.51	2.63	2.55	2.63	ppb
Uranium	238-1	1.85	1.87	1.87	1.86	0.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.30	10.41	10.55	10.42	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	10.14	11.04	10.96	10.71	4.63	ppb
Zirconium	90-1	1.89	1.87	1.91	1.89	1.11	ppb
Zirconium	91-1	1.82	1.88	1.85	1.85	1.68	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10351.04	9488.79	9787.70	9875.84	4.43	ppb
Antimony	121-1	81.87	82.06	82.51	82.14	0.40	ppb
Arsenic	75-2	188.27	171.52	176.13	178.64	4.84	ppb
Barium	135-1	129.87	131.77	127.01	129.55	1.85	ppb
Barium	137-1	131.63	133.62	129.87	131.71	1.43	ppb
Beryllium	9-1	0.52	0.52	0.52	0.52	0.30	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	2.85	2.91	2.91	2.89	1.18	ppb
Cadmium	106-1	4.30	3.75	4.13	4.06	6.92	ppb
Cadmium	111-1	1.97	1.99	1.93	1.96	1.49	ppb
Calcium	43-1	21279.24	21724.02	20818.10	21273.79	2.13	ppb
Calcium	44-1	21023.46	21224.99	20687.37	20978.61	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34.03	30.49	31.42	31.98	5.74	ppb
Cobalt	59-2	34.95	32.07	33.59	33.54	4.30	ppb
Copper	63-2	1261.44	1140.04	1184.04	1195.17	5.14	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				104		%
Indium	115-2				101		%
Iron	54-2	37899.36	34663.29	35638.61	36067.09	4.60	ppb
Iron	56-2	37164.16	34250.03	35107.34	35507.18	4.22	ppb
Iron	57-2	38109.29	33622.89	36050.90	35927.69	6.25	ppb
Krypton	83-1						cps
Lead	206-1	365.47	369.97	361.27	365.57	1.19	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	362.35	368.23	353.35	361.31	2.07	ppb
Lead	208-1	360.45	364.63	352.89	359.32	1.66	ppb
Lithium	6-1				97		%
Magnesium	24-2	6980.81	6209.38	6659.36	6616.52	5.86	ppb
Manganese	55-2	240.23	220.58	226.96	229.26	4.37	ppb
Molybdenum	94-1	18.49	18.81	18.17	18.49	1.74	ppb
Molybdenum	95-1	6.58	6.59	6.43	6.53	1.34	ppb
Molybdenum	96-1	7.81	8.07	7.85	7.91	1.79	ppb
Molybdenum	97-1	6.64	6.67	6.51	6.60	1.26	ppb
Molybdenum	98-1	6.52	6.71	6.43	6.55	2.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.62	25.84	27.33	27.26	5.10	ppb
Phosphorus	31-2	956.55	918.34	909.04	927.97	2.71	ppb
Potassium	39-2	2175.24	2009.54	2062.31	2082.36	4.07	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				107		%
Scandium	45-2				105		%
Selenium	82-1	0.92	0.95	1.01	0.96	4.34	ppb
Selenium	77-2	22.80	17.36	18.98	19.71	14.19	ppb
Selenium	78-2	4.86	4.26	2.64	3.92	29.28	ppb
Silicon	28-1	40.59	47.69	40.51	42.93	9.61	ppb
Silver	107-1	3.60	3.57	3.49	3.55	1.60	ppb
Silver	109-1	3.59	3.67	3.57	3.61	1.47	ppb
Sodium	23-2	10936.11	9732.92	10213.60	10294.21	5.88	ppb
Strontium	86-1	4873.67	4896.00	4830.90	4866.85	0.68	ppb
Strontium	88-1	4766.68	4873.50	4792.75	4810.98	1.16	ppb
Sulfur	34-1	7413.24	8119.71	7401.94	7644.96	5.38	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.42	0.44	0.44	0.43	2.69	ppb
Thallium	205-1	0.43	0.45	0.44	0.44	2.70	ppb
Tin	118-1	30.06	30.89	30.19	30.38	1.48	ppb
Titanium	47-1	653.89	651.84	644.24	649.99	0.78	ppb
Uranium	238-1	2.69	2.65	2.66	2.67	0.71	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	48.34	43.72	45.06	45.71	5.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	1832.73	1667.49	1737.64	1745.95	4.75	ppb
Zirconium	90-1	7.00	7.24	7.02	7.08	1.88	ppb
Zirconium	91-1	7.21	7.27	6.97	7.15	2.18	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9686.78	9804.45	9790.18	9760.47	0.66	ppb
Antimony	121-1	80.67	82.93	81.38	81.66	1.42	ppb
Arsenic	75-2	172.00	178.65	174.18	174.94	1.94	ppb
Barium	135-1	128.71	130.94	132.38	130.68	1.42	ppb
Barium	137-1	131.84	133.46	132.60	132.64	0.61	ppb
Beryllium	9-1	0.52	0.52	0.53	0.52	1.26	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	3.07	3.07	3.00	3.05	1.38	ppb
Cadmium	106-1	3.75	4.58	4.29	4.21	9.98	ppb
Cadmium	111-1	1.95	2.08	2.07	2.03	3.71	ppb
Calcium	43-1	21526.94	21390.83	21283.81	21400.53	0.57	ppb
Calcium	44-1	20931.79	21305.94	21032.69	21090.14	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	31.35	31.54	31.05	31.31	0.78	ppb
Cobalt	59-2	32.66	33.31	33.66	33.21	1.53	ppb
Copper	63-2	1201.38	1191.19	1201.32	1197.96	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				102		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	54-2	36046.32	34904.21	35521.15	35490.56	1.61	ppb
Iron	56-2	35055.25	35119.41	34828.81	35001.16	0.44	ppb
Iron	57-2	34549.83	36156.53	35361.54	35355.97	2.27	ppb
Krypton	83-1						cps
Lead	206-1	363.22	362.64	375.86	367.24	2.03	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	362.48	353.83	365.54	360.62	1.68	ppb
Lead	208-1	360.49	355.03	364.13	359.88	1.27	ppb
Lithium	6-1				97		%
Magnesium	24-2	6533.90	6523.40	6672.83	6576.71	1.27	ppb
Manganese	55-2	226.68	224.75	224.48	225.30	0.53	ppb
Molybdenum	94-1	18.22	18.11	18.79	18.37	1.98	ppb
Molybdenum	95-1	6.58	6.54	6.76	6.63	1.78	ppb
Molybdenum	96-1	7.88	7.93	8.02	7.94	0.90	ppb
Molybdenum	97-1	6.66	6.65	6.93	6.75	2.41	ppb
Molybdenum	98-1	6.45	6.51	6.77	6.58	2.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.07	25.93	26.33	26.11	0.78	ppb
Phosphorus	31-2	886.66	977.30	950.91	938.29	4.97	ppb
Potassium	39-2	2059.70	2071.66	2080.86	2070.74	0.51	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	1.14	0.86	0.89	0.96	16.11	ppb
Selenium	77-2	13.34	26.75	21.40	20.50	32.93	ppb
Selenium	78-2	3.51	3.74	6.28	4.51	34.10	ppb
Silicon	28-1	42.55	44.57	39.89	42.34	5.54	ppb
Silver	107-1	3.39	3.55	3.57	3.50	2.82	ppb
Silver	109-1	3.53	3.52	3.60	3.55	1.20	ppb
Sodium	23-2	10303.65	10232.38	10271.78	10269.27	0.35	ppb
Strontium	86-1	4718.72	4727.17	4905.37	4783.75	2.20	ppb
Strontium	88-1	4723.24	4755.63	4842.83	4773.90	1.30	ppb
Sulfur	34-1	7281.50	7713.26	7036.39	7343.72	4.67	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.43	0.45	0.48	0.45	6.31	ppb
Thallium	205-1	0.42	0.45	0.47	0.45	5.51	ppb
Tin	118-1	30.33	30.91	30.39	30.54	1.05	ppb
Titanium	47-1	637.13	660.34	651.29	649.59	1.80	ppb
Uranium	238-1	2.65	2.67	2.71	2.68	1.20	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.30	45.07	44.66	45.01	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				109		%
Zinc	66-2	1910.45	1933.07	1935.60	1926.37	0.72	ppb
Zirconium	90-1	7.08	7.22	7.27	7.19	1.32	ppb
Zirconium	91-1	7.09	7.15	7.34	7.19	1.76	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1852.78	1692.54	1692.17	1745.83	5.31	ppb
Antimony	121-1	15.02	15.43	15.16	15.20	1.36	ppb
Arsenic	75-2	33.66	30.01	30.13	31.27	6.62	ppb
Barium	135-1	24.35	25.46	25.38	25.06	2.48	ppb
Barium	137-1	25.09	25.33	25.37	25.26	0.60	ppb
Beryllium	9-1	0.10	0.11	0.11	0.11	3.76	ppb
Bismuth	209-1				102		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Cadmium	108-1	0.39	0.69	0.50	0.53	28.33	ppb
Cadmium	106-1	0.84	1.33	0.88	1.02	26.59	ppb
Cadmium	111-1	0.40	0.45	0.41	0.42	6.53	ppb
Calcium	43-1	4006.15	3979.27	3911.88	3965.77	1.22	ppb
Calcium	44-1	4079.36	4139.02	3989.37	4069.25	1.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.90	5.27	5.37	5.51	6.17	ppb
Cobalt	59-2	6.35	5.79	5.75	5.96	5.63	ppb
Copper	63-2	235.13	217.15	207.65	219.98	6.35	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				103		%
Holmium	165-2				109		%
Indium	115-1				106		%
Indium	115-2				109		%
Iron	54-2	6953.00	6383.43	6205.50	6513.98	5.99	ppb
Iron	56-2	6682.53	6190.80	6156.51	6343.28	4.64	ppb
Iron	57-2	6521.70	6005.79	5946.43	6157.97	5.14	ppb
Krypton	83-1						cps
Lead	206-1	65.66	67.82	66.73	66.74	1.62	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	65.13	66.77	66.99	66.29	1.53	ppb
Lead	208-1	66.89	68.45	68.24	67.86	1.25	ppb
Lithium	6-1				98		%
Magnesium	24-2	1259.17	1139.94	1117.07	1172.06	6.51	ppb
Manganese	55-2	43.43	39.54	39.41	40.79	5.60	ppb
Molybdenum	94-1	3.45	3.43	3.45	3.44	0.24	ppb
Molybdenum	95-1	1.24	1.25	1.24	1.25	0.46	ppb
Molybdenum	96-1	1.47	1.51	1.49	1.49	1.13	ppb
Molybdenum	97-1	1.22	1.25	1.28	1.25	2.37	ppb
Molybdenum	98-1	1.21	1.28	1.24	1.24	2.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.02	4.82	4.66	4.83	3.81	ppb
Phosphorus	31-2	152.30	128.35	152.12	144.25	9.55	ppb
Potassium	39-2	418.81	378.67	376.27	391.25	6.11	ppb
Rhodium	103-1				104		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				112		%
Selenium	82-1	0.20	-0.08	0.19	0.11	149.84	ppb
Selenium	77-2	2.47	2.78	2.73	2.66	6.41	ppb
Selenium	78-2	0.54	0.90	0.14	0.53	72.98	ppb
Silicon	28-1	8.07	7.03	7.09	7.39	7.88	ppb
Silver	107-1	0.67	0.70	0.70	0.69	2.47	ppb
Silver	109-1	0.69	0.68	0.70	0.69	1.49	ppb
Sodium	23-2	2134.64	1902.73	1819.69	1952.36	8.36	ppb
Strontium	86-1	886.96	901.19	896.73	894.96	0.81	ppb
Strontium	88-1	926.46	939.23	928.27	931.32	0.74	ppb
Sulfur	34-1	1376.78	1483.67	1213.49	1357.98	10.02	ppb
Terbium	159-1				102		%
Terbium	159-2				109		%
Thallium	203-1	0.10	0.10	0.10	0.10	1.60	ppb
Thallium	205-1	0.10	0.10	0.09	0.10	5.17	ppb
Tin	118-1	5.73	5.89	5.92	5.85	1.77	ppb
Titanium	47-1	122.03	123.40	119.12	121.52	1.80	ppb
Uranium	238-1	0.50	0.51	0.51	0.51	2.06	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	8.53	7.66	7.83	8.01	5.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				113		%
Zinc	66-2	330.95	303.21	299.07	311.08	5.57	ppb
Zirconium	90-1	1.28	1.30	1.27	1.29	1.43	ppb
Zirconium	91-1	1.28	1.31	1.32	1.30	1.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10264.53	10202.22	9920.44	10129.06	1.81	ppb
Antimony	121-1	103.04	105.41	103.94	104.13	1.15	ppb
Arsenic	75-2	183.16	181.90	184.37	183.14	0.67	ppb
Barium	135-1	549.38	555.45	561.69	555.51	1.11	ppb
Barium	137-1	543.63	553.80	559.38	552.27	1.45	ppb
Beryllium	9-1	9.87	10.06	10.09	10.01	1.18	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	11.15	11.17	11.96	11.43	4.03	ppb
Cadmium	106-1	12.08	13.36	13.27	12.91	5.52	ppb
Cadmium	111-1	12.16	12.54	12.61	12.44	1.95	ppb
Calcium	43-1	20728.04	21193.44	20871.99	20931.16	1.14	ppb
Calcium	44-1	20791.12	21137.11	20605.98	20844.74	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	72.41	71.51	70.63	71.52	1.25	ppb
Cobalt	59-2	135.30	135.90	133.94	135.05	0.74	ppb
Copper	63-2	1246.28	1237.93	1213.44	1232.55	1.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				103		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	54-2	35720.10	35730.14	34642.09	35364.11	1.77	ppb
Iron	56-2	35047.72	34748.36	34985.66	34927.25	0.45	ppb
Iron	57-2	35881.04	35367.16	35233.31	35493.83	0.96	ppb
Krypton	83-1						cps
Lead	206-1	365.58	377.49	374.04	372.37	1.65	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	364.32	368.35	369.45	367.37	0.74	ppb
Lead	208-1	364.15	366.73	364.14	365.01	0.41	ppb
Lithium	6-1				97		%
Magnesium	24-2	6631.78	6580.13	6467.26	6559.72	1.28	ppb
Manganese	55-2	320.14	322.00	319.77	320.64	0.37	ppb
Molybdenum	94-1	18.08	18.28	17.90	18.09	1.06	ppb
Molybdenum	95-1	6.45	6.55	6.50	6.50	0.75	ppb
Molybdenum	96-1	7.53	7.85	7.81	7.73	2.25	ppb
Molybdenum	97-1	6.52	6.63	6.40	6.52	1.77	ppb
Molybdenum	98-1	6.33	6.50	6.39	6.41	1.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	129.09	128.70	126.42	128.07	1.13	ppb
Phosphorus	31-2	937.14	939.79	935.25	937.39	0.24	ppb
Potassium	39-2	2063.79	2073.05	2051.94	2062.93	0.51	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	20.92	21.29	20.70	20.97	1.43	ppb
Selenium	77-2	36.19	39.61	40.24	38.68	5.64	ppb
Selenium	78-2	22.92	22.75	24.74	23.47	4.69	ppb
Silicon	28-1	42.44	41.01	39.36	40.93	3.77	ppb
Silver	107-1	13.62	14.05	13.97	13.88	1.64	ppb
Silver	109-1	13.87	14.16	14.08	14.04	1.05	ppb
Sodium	23-2	10403.42	10566.28	10210.93	10393.55	1.71	ppb
Strontium	86-1	4800.13	4890.67	4786.67	4825.82	1.17	ppb
Strontium	88-1	4715.01	4827.75	4676.00	4739.59	1.66	ppb
Sulfur	34-1	6899.08	7221.29	7419.09	7179.82	3.66	ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	9.91	9.92	10.11	9.98	1.11	ppb
Thallium	205-1	10.04	10.12	10.09	10.08	0.41	ppb
Tin	118-1	29.63	30.82	30.46	30.31	2.02	ppb
Titanium	47-1	652.57	655.86	651.89	653.44	0.32	ppb
Uranium	238-1	2.73	2.69	2.71	2.71	0.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	145.82	145.38	144.25	145.15	0.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				108		%
Zinc	66-2	2047.61	2042.51	2011.23	2033.79	0.97	ppb
Zirconium	90-1	6.83	6.93	7.00	6.92	1.23	ppb
Zirconium	91-1	6.84	7.11	6.93	6.96	1.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4415.60	5119.70	5671.17	5068.82	12.42	ppb
Antimony	121-1	11.19	12.47	12.32	11.99	5.81	ppb
Arsenic	75-2	34.68	40.35	44.67	39.90	12.56	ppb
Barium	135-1	29.48	32.41	32.00	31.29	5.06	ppb
Barium	137-1	29.98	32.92	32.62	31.84	5.08	ppb
Beryllium	9-1	0.36	0.40	0.40	0.39	5.60	ppb
Bismuth	209-1				101		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Cadmium	108-1	1.22	1.00	1.24	1.15	11.22	ppb
Cadmium	106-1	1.21	1.28	0.95	1.15	14.99	ppb
Cadmium	111-1	0.64	0.73	0.71	0.69	6.14	ppb
Calcium	43-1	5505.80	6081.95	5942.65	5843.46	5.14	ppb
Calcium	44-1	5573.70	6263.14	6031.27	5956.04	5.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16.17	18.79	20.43	18.46	11.65	ppb
Cobalt	59-2	7.39	8.68	9.43	8.50	12.14	ppb
Copper	63-2	357.51	417.19	451.37	408.69	11.62	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				104		%
Holmium	165-2				114		%
Indium	115-1				107		%
Indium	115-2				115		%
Iron	54-2	11545.71	13698.97	14727.58	13324.09	12.19	ppb
Iron	56-2	11291.82	13262.49	14477.07	13010.46	12.36	ppb
Iron	57-2	11550.72	13427.87	14530.13	13169.57	11.44	ppb
Krypton	83-1						cps
Lead	206-1	114.68	126.09	121.72	120.83	4.77	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	112.62	126.09	121.16	119.96	5.68	ppb
Lead	208-1	113.02	125.22	120.54	119.59	5.15	ppb
Lithium	6-1				96		%
Magnesium	24-2	3331.75	3893.44	4262.26	3829.15	12.24	ppb
Manganese	55-2	87.51	103.91	111.15	100.86	12.01	ppb
Molybdenum	94-1	8.62	9.53	9.58	9.24	5.87	ppb
Molybdenum	95-1	3.94	4.30	4.43	4.22	6.00	ppb
Molybdenum	96-1	4.48	4.99	4.95	4.80	5.89	ppb
Molybdenum	97-1	4.03	4.46	4.51	4.33	6.15	ppb
Molybdenum	98-1	3.85	4.32	4.36	4.18	6.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.44	15.24	17.05	15.24	11.85	ppb
Phosphorus	31-2	609.89	739.64	822.07	723.87	14.78	ppb
Potassium	39-2	1004.66	1163.19	1272.33	1146.73	11.74	ppb
Rhodium	103-1				105		%
Rhodium	103-2				115		%
Scandium	45-1				111		%
Scandium	45-2				119		%
Selenium	82-1	0.38	0.80	0.61	0.60	35.51	ppb
Selenium	77-2	14.17	13.91	15.81	14.63	7.03	ppb
Selenium	78-2	1.43	3.09	3.29	2.60	39.27	ppb
Silicon	28-1	14.22	17.02	15.56	15.60	8.97	ppb
Silver	107-1	1.35	1.49	1.46	1.43	4.89	ppb
Silver	109-1	1.35	1.47	1.45	1.42	4.86	ppb
Sodium	23-2	7956.32	9199.91	10190.84	9115.69	12.28	ppb
Strontium	86-1	999.45	1106.18	1112.05	1072.56	5.91	ppb
Strontium	88-1	1053.28	1158.44	1141.62	1117.78	5.05	ppb
Sulfur	34-1	5025.23	5853.99	5816.74	5565.32	8.41	ppb
Terbium	159-1				105		%
Terbium	159-2				114		%
Thallium	203-1	0.39	0.42	0.41	0.41	4.37	ppb
Thallium	205-1	0.39	0.43	0.41	0.41	5.17	ppb
Tin	118-1	7.58	8.38	8.23	8.06	5.31	ppb
Titanium	47-1	450.75	504.30	493.49	482.85	5.87	ppb
Uranium	238-1	2.23	2.42	2.37	2.34	4.21	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	25.68	30.13	32.51	29.44	11.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				120		%
Zinc	66-2	250.88	287.48	312.26	283.54	10.89	ppb
Zirconium	90-1	2.94	3.26	3.21	3.13	5.49	ppb
Zirconium	91-1	2.83	3.25	3.12	3.07	7.09	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5682.40	5932.12	5986.58	5867.03	2.76	ppb
Antimony	121-1	12.23	12.39	12.79	12.47	2.32	ppb
Arsenic	75-2	44.36	46.17	45.92	45.48	2.16	ppb
Barium	135-1	31.59	31.74	33.18	32.17	2.73	ppb
Barium	137-1	32.12	32.58	33.77	32.82	2.60	ppb
Beryllium	9-1	0.38	0.39	0.41	0.39	3.24	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.07	0.93	1.25	1.08	14.66	ppb
Cadmium	106-1	0.29	1.00	0.33	0.54	73.75	ppb
Cadmium	111-1	0.63	0.72	0.64	0.66	7.85	ppb
Calcium	43-1	5863.48	6019.95	6081.91	5988.45	1.88	ppb
Calcium	44-1	5907.08	6098.92	6072.69	6026.23	1.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.00	21.76	22.17	21.64	2.75	ppb
Cobalt	59-2	9.59	9.69	10.04	9.77	2.43	ppb
Copper	63-2	462.35	477.06	482.72	474.05	2.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				102		%
Iron	54-2	14983.46	15438.56	15673.25	15365.09	2.28	ppb
Iron	56-2	14652.16	15053.57	15435.93	15047.22	2.60	ppb
Iron	57-2	14881.16	15614.14	15366.58	15287.29	2.44	ppb
Krypton	83-1						cps
Lead	206-1	124.58	123.03	124.07	123.89	0.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	119.77	123.13	121.92	121.61	1.40	ppb
Lead	208-1	121.66	121.92	121.82	121.80	0.11	ppb
Lithium	6-1				93		%
Magnesium	24-2	4314.92	4377.71	4430.51	4374.38	1.32	ppb
Manganese	55-2	112.56	118.27	118.69	116.50	2.94	ppb
Molybdenum	94-1	9.20	9.76	9.79	9.58	3.47	ppb
Molybdenum	95-1	4.23	4.38	4.49	4.37	2.94	ppb
Molybdenum	96-1	4.84	5.00	5.07	4.97	2.33	ppb
Molybdenum	97-1	4.33	4.65	4.53	4.50	3.55	ppb
Molybdenum	98-1	4.19	4.42	4.42	4.34	3.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.19	17.88	18.20	17.76	2.91	ppb
Phosphorus	31-2	817.09	804.55	839.53	820.39	2.16	ppb
Potassium	39-2	1285.11	1343.83	1352.74	1327.22	2.77	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				109		%
Scandium	45-2				104		%
Selenium	82-1	0.36	0.48	0.26	0.37	29.28	ppb
Selenium	77-2	13.99	8.03	14.09	12.04	28.82	ppb
Selenium	78-2	2.28	2.24	1.92	2.14	9.31	ppb
Silicon	28-1	15.17	15.74	17.01	15.97	5.90	ppb
Silver	107-1	1.42	1.44	1.49	1.45	2.62	ppb
Silver	109-1	1.40	1.45	1.51	1.45	3.55	ppb
Sodium	23-2	9957.16	10272.94	10210.18	10146.76	1.65	ppb
Strontium	86-1	1083.18	1109.27	1130.32	1107.59	2.13	ppb
Strontium	88-1	1133.02	1140.65	1160.35	1144.67	1.23	ppb
Sulfur	34-1	5473.63	5892.41	5776.88	5714.31	3.79	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.38	0.40	0.42	0.40	4.32	ppb
Thallium	205-1	0.40	0.40	0.41	0.40	1.16	ppb
Tin	118-1	8.09	8.15	8.42	8.22	2.16	ppb
Titanium	47-1	485.01	495.42	509.31	496.58	2.45	ppb
Uranium	238-1	2.29	2.34	2.41	2.35	2.61	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	33.41	34.83	34.82	34.35	2.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				105		%
Zinc	66-2	319.26	331.76	333.58	328.20	2.37	ppb
Zirconium	90-1	3.17	3.33	3.37	3.29	3.20	ppb
Zirconium	91-1	3.15	3.25	3.39	3.26	3.55	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1096.87	1079.58	1105.24	1093.90	1.20	ppb
Antimony	121-1	2.30	2.35	2.37	2.34	1.65	ppb
Arsenic	75-2	8.16	8.06	9.17	8.46	7.23	ppb
Barium	135-1	6.00	6.19	6.14	6.11	1.58	ppb
Barium	137-1	6.19	6.28	6.33	6.27	1.08	ppb
Beryllium	9-1	0.08	0.08	0.09	0.09	6.66	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.09	0.20	0.14	41.96	ppb
Cadmium	106-1	-0.84	-0.33	-0.95	-0.70		ppb
Cadmium	111-1	0.05	0.10	0.04	0.06	47.97	ppb
Calcium	43-1	1135.46	1135.30	1127.06	1132.61	0.42	ppb
Calcium	44-1	1180.68	1192.16	1178.62	1183.82	0.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.83	4.04	3.88	3.92	2.73	ppb
Cobalt	59-2	1.81	1.76	1.85	1.81	2.33	ppb
Copper	63-2	84.97	86.47	86.16	85.87	0.92	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				102		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	54-2	2788.27	2790.74	2802.26	2793.76	0.27	ppb
Iron	56-2	2835.32	2823.92	2879.20	2846.15	1.03	ppb
Iron	57-2	2751.73	2732.54	2784.69	2756.32	0.96	ppb
Krypton	83-1						cps
Lead	206-1	21.57	22.28	21.94	21.93	1.62	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.70	22.22	22.10	22.01	1.25	ppb
Lead	208-1	21.55	22.09	21.93	21.86	1.27	ppb
Lithium	6-1				94		%
Magnesium	24-2	801.69	801.84	818.70	807.41	1.21	ppb
Manganese	55-2	21.65	21.71	21.82	21.72	0.40	ppb
Molybdenum	94-1	1.72	1.69	1.74	1.72	1.48	ppb
Molybdenum	95-1	0.85	0.84	0.85	0.85	0.90	ppb
Molybdenum	96-1	0.91	0.93	0.93	0.92	1.53	ppb
Molybdenum	97-1	0.84	0.84	0.87	0.85	2.35	ppb
Molybdenum	98-1	0.81	0.83	0.88	0.84	4.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.16	3.23	3.33	3.24	2.65	ppb
Phosphorus	31-2	141.63	153.89	164.41	153.31	7.44	ppb
Potassium	39-2	268.99	276.20	273.17	272.78	1.33	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				109		%
Scandium	45-2				107		%
Selenium	82-1	0.20	-0.17	0.11	0.05	419.31	ppb
Selenium	77-2	1.86	5.99	1.40	3.08	81.99	ppb
Selenium	78-2	-0.44	0.81	0.86	0.41	179.47	ppb
Silicon	28-1	2.77	3.03	6.95	4.25	55.15	ppb
Silver	107-1	0.27	0.28	0.29	0.28	2.43	ppb
Silver	109-1	0.27	0.28	0.29	0.28	2.07	ppb
Sodium	23-2	2051.97	2028.68	2063.62	2048.09	0.87	ppb
Strontium	86-1	206.09	209.50	209.54	208.38	0.95	ppb
Strontium	88-1	207.59	207.07	212.71	209.12	1.49	ppb
Sulfur	34-1	643.51	576.08	606.54	608.71	5.55	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.08	0.09	0.09	0.08	2.10	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	1.10	ppb
Tin	118-1	1.47	1.46	1.48	1.47	0.47	ppb
Titanium	47-1	92.08	90.88	89.43	90.80	1.46	ppb
Uranium	238-1	0.45	0.44	0.44	0.45	0.53	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.30	6.43	6.43	6.39	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	61.94	61.21	61.51	61.55	0.60	ppb
Zirconium	90-1	0.57	0.57	0.59	0.58	2.44	ppb
Zirconium	91-1	0.57	0.56	0.56	0.57	0.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5960.04	5841.07	5813.50	5871.53	1.33	ppb
Antimony	121-1	32.85	32.37	32.42	32.55	0.82	ppb
Arsenic	75-2	48.35	50.26	51.59	50.06	3.25	ppb
Barium	135-1	453.75	446.11	433.21	444.36	2.34	ppb
Barium	137-1	457.92	438.80	445.32	447.35	2.17	ppb
Beryllium	9-1	10.57	10.17	10.26	10.33	2.04	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	9.64	9.78	9.20	9.54	3.16	ppb
Cadmium	106-1	9.04	9.35	9.83	9.41	4.23	ppb
Cadmium	111-1	11.18	11.06	11.01	11.08	0.78	ppb
Calcium	43-1	5746.29	5613.02	5642.79	5667.36	1.23	ppb
Calcium	44-1	5965.80	5707.61	5789.45	5820.95	2.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	60.31	59.92	59.62	59.95	0.57	ppb
Cobalt	59-2	111.08	110.62	109.77	110.49	0.60	ppb
Copper	63-2	492.34	495.97	488.16	492.16	0.79	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				103		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	54-2	14917.21	14550.84	14809.38	14759.14	1.28	ppb
Iron	56-2	14496.90	14198.93	14138.00	14277.94	1.35	ppb
Iron	57-2	14741.61	14283.05	14541.86	14522.17	1.58	ppb
Krypton	83-1						cps
Lead	206-1	127.87	125.47	120.29	124.54	3.11	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	125.44	123.84	118.71	122.66	2.87	ppb
Lead	208-1	124.28	123.38	119.24	122.30	2.20	ppb
Lithium	6-1				92		%
Magnesium	24-2	4135.34	4051.13	4009.98	4065.48	1.57	ppb
Manganese	55-2	206.45	203.40	203.66	204.50	0.83	ppb
Molybdenum	94-1	9.32	8.81	8.61	8.91	4.14	ppb
Molybdenum	95-1	4.24	4.13	4.04	4.14	2.50	ppb
Molybdenum	96-1	4.81	4.67	4.62	4.70	2.09	ppb
Molybdenum	97-1	4.36	4.22	4.11	4.23	2.96	ppb
Molybdenum	98-1	4.18	4.05	3.99	4.07	2.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	117.54	116.65	116.28	116.82	0.55	ppb
Phosphorus	31-2	828.01	825.32	843.63	832.32	1.19	ppb
Potassium	39-2	1258.57	1242.61	1242.00	1247.73	0.75	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	20.06	20.34	19.52	19.97	2.10	ppb
Selenium	77-2	35.10	29.22	34.01	32.78	9.54	ppb
Selenium	78-2	20.97	23.95	25.11	23.34	9.15	ppb
Silicon	28-1	15.87	15.02	20.23	17.04	16.39	ppb
Silver	107-1	11.61	11.62	11.63	11.62	0.09	ppb
Silver	109-1	11.92	11.83	11.94	11.90	0.52	ppb
Sodium	23-2	9760.85	9585.76	9629.53	9658.71	0.94	ppb
Strontium	86-1	1071.32	1063.58	1033.64	1056.18	1.88	ppb
Strontium	88-1	1149.38	1092.75	1077.42	1106.52	3.43	ppb
Sulfur	34-1	5606.01	5260.08	5260.72	5375.60	3.71	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	10.06	9.94	9.83	9.94	1.12	ppb
Thallium	205-1	9.97	9.97	9.86	9.93	0.64	ppb
Tin	118-1	7.92	7.87	8.05	7.94	1.17	ppb
Titanium	47-1	496.68	477.06	481.28	485.01	2.13	ppb
Uranium	238-1	2.30	2.30	2.26	2.28	1.02	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	129.58	130.25	129.29	129.71	0.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				110		%
Zinc	66-2	410.15	412.89	405.41	409.48	0.92	ppb
Zirconium	90-1	3.14	3.06	2.96	3.05	2.98	ppb
Zirconium	91-1	3.10	3.07	2.89	3.02	3.78	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48849.96	48397.62	48522.95	48590.17	0.48	ppb
Antimony	121-1	567.96	496.54	489.91	518.14	8.35	ppb
Arsenic	75-2	482.79	479.52	490.27	484.19	1.14	ppb
Barium	135-1	2870.38	2479.11	2459.56	2603.01	8.90	ppb
Barium	137-1	2841.47	2489.08	2461.73	2597.43	8.15	ppb
Beryllium	9-1	611.33	519.62	508.51	546.49	10.33	ppb
Bismuth	209-1				83		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	572.13	498.54	484.29	518.32	9.10	ppb
Cadmium	106-1	578.79	506.53	492.91	526.08	8.77	ppb
Cadmium	111-1	560.70	487.53	483.11	510.45	8.54	ppb
Calcium	43-1	285041.02	244500.01	241763.59	257101.54	9.43	ppb
Calcium	44-1	282378.50	241092.00	241286.47	254918.99	9.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	493.59	487.25	488.35	489.73	0.69	ppb
Cobalt	59-2	489.35	475.20	477.58	480.71	1.58	ppb
Copper	63-2	4693.76	4576.94	4594.63	4621.78	1.36	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				93		%
Holmium	165-2				96		%
Indium	115-1				88		%
Indium	115-2				90		%
Iron	54-2	124598.45	123875.55	121573.05	123349.02	1.28	ppb
Iron	56-2	123330.07	122458.13	120666.81	122151.67	1.11	ppb
Iron	57-2	123794.90	121368.73	121570.46	122244.70	1.10	ppb
Krypton	83-1						cps
Lead	206-1	2948.71	2530.29	2455.99	2645.00	10.04	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2915.82	2512.62	2500.46	2642.97	8.94	ppb
Lead	208-1	2896.53	2492.95	2470.44	2619.97	9.15	ppb
Lithium	6-1				79		%
Magnesium	24-2	251568.72	250020.73	248297.18	249962.21	0.65	ppb
Manganese	55-2	4858.22	4863.85	4798.52	4840.19	0.75	ppb
Molybdenum	94-1	5623.38	4924.83	4889.53	5145.91	8.04	ppb
Molybdenum	95-1	5546.37	4887.82	4828.01	5087.40	7.84	ppb
Molybdenum	96-1	5576.53	4872.56	4803.37	5084.15	8.41	ppb
Molybdenum	97-1	5709.62	4881.99	4897.61	5163.07	9.17	ppb
Molybdenum	98-1	5583.63	4839.22	4819.59	5080.81	8.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	517.82	506.74	506.51	510.36	1.27	ppb
Phosphorus	31-2	10198.68	9688.42	9752.53	9879.88	2.81	ppb
Potassium	39-2	123583.35	119962.06	123461.15	122335.52	1.68	ppb
Rhodium	103-1				83		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				94		%
Selenium	82-1	548.43	474.45	476.19	499.69	8.45	ppb
Selenium	77-2	479.29	479.73	487.55	482.19	0.96	ppb
Selenium	78-2	468.17	489.49	476.39	478.02	2.25	ppb
Silicon	28-1	582.21	507.39	491.38	526.99	9.20	ppb
Silver	107-1	560.61	490.09	478.79	509.83	8.70	ppb
Silver	109-1	558.46	478.80	467.48	501.58	9.89	ppb
Sodium	23-2	251705.58	251975.13	246842.51	250174.40	1.15	ppb
Strontium	86-1	14336.36	12288.09	12149.92	12924.79	9.47	ppb
Strontium	88-1	14045.95	12257.17	12102.48	12801.87	8.44	ppb
Sulfur	34-1	14011.19	11307.28	10754.20	12024.22	14.49	ppb
Terbium	159-1				91		%
Terbium	159-2				95		%
Thallium	203-1	594.71	497.87	492.03	528.20	10.92	ppb
Thallium	205-1	585.51	497.42	488.36	523.76	10.25	ppb
Tin	118-1	574.49	499.06	491.54	521.70	8.79	ppb
Titanium	47-1	5713.90	4914.15	4878.90	5168.98	9.14	ppb
Uranium	238-1	590.39	509.79	502.75	534.31	9.11	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	497.77	488.96	481.91	489.54	1.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				96		%
Zinc	66-2	4980.48	5015.22	4983.63	4993.11	0.38	ppb
Zirconium	90-1	577.29	501.67	494.18	524.38	8.77	ppb
Zirconium	91-1	565.89	501.73	489.31	518.97	7.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.71	0.58	0.90	0.73	22.02	ppb
Antimony	121-1	0.15	0.13	0.11	0.13	16.40	ppb
Arsenic	75-2	0.04	0.01	0.02	0.02	64.46	ppb
Barium	135-1	0.08	0.04	0.03	0.05	46.06	ppb
Barium	137-1	0.06	0.04	0.04	0.05	25.22	ppb
Beryllium	9-1	0.12	0.11	0.09	0.11	17.89	ppb
Bismuth	209-1				102		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.03	0.02	0.05	85.22	ppb
Cadmium	106-1	0.07	0.33	0.28	0.23	60.69	ppb
Cadmium	111-1	0.04	0.06	0.05	0.05	13.67	ppb
Calcium	43-1	13.59	7.93	5.52	9.01	45.99	ppb
Calcium	44-1	13.06	9.68	8.77	10.50	21.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.09	0.10	0.07	0.08	19.78	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	23.49	ppb
Copper	63-2	0.41	0.35	0.37	0.38	8.65	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				102		%
Holmium	165-2				91		%
Indium	115-1				104		%
Indium	115-2				92		%
Iron	54-2	2.42	3.26	2.32	2.67	19.27	ppb
Iron	56-2	2.29	2.57	2.50	2.45	6.03	ppb
Iron	57-2	2.66	1.72	0.98	1.79	47.31	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.17	0.14	0.17	18.34	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.16	0.14	0.17	17.49	ppb
Lead	208-1	0.19	0.16	0.14	0.17	16.35	ppb
Lithium	6-1				93		%
Magnesium	24-2	0.99	1.62	0.38	0.99	62.48	ppb
Manganese	55-2	0.11	0.11	0.08	0.10	21.82	ppb
Molybdenum	94-1	0.40	0.30	0.23	0.31	27.02	ppb
Molybdenum	95-1	0.43	0.31	0.21	0.32	33.60	ppb
Molybdenum	96-1	0.42	0.28	0.22	0.31	32.11	ppb
Molybdenum	97-1	0.39	0.29	0.22	0.30	28.29	ppb
Molybdenum	98-1	0.40	0.26	0.21	0.29	33.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	-0.01	0.04	0.02	128.40	ppb
Phosphorus	31-2	-8.94	-10.18	-9.86	-9.66		ppb
Potassium	39-2	50.49	50.22	48.04	49.58	2.71	ppb
Rhodium	103-1				103		%
Rhodium	103-2				94		%
Scandium	45-1				103		%
Scandium	45-2				91		%
Selenium	82-1	-0.15	0.13	-0.24	-0.09		ppb
Selenium	77-2	0.42	0.41	-0.19	0.21	162.15	ppb
Selenium	78-2	-0.01	-0.02	-0.02	-0.02		ppb
Silicon	28-1	0.14	0.02	0.03	0.06	103.53	ppb
Silver	107-1	0.09	0.08	0.06	0.08	14.54	ppb
Silver	109-1	0.09	0.21	0.07	0.12	63.36	ppb
Sodium	23-2	157.18	150.88	151.28	153.11	2.30	ppb
Strontium	86-1	0.40	0.39	0.21	0.33	32.99	ppb
Strontium	88-1	0.42	0.27	0.29	0.33	25.27	ppb
Sulfur	34-1	-152.13	-304.37	-229.79	-228.76		ppb
Terbium	159-1				101		%
Terbium	159-2				91		%
Thallium	203-1	0.09	0.07	0.07	0.07	13.90	ppb
Thallium	205-1	0.08	0.07	0.06	0.07	10.21	ppb
Tin	118-1	0.05	0.06	0.04	0.05	13.46	ppb
Titanium	47-1	0.22	0.17	0.13	0.18	26.73	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	35.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	19.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				94		%
Zinc	66-2	0.44	0.60	0.55	0.53	15.35	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	30.11	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	29.05	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9088.34	9181.19	8983.47	9084.33	1.09	ppb
Antimony	121-1	20.21	21.20	20.68	20.70	2.38	ppb
Arsenic	75-2	76.90	76.20	76.23	76.44	0.52	ppb
Barium	135-1	34.01	35.00	34.17	34.39	1.55	ppb
Barium	137-1	34.44	35.66	35.29	35.13	1.79	ppb
Beryllium	9-1	0.44	0.44	0.44	0.44	0.42	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.33	1.83	1.30	1.49	20.06	ppb
Cadmium	106-1	0.21	1.11	1.16	0.83	64.34	ppb
Cadmium	111-1	0.63	0.72	0.69	0.68	7.14	ppb
Calcium	43-1	4097.59	4229.58	4204.71	4177.29	1.68	ppb
Calcium	44-1	4165.57	4346.78	4276.22	4262.86	2.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.63	25.35	24.55	24.84	1.78	ppb
Cobalt	59-2	8.14	8.21	8.14	8.16	0.46	ppb
Copper	63-2	924.16	922.11	921.18	922.48	0.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	54-2	19589.50	19577.81	19260.65	19475.99	0.96	ppb
Iron	56-2	18965.95	19476.13	18692.13	19044.73	2.09	ppb
Iron	57-2	19866.71	19531.39	19378.92	19592.34	1.27	ppb
Krypton	83-1						cps
Lead	206-1	169.11	171.40	176.91	172.47	2.33	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	170.63	169.65	174.57	171.62	1.52	ppb
Lead	208-1	167.19	168.49	172.31	169.33	1.57	ppb
Lithium	6-1				87		%
Magnesium	24-2	4170.97	4246.82	4176.36	4198.05	1.01	ppb
Manganese	55-2	125.01	125.81	123.94	124.92	0.75	ppb
Molybdenum	94-1	16.33	16.44	16.62	16.46	0.89	ppb
Molybdenum	95-1	4.83	4.78	4.86	4.82	0.83	ppb
Molybdenum	96-1	6.20	6.01	5.90	6.04	2.46	ppb
Molybdenum	97-1	4.86	4.97	4.84	4.89	1.43	ppb
Molybdenum	98-1	4.76	4.86	4.79	4.80	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.57	25.76	25.56	25.63	0.44	ppb
Phosphorus	31-2	703.35	754.70	755.22	737.75	4.04	ppb
Potassium	39-2	930.70	934.00	921.86	928.85	0.68	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	1.13	0.84	0.52	0.83	36.45	ppb
Selenium	77-2	13.59	15.47	18.72	15.93	16.29	ppb
Selenium	78-2	2.21	3.15	4.14	3.17	30.47	ppb
Silicon	28-1	20.66	30.50	22.24	24.47	21.62	ppb
Silver	107-1	1.73	1.80	1.74	1.76	2.24	ppb
Silver	109-1	1.77	1.80	1.76	1.78	1.10	ppb
Sodium	23-2	1765.03	1813.30	1773.84	1784.06	1.44	ppb
Strontium	86-1	905.77	922.16	920.26	916.06	0.98	ppb
Strontium	88-1	946.71	979.30	953.44	959.81	1.79	ppb
Sulfur	34-1	8447.02	8816.15	9145.56	8802.91	3.97	ppb
Terbium	159-1				96		%
Terbium	159-2				96		%
Thallium	203-1	0.22	0.21	0.21	0.21	4.11	ppb
Thallium	205-1	0.22	0.21	0.21	0.21	2.81	ppb
Tin	118-1	9.18	9.46	9.33	9.32	1.50	ppb
Titanium	47-1	622.13	642.55	641.92	635.53	1.83	ppb
Uranium	238-1	1.62	1.64	1.66	1.64	1.26	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.57	50.73	50.96	51.09	0.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	207.73	207.74	204.91	206.79	0.79	ppb
Zirconium	90-1	6.81	6.82	6.88	6.84	0.53	ppb
Zirconium	91-1	6.86	6.86	6.81	6.84	0.36	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9743.73	9702.80	9485.52	9644.01	1.44	ppb
Antimony	121-1	22.64	23.23	22.65	22.84	1.48	ppb
Arsenic	75-2	85.25	82.65	84.81	84.24	1.65	ppb
Barium	135-1	37.23	38.48	37.00	37.57	2.11	ppb
Barium	137-1	37.30	39.17	37.94	38.14	2.50	ppb
Beryllium	9-1	0.46	0.45	0.44	0.45	1.76	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.54	1.82	1.67	1.68	8.26	ppb
Cadmium	106-1	0.89	3.36	2.15	2.13	57.87	ppb
Cadmium	111-1	0.70	0.92	0.79	0.81	13.44	ppb
Calcium	43-1	4430.05	4360.49	4348.18	4379.57	1.01	ppb
Calcium	44-1	4537.21	4345.62	4443.35	4442.06	2.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.97	26.71	26.37	26.68	1.12	ppb
Cobalt	59-2	8.98	8.61	8.93	8.84	2.24	ppb
Copper	63-2	1013.02	990.86	985.84	996.57	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				104		%
Holmium	165-2				103		%
Indium	115-1				108		%
Indium	115-2				104		%
Iron	54-2	21157.15	20657.96	20378.95	20731.35	1.90	ppb
Iron	56-2	20557.38	20303.02	20265.40	20375.26	0.78	ppb
Iron	57-2	21298.61	20779.53	20835.82	20971.32	1.36	ppb
Krypton	83-1						cps
Lead	206-1	189.35	191.13	185.94	188.81	1.40	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	189.13	185.71	182.65	185.83	1.74	ppb
Lead	208-1	184.25	185.10	180.49	183.28	1.34	ppb
Lithium	6-1				94		%
Magnesium	24-2	4458.74	4238.65	4329.83	4342.41	2.55	ppb
Manganese	55-2	134.77	133.67	133.35	133.93	0.55	ppb
Molybdenum	94-1	17.57	17.79	17.52	17.63	0.80	ppb
Molybdenum	95-1	5.14	5.18	5.17	5.17	0.40	ppb
Molybdenum	96-1	6.57	6.56	6.46	6.53	0.92	ppb
Molybdenum	97-1	5.21	5.36	5.25	5.28	1.48	ppb
Molybdenum	98-1	5.13	5.19	5.22	5.18	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.06	26.69	27.01	26.92	0.75	ppb
Phosphorus	31-2	840.79	790.57	745.23	792.20	6.03	ppb
Potassium	39-2	990.15	986.18	969.66	982.00	1.11	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				108		%
Selenium	82-1	0.91	0.76	0.80	0.82	9.25	ppb
Selenium	77-2	18.48	18.23	18.71	18.47	1.29	ppb
Selenium	78-2	5.86	4.06	2.75	4.22	36.90	ppb
Silicon	28-1	23.26	21.44	22.18	22.29	4.11	ppb
Silver	107-1	1.81	1.87	1.84	1.84	1.65	ppb
Silver	109-1	1.82	1.89	1.85	1.85	2.00	ppb
Sodium	23-2	1917.75	1893.63	1923.81	1911.73	0.84	ppb
Strontium	86-1	981.24	997.51	969.97	982.91	1.41	ppb
Strontium	88-1	1029.05	1021.74	1010.98	1020.59	0.89	ppb
Sulfur	34-1	8693.31	8828.52	8689.76	8737.20	0.91	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.19	0.17	0.17	0.18	6.51	ppb
Thallium	205-1	0.18	0.18	0.19	0.18	1.24	ppb
Tin	118-1	10.35	10.75	10.41	10.50	2.05	ppb
Titanium	47-1	685.80	679.57	667.78	677.71	1.35	ppb
Uranium	238-1	1.75	1.79	1.74	1.76	1.44	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	55.26	54.78	54.15	54.73	1.02	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				110		%
Zinc	66-2	226.22	221.64	220.64	222.83	1.34	ppb
Zirconium	90-1	7.33	7.36	7.30	7.33	0.40	ppb
Zirconium	91-1	7.22	7.28	7.23	7.24	0.43	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1901.94	1941.37	1951.28	1931.53	1.35	ppb
Antimony	121-1	4.09	4.12	4.17	4.12	0.91	ppb
Arsenic	75-2	16.18	15.56	17.09	16.27	4.73	ppb
Barium	135-1	6.88	6.93	7.07	6.96	1.37	ppb
Barium	137-1	6.94	7.08	7.08	7.03	1.15	ppb
Beryllium	9-1	0.11	0.11	0.10	0.11	5.83	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.24	0.32	0.32	28.43	ppb
Cadmium	106-1	-0.85	0.13	-0.11	-0.28		ppb
Cadmium	111-1	0.06	0.13	0.12	0.10	34.52	ppb
Calcium	43-1	826.66	813.49	827.79	822.65	0.97	ppb
Calcium	44-1	858.51	830.58	841.31	843.47	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.22	5.23	5.18	5.21	0.55	ppb
Cobalt	59-2	1.74	1.69	1.76	1.73	1.83	ppb
Copper	63-2	185.53	186.96	189.53	187.34	1.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				99		%
Indium	115-1				107		%
Indium	115-2				99		%
Iron	54-2	3957.93	4008.76	4099.60	4022.10	1.78	ppb
Iron	56-2	3948.56	4010.06	4073.94	4010.85	1.56	ppb
Iron	57-2	3873.50	3923.40	3973.70	3923.54	1.28	ppb
Krypton	83-1						cps
Lead	206-1	32.77	32.18	32.69	32.55	0.98	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	32.78	32.72	32.02	32.51	1.29	ppb
Lead	208-1	32.44	32.13	31.94	32.17	0.79	ppb
Lithium	6-1				90		%
Magnesium	24-2	837.18	857.30	867.71	854.07	1.82	ppb
Manganese	55-2	25.89	26.26	27.11	26.42	2.36	ppb
Molybdenum	94-1	3.12	3.15	3.26	3.18	2.46	ppb
Molybdenum	95-1	0.92	0.94	0.99	0.95	3.57	ppb
Molybdenum	96-1	1.18	1.19	1.25	1.20	3.00	ppb
Molybdenum	97-1	0.93	0.98	1.00	0.97	3.83	ppb
Molybdenum	98-1	0.90	0.94	0.97	0.94	3.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.45	5.33	5.50	5.43	1.66	ppb
Phosphorus	31-2	150.54	142.29	129.78	140.87	7.42	ppb
Potassium	39-2	223.47	226.36	232.77	227.53	2.09	ppb
Rhodium	103-1				106		%
Rhodium	103-2				100		%
Scandium	45-1				110		%
Scandium	45-2				103		%
Selenium	82-1	0.08	-0.13	0.07	0.01	2031.85	ppb
Selenium	77-2	2.55	2.54	2.05	2.38	11.89	ppb
Selenium	78-2	0.58	0.58	1.46	0.87	58.61	ppb
Silicon	28-1	3.18	3.70	4.85	3.91	21.88	ppb
Silver	107-1	0.33	0.33	0.35	0.34	4.45	ppb
Silver	109-1	0.34	0.33	0.35	0.34	2.42	ppb
Sodium	23-2	448.13	453.48	457.50	453.04	1.04	ppb
Strontium	86-1	179.40	180.21	189.87	183.16	3.18	ppb
Strontium	88-1	179.03	182.89	185.21	182.37	1.71	ppb
Sulfur	34-1	834.67	979.78	1077.27	963.91	12.66	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.04	0.04	0.04	0.04	5.32	ppb
Thallium	205-1	0.05	0.05	0.04	0.04	3.05	ppb
Tin	118-1	1.77	1.81	1.84	1.81	2.07	ppb
Titanium	47-1	123.46	124.75	123.19	123.80	0.67	ppb
Uranium	238-1	0.33	0.33	0.32	0.33	2.30	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.58	10.58	10.93	10.70	1.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				103		%
Zinc	66-2	41.49	42.68	43.99	42.72	2.93	ppb
Zirconium	90-1	1.29	1.31	1.32	1.30	1.16	ppb
Zirconium	91-1	1.27	1.23	1.36	1.29	4.87	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9479.03	9731.05	9605.86	9605.31	1.31	ppb
Antimony	121-1	40.66	43.69	40.69	41.68	4.18	ppb
Arsenic	75-2	86.27	87.76	90.56	88.19	2.47	ppb
Barium	135-1	448.90	469.17	435.75	451.27	3.73	ppb
Barium	137-1	441.23	470.42	434.14	448.60	4.29	ppb
Beryllium	9-1	9.96	10.49	9.96	10.14	3.01	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	9.80	9.95	9.65	9.80	1.55	ppb
Cadmium	106-1	9.05	10.84	9.84	9.91	9.05	ppb
Cadmium	111-1	10.80	11.41	10.80	11.00	3.19	ppb
Calcium	43-1	4015.05	4373.84	4076.57	4155.15	4.62	ppb
Calcium	44-1	4183.32	4399.01	4128.71	4237.01	3.37	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	64.39	66.15	65.51	65.35	1.36	ppb
Cobalt	59-2	109.25	111.92	111.09	110.75	1.23	ppb
Copper	63-2	992.12	1003.88	987.27	994.42	0.86	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				107		%
Indium	115-2				103		%
Iron	54-2	20275.09	20050.01	20237.27	20187.46	0.60	ppb
Iron	56-2	19687.36	20169.37	19735.46	19864.07	1.34	ppb
Iron	57-2	20198.85	20696.29	20252.93	20382.69	1.34	ppb
Krypton	83-1						cps
Lead	206-1	177.54	183.13	178.64	179.77	1.65	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	174.08	181.79	173.45	176.44	2.63	ppb
Lead	208-1	173.44	180.69	172.12	175.42	2.63	ppb
Lithium	6-1				90		%
Magnesium	24-2	4230.29	4270.69	4234.27	4245.08	0.52	ppb
Manganese	55-2	220.73	227.60	224.40	224.24	1.53	ppb
Molybdenum	94-1	16.13	17.88	16.25	16.75	5.84	ppb
Molybdenum	95-1	4.64	5.11	4.66	4.80	5.53	ppb
Molybdenum	96-1	5.91	6.36	5.95	6.07	4.16	ppb
Molybdenum	97-1	4.77	5.10	4.72	4.86	4.30	ppb
Molybdenum	98-1	4.65	5.01	4.67	4.78	4.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	127.33	129.22	127.78	128.11	0.77	ppb
Phosphorus	31-2	706.27	786.31	757.11	749.90	5.40	ppb
Potassium	39-2	930.74	956.92	945.21	944.29	1.39	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				112		%
Scandium	45-2				107		%
Selenium	82-1	19.51	22.61	19.98	20.70	8.08	ppb
Selenium	77-2	30.61	25.60	31.95	29.39	11.39	ppb
Selenium	78-2	23.39	25.75	24.76	24.63	4.82	ppb
Silicon	28-1	18.87	22.16	20.59	20.54	8.02	ppb
Silver	107-1	11.70	12.71	11.77	12.06	4.67	ppb
Silver	109-1	11.92	12.69	11.99	12.20	3.50	ppb
Sodium	23-2	1782.78	1839.34	1805.17	1809.10	1.57	ppb
Strontium	86-1	893.23	973.25	905.50	923.99	4.66	ppb
Strontium	88-1	943.38	1016.18	937.64	965.74	4.53	ppb
Sulfur	34-1	7603.46	9150.03	7578.68	8110.72	11.10	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	9.45	9.78	9.23	9.48	2.92	ppb
Thallium	205-1	9.45	9.82	9.36	9.54	2.56	ppb
Tin	118-1	9.27	10.07	9.44	9.59	4.37	ppb
Titanium	47-1	622.30	664.14	620.15	635.53	3.90	ppb
Uranium	238-1	1.65	1.74	1.63	1.67	3.43	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	147.73	151.80	150.72	150.08	1.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	309.65	313.68	314.19	312.51	0.80	ppb
Zirconium	90-1	6.73	7.25	6.73	6.90	4.40	ppb
Zirconium	91-1	6.53	7.21	6.72	6.82	5.16	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13851.01	13499.82	13612.72	13654.52	1.31	ppb
Antimony	121-1	45.73	48.26	47.72	47.24	2.83	ppb
Arsenic	75-2	183.64	183.55	181.15	182.78	0.77	ppb
Barium	135-1	66.65	69.68	69.32	68.55	2.42	ppb
Barium	137-1	68.14	70.89	71.12	70.05	2.37	ppb
Beryllium	9-1	0.48	0.49	0.50	0.49	2.14	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	2.09	2.34	2.10	2.18	6.38	ppb
Cadmium	106-1	1.45	2.58	1.93	1.99	28.66	ppb
Cadmium	111-1	1.60	1.73	1.71	1.68	4.18	ppb
Calcium	43-1	7497.64	7700.62	7670.57	7622.94	1.44	ppb
Calcium	44-1	7569.80	7793.17	7697.23	7686.73	1.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46.53	46.39	47.04	46.65	0.73	ppb
Cobalt	59-2	13.30	13.02	13.20	13.17	1.09	ppb
Copper	63-2	2080.02	2096.46	2107.68	2094.72	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	54-2	27403.52	26764.75	26742.24	26970.17	1.39	ppb
Iron	56-2	26635.23	26884.81	26852.29	26790.78	0.51	ppb
Iron	57-2	27162.43	26709.88	27109.73	26994.01	0.92	ppb
Krypton	83-1						cps
Lead	206-1	412.79	409.86	419.83	414.16	1.24	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	404.80	407.02	412.93	408.25	1.03	ppb
Lead	208-1	400.95	402.65	410.33	404.64	1.23	ppb
Lithium	6-1				90		%
Magnesium	24-2	7521.13	7481.40	7440.21	7480.91	0.54	ppb
Manganese	55-2	181.90	180.44	181.50	181.28	0.42	ppb
Molybdenum	94-1	10.99	11.45	11.47	11.30	2.41	ppb
Molybdenum	95-1	4.48	4.46	4.57	4.50	1.34	ppb
Molybdenum	96-1	5.19	5.35	5.27	5.27	1.45	ppb
Molybdenum	97-1	4.45	4.46	4.56	4.49	1.38	ppb
Molybdenum	98-1	4.41	4.46	4.49	4.45	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	55.16	54.04	56.11	55.10	1.89	ppb
Phosphorus	31-2	989.05	1036.06	978.45	1001.19	3.06	ppb
Potassium	39-2	2444.00	2409.83	2458.17	2437.33	1.02	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				113		%
Scandium	45-2				108		%
Selenium	82-1	2.31	2.07	2.06	2.14	6.62	ppb
Selenium	77-2	18.84	13.04	12.74	14.88	23.12	ppb
Selenium	78-2	5.65	4.07	4.74	4.82	16.48	ppb
Silicon	28-1	38.89	36.33	32.15	35.79	9.51	ppb
Silver	107-1	12.86	13.68	13.41	13.32	3.15	ppb
Silver	109-1	13.15	13.67	13.69	13.50	2.28	ppb
Sodium	23-2	18623.14	18645.79	18811.25	18693.39	0.55	ppb
Strontium	86-1	1890.62	1925.58	1955.14	1923.78	1.68	ppb
Strontium	88-1	1961.21	1968.14	1986.09	1971.81	0.65	ppb
Sulfur	34-1	10273.84	10719.45	10974.37	10655.89	3.33	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.31	0.32	0.32	0.32	1.34	ppb
Thallium	205-1	0.31	0.32	0.32	0.32	0.92	ppb
Tin	118-1	20.33	21.36	21.05	20.91	2.54	ppb
Titanium	47-1	574.03	589.93	587.69	583.88	1.47	ppb
Uranium	238-1	1.17	1.21	1.23	1.20	2.42	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	47.59	46.81	47.80	47.40	1.10	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				110		%
Zinc	66-2	459.99	451.70	456.69	456.13	0.91	ppb
Zirconium	90-1	4.10	4.18	4.26	4.18	1.82	ppb
Zirconium	91-1	4.13	4.24	4.22	4.20	1.44	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13629.65	13316.80	13590.12	13512.19	1.26	ppb
Antimony	121-1	49.43	49.19	49.33	49.31	0.24	ppb
Arsenic	75-2	174.68	179.28	179.73	177.90	1.57	ppb
Barium	135-1	68.94	67.62	67.52	68.03	1.16	ppb
Barium	137-1	68.70	68.30	69.09	68.70	0.58	ppb
Beryllium	9-1	0.48	0.48	0.47	0.47	0.25	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.00	2.21	2.04	2.08	5.35	ppb
Cadmium	106-1	2.57	3.13	2.16	2.62	18.65	ppb
Cadmium	111-1	1.72	1.71	1.67	1.70	1.68	ppb
Calcium	43-1	7826.53	7385.25	7586.70	7599.50	2.91	ppb
Calcium	44-1	7854.38	7629.70	7645.45	7709.84	1.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	45.56	46.03	46.07	45.89	0.61	ppb
Cobalt	59-2	12.86	12.60	13.08	12.84	1.89	ppb
Copper	63-2	2116.37	2101.10	2130.86	2116.11	0.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	26442.96	25900.05	26306.17	26216.39	1.08	ppb
Iron	56-2	25964.72	26292.16	26246.50	26167.79	0.68	ppb
Iron	57-2	26492.88	26496.99	26292.45	26427.44	0.44	ppb
Krypton	83-1						cps
Lead	206-1	493.89	481.69	494.79	490.12	1.49	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	490.23	473.20	496.51	486.65	2.48	ppb
Lead	208-1	488.23	475.60	490.10	484.65	1.63	ppb
Lithium	6-1				89		%
Magnesium	24-2	7552.42	7464.55	7399.71	7472.23	1.03	ppb
Manganese	55-2	174.54	176.26	177.27	176.02	0.79	ppb
Molybdenum	94-1	11.16	10.90	11.17	11.08	1.39	ppb
Molybdenum	95-1	4.37	4.19	4.36	4.31	2.30	ppb
Molybdenum	96-1	5.14	4.99	5.12	5.09	1.66	ppb
Molybdenum	97-1	4.40	4.30	4.35	4.35	1.14	ppb
Molybdenum	98-1	4.25	4.20	4.27	4.24	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.15	53.22	53.92	53.43	0.79	ppb
Phosphorus	31-2	961.08	949.53	925.10	945.24	1.94	ppb
Potassium	39-2	2356.20	2342.52	2372.66	2357.13	0.64	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				113		%
Scandium	45-2				107		%
Selenium	82-1	2.18	2.49	1.91	2.20	13.26	ppb
Selenium	77-2	21.77	18.69	10.90	17.12	32.72	ppb
Selenium	78-2	5.29	4.02	4.06	4.46	16.23	ppb
Silicon	28-1	32.59	34.29	30.62	32.50	5.64	ppb
Silver	107-1	13.16	12.95	13.15	13.09	0.88	ppb
Silver	109-1	13.25	13.16	13.21	13.20	0.33	ppb
Sodium	23-2	18361.74	18414.30	18427.53	18401.19	0.19	ppb
Strontium	86-1	1929.21	1820.39	1872.30	1873.97	2.90	ppb
Strontium	88-1	1981.00	1890.65	1926.93	1932.86	2.35	ppb
Sulfur	34-1	10449.22	9969.86	10450.75	10289.95	2.69	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.31	0.30	0.30	0.30	1.21	ppb
Thallium	205-1	0.30	0.30	0.31	0.30	1.93	ppb
Tin	118-1	20.87	20.73	20.92	20.84	0.48	ppb
Titanium	47-1	583.81	552.05	561.54	565.80	2.88	ppb
Uranium	238-1	1.19	1.16	1.20	1.19	1.75	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.92	45.48	46.30	45.90	0.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				109		%
Zinc	66-2	446.05	450.65	449.20	448.63	0.52	ppb
Zirconium	90-1	4.20	4.07	4.13	4.13	1.57	ppb
Zirconium	91-1	4.14	4.07	4.11	4.11	0.91	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2810.73	2752.31	2752.19	2771.74	1.22	ppb
Antimony	121-1	9.41	9.64	10.21	9.76	4.22	ppb
Arsenic	75-2	35.87	36.26	37.97	36.70	3.05	ppb
Barium	135-1	13.80	14.10	14.89	14.26	3.96	ppb
Barium	137-1	13.93	14.36	15.10	14.47	4.10	ppb
Beryllium	9-1	0.11	0.11	0.13	0.12	8.20	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.39	0.43	0.49	0.44	11.40	ppb
Cadmium	106-1	-0.17	-0.15	-0.05	-0.13		ppb
Cadmium	111-1	0.30	0.29	0.35	0.31	11.10	ppb
Calcium	43-1	1492.76	1557.48	1639.56	1563.26	4.71	ppb
Calcium	44-1	1567.79	1584.15	1711.98	1621.31	4.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.56	9.81	9.67	9.68	1.34	ppb
Cobalt	59-2	2.74	2.76	2.81	2.77	1.24	ppb
Copper	63-2	443.43	451.17	447.07	447.22	0.87	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				101		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	54-2	5448.69	5476.09	5479.65	5468.14	0.31	ppb
Iron	56-2	5579.30	5583.99	5574.24	5579.18	0.09	ppb
Iron	57-2	5409.36	5487.71	5384.80	5427.29	0.99	ppb
Krypton	83-1						cps
Lead	206-1	78.52	80.00	86.82	81.78	5.41	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	79.08	80.66	88.18	82.64	5.89	ppb
Lead	208-1	81.01	82.66	88.34	84.00	4.58	ppb
Lithium	6-1				89		%
Magnesium	24-2	1543.68	1552.57	1535.25	1543.83	0.56	ppb
Manganese	55-2	37.62	37.68	37.73	37.68	0.14	ppb
Molybdenum	94-1	2.10	2.20	2.34	2.21	5.33	ppb
Molybdenum	95-1	0.89	0.92	0.98	0.93	4.93	ppb
Molybdenum	96-1	1.02	1.04	1.11	1.06	4.80	ppb
Molybdenum	97-1	0.91	0.99	0.98	0.96	4.68	ppb
Molybdenum	98-1	0.89	0.91	0.98	0.93	5.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.08	11.50	11.64	11.41	2.55	ppb
Phosphorus	31-2	183.87	196.54	205.69	195.37	5.61	ppb
Potassium	39-2	538.77	527.88	531.72	532.79	1.04	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	0.23	0.31	0.30	0.28	14.99	ppb
Selenium	77-2	4.65	6.30	1.47	4.14	59.30	ppb
Selenium	78-2	1.37	1.38	1.09	1.28	12.73	ppb
Silicon	28-1	6.23	6.38	6.66	6.42	3.39	ppb
Silver	107-1	2.71	2.73	2.89	2.78	3.51	ppb
Silver	109-1	2.65	2.79	2.97	2.80	5.85	ppb
Sodium	23-2	4094.83	4041.67	4067.11	4067.87	0.65	ppb
Strontium	86-1	379.93	392.63	416.26	396.27	4.65	ppb
Strontium	88-1	382.44	386.51	421.01	396.65	5.34	ppb
Sulfur	34-1	1118.55	1549.88	2046.12	1571.52	29.54	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.07	0.07	0.08	0.07	11.09	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	2.23	ppb
Tin	118-1	4.19	4.25	4.50	4.31	3.85	ppb
Titanium	47-1	110.75	115.07	122.26	116.03	5.01	ppb
Uranium	238-1	0.23	0.25	0.26	0.25	5.89	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.72	9.48	9.64	9.61	1.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	93.76	95.50	95.17	94.81	0.97	ppb
Zirconium	90-1	0.76	0.78	0.84	0.80	5.33	ppb
Zirconium	91-1	0.79	0.80	0.83	0.81	2.22	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13805.74	13396.15	13473.66	13558.52	1.60	ppb
Antimony	121-1	69.46	65.34	67.31	67.37	3.06	ppb
Arsenic	75-2	181.39	184.89	183.72	183.33	0.97	ppb
Barium	135-1	488.61	455.93	464.34	469.62	3.61	ppb
Barium	137-1	482.43	448.86	453.03	461.44	3.97	ppb
Beryllium	9-1	9.95	9.39	9.68	9.67	2.92	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	10.00	9.96	10.40	10.12	2.40	ppb
Cadmium	106-1	10.27	9.22	9.74	9.75	5.39	ppb
Cadmium	111-1	11.62	11.15	11.23	11.33	2.23	ppb
Calcium	43-1	7712.59	7403.03	7455.70	7523.77	2.20	ppb
Calcium	44-1	7882.38	7417.00	7665.36	7654.91	3.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	83.10	83.14	82.54	82.93	0.40	ppb
Cobalt	59-2	110.61	109.67	108.69	109.66	0.88	ppb
Copper	63-2	2158.40	2142.84	2124.31	2141.85	0.80	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				104		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	54-2	26402.07	26327.51	26264.22	26331.27	0.26	ppb
Iron	56-2	25998.63	25954.89	25770.07	25907.87	0.47	ppb
Iron	57-2	26388.20	26494.70	25925.36	26269.42	1.15	ppb
Krypton	83-1						cps
Lead	206-1	483.84	461.61	471.31	472.25	2.36	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	484.91	461.06	480.49	475.49	2.67	ppb
Lead	208-1	483.32	457.06	471.98	470.79	2.80	ppb
Lithium	6-1				89		%
Magnesium	24-2	7504.21	7385.95	7148.88	7346.35	2.46	ppb
Manganese	55-2	267.59	267.39	262.86	265.95	1.01	ppb
Molybdenum	94-1	11.17	10.67	10.89	10.91	2.30	ppb
Molybdenum	95-1	4.36	4.26	4.25	4.29	1.36	ppb
Molybdenum	96-1	5.07	5.00	5.04	5.04	0.68	ppb
Molybdenum	97-1	4.45	4.29	4.39	4.38	1.81	ppb
Molybdenum	98-1	4.33	4.20	4.25	4.26	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	148.96	149.03	147.40	148.46	0.62	ppb
Phosphorus	31-2	941.74	920.29	913.08	925.04	1.61	ppb
Potassium	39-2	2343.74	2318.93	2307.68	2323.45	0.79	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	21.25	21.58	21.22	21.35	0.94	ppb
Selenium	77-2	35.07	37.13	36.05	36.08	2.86	ppb
Selenium	78-2	24.47	24.48	22.53	23.83	4.72	ppb
Silicon	28-1	33.73	31.63	29.93	31.76	5.98	ppb
Silver	107-1	23.11	22.13	22.57	22.60	2.16	ppb
Silver	109-1	23.38	22.55	22.60	22.84	2.05	ppb
Sodium	23-2	18463.92	18216.24	18145.86	18275.34	0.91	ppb
Strontium	86-1	1890.00	1833.64	1836.11	1853.25	1.72	ppb
Strontium	88-1	1923.31	1898.06	1910.06	1910.48	0.66	ppb
Sulfur	34-1	9819.96	9174.51	9750.70	9581.72	3.70	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	9.24	9.01	9.15	9.13	1.25	ppb
Thallium	205-1	9.26	8.90	9.17	9.11	2.05	ppb
Tin	118-1	20.88	19.54	20.44	20.29	3.39	ppb
Titanium	47-1	581.91	549.32	574.30	568.51	3.00	ppb
Uranium	238-1	1.20	1.16	1.19	1.18	1.66	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	139.87	138.68	136.36	138.30	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				107		%
Zinc	66-2	539.40	535.39	533.01	535.93	0.60	ppb
Zirconium	90-1	4.12	3.98	3.98	4.03	2.00	ppb
Zirconium	91-1	4.10	3.87	4.08	4.02	3.10	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14212.59	13845.80	13777.38	13945.26	1.68	ppb
Antimony	121-1	0.44	0.40	0.40	0.41	5.89	ppb
Arsenic	75-2	17.46	17.89	17.55	17.63	1.27	ppb
Barium	135-1	143.68	132.13	134.20	136.67	4.51	ppb
Barium	137-1	144.18	135.23	138.17	139.19	3.28	ppb
Beryllium	9-1	1.42	1.27	1.32	1.34	5.84	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.08	1.07	1.17	1.10	4.97	ppb
Cadmium	106-1	1.37	1.00	0.96	1.11	20.25	ppb
Cadmium	111-1	0.84	0.75	0.73	0.77	7.63	ppb
Calcium	43-1	11162.68	9951.00	10287.79	10467.15	5.98	ppb
Calcium	44-1	11131.87	10266.71	10221.29	10539.96	4.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.58	25.65	25.35	25.53	0.62	ppb
Cobalt	59-2	17.10	16.98	16.62	16.90	1.48	ppb
Copper	63-2	37.71	37.60	37.38	37.57	0.45	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				104		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	33656.04	33562.57	33066.54	33428.38	0.95	ppb
Iron	56-2	33148.28	33456.83	33250.52	33285.21	0.47	ppb
Iron	57-2	33841.74	33661.76	33378.04	33627.18	0.70	ppb
Krypton	83-1						cps
Lead	206-1	40.81	38.95	40.64	40.13	2.56	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	38.98	37.34	38.10	38.14	2.15	ppb
Lead	208-1	39.56	37.62	38.77	38.65	2.53	ppb
Lithium	6-1				90		%
Magnesium	24-2	6004.92	5850.71	5817.17	5890.93	1.70	ppb
Manganese	55-2	1307.98	1335.75	1325.14	1322.96	1.06	ppb
Molybdenum	94-1	13.88	12.67	13.10	13.22	4.66	ppb
Molybdenum	95-1	11.17	10.22	10.52	10.64	4.56	ppb
Molybdenum	96-1	11.31	10.65	10.84	10.93	3.08	ppb
Molybdenum	97-1	11.26	10.27	10.57	10.70	4.71	ppb
Molybdenum	98-1	11.16	10.22	10.33	10.57	4.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	90.92	91.33	89.70	90.65	0.94	ppb
Phosphorus	31-2	748.88	704.64	699.76	717.76	3.77	ppb
Potassium	39-2	3251.79	3216.30	3204.13	3224.07	0.77	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				112		%
Scandium	45-2				107		%
Selenium	82-1	0.83	0.37	0.73	0.64	37.40	ppb
Selenium	77-2	28.99	31.88	42.97	34.61	21.32	ppb
Selenium	78-2	6.88	6.20	7.36	6.81	8.54	ppb
Silicon	28-1	150.67	131.80	139.22	140.56	6.76	ppb
Silver	107-1	0.21	0.16	0.15	0.17	19.01	ppb
Silver	109-1	0.21	0.16	0.16	0.18	17.88	ppb
Sodium	23-2	507.61	514.35	509.21	510.39	0.69	ppb
Strontium	86-1	1218.20	1130.75	1149.66	1166.20	3.95	ppb
Strontium	88-1	1281.23	1181.69	1213.67	1225.53	4.15	ppb
Sulfur	34-1	-221.18	-820.19	-604.67	-548.68		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.35	0.33	0.33	0.34	2.56	ppb
Thallium	205-1	0.34	0.33	0.34	0.33	2.62	ppb
Tin	118-1	0.84	0.76	0.80	0.80	4.97	ppb
Titanium	47-1	130.74	119.59	121.91	124.08	4.74	ppb
Uranium	238-1	1.50	1.40	1.45	1.45	3.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	35.51	35.76	35.59	35.62	0.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	129.82	129.37	127.95	129.04	0.76	ppb
Zirconium	90-1	2.50	2.33	2.34	2.39	4.21	ppb
Zirconium	91-1	2.50	2.32	2.35	2.39	3.99	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19559.82	19926.36	19748.51	19744.90	0.93	ppb
Antimony	121-1	0.26	0.27	0.27	0.26	2.34	ppb
Arsenic	75-2	16.38	16.75	16.90	16.68	1.63	ppb
Barium	135-1	136.39	140.03	138.70	138.38	1.33	ppb
Barium	137-1	139.12	140.39	142.64	140.72	1.27	ppb
Beryllium	9-1	1.46	1.47	1.50	1.48	1.51	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.91	1.08	1.09	1.03	10.01	ppb
Cadmium	106-1	1.05	0.90	0.97	0.98	7.67	ppb
Cadmium	111-1	0.54	0.54	0.55	0.54	1.85	ppb
Calcium	43-1	4601.07	4651.81	4647.48	4633.45	0.61	ppb
Calcium	44-1	4701.25	4658.45	4623.64	4661.11	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	33.69	34.25	34.11	34.01	0.86	ppb
Cobalt	59-2	23.53	23.18	23.02	23.24	1.12	ppb
Copper	63-2	41.67	41.42	42.44	41.84	1.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	47196.72	47298.59	46603.61	47032.97	0.80	ppb
Iron	56-2	46950.01	46918.79	46694.82	46854.54	0.30	ppb
Iron	57-2	47658.63	47074.09	46902.49	47211.74	0.84	ppb
Krypton	83-1						cps
Lead	206-1	25.58	25.59	26.43	25.87	1.89	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.88	23.89	25.06	24.28	2.81	ppb
Lead	208-1	24.43	24.34	25.27	24.68	2.09	ppb
Lithium	6-1				89		%
Magnesium	24-2	7167.50	7182.96	6994.55	7115.00	1.47	ppb
Manganese	55-2	802.27	807.41	814.43	808.04	0.76	ppb
Molybdenum	94-1	13.66	13.54	14.05	13.75	1.93	ppb
Molybdenum	95-1	9.82	9.74	10.05	9.87	1.66	ppb
Molybdenum	96-1	10.35	10.22	10.42	10.33	0.99	ppb
Molybdenum	97-1	9.95	9.80	10.07	9.94	1.33	ppb
Molybdenum	98-1	9.78	9.61	9.93	9.77	1.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	61.75	60.76	60.35	60.95	1.18	ppb
Phosphorus	31-2	448.99	443.37	471.77	454.71	3.31	ppb
Potassium	39-2	3095.97	3111.24	3046.34	3084.52	1.10	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				115		%
Scandium	45-2				108		%
Selenium	82-1	0.32	0.52	0.20	0.35	45.22	ppb
Selenium	77-2	46.83	54.04	54.93	51.94	8.56	ppb
Selenium	78-2	9.42	11.40	10.97	10.60	9.84	ppb
Silicon	28-1	174.18	169.71	175.51	173.13	1.75	ppb
Silver	107-1	0.09	0.10	0.09	0.10	2.37	ppb
Silver	109-1	0.09	0.09	0.10	0.09	4.47	ppb
Sodium	23-2	464.36	463.42	458.87	462.22	0.64	ppb
Strontium	86-1	919.10	909.40	947.12	925.21	2.12	ppb
Strontium	88-1	959.43	944.20	976.47	960.03	1.68	ppb
Sulfur	34-1	-1820.64	-1870.73	-1897.79	-1863.06		ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.42	0.40	0.43	0.42	4.18	ppb
Thallium	205-1	0.43	0.42	0.44	0.43	2.92	ppb
Tin	118-1	0.64	0.63	0.65	0.64	1.74	ppb
Titanium	47-1	130.17	130.44	131.12	130.58	0.38	ppb
Uranium	238-1	1.64	1.64	1.68	1.65	1.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	44.88	44.45	44.31	44.55	0.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	117.89	119.23	117.71	118.27	0.70	ppb
Zirconium	90-1	2.99	2.96	3.09	3.01	2.25	ppb
Zirconium	91-1	3.03	2.93	3.11	3.02	2.94	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11143.52	11242.58	12136.18	11507.43	4.75	ppb
Antimony	121-1	0.53	0.57	0.56	0.55	4.00	ppb
Arsenic	75-2	11.09	11.26	12.59	11.64	7.06	ppb
Barium	135-1	136.34	140.02	139.61	138.66	1.45	ppb
Barium	137-1	139.54	141.01	139.78	140.11	0.56	ppb
Beryllium	9-1	1.02	0.98	1.00	1.00	2.14	ppb
Bismuth	209-1				98		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.60	1.69	1.86	1.72	7.61	ppb
Cadmium	106-1	3.75	4.17	3.75	3.89	6.22	ppb
Cadmium	111-1	0.78	0.79	0.70	0.76	6.60	ppb
Calcium	43-1	162354.62	156818.58	167698.92	162290.70	3.35	ppb
Calcium	44-1	163275.21	161633.44	168044.33	164317.66	2.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.08	26.66	28.15	26.96	3.95	ppb
Cobalt	59-2	15.57	16.09	16.89	16.18	4.10	ppb
Copper	63-2	31.60	32.03	33.70	32.44	3.41	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				103		%
Holmium	165-2				98		%
Indium	115-1				105		%
Indium	115-2				96		%
Iron	54-2	32161.09	33055.07	34547.15	33254.44	3.62	ppb
Iron	56-2	32164.66	33200.15	34458.05	33274.29	3.45	ppb
Iron	57-2	33014.49	33327.90	35435.52	33925.97	3.88	ppb
Krypton	83-1						cps
Lead	206-1	15.29	15.31	15.72	15.44	1.59	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	13.87	13.76	14.28	13.97	1.94	ppb
Lead	208-1	14.28	14.23	14.66	14.39	1.61	ppb
Lithium	6-1				84		%
Magnesium	24-2	58435.96	60464.28	63293.94	60731.39	4.02	ppb
Manganese	55-2	603.41	615.89	645.86	621.72	3.51	ppb
Molybdenum	94-1	20.42	21.20	21.69	21.11	3.05	ppb
Molybdenum	95-1	6.22	6.47	6.56	6.41	2.72	ppb
Molybdenum	96-1	7.72	7.92	8.04	7.89	2.03	ppb
Molybdenum	97-1	6.36	6.50	6.64	6.50	2.19	ppb
Molybdenum	98-1	6.27	6.41	6.50	6.40	1.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	41.84	42.71	45.08	43.21	3.87	ppb
Phosphorus	31-2	685.10	687.65	721.89	698.21	2.94	ppb
Potassium	39-2	2084.94	2163.68	2280.26	2176.29	4.52	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				111		%
Scandium	45-2				102		%
Selenium	82-1	0.29	-0.08	0.39	0.20	126.41	ppb
Selenium	77-2	29.99	32.24	25.36	29.20	12.02	ppb
Selenium	78-2	3.75	6.51	5.62	5.29	26.64	ppb
Silicon	28-1	143.34	148.33	147.99	146.56	1.90	ppb
Silver	107-1	0.12	0.13	0.15	0.13	7.51	ppb
Silver	109-1	0.12	0.13	0.14	0.13	7.18	ppb
Sodium	23-2	500.13	510.34	546.35	518.94	4.68	ppb
Strontium	86-1	10171.13	10264.48	10385.84	10273.82	1.05	ppb
Strontium	88-1	10042.82	10131.09	10292.74	10155.55	1.25	ppb
Sulfur	34-1	5066.37	5378.17	5788.28	5410.94	6.69	ppb
Terbium	159-1				103		%
Terbium	159-2				96		%
Thallium	203-1	0.23	0.23	0.22	0.23	1.19	ppb
Thallium	205-1	0.23	0.23	0.23	0.23	0.93	ppb
Tin	118-1	0.40	0.43	0.38	0.40	6.01	ppb
Titanium	47-1	198.47	195.94	202.37	198.93	1.63	ppb
Uranium	238-1	2.49	2.52	2.54	2.52	1.11	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	36.77	37.14	39.94	37.95	4.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	89.79	93.21	98.22	93.74	4.53	ppb
Zirconium	90-1	8.36	8.64	8.73	8.57	2.25	ppb
Zirconium	91-1	8.19	8.56	8.62	8.46	2.74	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12581.33	12856.31	12447.43	12628.36	1.65	ppb
Antimony	121-1	0.38	0.39	0.38	0.38	1.53	ppb
Arsenic	75-2	14.36	13.71	14.70	14.26	3.52	ppb
Barium	135-1	192.69	193.69	195.73	194.04	0.80	ppb
Barium	137-1	203.19	203.69	204.69	203.86	0.38	ppb
Beryllium	9-1	1.10	1.13	1.19	1.14	3.93	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.90	0.89	0.96	0.92	3.84	ppb
Cadmium	106-1	2.10	1.72	2.47	2.10	18.06	ppb
Cadmium	111-1	0.72	0.69	0.75	0.72	4.56	ppb
Calcium	43-1	144413.28	150221.38	146770.43	147135.03	1.99	ppb
Calcium	44-1	146702.06	151470.57	146581.86	148251.50	1.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.42	29.70	29.00	29.37	1.20	ppb
Cobalt	59-2	16.24	16.36	16.20	16.27	0.50	ppb
Copper	63-2	33.46	33.64	33.17	33.42	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	54-2	33565.82	34187.40	33633.00	33795.41	1.01	ppb
Iron	56-2	33728.66	34040.95	33550.94	33773.52	0.73	ppb
Iron	57-2	33941.56	33751.56	34074.29	33922.47	0.48	ppb
Krypton	83-1						cps
Lead	206-1	28.47	29.01	29.46	28.98	1.71	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	27.28	27.66	27.65	27.53	0.79	ppb
Lead	208-1	27.47	27.97	28.11	27.85	1.22	ppb
Lithium	6-1				84		%
Magnesium	24-2	48923.16	48286.96	47586.52	48265.55	1.39	ppb
Manganese	55-2	935.86	928.11	900.70	921.55	2.00	ppb
Molybdenum	94-1	8.13	8.01	8.03	8.06	0.85	ppb
Molybdenum	95-1	5.26	5.25	5.32	5.27	0.71	ppb
Molybdenum	96-1	5.63	5.55	5.66	5.61	1.05	ppb
Molybdenum	97-1	5.33	5.32	5.27	5.31	0.60	ppb
Molybdenum	98-1	5.22	5.18	5.27	5.22	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	38.18	39.01	38.39	38.53	1.12	ppb
Phosphorus	31-2	726.76	641.11	700.17	689.35	6.36	ppb
Potassium	39-2	1295.37	1310.35	1289.04	1298.25	0.84	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				111		%
Scandium	45-2				105		%
Selenium	82-1	0.19	-0.11	-0.14	-0.02		ppb
Selenium	77-2	26.89	37.45	34.26	32.87	16.48	ppb
Selenium	78-2	5.25	7.02	4.79	5.69	20.67	ppb
Silicon	28-1	170.41	181.59	174.53	175.51	3.22	ppb
Silver	107-1	0.12	0.12	0.12	0.12	3.81	ppb
Silver	109-1	0.11	0.11	0.13	0.12	8.83	ppb
Sodium	23-2	418.06	419.18	421.84	419.69	0.46	ppb
Strontium	86-1	12502.35	12569.75	12459.30	12510.46	0.44	ppb
Strontium	88-1	12333.60	12540.79	12385.36	12419.92	0.87	ppb
Sulfur	34-1	838.70	1132.58	1028.40	999.90	14.90	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.32	0.33	0.34	0.33	2.27	ppb
Thallium	205-1	0.32	0.33	0.35	0.33	4.32	ppb
Tin	118-1	0.59	0.57	0.62	0.59	3.99	ppb
Titanium	47-1	107.61	109.37	107.64	108.21	0.93	ppb
Uranium	238-1	2.02	2.12	2.09	2.07	2.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	35.78	35.97	35.47	35.74	0.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				109		%
Zinc	66-2	123.34	124.90	123.12	123.79	0.78	ppb
Zirconium	90-1	2.05	2.08	2.09	2.07	1.01	ppb
Zirconium	91-1	2.03	2.05	2.03	2.04	0.33	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10386.29	10412.47	10592.38	10463.71	1.07	ppb
Antimony	121-1	2.31	2.31	2.33	2.32	0.58	ppb
Arsenic	75-2	86.62	86.26	90.48	87.79	2.66	ppb
Barium	135-1	707.86	710.38	721.24	713.16	1.00	ppb
Barium	137-1	701.50	707.15	723.09	710.58	1.58	ppb
Beryllium	9-1	1.34	1.40	1.40	1.38	2.34	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	6.22	6.46	6.16	6.28	2.59	ppb
Cadmium	106-1	9.16	8.08	9.24	8.83	7.33	ppb
Cadmium	111-1	5.67	5.52	5.66	5.62	1.49	ppb
Calcium	43-1	155915.48	155235.65	152078.21	154409.78	1.33	ppb
Calcium	44-1	154811.99	152839.46	150812.57	152821.34	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.90	41.60	42.34	41.61	1.72	ppb
Cobalt	59-2	9.43	9.70	9.70	9.61	1.59	ppb
Copper	63-2	88.74	91.19	91.20	90.38	1.57	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				100		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	54-2	50231.03	50036.81	50566.32	50278.05	0.53	ppb
Iron	56-2	49467.32	49462.74	48987.75	49305.93	0.56	ppb
Iron	57-2	49620.68	49882.97	50373.40	49959.02	0.76	ppb
Krypton	83-1						cps
Lead	206-1	1344.41	1351.92	1345.02	1347.12	0.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1239.20	1266.50	1238.54	1248.08	1.28	ppb
Lead	208-1	1262.50	1287.43	1279.46	1276.46	1.00	ppb
Lithium	6-1				85		%
Magnesium	24-2	20467.70	20475.19	20788.88	20577.26	0.89	ppb
Manganese	55-2	542.78	540.29	539.90	540.99	0.29	ppb
Molybdenum	94-1	24.13	24.02	24.41	24.19	0.82	ppb
Molybdenum	95-1	5.99	5.98	6.02	6.00	0.37	ppb
Molybdenum	96-1	8.05	8.00	8.09	8.05	0.60	ppb
Molybdenum	97-1	6.03	6.04	6.13	6.07	0.94	ppb
Molybdenum	98-1	5.93	5.91	6.06	5.97	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	34.87	34.54	34.67	34.69	0.48	ppb
Phosphorus	31-2	572.58	564.85	577.60	571.68	1.12	ppb
Potassium	39-2	1490.80	1496.64	1508.78	1498.74	0.61	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				111		%
Scandium	45-2				104		%
Selenium	82-1	5.75	5.25	6.02	5.68	6.87	ppb
Selenium	77-2	25.85	21.69	25.27	24.27	9.30	ppb
Selenium	78-2	7.31	7.34	9.60	8.09	16.25	ppb
Silicon	28-1	235.12	235.85	232.12	234.36	0.84	ppb
Silver	107-1	0.16	0.17	0.17	0.16	4.35	ppb
Silver	109-1	0.14	0.14	0.14	0.14	3.18	ppb
Sodium	23-2	669.90	676.01	682.39	676.10	0.92	ppb
Strontium	86-1	15143.26	15338.46	15266.52	15249.41	0.65	ppb
Strontium	88-1	15199.56	15023.79	15232.17	15151.84	0.74	ppb
Sulfur	34-1	3006.65	2878.08	2827.12	2903.95	3.19	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.91	0.92	0.91	0.91	0.83	ppb
Thallium	205-1	0.93	0.92	0.93	0.93	0.12	ppb
Tin	118-1	6.50	6.49	6.69	6.56	1.75	ppb
Titanium	47-1	443.88	442.83	443.05	443.25	0.13	ppb
Uranium	238-1	2.13	2.13	2.12	2.13	0.26	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	39.09	39.18	39.42	39.23	0.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				106		%
Zinc	66-2	1191.94	1210.33	1213.95	1205.41	0.98	ppb
Zirconium	90-1	10.56	10.50	10.69	10.58	0.93	ppb
Zirconium	91-1	10.58	10.52	10.52	10.54	0.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11975.24	12228.85	12226.78	12143.62	1.20	ppb
Antimony	121-1	0.48	0.47	0.50	0.48	3.55	ppb
Arsenic	75-2	10.87	11.43	10.83	11.04	3.02	ppb
Barium	135-1	133.10	140.83	141.16	138.36	3.30	ppb
Barium	137-1	135.14	142.38	144.55	140.69	3.50	ppb
Beryllium	9-1	1.30	1.34	1.38	1.34	3.10	ppb
Bismuth	209-1				97		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	1.97	1.92	1.83	1.91	3.60	ppb
Cadmium	106-1	3.94	4.69	4.54	4.39	9.06	ppb
Cadmium	111-1	0.64	0.70	0.69	0.68	4.99	ppb
Calcium	43-1	205812.74	218233.41	220143.36	214729.84	3.62	ppb
Calcium	44-1	203963.80	215493.31	222089.33	213848.81	4.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.26	27.13	26.61	26.66	1.64	ppb
Cobalt	59-2	11.42	11.70	11.42	11.52	1.40	ppb
Copper	63-2	36.78	38.07	37.23	37.36	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				104		%
Holmium	165-2				96		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	28992.48	30002.12	29421.07	29471.89	1.72	ppb
Iron	56-2	28738.39	29523.42	29111.74	29124.52	1.35	ppb
Iron	57-2	28910.36	29948.56	29116.95	29325.29	1.87	ppb
Krypton	83-1						cps
Lead	206-1	15.31	16.02	16.69	16.01	4.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	14.11	15.13	15.67	14.97	5.28	ppb
Lead	208-1	14.51	15.30	15.82	15.21	4.33	ppb
Lithium	6-1				84		%
Magnesium	24-2	57907.18	59339.30	57924.47	58390.32	1.41	ppb
Manganese	55-2	918.07	975.92	953.04	949.01	3.07	ppb
Molybdenum	94-1	23.12	24.77	24.76	24.22	3.92	ppb
Molybdenum	95-1	5.33	5.70	5.69	5.58	3.78	ppb
Molybdenum	96-1	7.18	7.54	7.65	7.45	3.31	ppb
Molybdenum	97-1	5.32	5.79	5.67	5.60	4.31	ppb
Molybdenum	98-1	5.26	5.63	5.55	5.48	3.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	31.68	32.84	32.06	32.20	1.83	ppb
Phosphorus	31-2	712.09	709.57	711.28	710.98	0.18	ppb
Potassium	39-2	2207.99	2249.13	2225.84	2227.65	0.93	ppb
Rhodium	103-1				99		%
Rhodium	103-2				93		%
Scandium	45-1				110		%
Scandium	45-2				99		%
Selenium	82-1	0.24	0.49	0.32	0.35	37.31	ppb
Selenium	77-2	39.41	30.39	31.88	33.90	14.27	ppb
Selenium	78-2	4.26	6.78	6.97	6.00	25.22	ppb
Silicon	28-1	884.69	952.85	988.77	942.10	5.61	ppb
Silver	107-1	0.09	0.11	0.12	0.11	15.70	ppb
Silver	109-1	0.08	0.09	0.11	0.09	16.06	ppb
Sodium	23-2	1004.05	1055.54	1024.70	1028.10	2.52	ppb
Strontium	86-1	23584.03	25027.82	24737.96	24449.94	3.12	ppb
Strontium	88-1	23440.28	24919.17	24952.21	24437.22	3.53	ppb
Sulfur	34-1	2178.19	3034.54	3056.85	2756.52	18.17	ppb
Terbium	159-1				103		%
Terbium	159-2				95		%
Thallium	203-1	0.29	0.32	0.33	0.31	6.20	ppb
Thallium	205-1	0.30	0.32	0.32	0.31	3.55	ppb
Tin	118-1	6.83	7.34	7.43	7.20	4.49	ppb
Titanium	47-1	265.25	280.49	284.69	276.81	3.70	ppb
Uranium	238-1	2.16	2.25	2.35	2.25	4.18	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	26.01	27.00	26.35	26.45	1.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				102		%
Zinc	66-2	97.60	101.03	98.65	99.10	1.77	ppb
Zirconium	90-1	10.23	10.91	10.89	10.68	3.65	ppb
Zirconium	91-1	10.25	10.88	10.79	10.64	3.20	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18482.77	18615.86	19172.83	18757.15	1.95	ppb
Antimony	121-1	0.39	0.39	0.40	0.39	1.84	ppb
Arsenic	75-2	21.07	20.36	20.85	20.76	1.76	ppb
Barium	135-1	161.53	163.11	167.14	163.93	1.77	ppb
Barium	137-1	165.83	167.56	173.35	168.91	2.33	ppb
Beryllium	9-1	1.66	1.69	1.76	1.71	2.90	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.04	1.23	1.06	1.11	9.18	ppb
Cadmium	106-1	2.33	2.56	2.44	2.44	4.81	ppb
Cadmium	111-1	0.79	0.79	0.84	0.81	3.51	ppb
Calcium	43-1	9240.31	9053.69	9164.38	9152.79	1.03	ppb
Calcium	44-1	9476.48	9272.04	9300.54	9349.68	1.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.70	36.13	37.31	36.71	1.61	ppb
Cobalt	59-2	28.38	28.44	28.68	28.50	0.56	ppb
Copper	63-2	41.92	41.09	42.29	41.76	1.47	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				105		%
Holmium	165-2				101		%
Indium	115-1				108		%
Indium	115-2				100		%
Iron	54-2	52023.07	51110.05	52605.62	51912.91	1.45	ppb
Iron	56-2	50822.89	50157.21	51849.90	50943.33	1.67	ppb
Iron	57-2	51880.49	51208.03	52168.25	51752.26	0.95	ppb
Krypton	83-1						cps
Lead	206-1	41.35	42.39	41.31	41.69	1.47	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	39.09	39.85	38.94	39.30	1.24	ppb
Lead	208-1	39.63	40.55	39.71	39.96	1.27	ppb
Lithium	6-1				87		%
Magnesium	24-2	7308.29	7325.51	7517.84	7383.88	1.58	ppb
Manganese	55-2	1979.72	1967.99	2017.07	1988.26	1.29	ppb
Molybdenum	94-1	10.82	10.93	10.85	10.87	0.49	ppb
Molybdenum	95-1	7.06	7.09	6.98	7.04	0.84	ppb
Molybdenum	96-1	7.47	7.51	7.54	7.51	0.49	ppb
Molybdenum	97-1	7.02	7.04	7.12	7.06	0.77	ppb
Molybdenum	98-1	6.93	7.02	7.01	6.99	0.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	45.28	44.40	46.59	45.42	2.43	ppb
Phosphorus	31-2	580.53	555.63	550.01	562.06	2.89	ppb
Potassium	39-2	1517.11	1500.33	1519.08	1512.17	0.68	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				106		%
Selenium	82-1	0.81	0.58	0.84	0.75	19.18	ppb
Selenium	77-2	34.42	41.45	42.97	39.61	11.52	ppb
Selenium	78-2	8.18	7.46	8.03	7.89	4.81	ppb
Silicon	28-1	142.77	136.82	141.57	140.38	2.24	ppb
Silver	107-1	0.14	0.15	0.15	0.15	2.79	ppb
Silver	109-1	0.14	0.13	0.15	0.14	6.10	ppb
Sodium	23-2	529.46	531.21	543.83	534.83	1.47	ppb
Strontium	86-1	3998.45	3946.20	3996.77	3980.47	0.75	ppb
Strontium	88-1	4056.79	4134.42	4004.11	4065.11	1.61	ppb
Sulfur	34-1	-385.93	-557.85	-658.30	-534.03		ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.36	0.38	0.37	0.37	2.65	ppb
Thallium	205-1	0.38	0.40	0.37	0.38	3.36	ppb
Tin	118-1	0.83	0.82	0.86	0.83	2.98	ppb
Titanium	47-1	119.98	118.84	120.06	119.63	0.57	ppb
Uranium	238-1	2.42	2.48	2.38	2.43	1.93	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	52.09	51.88	53.64	52.54	1.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				109		%
Zinc	66-2	121.93	121.10	122.67	121.90	0.65	ppb
Zirconium	90-1	2.75	2.79	2.80	2.78	0.99	ppb
Zirconium	91-1	2.76	2.82	2.79	2.79	1.14	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11294.94	11436.22	11435.85	11389.00	0.72	ppb
Antimony	121-1	0.41	0.43	0.43	0.42	3.26	ppb
Arsenic	75-2	14.10	14.11	14.34	14.18	0.96	ppb
Barium	135-1	133.82	137.79	139.02	136.88	1.99	ppb
Barium	137-1	136.52	139.96	141.58	139.35	1.85	ppb
Beryllium	9-1	0.97	0.95	0.92	0.95	2.69	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.40	1.22	1.27	1.30	7.10	ppb
Cadmium	106-1	2.79	3.33	3.01	3.04	8.87	ppb
Cadmium	111-1	0.44	0.55	0.50	0.50	10.99	ppb
Calcium	43-1	216508.85	215500.11	209439.40	213816.12	1.79	ppb
Calcium	44-1	220060.25	218542.30	211488.30	216696.95	2.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.06	23.68	24.39	24.05	1.47	ppb
Cobalt	59-2	15.69	15.88	15.85	15.80	0.65	ppb
Copper	63-2	39.73	39.61	39.76	39.70	0.20	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				100		%
Indium	115-1				105		%
Indium	115-2				98		%
Iron	54-2	35387.69	35787.40	35808.40	35661.16	0.66	ppb
Iron	56-2	35266.67	35151.55	35792.83	35403.68	0.97	ppb
Iron	57-2	35801.81	36509.82	36348.40	36220.01	1.02	ppb
Krypton	83-1						cps
Lead	206-1	18.28	19.04	18.47	18.60	2.13	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	17.05	17.81	17.45	17.44	2.17	ppb
Lead	208-1	17.51	18.05	17.77	17.78	1.54	ppb
Lithium	6-1				82		%
Magnesium	24-2	31291.96	31579.79	31475.52	31449.09	0.46	ppb
Manganese	55-2	910.74	907.96	918.15	912.28	0.58	ppb
Molybdenum	94-1	18.26	18.99	19.27	18.84	2.76	ppb
Molybdenum	95-1	9.10	9.51	9.46	9.36	2.38	ppb
Molybdenum	96-1	10.00	10.52	10.70	10.41	3.46	ppb
Molybdenum	97-1	9.20	9.57	9.62	9.46	2.41	ppb
Molybdenum	98-1	9.06	9.38	9.41	9.28	2.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	41.32	41.84	41.78	41.65	0.69	ppb
Phosphorus	31-2	940.77	902.60	949.89	931.09	2.69	ppb
Potassium	39-2	1777.59	1755.94	1777.14	1770.22	0.70	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				112		%
Scandium	45-2				104		%
Selenium	82-1	-0.17	-0.21	-0.28	-0.22		ppb
Selenium	77-2	37.83	36.84	29.71	34.79	12.73	ppb
Selenium	78-2	8.31	6.79	6.25	7.12	15.00	ppb
Silicon	28-1	126.96	136.09	125.80	129.62	4.35	ppb
Silver	107-1	0.08	0.08	0.10	0.09	10.36	ppb
Silver	109-1	0.07	0.07	0.08	0.07	12.45	ppb
Sodium	23-2	622.49	622.15	628.65	624.43	0.59	ppb
Strontium	86-1	8330.82	8581.82	8633.75	8515.47	1.90	ppb
Strontium	88-1	8085.39	8554.00	8494.73	8378.04	3.05	ppb
Sulfur	34-1	-229.93	-95.25	-253.06	-192.75		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.45	0.46	0.43	0.45	2.75	ppb
Thallium	205-1	0.43	0.45	0.45	0.44	2.62	ppb
Tin	118-1	0.47	0.46	0.48	0.47	2.13	ppb
Titanium	47-1	226.64	230.94	227.95	228.51	0.97	ppb
Uranium	238-1	1.93	1.99	1.93	1.95	1.62	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	30.86	30.56	30.80	30.74	0.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				107		%
Zinc	66-2	102.32	101.94	102.36	102.21	0.23	ppb
Zirconium	90-1	5.98	6.27	6.26	6.17	2.70	ppb
Zirconium	91-1	5.99	6.18	6.17	6.11	1.69	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1265.39	1268.34	1171.86	1235.20	4.44	ppb
Antimony	121-1	0.23	0.23	0.22	0.23	1.04	ppb
Arsenic	75-2	2.70	2.78	2.47	2.65	6.14	ppb
Barium	135-1	44.30	44.23	44.57	44.37	0.41	ppb
Barium	137-1	45.08	45.39	45.60	45.35	0.58	ppb
Beryllium	9-1	0.55	0.54	0.53	0.54	2.46	ppb
Bismuth	209-1				91		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.46	0.59	0.48	0.51	14.00	ppb
Cadmium	106-1	1.82	1.88	2.21	1.97	10.62	ppb
Cadmium	111-1	0.24	0.26	0.28	0.26	7.71	ppb
Calcium	43-1	430067.81	445764.35	426224.05	434018.74	2.39	ppb
Calcium	44-1	436516.00	442482.42	437757.35	438918.59	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.79	8.70	8.28	8.59	3.16	ppb
Cobalt	59-2	1.77	1.80	1.64	1.73	4.80	ppb
Copper	63-2	7.10	7.00	6.72	6.94	2.85	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				99		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	4677.76	4621.09	4365.37	4554.74	3.65	ppb
Iron	56-2	4739.93	4667.63	4368.45	4592.00	4.29	ppb
Iron	57-2	4619.58	4573.89	4261.71	4485.06	4.34	ppb
Krypton	83-1						cps
Lead	206-1	5.51	5.61	5.59	5.57	0.93	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.56	4.66	4.62	4.61	1.13	ppb
Lead	208-1	4.79	4.87	4.83	4.83	0.77	ppb
Lithium	6-1				83		%
Magnesium	24-2	257470.41	251067.15	233043.48	247193.68	5.12	ppb
Manganese	55-2	182.39	180.29	169.74	177.47	3.82	ppb
Molybdenum	94-1	6.19	6.15	6.06	6.13	1.06	ppb
Molybdenum	95-1	1.88	1.89	1.89	1.88	0.16	ppb
Molybdenum	96-1	2.33	2.26	2.31	2.30	1.54	ppb
Molybdenum	97-1	1.89	1.91	1.90	1.90	0.60	ppb
Molybdenum	98-1	1.84	1.81	1.83	1.83	0.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.72	9.26	8.81	9.26	4.89	ppb
Phosphorus	31-2	140.70	111.72	102.26	118.23	16.94	ppb
Potassium	39-2	404.70	399.34	375.37	393.13	3.97	ppb
Rhodium	103-1				94		%
Rhodium	103-2				97		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	-0.19	-0.48	-0.54	-0.40		ppb
Selenium	77-2	7.41	5.67	8.95	7.35	22.31	ppb
Selenium	78-2	2.05	1.67	1.56	1.76	14.54	ppb
Silicon	28-1	63.09	62.06	64.17	63.11	1.67	ppb
Silver	107-1	0.10	0.18	0.22	0.17	38.50	ppb
Silver	109-1	0.09	0.17	0.23	0.16	44.26	ppb
Sodium	23-2	703.56	695.66	660.80	686.67	3.31	ppb
Strontium	86-1	10989.05	10938.95	10960.12	10962.71	0.23	ppb
Strontium	88-1	10925.47	10837.76	10830.95	10864.73	0.49	ppb
Sulfur	34-1	2967.65	3188.29	3438.27	3198.07	7.36	ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	0.13	0.15	0.14	0.14	6.31	ppb
Thallium	205-1	0.14	0.14	0.15	0.14	4.40	ppb
Tin	118-1	0.07	0.08	0.08	0.08	9.51	ppb
Titanium	47-1	35.93	36.27	36.75	36.32	1.13	ppb
Uranium	238-1	3.93	4.01	3.87	3.93	1.76	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.18	9.94	9.36	9.83	4.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				108		%
Zinc	66-2	20.10	20.63	18.83	19.85	4.68	ppb
Zirconium	90-1	2.55	2.55	2.55	2.55	0.05	ppb
Zirconium	91-1	2.48	2.55	2.49	2.50	1.50	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12806.64	12581.00	13133.96	12840.53	2.17	ppb
Antimony	121-1	4.24	4.26	4.31	4.27	0.86	ppb
Arsenic	75-2	26.04	26.51	26.02	26.19	1.06	ppb
Barium	135-1	257.30	259.02	262.53	259.61	1.03	ppb
Barium	137-1	278.17	277.16	277.59	277.64	0.18	ppb
Beryllium	9-1	1.47	1.43	1.54	1.48	3.90	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	2.90	3.26	3.02	3.06	5.94	ppb
Cadmium	106-1	4.69	5.30	5.33	5.11	7.14	ppb
Cadmium	111-1	2.35	2.38	2.46	2.40	2.48	ppb
Calcium	43-1	66426.86	65368.11	68485.17	66760.04	2.37	ppb
Calcium	44-1	66032.26	66153.21	67850.15	66678.54	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	384.51	379.83	392.14	385.49	1.61	ppb
Cobalt	59-2	14.94	14.98	15.40	15.11	1.67	ppb
Copper	63-2	635.83	629.44	641.85	635.70	0.98	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				108		%
Indium	115-2				100		%
Iron	54-2	68199.06	68040.52	69505.56	68581.71	1.17	ppb
Iron	56-2	67490.08	67857.09	68515.12	67954.10	0.76	ppb
Iron	57-2	67240.39	68391.54	68110.22	67914.05	0.88	ppb
Krypton	83-1						cps
Lead	206-1	377.26	363.11	377.35	372.57	2.20	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	370.54	363.05	366.72	366.77	1.02	ppb
Lead	208-1	369.01	360.14	365.31	364.82	1.22	ppb
Lithium	6-1				85		%
Magnesium	24-2	13757.45	13542.09	14322.16	13873.90	2.90	ppb
Manganese	55-2	949.43	960.48	986.81	965.57	1.99	ppb
Molybdenum	94-1	40.30	41.21	42.53	41.35	2.71	ppb
Molybdenum	95-1	44.46	45.07	45.89	45.14	1.59	ppb
Molybdenum	96-1	44.06	45.03	45.74	44.95	1.88	ppb
Molybdenum	97-1	45.11	46.34	46.68	46.04	1.79	ppb
Molybdenum	98-1	44.02	44.90	45.98	44.97	2.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	226.44	225.91	230.90	227.75	1.20	ppb
Phosphorus	31-2	1047.76	1116.02	1109.94	1091.24	3.46	ppb
Potassium	39-2	3370.92	3396.51	3448.53	3405.32	1.16	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				105		%
Selenium	82-1	0.33	0.11	0.21	0.22	51.34	ppb
Selenium	77-2	25.58	28.01	22.94	25.51	9.94	ppb
Selenium	78-2	7.22	7.17	7.36	7.25	1.33	ppb
Silicon	28-1	300.63	289.01	309.48	299.70	3.43	ppb
Silver	107-1	0.97	0.97	0.99	0.97	1.26	ppb
Silver	109-1	0.97	0.98	1.01	0.99	1.83	ppb
Sodium	23-2	948.19	955.90	982.83	962.31	1.89	ppb
Strontium	86-1	7356.33	7594.55	7696.56	7549.15	2.31	ppb
Strontium	88-1	7355.58	7383.88	7503.31	7414.26	1.06	ppb
Sulfur	34-1	2607.14	2426.96	2842.75	2625.62	7.94	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.22	0.21	0.23	0.22	2.86	ppb
Thallium	205-1	0.23	0.22	0.23	0.23	2.37	ppb
Tin	118-1	92.01	90.85	92.27	91.71	0.82	ppb
Titanium	47-1	376.56	378.56	390.95	382.02	2.04	ppb
Uranium	238-1	1.69	1.67	1.67	1.68	0.77	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	44.23	44.35	45.73	44.77	1.87	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				111		%
Zinc	66-2	953.19	961.73	976.95	963.96	1.25	ppb
Zirconium	90-1	2.15	2.16	2.21	2.17	1.43	ppb
Zirconium	91-1	2.11	2.15	2.19	2.15	1.91	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21252.06	22517.24	22930.52	22233.27	3.93	ppb
Antimony	121-1	5.16	5.19	5.15	5.17	0.40	ppb
Arsenic	75-2	36.57	36.91	39.02	37.50	3.54	ppb
Barium	135-1	347.12	345.57	349.26	347.31	0.53	ppb
Barium	137-1	341.22	349.00	351.74	347.32	1.57	ppb
Beryllium	9-1	1.58	1.54	1.64	1.59	3.16	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	3.20	3.40	3.85	3.48	9.50	ppb
Cadmium	106-1	5.27	6.06	5.59	5.64	7.04	ppb
Cadmium	111-1	2.23	2.34	2.28	2.28	2.40	ppb
Calcium	43-1	52615.73	52712.59	52329.65	52552.66	0.38	ppb
Calcium	44-1	53166.65	52947.07	51714.47	52609.39	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	471.41	474.65	502.33	482.79	3.52	ppb
Cobalt	59-2	39.00	39.05	42.55	40.20	5.06	ppb
Copper	63-2	669.13	664.31	699.93	677.79	2.85	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				103		%
Holmium	165-2				100		%
Indium	115-1				107		%
Indium	115-2				98		%
Iron	54-2	318080.02	314946.47	342845.67	325290.72	4.70	ppb
Iron	56-2	314629.26	310387.79	329152.94	318056.66	3.09	ppb
Iron	57-2	312590.72	310387.90	338936.20	320638.27	4.95	ppb
Krypton	83-1						cps
Lead	206-1	309.88	299.82	297.82	302.51	2.14	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	303.63	289.99	292.20	295.27	2.48	ppb
Lead	208-1	301.93	289.42	292.75	294.70	2.20	ppb
Lithium	6-1				81		%
Magnesium	24-2	13985.76	14389.04	14548.40	14307.74	2.03	ppb
Manganese	55-2	1997.62	2008.26	2086.95	2030.94	2.40	ppb
Molybdenum	94-1	51.02	50.96	50.56	50.84	0.49	ppb
Molybdenum	95-1	44.34	44.27	43.55	44.05	0.98	ppb
Molybdenum	96-1	45.81	45.25	44.98	45.35	0.93	ppb
Molybdenum	97-1	45.22	44.78	44.26	44.76	1.08	ppb
Molybdenum	98-1	44.22	43.86	43.52	43.87	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	324.06	322.19	345.08	330.44	3.85	ppb
Phosphorus	31-2	822.43	835.81	843.15	833.80	1.26	ppb
Potassium	39-2	2970.12	3001.97	3175.38	3049.16	3.62	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				114		%
Scandium	45-2				103		%
Selenium	82-1	-0.17	0.32	0.16	0.10	239.29	ppb
Selenium	77-2	19.85	25.62	33.38	26.29	25.82	ppb
Selenium	78-2	4.08	5.16	5.16	4.80	12.98	ppb
Silicon	28-1	412.83	416.00	407.53	412.12	1.04	ppb
Silver	107-1	0.58	0.58	0.59	0.58	0.96	ppb
Silver	109-1	0.58	0.60	0.59	0.59	1.77	ppb
Sodium	23-2	741.12	730.38	794.19	755.23	4.52	ppb
Strontium	86-1	3792.95	3737.96	3724.00	3751.64	0.97	ppb
Strontium	88-1	3868.94	3915.15	3790.37	3858.15	1.64	ppb
Sulfur	34-1	1142.38	1233.63	1196.60	1190.87	3.85	ppb
Terbium	159-1				104		%
Terbium	159-2				99		%
Thallium	203-1	0.15	0.14	0.14	0.14	4.29	ppb
Thallium	205-1	0.14	0.13	0.14	0.14	3.16	ppb
Tin	118-1	72.18	72.48	72.92	72.53	0.51	ppb
Titanium	47-1	1250.52	1274.74	1251.32	1258.86	1.09	ppb
Uranium	238-1	1.74	1.73	1.74	1.74	0.53	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	60.03	59.94	64.38	61.45	4.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				108		%
Zinc	66-2	451.18	454.18	483.97	463.11	3.91	ppb
Zirconium	90-1	7.87	8.01	7.87	7.92	1.01	ppb
Zirconium	91-1	7.87	7.90	7.80	7.86	0.69	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16571.01	16177.91	16698.96	16482.62	1.65	ppb
Antimony	121-1	2.96	2.87	2.90	2.91	1.63	ppb
Arsenic	75-2	18.52	18.38	18.20	18.37	0.87	ppb
Barium	135-1	668.03	643.93	664.58	658.85	1.98	ppb
Barium	137-1	663.47	636.37	638.93	646.25	2.32	ppb
Beryllium	9-1	2.19	2.14	2.19	2.17	1.25	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	4.25	4.42	4.50	4.39	2.94	ppb
Cadmium	106-1	6.84	6.20	6.28	6.44	5.44	ppb
Cadmium	111-1	4.37	4.23	4.28	4.29	1.73	ppb
Calcium	43-1	73020.89	70780.41	71414.25	71738.52	1.61	ppb
Calcium	44-1	72776.60	72651.10	72776.03	72734.58	0.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	168.48	166.57	169.13	168.06	0.79	ppb
Cobalt	59-2	15.57	15.70	15.86	15.71	0.95	ppb
Copper	63-2	430.75	426.84	434.44	430.68	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				106		%
Holmium	165-2				103		%
Indium	115-1				109		%
Indium	115-2				101		%
Iron	54-2	52292.85	51406.29	51831.55	51843.56	0.86	ppb
Iron	56-2	51761.47	51248.62	51911.80	51640.63	0.67	ppb
Iron	57-2	50374.16	50893.62	52079.89	51115.89	1.71	ppb
Krypton	83-1						cps
Lead	206-1	934.43	931.66	955.29	940.46	1.37	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	886.64	876.58	913.36	892.19	2.13	ppb
Lead	208-1	910.28	891.66	919.02	906.98	1.54	ppb
Lithium	6-1				83		%
Magnesium	24-2	20568.09	20760.41	21377.58	20902.02	2.02	ppb
Manganese	55-2	2079.39	2033.13	2058.41	2056.98	1.13	ppb
Molybdenum	94-1	22.14	22.25	22.37	22.25	0.53	ppb
Molybdenum	95-1	16.82	16.93	17.28	17.01	1.41	ppb
Molybdenum	96-1	17.49	17.45	17.39	17.44	0.28	ppb
Molybdenum	97-1	16.99	17.10	17.12	17.07	0.40	ppb
Molybdenum	98-1	16.82	16.82	16.82	16.82	0.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	260.57	259.09	260.32	259.99	0.30	ppb
Phosphorus	31-2	1666.52	1697.52	1748.75	1704.26	2.44	ppb
Potassium	39-2	4247.59	4224.85	4350.83	4274.42	1.57	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				115		%
Scandium	45-2				107		%
Selenium	82-1	0.68	0.70	0.55	0.64	12.11	ppb
Selenium	77-2	48.76	45.35	51.75	48.62	6.59	ppb
Selenium	78-2	8.55	9.27	9.65	9.16	6.12	ppb
Silicon	28-1	602.30	602.28	611.12	605.23	0.84	ppb
Silver	107-1	1.07	1.03	1.05	1.05	1.82	ppb
Silver	109-1	1.07	1.04	1.07	1.06	1.74	ppb
Sodium	23-2	1759.18	1743.17	1751.07	1751.14	0.46	ppb
Strontium	86-1	6701.62	6843.71	6821.54	6788.96	1.13	ppb
Strontium	88-1	6561.38	6740.19	6693.94	6665.17	1.39	ppb
Sulfur	34-1	2933.00	2625.91	2787.94	2782.28	5.52	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.23	0.22	0.22	0.22	3.21	ppb
Thallium	205-1	0.23	0.23	0.22	0.23	0.92	ppb
Tin	118-1	13.35	13.14	13.09	13.19	1.05	ppb
Titanium	47-1	717.14	717.68	717.36	717.39	0.04	ppb
Uranium	238-1	2.14	2.11	2.15	2.13	0.96	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	37.15	36.99	38.19	37.45	1.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				114		%
Zinc	66-2	928.85	938.67	951.58	939.70	1.21	ppb
Zirconium	90-1	4.47	4.53	4.57	4.52	1.22	ppb
Zirconium	91-1	4.52	4.50	4.60	4.54	1.18	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14101.66	14166.97	14112.45	14127.03	0.25	ppb
Antimony	121-1	11.56	12.81	11.51	11.96	6.14	ppb
Arsenic	75-2	61.61	61.81	62.74	62.05	0.97	ppb
Barium	135-1	396.91	438.07	395.86	410.28	5.87	ppb
Barium	137-1	394.38	437.07	391.14	407.53	6.29	ppb
Beryllium	9-1	1.89	2.01	1.80	1.90	5.54	ppb
Bismuth	209-1				96		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	5.45	6.45	5.15	5.68	11.93	ppb
Cadmium	106-1	4.99	5.72	6.68	5.80	14.61	ppb
Cadmium	111-1	4.25	4.74	4.45	4.48	5.54	ppb
Calcium	43-1	71152.62	76444.34	70096.99	72564.65	4.69	ppb
Calcium	44-1	70771.06	75329.41	69068.63	71723.04	4.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	861.81	828.49	844.63	844.98	1.97	ppb
Cobalt	59-2	35.13	34.33	35.18	34.88	1.38	ppb
Copper	63-2	1998.18	2015.27	1999.46	2004.30	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				100		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	218244.52	215831.17	220584.00	218219.90	1.09	ppb
Iron	56-2	212328.02	213947.70	212392.68	212889.47	0.43	ppb
Iron	57-2	217232.05	215329.81	217262.79	216608.22	0.51	ppb
Krypton	83-1						cps
Lead	206-1	1059.54	1163.65	1032.12	1085.10	6.40	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1035.36	1102.60	1014.35	1050.77	4.39	ppb
Lead	208-1	1047.15	1123.17	1019.38	1063.23	5.05	ppb
Lithium	6-1				81		%
Magnesium	24-2	16631.47	16883.97	16736.68	16750.70	0.76	ppb
Manganese	55-2	2573.09	2523.40	2569.47	2555.32	1.08	ppb
Molybdenum	94-1	97.00	107.06	95.17	99.74	6.41	ppb
Molybdenum	95-1	116.67	130.02	109.27	118.65	8.87	ppb
Molybdenum	96-1	113.55	129.14	110.41	117.70	8.52	ppb
Molybdenum	97-1	111.33	122.70	108.56	114.20	6.56	ppb
Molybdenum	98-1	116.21	127.57	112.86	118.88	6.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	395.14	398.72	396.52	396.79	0.45	ppb
Phosphorus	31-2	856.87	906.14	900.25	887.75	3.03	ppb
Potassium	39-2	3069.06	3074.87	3077.14	3073.69	0.14	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	0.24	0.16	-0.03	0.13	110.09	ppb
Selenium	77-2	24.73	29.96	25.39	26.69	10.66	ppb
Selenium	78-2	6.18	5.87	9.27	7.11	26.47	ppb
Silicon	28-1	519.43	571.01	524.76	538.40	5.27	ppb
Silver	107-1	1.10	1.18	1.08	1.12	4.70	ppb
Silver	109-1	1.09	1.20	1.10	1.13	5.28	ppb
Sodium	23-2	903.03	900.27	903.46	902.25	0.19	ppb
Strontium	86-1	4196.16	4588.67	4128.04	4304.29	5.78	ppb
Strontium	88-1	4321.02	4728.12	4326.16	4458.43	5.24	ppb
Sulfur	34-1	1603.64	2326.97	1606.13	1845.58	22.59	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.19	0.21	0.19	0.20	5.69	ppb
Thallium	205-1	0.19	0.21	0.19	0.20	7.03	ppb
Tin	118-1	712.65	797.93	703.00	737.86	7.08	ppb
Titanium	47-1	484.87	512.42	468.73	488.67	4.52	ppb
Uranium	238-1	1.65	1.81	1.68	1.71	4.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	68.76	68.00	67.84	68.20	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	1311.68	1295.75	1310.86	1306.10	0.69	ppb
Zirconium	90-1	3.45	3.84	3.38	3.56	7.00	ppb
Zirconium	91-1	3.62	3.84	3.38	3.61	6.30	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15303.76	15453.78	15905.03	15554.19	2.01	ppb
Antimony	121-1	3.59	3.71	3.81	3.70	2.92	ppb
Arsenic	75-2	21.43	22.67	22.73	22.28	3.30	ppb
Barium	135-1	245.41	255.35	261.89	254.22	3.27	ppb
Barium	137-1	259.71	271.11	278.01	269.61	3.43	ppb
Beryllium	9-1	1.65	1.62	1.63	1.63	1.02	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	2.96	2.97	2.69	2.87	5.49	ppb
Cadmium	106-1	3.67	3.63	3.58	3.63	1.18	ppb
Cadmium	111-1	1.88	1.98	2.16	2.01	6.94	ppb
Calcium	43-1	69406.19	68726.46	71511.17	69881.27	2.08	ppb
Calcium	44-1	68032.73	69987.98	70771.12	69597.28	2.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	530.54	535.77	550.09	538.80	1.88	ppb
Cobalt	59-2	19.96	20.18	20.49	20.21	1.32	ppb
Copper	63-2	390.40	397.81	406.23	398.15	1.99	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				105		%
Holmium	165-2				101		%
Indium	115-1				107		%
Indium	115-2				100		%
Iron	54-2	106433.41	109024.83	112104.11	109187.45	2.60	ppb
Iron	56-2	106253.79	108125.41	109003.02	107794.07	1.30	ppb
Iron	57-2	105455.86	107990.85	107510.19	106985.63	1.26	ppb
Krypton	83-1						cps
Lead	206-1	286.98	291.66	304.10	294.25	3.01	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	280.98	284.17	289.88	285.01	1.58	ppb
Lead	208-1	281.38	281.97	291.68	285.01	2.03	ppb
Lithium	6-1				84		%
Magnesium	24-2	20820.71	21075.17	21145.46	21013.78	0.81	ppb
Manganese	55-2	1589.44	1599.55	1653.68	1614.22	2.14	ppb
Molybdenum	94-1	46.42	48.09	48.90	47.81	2.64	ppb
Molybdenum	95-1	50.04	51.62	52.65	51.44	2.55	ppb
Molybdenum	96-1	50.28	51.90	52.36	51.52	2.12	ppb
Molybdenum	97-1	51.31	52.44	53.56	52.44	2.15	ppb
Molybdenum	98-1	50.05	51.16	51.43	50.88	1.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	222.11	223.90	228.20	224.73	1.39	ppb
Phosphorus	31-2	781.11	812.52	746.53	780.05	4.23	ppb
Potassium	39-2	2356.14	2387.37	2417.34	2386.95	1.28	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				113		%
Scandium	45-2				106		%
Selenium	82-1	0.37	0.07	0.06	0.17	104.87	ppb
Selenium	77-2	32.59	27.82	33.09	31.17	9.34	ppb
Selenium	78-2	5.37	6.30	6.30	5.99	8.99	ppb
Silicon	28-1	304.33	305.67	317.31	309.10	2.31	ppb
Silver	107-1	0.46	0.46	0.48	0.47	2.42	ppb
Silver	109-1	0.47	0.46	0.48	0.47	1.50	ppb
Sodium	23-2	645.85	664.54	676.92	662.44	2.36	ppb
Strontium	86-1	4451.67	4579.18	4674.60	4568.48	2.45	ppb
Strontium	88-1	4426.06	4556.34	4620.22	4534.21	2.18	ppb
Sulfur	34-1	1273.01	1529.20	1583.10	1461.77	11.33	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	0.25	0.26	0.26	0.26	1.71	ppb
Thallium	205-1	0.25	0.26	0.27	0.26	4.41	ppb
Tin	118-1	91.04	90.32	94.09	91.82	2.18	ppb
Titanium	47-1	402.44	417.53	419.16	413.04	2.23	ppb
Uranium	238-1	1.80	1.80	1.85	1.81	1.50	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.75	51.74	52.93	52.14	1.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				110		%
Zinc	66-2	909.90	924.70	939.78	924.79	1.62	ppb
Zirconium	90-1	2.77	2.85	2.90	2.84	2.18	ppb
Zirconium	91-1	2.64	2.89	2.86	2.80	4.84	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8470.25	8259.92	8343.02	8357.73	1.27	ppb
Antimony	121-1	4.49	4.38	4.45	4.44	1.24	ppb
Arsenic	75-2	30.35	29.37	30.12	29.95	1.71	ppb
Barium	135-1	277.50	275.49	290.16	281.05	2.83	ppb
Barium	137-1	291.60	286.44	292.37	290.13	1.11	ppb
Beryllium	9-1	1.82	1.77	1.83	1.81	1.85	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	10.00	9.77	9.54	9.77	2.38	ppb
Cadmium	106-1	9.78	10.77	9.83	10.13	5.51	ppb
Cadmium	111-1	9.50	9.59	9.67	9.59	0.87	ppb
Calcium	43-1	93640.71	91112.30	93896.00	92883.00	1.66	ppb
Calcium	44-1	94009.51	89202.12	93819.73	92343.79	2.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	546.07	538.73	531.71	538.84	1.33	ppb
Cobalt	59-2	14.42	14.30	14.37	14.37	0.42	ppb
Copper	63-2	119.67	118.43	119.59	119.23	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				104		%
Holmium	165-2				100		%
Indium	115-1				106		%
Indium	115-2				99		%
Iron	54-2	323491.13	323975.33	317169.40	321545.29	1.18	ppb
Iron	56-2	317336.41	318178.40	320155.57	318556.79	0.45	ppb
Iron	57-2	322215.21	312633.84	317372.48	317407.17	1.51	ppb
Krypton	83-1						cps
Lead	206-1	1915.04	1907.27	1881.72	1901.34	0.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1795.14	1771.10	1781.06	1782.43	0.68	ppb
Lead	208-1	1826.43	1792.49	1822.38	1813.77	1.02	ppb
Lithium	6-1				81		%
Magnesium	24-2	16623.00	16310.77	16774.08	16569.28	1.43	ppb
Manganese	55-2	13431.05	13257.37	13463.14	13383.85	0.83	ppb
Molybdenum	94-1	22.85	23.16	22.52	22.84	1.40	ppb
Molybdenum	95-1	20.95	21.00	20.70	20.88	0.77	ppb
Molybdenum	96-1	21.65	21.83	21.33	21.61	1.17	ppb
Molybdenum	97-1	20.67	21.22	20.77	20.89	1.39	ppb
Molybdenum	98-1	20.60	20.71	20.44	20.58	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	279.39	278.38	276.04	277.94	0.62	ppb
Phosphorus	31-2	1187.54	1197.20	1188.90	1191.22	0.44	ppb
Potassium	39-2	1660.92	1638.78	1644.77	1648.16	0.70	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				112		%
Scandium	45-2				104		%
Selenium	82-1	0.46	0.39	0.37	0.41	11.32	ppb
Selenium	77-2	8.42	14.10	11.50	11.34	25.08	ppb
Selenium	78-2	2.51	5.03	2.96	3.50	38.37	ppb
Silicon	28-1	183.17	181.59	176.26	180.34	2.01	ppb
Silver	107-1	5.49	5.59	5.56	5.55	0.92	ppb
Silver	109-1	5.59	5.61	5.56	5.59	0.39	ppb
Sodium	23-2	878.34	876.18	888.92	881.15	0.77	ppb
Strontium	86-1	3202.00	3227.56	3187.60	3205.72	0.63	ppb
Strontium	88-1	3347.51	3275.84	3320.45	3314.60	1.09	ppb
Sulfur	34-1	1222.63	1125.04	1352.36	1233.34	9.25	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	3.05	3.11	3.07	3.08	0.92	ppb
Thallium	205-1	3.09	3.10	3.14	3.11	0.86	ppb
Tin	118-1	18.08	17.89	17.80	17.92	0.77	ppb
Titanium	47-1	580.66	562.98	575.31	572.98	1.58	ppb
Uranium	238-1	0.81	0.82	0.82	0.82	0.91	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	61.27	61.10	61.11	61.16	0.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				107		%
Zinc	66-2	5139.46	5071.63	5108.63	5106.57	0.67	ppb
Zirconium	90-1	3.02	3.05	3.08	3.05	0.96	ppb
Zirconium	91-1	3.06	3.10	2.98	3.05	1.98	ppb

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9657.60	9439.94	9542.57	9546.70	1.14	ppb
Antimony	121-1	5.07	4.97	5.00	5.01	1.02	ppb
Arsenic	75-2	33.68	32.98	32.48	33.05	1.82	ppb
Barium	135-1	301.15	298.74	296.35	298.74	0.80	ppb
Barium	137-1	308.34	300.83	303.83	304.34	1.24	ppb
Beryllium	9-1	2.14	2.02	2.02	2.06	3.35	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	10.97	10.53	11.00	10.83	2.42	ppb
Cadmium	106-1	11.60	11.65	11.87	11.71	1.25	ppb
Cadmium	111-1	10.47	10.24	10.35	10.35	1.15	ppb
Calcium	43-1	91371.55	94190.24	94208.96	93256.92	1.75	ppb
Calcium	44-1	91525.61	94702.76	94186.66	93471.68	1.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1478.59	1465.07	1490.37	1478.01	0.86	ppb
Cobalt	59-2	22.12	21.93	22.10	22.05	0.47	ppb
Copper	63-2	161.82	161.68	162.24	161.91	0.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				99		%
Indium	115-1				107		%
Indium	115-2				97		%
Iron	54-2	309545.89	304333.70	312516.27	308798.62	1.34	ppb
Iron	56-2	304795.80	301066.63	302078.23	302646.89	0.64	ppb
Iron	57-2	303133.66	305610.68	307675.57	305473.30	0.74	ppb
Krypton	83-1						cps
Lead	206-1	2147.35	2070.24	2099.13	2105.57	1.85	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1980.14	1948.21	1958.54	1962.30	0.83	ppb
Lead	208-1	2022.96	1977.61	1980.73	1993.77	1.27	ppb
Lithium	6-1				84		%
Magnesium	24-2	19611.90	19437.48	19346.24	19465.21	0.69	ppb
Manganese	55-2	11101.48	10898.86	11052.32	11017.55	0.96	ppb
Molybdenum	94-1	33.80	33.32	33.76	33.63	0.80	ppb
Molybdenum	95-1	33.88	33.60	34.04	33.84	0.66	ppb
Molybdenum	96-1	34.56	34.08	34.72	34.45	0.97	ppb
Molybdenum	97-1	34.68	34.33	34.25	34.42	0.67	ppb
Molybdenum	98-1	34.03	33.71	33.96	33.90	0.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	900.72	894.55	917.03	904.10	1.29	ppb
Phosphorus	31-2	1188.68	1157.70	1229.36	1191.91	3.02	ppb
Potassium	39-2	1926.62	1911.59	1927.58	1921.93	0.47	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				112		%
Scandium	45-2				102		%
Selenium	82-1	0.17	0.07	0.03	0.09	76.50	ppb
Selenium	77-2	14.58	21.87	12.24	16.23	30.94	ppb
Selenium	78-2	3.73	3.77	2.20	3.23	27.66	ppb
Silicon	28-1	235.34	236.19	233.69	235.07	0.54	ppb
Silver	107-1	6.01	5.93	6.00	5.98	0.74	ppb
Silver	109-1	6.06	6.03	6.22	6.10	1.64	ppb
Sodium	23-2	893.58	902.88	907.37	901.27	0.78	ppb
Strontium	86-1	3551.03	3548.73	3544.41	3548.05	0.09	ppb
Strontium	88-1	3618.11	3616.23	3631.11	3621.82	0.22	ppb
Sulfur	34-1	2056.77	1942.82	2147.17	2048.92	5.00	ppb
Terbium	159-1				104		%
Terbium	159-2				98		%
Thallium	203-1	2.69	2.72	2.71	2.70	0.63	ppb
Thallium	205-1	2.78	2.69	2.71	2.73	1.75	ppb
Tin	118-1	23.46	23.17	23.39	23.34	0.65	ppb
Titanium	47-1	502.17	505.67	480.99	496.28	2.69	ppb
Uranium	238-1	0.93	0.91	0.90	0.91	1.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	61.97	61.20	61.81	61.66	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				104		%
Zinc	66-2	5694.92	5599.68	5576.05	5623.55	1.12	ppb
Zirconium	90-1	2.95	2.89	3.00	2.95	1.77	ppb
Zirconium	91-1	2.99	2.95	2.95	2.96	0.76	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10146.47	10154.14	9704.42	10001.68	2.57	ppb
Antimony	121-1	5.02	4.92	4.88	4.94	1.39	ppb
Arsenic	75-2	34.62	34.81	33.82	34.42	1.52	ppb
Barium	135-1	295.25	291.83	292.21	293.10	0.64	ppb
Barium	137-1	302.32	293.78	292.04	296.05	1.86	ppb
Beryllium	9-1	2.07	2.08	2.10	2.09	0.80	ppb
Bismuth	209-1				105		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	10.59	10.46	10.79	10.61	1.56	ppb
Cadmium	106-1	12.20	11.31	12.11	11.87	4.14	ppb
Cadmium	111-1	10.19	10.06	10.11	10.12	0.67	ppb
Calcium	43-1	94150.15	93703.51	93859.50	93904.39	0.24	ppb
Calcium	44-1	95509.97	94545.29	92359.71	94138.32	1.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1566.32	1627.30	1558.24	1583.95	2.38	ppb
Cobalt	59-2	23.52	23.70	22.54	23.25	2.70	ppb
Copper	63-2	171.18	172.94	163.62	169.25	2.93	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				107		%
Holmium	165-2				96		%
Indium	115-1				108		%
Indium	115-2				93		%
Iron	54-2	323972.71	334955.35	316393.95	325107.34	2.87	ppb
Iron	56-2	322015.84	322387.80	308802.10	317735.25	2.44	ppb
Iron	57-2	330470.93	328679.65	314017.90	324389.49	2.78	ppb
Krypton	83-1						cps
Lead	206-1	2104.52	2031.92	2060.92	2065.79	1.77	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1965.96	1914.50	1926.21	1935.56	1.39	ppb
Lead	208-1	2006.99	1945.25	1979.87	1977.37	1.57	ppb
Lithium	6-1				84		%
Magnesium	24-2	21111.28	20567.08	19906.30	20528.22	2.94	ppb
Manganese	55-2	11659.10	11868.30	11364.26	11630.55	2.18	ppb
Molybdenum	94-1	33.29	32.64	32.82	32.92	1.01	ppb
Molybdenum	95-1	33.54	33.22	33.61	33.46	0.62	ppb
Molybdenum	96-1	33.64	33.88	34.14	33.89	0.74	ppb
Molybdenum	97-1	34.11	33.41	33.51	33.68	1.12	ppb
Molybdenum	98-1	33.28	32.77	32.97	33.00	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	969.10	974.04	924.94	956.03	2.83	ppb
Phosphorus	31-2	1323.65	1319.10	1217.85	1286.87	4.65	ppb
Potassium	39-2	2045.02	2037.29	1951.56	2011.29	2.58	ppb
Rhodium	103-1				105		%
Rhodium	103-2				96		%
Scandium	45-1				112		%
Scandium	45-2				98		%
Selenium	82-1	0.38	-0.27	-0.03	0.03	1297.87	ppb
Selenium	77-2	14.02	15.37	9.78	13.06	22.32	ppb
Selenium	78-2	3.04	2.75	4.63	3.47	29.14	ppb
Silicon	28-1	233.77	235.03	234.79	234.53	0.29	ppb
Silver	107-1	6.05	5.84	5.73	5.87	2.76	ppb
Silver	109-1	6.02	5.91	5.81	5.92	1.77	ppb
Sodium	23-2	966.57	964.43	926.47	952.49	2.37	ppb
Strontium	86-1	3464.46	3480.18	3513.34	3485.99	0.72	ppb
Strontium	88-1	3665.76	3595.19	3521.49	3594.14	2.01	ppb
Sulfur	34-1	1989.85	2003.87	2180.36	2058.03	5.16	ppb
Terbium	159-1				107		%
Terbium	159-2				95		%
Thallium	203-1	2.66	2.63	2.73	2.67	1.83	ppb
Thallium	205-1	2.70	2.63	2.70	2.68	1.55	ppb
Tin	118-1	22.87	22.56	22.56	22.66	0.77	ppb
Titanium	47-1	497.85	482.00	478.86	486.23	2.09	ppb
Uranium	238-1	0.90	0.88	0.92	0.90	2.00	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	64.48	64.98	63.18	64.21	1.45	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				101		%
Zinc	66-2	6048.43	5989.17	5657.78	5898.46	3.57	ppb
Zirconium	90-1	2.92	2.85	2.89	2.88	1.26	ppb
Zirconium	91-1	2.88	2.84	2.84	2.85	0.81	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2042.33	2050.37	2002.32	2031.67	1.27	ppb
Antimony	121-1	1.27	1.09	1.06	1.14	9.84	ppb
Arsenic	75-2	7.03	6.92	7.20	7.05	2.00	ppb
Barium	135-1	73.68	61.81	59.57	65.02	11.66	ppb
Barium	137-1	75.33	63.16	60.40	66.30	11.98	ppb
Beryllium	9-1	0.54	0.45	0.43	0.47	12.94	ppb
Bismuth	209-1				97		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	2.81	2.38	2.29	2.49	11.11	ppb
Cadmium	106-1	3.61	3.17	4.07	3.62	12.50	ppb
Cadmium	111-1	2.71	2.33	2.21	2.42	10.89	ppb
Calcium	43-1	25581.49	21268.89	19971.81	22274.06	13.18	ppb
Calcium	44-1	25155.79	20935.90	19663.79	21918.49	13.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	308.22	322.21	311.51	313.98	2.33	ppb
Cobalt	59-2	4.64	4.73	4.60	4.66	1.45	ppb
Copper	63-2	34.79	34.66	33.74	34.39	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				98		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	64384.97	65639.53	64974.20	64999.57	0.97	ppb
Iron	56-2	65355.67	65520.28	63092.66	64656.20	2.10	ppb
Iron	57-2	65588.75	63773.89	64566.87	64643.17	1.41	ppb
Krypton	83-1						cps
Lead	206-1	570.68	474.62	444.85	496.72	13.24	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	535.90	444.93	419.34	466.73	13.13	ppb
Lead	208-1	539.60	452.19	425.12	472.30	12.67	ppb
Lithium	6-1				85		%
Magnesium	24-2	4184.94	4364.14	4097.47	4215.52	3.22	ppb
Manganese	55-2	2329.70	2358.22	2287.60	2325.17	1.53	ppb
Molybdenum	94-1	8.94	7.65	6.94	7.84	12.94	ppb
Molybdenum	95-1	9.05	7.83	7.08	7.98	12.48	ppb
Molybdenum	96-1	9.24	7.84	7.18	8.09	13.01	ppb
Molybdenum	97-1	9.29	7.85	7.09	8.08	13.82	ppb
Molybdenum	98-1	8.98	7.63	7.01	7.87	12.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	179.84	179.52	175.82	178.39	1.25	ppb
Phosphorus	31-2	255.46	263.39	258.44	259.10	1.55	ppb
Potassium	39-2	427.62	421.38	414.92	421.31	1.51	ppb
Rhodium	103-1				98		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	-0.21	-0.09	-0.30	-0.20		ppb
Selenium	77-2	2.03	1.98	2.50	2.17	13.43	ppb
Selenium	78-2	0.59	-0.09	0.72	0.41	107.67	ppb
Silicon	28-1	63.64	52.92	49.99	55.52	12.94	ppb
Silver	107-1	1.59	1.33	1.26	1.40	12.17	ppb
Silver	109-1	1.58	1.33	1.27	1.40	11.83	ppb
Sodium	23-2	310.49	315.66	306.47	310.87	1.48	ppb
Strontium	86-1	939.86	815.79	745.55	833.73	11.80	ppb
Strontium	88-1	980.49	851.37	765.87	865.91	12.48	ppb
Sulfur	34-1	1817.87	593.31	171.08	860.75	99.37	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.73	0.61	0.57	0.64	13.18	ppb
Thallium	205-1	0.73	0.62	0.58	0.64	12.13	ppb
Tin	118-1	6.01	4.99	4.81	5.27	12.22	ppb
Titanium	47-1	125.48	106.16	98.88	110.17	12.48	ppb
Uranium	238-1	0.24	0.21	0.19	0.21	11.80	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.83	12.88	12.92	12.88	0.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	1167.72	1180.66	1149.72	1166.03	1.33	ppb
Zirconium	90-1	0.76	0.64	0.60	0.66	12.54	ppb
Zirconium	91-1	0.76	0.61	0.58	0.65	15.32	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49398.61	48894.63	48228.23	48840.49	1.20	ppb
Antimony	121-1	514.22	510.28	517.35	513.95	0.69	ppb
Arsenic	75-2	499.18	501.61	496.33	499.04	0.53	ppb
Barium	135-1	2597.40	2517.28	2585.07	2566.58	1.68	ppb
Barium	137-1	2594.41	2559.50	2592.60	2582.17	0.76	ppb
Beryllium	9-1	547.47	529.39	544.53	540.47	1.80	ppb
Bismuth	209-1				86		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	513.02	515.91	515.21	514.71	0.29	ppb
Cadmium	106-1	519.97	516.36	522.79	519.71	0.62	ppb
Cadmium	111-1	503.23	510.44	512.04	508.57	0.92	ppb
Calcium	43-1	248799.27	250541.73	243018.90	247453.30	1.59	ppb
Calcium	44-1	249490.82	245876.32	241405.76	245590.97	1.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.24	505.66	500.17	503.35	0.57	ppb
Cobalt	59-2	488.71	491.54	486.24	488.83	0.54	ppb
Copper	63-2	4692.23	4773.04	4666.76	4710.68	1.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				97		%
Indium	115-1				93		%
Indium	115-2				90		%
Iron	54-2	124794.69	124948.74	124773.25	124838.89	0.08	ppb
Iron	56-2	122793.48	124277.20	120957.54	122676.07	1.36	ppb
Iron	57-2	124228.78	125006.74	122873.02	124036.18	0.87	ppb
Krypton	83-1						cps
Lead	206-1	2637.91	2592.98	2621.03	2617.31	0.87	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2573.28	2570.04	2560.24	2567.85	0.26	ppb
Lead	208-1	2592.73	2551.77	2586.19	2576.90	0.85	ppb
Lithium	6-1				80		%
Magnesium	24-2	253172.54	250435.74	249865.88	251158.05	0.70	ppb
Manganese	55-2	4907.91	4904.82	4853.95	4888.89	0.62	ppb
Molybdenum	94-1	5012.62	5051.50	5114.51	5059.54	1.02	ppb
Molybdenum	95-1	4959.60	4931.23	5135.34	5008.72	2.21	ppb
Molybdenum	96-1	5001.99	4883.33	5075.77	4987.03	1.95	ppb
Molybdenum	97-1	5010.74	5059.24	5061.67	5043.88	0.57	ppb
Molybdenum	98-1	4916.84	5017.55	5113.23	5015.88	1.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.45	494.01	489.78	492.08	0.43	ppb
Phosphorus	31-2	10006.75	10047.01	9754.33	9936.03	1.60	ppb
Potassium	39-2	123844.86	124537.47	124193.61	124191.98	0.28	ppb
Rhodium	103-1				87		%
Rhodium	103-2				88		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	484.58	492.97	493.90	490.48	1.05	ppb
Selenium	77-2	522.15	470.16	522.40	504.90	5.96	ppb
Selenium	78-2	485.56	489.42	474.26	483.08	1.63	ppb
Silicon	28-1	503.81	494.47	496.81	498.37	0.98	ppb
Silver	107-1	496.38	502.10	492.70	497.06	0.95	ppb
Silver	109-1	498.02	500.22	509.69	502.64	1.23	ppb
Sodium	23-2	259566.35	254373.47	254676.33	256205.38	1.14	ppb
Strontium	86-1	12931.16	12481.39	12836.58	12749.71	1.86	ppb
Strontium	88-1	12803.01	12435.05	12877.23	12705.10	1.86	ppb
Sulfur	34-1	11481.12	11149.69	11094.61	11241.81	1.86	ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	526.59	518.84	527.23	524.22	0.89	ppb
Thallium	205-1	528.16	510.97	523.21	520.78	1.70	ppb
Tin	118-1	515.73	518.68	511.97	515.46	0.65	ppb
Titanium	47-1	5084.16	4934.17	5020.93	5013.09	1.50	ppb
Uranium	238-1	522.40	509.31	521.57	517.76	1.42	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	502.01	505.26	498.18	501.82	0.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	4913.86	5006.56	4897.18	4939.20	1.19	ppb
Zirconium	90-1	510.14	509.90	509.61	509.88	0.05	ppb
Zirconium	91-1	502.45	502.66	516.96	507.36	1.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.31	1.16	1.35	1.27	7.94	ppb
Antimony	121-1	0.14	0.12	0.11	0.12	15.16	ppb
Arsenic	75-2	0.01	0.01	0.00	0.01	90.47	ppb
Barium	135-1	0.02	0.02	0.02	0.02	19.54	ppb
Barium	137-1	0.02	0.01	0.02	0.02	32.10	ppb
Beryllium	9-1	0.12	0.11	0.10	0.11	10.63	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.02	0.03	0.04	82.52	ppb
Cadmium	106-1	1.02	1.08	1.35	1.15	15.06	ppb
Cadmium	111-1	0.11	0.10	0.12	0.11	9.67	ppb
Calcium	43-1	4.65	4.20	2.56	3.81	28.99	ppb
Calcium	44-1	7.76	6.17	5.60	6.51	17.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.07	0.07	0.07	1.52	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	43.92	ppb
Copper	63-2	0.12	0.09	0.08	0.09	21.25	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				99		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	54-2	2.54	2.14	3.00	2.56	16.78	ppb
Iron	56-2	2.40	2.67	2.59	2.55	5.37	ppb
Iron	57-2	2.53	2.07	2.88	2.50	16.37	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.19	0.17	0.19	8.03	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.16	0.15	0.17	9.53	ppb
Lead	208-1	0.19	0.17	0.16	0.18	7.61	ppb
Lithium	6-1				90		%
Magnesium	24-2	-1.50	-1.89	-1.76	-1.72		ppb
Manganese	55-2	0.08	0.16	0.09	0.11	41.23	ppb
Molybdenum	94-1	0.26	0.20	0.17	0.21	21.30	ppb
Molybdenum	95-1	0.26	0.17	0.14	0.19	32.29	ppb
Molybdenum	96-1	0.27	0.18	0.14	0.20	32.04	ppb
Molybdenum	97-1	0.26	0.19	0.16	0.20	25.66	ppb
Molybdenum	98-1	0.24	0.16	0.15	0.18	28.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.07	0.04	0.02	0.04	57.79	ppb
Phosphorus	31-2	-14.17	-17.81	-20.30	-17.42		ppb
Potassium	39-2	32.06	31.36	31.60	31.67	1.11	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				101		%
Selenium	82-1	0.09	-0.03	-0.10	-0.01		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	0.25	0.09	0.09	0.15	63.97	ppb
Silicon	28-1	0.13	0.15	0.03	0.10	65.02	ppb
Silver	107-1	0.06	0.06	0.06	0.06	6.16	ppb
Silver	109-1	0.07	0.06	0.05	0.06	13.27	ppb
Sodium	23-2	132.55	133.03	128.58	131.39	1.86	ppb
Strontium	86-1	0.26	0.21	0.36	0.27	27.42	ppb
Strontium	88-1	0.24	0.14	0.13	0.17	35.55	ppb
Sulfur	34-1	-174.69	-163.43	-174.64	-170.92		ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.06	0.06	0.05	0.06	13.34	ppb
Thallium	205-1	0.07	0.06	0.05	0.06	13.81	ppb
Tin	118-1	0.07	0.08	0.07	0.07	11.63	ppb
Titanium	47-1	0.10	0.09	0.08	0.09	10.35	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	40.52	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	75.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	0.71	0.69	0.63	0.68	6.44	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	29.32	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	31.37	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9483.10	9580.59	9497.13	9520.27	0.55	ppb
Antimony	121-1	24.31	24.84	24.70	24.62	1.12	ppb
Arsenic	75-2	39.71	40.77	39.12	39.87	2.10	ppb
Barium	135-1	663.17	700.24	688.18	683.86	2.76	ppb
Barium	137-1	665.72	705.80	682.74	684.75	2.94	ppb
Beryllium	9-1	11.33	11.93	11.39	11.55	2.87	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	18.07	18.73	18.42	18.40	1.78	ppb
Cadmium	106-1	18.77	19.65	19.38	19.27	2.33	ppb
Cadmium	111-1	19.20	20.09	19.50	19.60	2.30	ppb
Calcium	43-1	90267.15	94568.90	90444.91	91760.32	2.65	ppb
Calcium	44-1	90656.92	92563.63	90762.47	91327.68	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1474.09	1490.38	1478.61	1481.03	0.57	ppb
Cobalt	59-2	118.86	118.89	117.43	118.39	0.70	ppb
Copper	63-2	212.37	211.21	207.64	210.40	1.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				100		%
Indium	115-1				106		%
Indium	115-2				99		%
Iron	54-2	294793.99	302305.42	295258.10	297452.50	1.42	ppb
Iron	56-2	291628.48	294481.73	288784.70	291631.64	0.98	ppb
Iron	57-2	301861.89	293680.97	295173.36	296905.41	1.47	ppb
Krypton	83-1						cps
Lead	206-1	2037.49	2061.54	2021.91	2040.31	0.98	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1947.02	1947.84	1908.42	1934.43	1.16	ppb
Lead	208-1	1950.15	1966.95	1931.03	1949.38	0.92	ppb
Lithium	6-1				86		%
Magnesium	24-2	18862.96	18781.12	18850.55	18831.54	0.23	ppb
Manganese	55-2	10568.72	10904.03	10562.97	10678.57	1.83	ppb
Molybdenum	94-1	32.49	32.50	32.28	32.42	0.39	ppb
Molybdenum	95-1	33.19	32.70	32.51	32.80	1.08	ppb
Molybdenum	96-1	33.46	33.53	33.22	33.40	0.50	ppb
Molybdenum	97-1	33.09	33.68	33.40	33.39	0.88	ppb
Molybdenum	98-1	32.62	32.27	32.63	32.50	0.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	967.44	990.07	950.98	969.49	2.02	ppb
Phosphorus	31-2	1078.34	1174.30	1144.43	1132.36	4.34	ppb
Potassium	39-2	1849.03	1871.35	1807.06	1842.48	1.77	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				110		%
Scandium	45-2				103		%
Selenium	82-1	19.17	18.91	19.65	19.25	1.95	ppb
Selenium	77-2	37.63	29.34	31.92	32.96	12.87	ppb
Selenium	78-2	21.70	22.31	20.71	21.58	3.73	ppb
Silicon	28-1	227.81	235.74	231.13	231.56	1.72	ppb
Silver	107-1	15.23	15.67	15.53	15.48	1.48	ppb
Silver	109-1	15.38	15.97	15.56	15.64	1.95	ppb
Sodium	23-2	839.49	840.29	840.67	840.15	0.07	ppb
Strontium	86-1	3429.65	3472.64	3389.38	3430.55	1.21	ppb
Strontium	88-1	3546.22	3573.93	3483.95	3534.70	1.30	ppb
Sulfur	34-1	1942.67	2207.08	2141.25	2097.00	6.56	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	11.87	11.96	11.99	11.94	0.50	ppb
Thallium	205-1	11.91	12.03	11.88	11.94	0.67	ppb
Tin	118-1	21.91	22.55	21.99	22.15	1.57	ppb
Titanium	47-1	476.09	477.71	477.20	477.00	0.17	ppb
Uranium	238-1	0.90	0.89	0.88	0.89	1.21	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	155.76	155.85	154.16	155.26	0.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	5476.73	5532.55	5376.43	5461.90	1.45	ppb
Zirconium	90-1	2.86	2.87	2.86	2.86	0.22	ppb
Zirconium	91-1	2.88	2.85	2.83	2.85	0.84	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12921.57	12442.42	12408.78	12590.92	2.28	ppb
Antimony	121-1	0.61	0.63	0.63	0.63	2.30	ppb
Arsenic	75-2	20.75	22.09	21.24	21.36	3.17	ppb
Barium	135-1	123.02	124.47	127.24	124.91	1.72	ppb
Barium	137-1	126.28	125.13	129.30	126.90	1.69	ppb
Beryllium	9-1	1.23	1.25	1.24	1.24	0.82	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.77	1.86	1.75	1.80	3.09	ppb
Cadmium	106-1	3.49	2.71	3.86	3.35	17.48	ppb
Cadmium	111-1	1.77	1.69	1.80	1.76	3.16	ppb
Calcium	43-1	69468.74	72132.51	69715.66	70438.97	2.09	ppb
Calcium	44-1	68570.06	71470.67	70761.89	70267.54	2.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42.17	41.59	42.02	41.93	0.73	ppb
Cobalt	59-2	20.90	21.17	20.91	20.99	0.74	ppb
Copper	63-2	81.34	81.28	82.07	81.57	0.54	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				101		%
Indium	115-1				106		%
Indium	115-2				99		%
Iron	54-2	45638.39	45424.66	44734.78	45265.95	1.04	ppb
Iron	56-2	44457.26	44682.22	43702.22	44280.57	1.16	ppb
Iron	57-2	44543.35	44964.89	45126.78	44878.34	0.67	ppb
Krypton	83-1						cps
Lead	206-1	61.12	61.20	62.57	61.63	1.32	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	58.16	59.00	59.87	59.01	1.45	ppb
Lead	208-1	60.34	61.06	61.86	61.09	1.24	ppb
Lithium	6-1				88		%
Magnesium	24-2	13518.02	13515.10	13283.44	13438.85	1.00	ppb
Manganese	55-2	1066.70	1054.72	1038.82	1053.41	1.33	ppb
Molybdenum	94-1	8.53	8.70	8.63	8.62	1.02	ppb
Molybdenum	95-1	6.41	6.44	6.28	6.38	1.32	ppb
Molybdenum	96-1	6.55	6.66	6.52	6.57	1.13	ppb
Molybdenum	97-1	6.40	6.59	6.37	6.45	1.85	ppb
Molybdenum	98-1	6.32	6.32	6.21	6.28	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	63.58	62.21	62.23	62.67	1.25	ppb
Phosphorus	31-2	1957.71	1866.55	1980.99	1935.08	3.13	ppb
Potassium	39-2	1829.27	1788.60	1802.33	1806.73	1.15	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				112		%
Scandium	45-2				105		%
Selenium	82-1	0.62	0.74	0.49	0.62	20.57	ppb
Selenium	77-2	46.83	36.26	42.71	41.93	12.71	ppb
Selenium	78-2	6.78	6.51	7.44	6.91	6.93	ppb
Silicon	28-1	144.59	143.00	145.70	144.43	0.94	ppb
Silver	107-1	0.25	0.23	0.23	0.24	4.63	ppb
Silver	109-1	0.25	0.23	0.23	0.24	5.58	ppb
Sodium	23-2	536.05	538.79	538.32	537.72	0.27	ppb
Strontium	86-1	2497.59	2550.44	2467.36	2505.13	1.68	ppb
Strontium	88-1	2572.20	2617.46	2566.16	2585.27	1.08	ppb
Sulfur	34-1	-233.97	0.31	-17.59	-83.75		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.32	0.33	0.32	0.32	1.96	ppb
Thallium	205-1	0.31	0.32	0.33	0.32	2.27	ppb
Tin	118-1	2.53	2.62	2.70	2.62	3.27	ppb
Titanium	47-1	100.70	102.84	101.16	101.57	1.11	ppb
Uranium	238-1	1.61	1.61	1.63	1.62	0.67	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	39.21	38.34	38.16	38.57	1.45	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				107		%
Zinc	66-2	197.68	196.01	193.33	195.67	1.12	ppb
Zirconium	90-1	1.78	1.85	1.81	1.81	1.82	ppb
Zirconium	91-1	1.83	1.86	1.77	1.82	2.61	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13151.93	12687.07	15484.83	13774.61	10.88	ppb
Antimony	121-1	2.04	2.09	2.01	2.05	1.97	ppb
Arsenic	75-2	17.87	16.77	20.87	18.50	11.47	ppb
Barium	135-1	198.32	202.34	191.35	197.34	2.82	ppb
Barium	137-1	208.70	216.86	200.15	208.57	4.01	ppb
Beryllium	9-1	1.44	1.43	1.39	1.42	1.62	ppb
Bismuth	209-1				101		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	6.28	6.17	6.38	6.27	1.64	ppb
Cadmium	106-1	7.46	7.41	8.33	7.73	6.73	ppb
Cadmium	111-1	6.43	6.49	6.35	6.42	1.10	ppb
Calcium	43-1	106293.24	106497.54	102802.48	105197.75	1.97	ppb
Calcium	44-1	107699.78	108544.97	104274.10	106839.62	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	413.85	396.75	479.53	430.04	10.16	ppb
Cobalt	59-2	15.81	15.31	18.62	16.58	10.76	ppb
Copper	63-2	157.78	153.94	184.80	165.51	10.16	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				98		%
Indium	115-1				107		%
Indium	115-2				96		%
Iron	54-2	148707.02	144584.56	171287.81	154859.80	9.28	ppb
Iron	56-2	143897.40	141771.15	168764.07	151477.54	9.91	ppb
Iron	57-2	146941.40	144037.39	170945.71	153974.83	9.59	ppb
Krypton	83-1						cps
Lead	206-1	649.88	652.22	621.04	641.05	2.71	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	624.38	619.19	591.48	611.69	2.89	ppb
Lead	208-1	634.30	630.78	595.38	620.15	3.47	ppb
Lithium	6-1				84		%
Magnesium	24-2	16944.28	16898.44	20157.78	18000.17	10.38	ppb
Manganese	55-2	6096.49	5823.23	7034.64	6318.12	10.06	ppb
Molybdenum	94-1	20.34	20.16	19.61	20.04	1.90	ppb
Molybdenum	95-1	19.75	19.38	18.96	19.36	2.05	ppb
Molybdenum	96-1	19.94	19.95	19.05	19.64	2.62	ppb
Molybdenum	97-1	20.05	20.00	18.89	19.65	3.33	ppb
Molybdenum	98-1	19.54	19.07	18.57	19.06	2.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	191.88	189.90	224.91	202.23	9.73	ppb
Phosphorus	31-2	1629.50	1611.58	1894.90	1711.99	9.27	ppb
Potassium	39-2	3397.08	3331.96	4048.43	3592.49	11.03	ppb
Rhodium	103-1				102		%
Rhodium	103-2				98		%
Scandium	45-1				112		%
Scandium	45-2				102		%
Selenium	82-1	0.60	0.47	0.32	0.47	30.45	ppb
Selenium	77-2	25.93	23.67	28.66	26.09	9.57	ppb
Selenium	78-2	3.76	4.33	5.39	4.49	18.49	ppb
Silicon	28-1	177.25	175.92	166.74	173.30	3.30	ppb
Silver	107-1	2.30	2.41	2.25	2.32	3.52	ppb
Silver	109-1	2.36	2.46	2.32	2.38	3.07	ppb
Sodium	23-2	665.37	656.50	795.63	705.83	11.04	ppb
Strontium	86-1	5687.01	5717.42	5452.18	5618.87	2.58	ppb
Strontium	88-1	5731.27	5682.03	5442.51	5618.61	2.75	ppb
Sulfur	34-1	1848.79	1997.26	1591.92	1812.66	11.31	ppb
Terbium	159-1				106		%
Terbium	159-2				97		%
Thallium	203-1	0.95	0.95	0.94	0.95	0.91	ppb
Thallium	205-1	0.96	0.98	0.93	0.95	2.98	ppb
Tin	118-1	11.27	11.40	10.89	11.19	2.39	ppb
Titanium	47-1	386.25	382.03	359.93	376.07	3.76	ppb
Uranium	238-1	1.30	1.30	1.25	1.28	2.35	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	86.66	85.65	103.11	91.80	10.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				105		%
Zinc	66-2	2110.15	2068.36	2482.61	2220.37	10.27	ppb
Zirconium	90-1	2.27	2.23	2.10	2.20	4.08	ppb
Zirconium	91-1	2.21	2.22	2.16	2.20	1.36	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13734.85	14044.83	13932.30	13903.99	1.13	ppb
Antimony	121-1	2.44	2.51	2.45	2.47	1.50	ppb
Arsenic	75-2	23.01	22.67	22.81	22.83	0.76	ppb
Barium	135-1	215.83	219.55	215.21	216.86	1.08	ppb
Barium	137-1	229.10	231.43	231.67	230.73	0.62	ppb
Beryllium	9-1	1.51	1.57	1.51	1.53	2.21	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	6.43	6.33	7.07	6.61	6.03	ppb
Cadmium	106-1	7.97	8.24	8.03	8.08	1.77	ppb
Cadmium	111-1	6.83	6.91	6.90	6.88	0.66	ppb
Calcium	43-1	109170.20	111560.27	107607.91	109446.13	1.82	ppb
Calcium	44-1	109706.96	113141.70	108758.94	110535.87	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	389.99	394.20	379.16	387.78	2.00	ppb
Cobalt	59-2	19.75	19.73	19.30	19.59	1.31	ppb
Copper	63-2	179.32	180.60	176.05	178.66	1.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				108		%
Indium	115-2				100		%
Iron	54-2	188300.71	189579.53	186260.61	188046.95	0.89	ppb
Iron	56-2	188892.08	187589.66	180487.39	185656.38	2.44	ppb
Iron	57-2	187270.23	186836.56	185279.32	186462.04	0.56	ppb
Krypton	83-1						cps
Lead	206-1	737.79	736.90	737.69	737.46	0.07	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	689.80	710.88	696.26	698.98	1.55	ppb
Lead	208-1	705.12	712.81	703.05	706.99	0.73	ppb
Lithium	6-1				84		%
Magnesium	24-2	18595.72	18567.75	18138.40	18433.96	1.39	ppb
Manganese	55-2	6364.66	6402.19	6162.53	6309.79	2.04	ppb
Molybdenum	94-1	17.94	18.36	18.13	18.14	1.16	ppb
Molybdenum	95-1	16.74	17.25	16.97	16.99	1.50	ppb
Molybdenum	96-1	17.37	17.85	17.35	17.52	1.61	ppb
Molybdenum	97-1	16.90	17.25	17.12	17.09	1.05	ppb
Molybdenum	98-1	16.57	16.98	16.70	16.75	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	203.10	205.28	203.52	203.97	0.57	ppb
Phosphorus	31-2	1789.27	1814.72	1716.17	1773.39	2.88	ppb
Potassium	39-2	3511.52	3463.62	3464.13	3479.76	0.79	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				114		%
Scandium	45-2				107		%
Selenium	82-1	0.67	0.52	0.89	0.69	26.88	ppb
Selenium	77-2	20.04	30.67	23.64	24.78	21.82	ppb
Selenium	78-2	5.70	6.58	6.16	6.15	7.18	ppb
Silicon	28-1	156.66	164.10	187.16	169.31	9.39	ppb
Silver	107-1	2.56	2.61	2.54	2.57	1.49	ppb
Silver	109-1	2.59	2.63	2.59	2.60	0.92	ppb
Sodium	23-2	710.69	714.17	693.64	706.17	1.56	ppb
Strontium	86-1	5699.90	5855.16	5820.81	5791.95	1.41	ppb
Strontium	88-1	5633.49	5728.03	5675.36	5678.96	0.83	ppb
Sulfur	34-1	1773.07	1891.80	1840.63	1835.17	3.25	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	1.07	1.04	1.06	1.05	1.36	ppb
Thallium	205-1	1.07	1.05	1.04	1.05	1.57	ppb
Tin	118-1	14.61	15.05	14.66	14.77	1.63	ppb
Titanium	47-1	366.20	384.52	381.10	377.27	2.58	ppb
Uranium	238-1	1.36	1.37	1.36	1.37	0.14	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	96.58	95.81	93.78	95.39	1.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				110		%
Zinc	66-2	2264.55	2277.82	2191.83	2244.74	2.06	ppb
Zirconium	90-1	2.28	2.30	2.25	2.28	0.95	ppb
Zirconium	91-1	2.26	2.30	2.20	2.25	2.33	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.90	-0.84	-0.93	-0.89		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	7.12	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	-0.01	-0.01	0.00	0.00		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.01	-0.01	-0.01		ppb
Bismuth	209-1				297		%
Bismuth	209-2				356		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.03	-0.02	-0.02		ppb
Cadmium	106-1	-6.34	-7.22	-6.70	-6.75		ppb
Cadmium	111-1	-0.49	-0.55	-0.51	-0.52		ppb
Calcium	43-1	-6.75	-7.16	-7.99	-7.30		ppb
Calcium	44-1	-9.48	-9.85	-10.73	-10.02		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.36	-0.37		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.32	-0.33	-0.33	-0.33		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				304		%
Holmium	165-2				370		%
Indium	115-1				312		%
Indium	115-2				358		%
Iron	54-2	-1.57	-1.87	-1.28	-1.58		ppb
Iron	56-2	-0.89	-0.92	-0.64	-0.82		ppb
Iron	57-2	-0.59	-1.02	-0.67	-0.76		ppb
Krypton	83-1						cps
Lead	206-1	0.02	-0.01	-0.01	0.00	677.13	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	-0.01	-0.01	0.00		ppb
Lead	208-1	0.01	-0.01	-0.01	0.00		ppb
Lithium	6-1				290		%
Magnesium	24-2	-3.68	-3.79	-3.70	-3.73		ppb
Manganese	55-2	-0.05	-0.06	-0.05	-0.05		ppb
Molybdenum	94-1	-0.02	0.00	-0.01	-0.01		ppb
Molybdenum	95-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	96-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	97-1	-0.01	-0.01	-0.01	-0.01		ppb
Molybdenum	98-1	-0.01	-0.01	-0.02	-0.01		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.25	-0.25	-0.25		ppb
Phosphorus	31-2	-39.32	-40.90	-38.36	-39.53		ppb
Potassium	39-2	-46.38	-47.92	-46.90	-47.07		ppb
Rhodium	103-1				304		%
Rhodium	103-2				376		%
Scandium	45-1				321		%
Scandium	45-2				389		%
Selenium	82-1	-0.08	-0.21	-0.05	-0.11		ppb
Selenium	77-2	-0.19	-0.05	-0.19	-0.14		ppb
Selenium	78-2	-0.45	-0.66	-0.41	-0.51		ppb
Silicon	28-1	-0.33	-1.05	-0.76	-0.71		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	173.50	ppb
Sodium	23-2	-27.52	-34.67	-30.36	-30.85		ppb
Strontium	86-1	5.96	1.83	1.64	3.14	77.66	ppb
Strontium	88-1	-0.01	-0.07	-0.08	-0.05		ppb
Sulfur	34-1	-5815.69	-5722.70	-5669.65	-5736.01		ppb
Terbium	159-1				305		%
Terbium	159-2				366		%
Thallium	203-1	0.00	0.00	0.00	0.00	1692.35	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	80.29	ppb
Tin	118-1	-0.22	-0.20	-0.20	-0.21		ppb
Titanium	47-1	-0.01	0.03	-0.01	0.00	417.62	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				317		%
Yttrium	89-2				372		%
Zinc	66-2	-0.34	-0.32	-0.30	-0.32		ppb
Zirconium	90-1	-0.01	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.78	-0.80	-0.86	-0.81		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	51.87	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	-0.01	-0.01	0.00	-0.01		ppb
Barium	137-1	-0.01	0.00	-0.01	-0.01		ppb
Beryllium	9-1	-0.02	-0.01	-0.01	-0.01		ppb
Bismuth	209-1				295		%
Bismuth	209-2				375		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.02	0.00	-0.01		ppb
Cadmium	106-1	-8.13	-6.17	-6.72	-7.01		ppb
Cadmium	111-1	-0.63	-0.47	-0.52	-0.54		ppb
Calcium	43-1	-9.32	-7.43	-8.87	-8.54		ppb
Calcium	44-1	-12.49	-10.08	-12.21	-11.59		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	-0.34	-0.34	-0.35	-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				295		%
Holmium	165-2				384		%
Indium	115-1				304		%
Indium	115-2				376		%
Iron	54-2	-1.82	-1.92	-2.14	-1.96		ppb
Iron	56-2	-1.04	-0.93	-1.23	-1.07		ppb
Iron	57-2	-0.94	-1.23	-1.31	-1.16		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	0.00	-0.02	-0.01		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	0.00	-0.02	-0.01		ppb
Lead	208-1	-0.01	0.00	-0.02	-0.01		ppb
Lithium	6-1				294		%
Magnesium	24-2	-3.64	-3.69	-3.82	-3.72		ppb
Manganese	55-2	-0.05	-0.05	-0.07	-0.06		ppb
Molybdenum	94-1	-0.03	-0.01	-0.02	-0.02		ppb
Molybdenum	95-1	-0.03	-0.02	-0.02	-0.02		ppb
Molybdenum	96-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	97-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	98-1	-0.02	-0.02	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.25	-0.25	-0.25		ppb
Phosphorus	31-2	-39.94	-41.51	-38.87	-40.11		ppb
Potassium	39-2	-47.70	-49.28	-49.44	-48.81		ppb
Rhodium	103-1				299		%
Rhodium	103-2				392		%
Scandium	45-1				314		%
Scandium	45-2				401		%
Selenium	82-1	-0.33	-0.10	-0.12	-0.18		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	-0.65	-0.53	-0.63	-0.60		ppb
Silicon	28-1	-0.95	-0.63	-0.62	-0.73		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-36.11	-40.26	-40.42	-38.93		ppb
Strontium	86-1	4.48	1.16	1.34	2.33	80.28	ppb
Strontium	88-1	-0.13	-0.08	-0.08	-0.10		ppb
Sulfur	34-1	-5965.69	-5220.25	-5722.37	-5636.11		ppb
Terbium	159-1				296		%
Terbium	159-2				384		%
Thallium	203-1	0.00	0.00	0.00	0.00	48.94	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	49.04	ppb
Tin	118-1	-0.23	-0.18	-0.21	-0.21		ppb
Titanium	47-1	-0.03	0.00	-0.02	-0.02		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				308		%
Yttrium	89-2				389		%
Zinc	66-2	-0.33	-0.35	-0.35	-0.34		ppb
Zirconium	90-1	-0.01	0.00	-0.01	0.00		ppb
Zirconium	91-1	-0.01	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.84	-0.83	0.73	-0.31		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	124.58	ppb
Arsenic	75-2	-0.01	-0.01	0.00	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				325		%
Bismuth	209-2				349		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	-0.02	-0.03	-0.03		ppb
Cadmium	106-1	-5.47	-8.50	-9.44	-7.80		ppb
Cadmium	111-1	-0.42	-0.65	-0.73	-0.60		ppb
Calcium	43-1	-7.83	-9.55	-9.74	-9.04		ppb
Calcium	44-1	-10.17	-13.88	-13.78	-12.61		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.23	-0.32		ppb
Cobalt	59-2	-0.01	0.00	0.00	0.00		ppb
Copper	63-2	-0.36	-0.35	-0.24	-0.32		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				329		%
Holmium	165-2				360		%
Indium	115-1				339		%
Indium	115-2				351		%
Iron	54-2	-2.38	-2.21	0.84	-1.25		ppb
Iron	56-2	-1.50	-1.41	2.48	-0.15		ppb
Iron	57-2	-1.52	-1.27	1.44	-0.45		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.03	-0.03	-0.02		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.04	-0.04	-0.03		ppb
Lead	208-1	-0.01	-0.03	-0.03	-0.03		ppb
Lithium	6-1				340		%
Magnesium	24-2	-3.81	-3.74	-2.95	-3.50		ppb
Manganese	55-2	-0.08	-0.07	0.03	-0.04		ppb
Molybdenum	94-1	-0.01	-0.02	-0.03	-0.02		ppb
Molybdenum	95-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	96-1	-0.02	-0.03	-0.03	-0.02		ppb
Molybdenum	97-1	-0.01	-0.03	-0.03	-0.02		ppb
Molybdenum	98-1	-0.02	-0.03	-0.03	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.25	-0.15	-0.22		ppb
Phosphorus	31-2	-40.66	-39.29	-34.40	-38.12		ppb
Potassium	39-2	-52.96	-49.40	-25.84	-42.73		ppb
Rhodium	103-1				332		%
Rhodium	103-2				367		%
Scandium	45-1				348		%
Scandium	45-2				384		%
Selenium	82-1	0.02	0.03	-0.21	-0.05		ppb
Selenium	77-2	-0.19	0.11	-0.19	-0.09		ppb
Selenium	78-2	-0.53	-0.16	-0.18	-0.29		ppb
Silicon	28-1	0.36	-1.70	-1.77	-1.04		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-50.57	-42.02	6.98	-28.54		ppb
Strontium	86-1	9.08	2.02	1.39	4.17	102.47	ppb
Strontium	88-1	-0.10	-0.15	-0.14	-0.13		ppb
Sulfur	34-1	-5428.14	-6152.86	-6119.06	-5900.02		ppb
Terbium	159-1				331		%
Terbium	159-2				356		%
Thallium	203-1	0.00	0.00	0.00	0.00	168.20	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	262.59	ppb
Tin	118-1	-0.20	-0.24	-0.24	-0.22		ppb
Titanium	47-1	-0.02	-0.03	-0.03	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				340		%
Yttrium	89-2				368		%
Zinc	66-2	-0.36	-0.38	-0.02	-0.25		ppb
Zirconium	90-1	0.00	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.25	-0.56	-0.80	-0.37		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	1068.90	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.02	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				349		%
Bismuth	209-2				261		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.04	-0.04	-0.03		ppb
Cadmium	106-1	-8.28	-8.98	-9.53	-8.93		ppb
Cadmium	111-1	-0.64	-0.69	-0.73	-0.69		ppb
Calcium	43-1	-8.69	-9.51	-10.08	-9.43		ppb
Calcium	44-1	-12.02	-13.86	-14.34	-13.41		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.22	-0.30	-0.36	-0.29		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.24	-0.29	-0.34	-0.29		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				350		%
Holmium	165-2				269		%
Indium	115-1				354		%
Indium	115-2				261		%
Iron	54-2	0.03	-1.43	-2.18	-1.19		ppb
Iron	56-2	0.47	-0.58	-1.45	-0.52		ppb
Iron	57-2	0.31	-0.51	-1.36	-0.52		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.03	-0.04	-0.03		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.04	-0.05	-0.04		ppb
Lead	208-1	-0.02	-0.04	-0.04	-0.03		ppb
Lithium	6-1				358		%
Magnesium	24-2	-2.75	-3.24	-3.61	-3.20		ppb
Manganese	55-2	0.02	-0.04	-0.07	-0.03		ppb
Molybdenum	94-1	-0.03	-0.03	-0.03	-0.03		ppb
Molybdenum	95-1	-0.03	-0.03	-0.03	-0.03		ppb
Molybdenum	96-1	-0.03	-0.03	-0.03	-0.03		ppb
Molybdenum	97-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	98-1	-0.02	-0.02	-0.03	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.13	-0.20	-0.25	-0.19		ppb
Phosphorus	31-2	-30.49	-35.67	-40.69	-35.62		ppb
Potassium	39-2	-27.75	-38.94	-48.86	-38.52		ppb
Rhodium	103-1				343		%
Rhodium	103-2				272		%
Scandium	45-1				365		%
Scandium	45-2				284		%
Selenium	82-1	-0.39	-0.21	0.04	-0.18		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	-0.38	-0.62	-0.65	-0.55		ppb
Silicon	28-1	-0.22	-1.88	-2.12	-1.41		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	1.58	-21.82	-41.58	-20.60		ppb
Strontium	86-1	8.21	1.32	0.36	3.30	129.96	ppb
Strontium	88-1	-0.13	-0.14	-0.14	-0.14		ppb
Sulfur	34-1	-5830.34	-6100.49	-6257.50	-6062.78		ppb
Terbium	159-1				352		%
Terbium	159-2				267		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	627.51	ppb
Tin	118-1	-0.23	-0.24	-0.24	-0.24		ppb
Titanium	47-1	-0.02	-0.03	-0.04	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				360		%
Yttrium	89-2				272		%
Zinc	66-2	0.16	-0.15	-0.33	-0.11		ppb
Zirconium	90-1	-0.01	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.83	-0.89	-0.88	-0.87		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	24.83	ppb
Arsenic	75-2	0.00	-0.01	0.00	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.02	-0.02	-0.01	-0.01		ppb
Bismuth	209-1				279		%
Bismuth	209-2				351		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.02	-0.02	-0.02		ppb
Cadmium	106-1	-8.11	-7.73	-6.16	-7.34		ppb
Cadmium	111-1	-0.62	-0.59	-0.47	-0.56		ppb
Calcium	43-1	-8.60	-8.09	-7.06	-7.92		ppb
Calcium	44-1	-12.73	-11.98	-10.75	-11.82		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.37	-0.37		ppb
Cobalt	59-2	-0.01	0.00	0.00	0.00		ppb
Copper	63-2	-0.36	-0.34	-0.36	-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				286		%
Holmium	165-2				361		%
Indium	115-1				291		%
Indium	115-2				350		%
Iron	54-2	-2.46	-2.09	-2.19	-2.25		ppb
Iron	56-2	-1.56	-1.48	-1.53	-1.52		ppb
Iron	57-2	-1.58	-1.26	-1.43	-1.42		ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.02	-0.01	-0.02		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.03	-0.02	-0.02		ppb
Lead	208-1	-0.02	-0.03	-0.01	-0.02		ppb
Lithium	6-1				293		%
Magnesium	24-2	-3.75	-3.55	-3.66	-3.65		ppb
Manganese	55-2	-0.08	-0.07	-0.07	-0.07		ppb
Molybdenum	94-1	-0.03	-0.02	-0.01	-0.02		ppb
Molybdenum	95-1	-0.03	-0.03	-0.02	-0.03		ppb
Molybdenum	96-1	-0.03	-0.03	-0.02	-0.02		ppb
Molybdenum	97-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	98-1	-0.02	-0.02	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.24	-0.25	-0.25		ppb
Phosphorus	31-2	-40.84	-39.46	-38.03	-39.44		ppb
Potassium	39-2	-50.80	-48.89	-49.89	-49.86		ppb
Rhodium	103-1				289		%
Rhodium	103-2				365		%
Scandium	45-1				305		%
Scandium	45-2				384		%
Selenium	82-1	-0.32	-0.07	-0.13	-0.18		ppb
Selenium	77-2	-0.19	-0.19	0.12	-0.08		ppb
Selenium	78-2	-0.20	-0.59	-0.47	-0.42		ppb
Silicon	28-1	-1.00	-1.30	-1.05	-1.12		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-47.83	-40.01	-44.13	-43.99		ppb
Strontium	86-1	4.96	1.02	1.66	2.55	82.99	ppb
Strontium	88-1	-0.14	-0.09	-0.10	-0.11		ppb
Sulfur	34-1	-5935.93	-5720.19	-5211.35	-5622.49		ppb
Terbium	159-1				286		%
Terbium	159-2				359		%
Thallium	203-1	0.00	0.00	0.00	0.00	60.45	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	90.74	ppb
Tin	118-1	-0.23	-0.21	-0.20	-0.21		ppb
Titanium	47-1	-0.03	-0.03	-0.02	-0.02		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				298		%
Yttrium	89-2				367		%
Zinc	66-2	-0.33	-0.35	-0.34	-0.34		ppb
Zirconium	90-1	-0.01	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.88	-0.94	-0.93	-0.92		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	150.67	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.02	-0.01	-0.02		ppb
Bismuth	209-1				293		%
Bismuth	209-2				352		%
Bromine	81-1						cps
Cadmium	108-1	0.01	-0.03	-0.04	-0.02		ppb
Cadmium	106-1	-7.83	-8.97	-6.78	-7.86		ppb
Cadmium	111-1	-0.60	-0.69	-0.52	-0.60		ppb
Calcium	43-1	-8.52	-9.71	-5.71	-7.98		ppb
Calcium	44-1	-11.43	-13.86	-8.76	-11.35		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.35	-0.35	-0.35	-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				295		%
Holmium	165-2				362		%
Indium	115-1				299		%
Indium	115-2				353		%
Iron	54-2	-2.06	-2.45	-2.21	-2.24		ppb
Iron	56-2	-1.50	-1.63	-1.56	-1.56		ppb
Iron	57-2	-1.46	-1.50	-1.58	-1.51		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.04	-0.01	-0.02		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.05	-0.02	-0.03		ppb
Lead	208-1	-0.02	-0.04	-0.02	-0.02		ppb
Lithium	6-1				314		%
Magnesium	24-2	-3.62	-3.73	-3.72	-3.69		ppb
Manganese	55-2	-0.07	-0.08	-0.08	-0.08		ppb
Molybdenum	94-1	-0.03	-0.03	0.00	-0.02		ppb
Molybdenum	95-1	-0.03	-0.03	-0.02	-0.03		ppb
Molybdenum	96-1	-0.03	-0.03	-0.02	-0.02		ppb
Molybdenum	97-1	-0.02	-0.03	-0.02	-0.02		ppb
Molybdenum	98-1	-0.02	-0.03	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.25	-0.26	-0.25		ppb
Phosphorus	31-2	-40.07	-39.89	-42.05	-40.67		ppb
Potassium	39-2	-48.50	-51.44	-50.00	-49.98		ppb
Rhodium	103-1				299		%
Rhodium	103-2				370		%
Scandium	45-1				316		%
Scandium	45-2				384		%
Selenium	82-1	-0.32	-0.14	-0.07	-0.18		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	-0.50	-0.58	-0.51	-0.53		ppb
Silicon	28-1	-0.53	-1.81	-1.09	-1.14		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-40.35	-47.12	-45.77	-44.41		ppb
Strontium	86-1	6.72	2.05	1.36	3.38	86.26	ppb
Strontium	88-1	-0.13	-0.14	-0.07	-0.11		ppb
Sulfur	34-1	-5680.73	-6218.69	-5016.88	-5638.77		ppb
Terbium	159-1				295		%
Terbium	159-2				359		%
Thallium	203-1	0.00	0.00	0.00	0.00	578.83	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	793.07	ppb
Tin	118-1	-0.23	-0.24	-0.17	-0.21		ppb
Titanium	47-1	-0.04	-0.03	-0.01	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				305		%
Yttrium	89-2				368		%
Zinc	66-2	-0.41	-0.39	-0.38	-0.39		ppb
Zirconium	90-1	-0.01	-0.01	0.00	-0.01		ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	5033.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.86	-0.88	-0.85	-0.86		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	203.44	ppb
Arsenic	75-2	0.00	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.00	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				295		%
Bismuth	209-2				365		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.04	-0.02	-0.02		ppb
Cadmium	106-1	-6.17	-8.15	-8.39	-7.57		ppb
Cadmium	111-1	-0.47	-0.63	-0.65	-0.58		ppb
Calcium	43-1	-6.78	-9.63	-9.11	-8.51		ppb
Calcium	44-1	-8.63	-13.03	-12.71	-11.46		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.38	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.35	-0.36	-0.36	-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				299		%
Holmium	165-2				374		%
Indium	115-1				308		%
Indium	115-2				362		%
Iron	54-2	-2.37	-2.29	-2.41	-2.36		ppb
Iron	56-2	-1.56	-1.56	-1.64	-1.59		ppb
Iron	57-2	-1.50	-1.46	-1.62	-1.53		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.03	-0.04	-0.03		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.04	-0.04	-0.03		ppb
Lead	208-1	-0.01	-0.03	-0.04	-0.03		ppb
Lithium	6-1				319		%
Magnesium	24-2	-3.61	-3.79	-3.84	-3.75		ppb
Manganese	55-2	-0.08	-0.08	-0.08	-0.08		ppb
Molybdenum	94-1	-0.01	-0.03	-0.03	-0.02		ppb
Molybdenum	95-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	96-1	-0.02	-0.03	-0.03	-0.02		ppb
Molybdenum	97-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	98-1	-0.02	-0.02	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.24	-0.24	-0.25	-0.25		ppb
Phosphorus	31-2	-38.69	-40.35	-41.67	-40.24		ppb
Potassium	39-2	-49.09	-49.17	-52.11	-50.13		ppb
Rhodium	103-1				301		%
Rhodium	103-2				379		%
Scandium	45-1				321		%
Scandium	45-2				392		%
Selenium	82-1	-0.13	-0.03	-0.01	-0.06		ppb
Selenium	77-2	-0.19	-0.02	-0.19	-0.13		ppb
Selenium	78-2	-0.60	-0.55	-0.47	-0.54		ppb
Silicon	28-1	0.21	-1.82	-1.66	-1.09		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-45.45	-44.11	-50.56	-46.71		ppb
Strontium	86-1	6.40	1.17	1.83	3.13	90.88	ppb
Strontium	88-1	-0.08	-0.13	-0.13	-0.11		ppb
Sulfur	34-1	-5077.67	-5920.85	-5958.68	-5652.40		ppb
Terbium	159-1				304		%
Terbium	159-2				370		%
Thallium	203-1	0.00	0.00	0.00	0.00	314.50	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	408.01	ppb
Tin	118-1	-0.17	-0.23	-0.22	-0.21		ppb
Titanium	47-1	-0.01	-0.04	-0.04	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				313		%
Yttrium	89-2				378		%
Zinc	66-2	-0.33	-0.35	-0.41	-0.36		ppb
Zirconium	90-1	0.00	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	-0.01	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.90	-0.86	-0.96	-0.91		ppb
Antimony	121-1	0.00	0.00	0.00	0.00		ppb
Arsenic	75-2	-0.01	0.00	0.00	-0.01		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.02	-0.01	-0.02	-0.02		ppb
Bismuth	209-1				309		%
Bismuth	209-2				353		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.01	0.00	-0.01		ppb
Cadmium	106-1	-6.18	-6.85	-8.83	-7.29		ppb
Cadmium	111-1	-0.48	-0.53	-0.68	-0.56		ppb
Calcium	43-1	-8.38	-8.50	-9.31	-8.73		ppb
Calcium	44-1	-11.19	-11.98	-13.62	-12.27		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.35	-0.36	-0.35	-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				312		%
Holmium	165-2				364		%
Indium	115-1				321		%
Indium	115-2				358		%
Iron	54-2	-2.46	-2.45	-2.34	-2.42		ppb
Iron	56-2	-1.56	-1.64	-1.63	-1.61		ppb
Iron	57-2	-1.48	-1.66	-1.58	-1.57		ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.03	-0.04	-0.03		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.03	-0.04	-0.04	-0.04		ppb
Lead	208-1	-0.03	-0.03	-0.04	-0.03		ppb
Lithium	6-1				334		%
Magnesium	24-2	-3.71	-3.78	-3.61	-3.70		ppb
Manganese	55-2	-0.08	-0.09	-0.07	-0.08		ppb
Molybdenum	94-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	95-1	-0.03	-0.03	-0.03	-0.03		ppb
Molybdenum	96-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	97-1	-0.02	-0.02	-0.03	-0.02		ppb
Molybdenum	98-1	-0.02	-0.02	-0.03	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.26	-0.25	-0.26	-0.25		ppb
Phosphorus	31-2	-41.21	-40.49	-41.08	-40.93		ppb
Potassium	39-2	-49.46	-51.29	-50.79	-50.51		ppb
Rhodium	103-1				312		%
Rhodium	103-2				376		%
Scandium	45-1				327		%
Scandium	45-2				389		%
Selenium	82-1	-0.08	-0.24	-0.26	-0.20		ppb
Selenium	77-2	-0.02	-0.19	-0.19	-0.13		ppb
Selenium	78-2	-0.49	-0.75	-0.71	-0.65		ppb
Silicon	28-1	-0.31	-1.53	-1.80	-1.21		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-45.14	-49.07	-49.08	-47.76		ppb
Strontium	86-1	7.21	1.78	1.60	3.53	90.31	ppb
Strontium	88-1	-0.12	-0.13	-0.15	-0.13		ppb
Sulfur	34-1	-5563.61	-5582.34	-6080.96	-5742.30		ppb
Terbium	159-1				311		%
Terbium	159-2				363		%
Thallium	203-1	0.00	0.00	0.00	0.00	664.45	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	219.90	ppb
Tin	118-1	-0.21	-0.21	-0.23	-0.22		ppb
Titanium	47-1	-0.03	-0.02	-0.04	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				323		%
Yttrium	89-2				371		%
Zinc	66-2	-0.34	-0.36	-0.34	-0.35		ppb
Zirconium	90-1	-0.01	-0.01	-0.01	-0.01		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.88	-0.88	-0.86	-0.87		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	807.24	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.02	-0.02	-0.01	-0.02		ppb
Bismuth	209-1				310		%
Bismuth	209-2				371		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.03	-0.01	-0.02		ppb
Cadmium	106-1	-8.01	-8.68	-7.06	-7.91		ppb
Cadmium	111-1	-0.61	-0.67	-0.54	-0.61		ppb
Calcium	43-1	-9.51	-9.69	-6.86	-8.69		ppb
Calcium	44-1	-13.08	-14.02	-9.30	-12.13		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.38	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.36	-0.36	-0.36	-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				312		%
Holmium	165-2				382		%
Indium	115-1				318		%
Indium	115-2				374		%
Iron	54-2	-2.56	-2.40	-2.43	-2.46		ppb
Iron	56-2	-1.66	-1.63	-1.62	-1.64		ppb
Iron	57-2	-1.60	-1.45	-1.53	-1.53		ppb
Krypton	83-1						cps
Lead	206-1	-0.04	-0.04	-0.01	-0.03		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.04	-0.05	-0.02	-0.04		ppb
Lead	208-1	-0.04	-0.04	-0.01	-0.03		ppb
Lithium	6-1				352		%
Magnesium	24-2	-3.78	-3.71	-3.63	-3.71		ppb
Manganese	55-2	-0.08	-0.08	-0.08	-0.08		ppb
Molybdenum	94-1	-0.03	-0.03	0.00	-0.02		ppb
Molybdenum	95-1	-0.03	-0.03	-0.02	-0.03		ppb
Molybdenum	96-1	-0.03	-0.03	-0.02	-0.03		ppb
Molybdenum	97-1	-0.03	-0.02	-0.02	-0.02		ppb
Molybdenum	98-1	-0.03	-0.03	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.26	-0.25	-0.25		ppb
Phosphorus	31-2	-42.60	-40.04	-41.44	-41.36		ppb
Potassium	39-2	-51.18	-51.55	-49.97	-50.90		ppb
Rhodium	103-1				318		%
Rhodium	103-2				389		%
Scandium	45-1				334		%
Scandium	45-2				408		%
Selenium	82-1	-0.16	0.04	-0.17	-0.10		ppb
Selenium	77-2	-0.05	-0.19	-0.19	-0.14		ppb
Selenium	78-2	-0.50	-0.58	-0.60	-0.56		ppb
Silicon	28-1	-0.72	-1.51	-0.91	-1.05		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-52.11	-50.40	-46.20	-49.57		ppb
Strontium	86-1	6.12	3.44	2.04	3.87	53.62	ppb
Strontium	88-1	-0.14	-0.14	-0.10	-0.13		ppb
Sulfur	34-1	-6016.83	-6225.55	-4829.90	-5690.76		ppb
Terbium	159-1				313		%
Terbium	159-2				380		%
Thallium	203-1	0.00	0.00	0.01	0.00	383.68	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	271.91	ppb
Tin	118-1	-0.23	-0.24	-0.18	-0.22		ppb
Titanium	47-1	-0.03	-0.04	-0.01	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				329		%
Yttrium	89-2				391		%
Zinc	66-2	-0.40	-0.38	-0.35	-0.38		ppb
Zirconium	90-1	-0.01	-0.01	0.00	-0.01		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.85	-0.86	-0.22	-0.64		ppb
Antimony	121-1	0.00	0.00	0.00	0.00		ppb
Arsenic	75-2	-0.01	0.00	-0.01	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.02	-0.02	-0.02		ppb
Bismuth	209-1				317		%
Bismuth	209-2				334		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.03	-0.03	-0.02		ppb
Cadmium	106-1	-5.82	-8.39	-8.67	-7.63		ppb
Cadmium	111-1	-0.45	-0.65	-0.67	-0.59		ppb
Calcium	43-1	-8.32	-8.80	-9.82	-8.98		ppb
Calcium	44-1	-11.15	-12.75	-14.60	-12.83		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.37	-0.33	-0.36		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.36	-0.37	-0.34	-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				319		%
Holmium	165-2				345		%
Indium	115-1				332		%
Indium	115-2				338		%
Iron	54-2	-2.26	-2.57	-1.88	-2.24		ppb
Iron	56-2	-1.66	-1.66	-1.23	-1.51		ppb
Iron	57-2	-1.68	-1.57	-1.10	-1.45		ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.03	-0.05	-0.03		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.03	-0.04	-0.05	-0.04		ppb
Lead	208-1	-0.02	-0.03	-0.05	-0.03		ppb
Lithium	6-1				346		%
Magnesium	24-2	-3.68	-3.80	-3.56	-3.68		ppb
Manganese	55-2	-0.08	-0.08	-0.06	-0.07		ppb
Molybdenum	94-1	-0.02	-0.02	-0.03	-0.03		ppb
Molybdenum	95-1	-0.03	-0.03	-0.03	-0.03		ppb
Molybdenum	96-1	-0.02	-0.03	-0.03	-0.03		ppb
Molybdenum	97-1	-0.02	-0.03	-0.03	-0.02		ppb
Molybdenum	98-1	-0.02	-0.02	-0.03	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.26	-0.26	-0.23	-0.25		ppb
Phosphorus	31-2	-38.74	-40.21	-39.05	-39.33		ppb
Potassium	39-2	-51.27	-51.51	-46.34	-49.71		ppb
Rhodium	103-1				326		%
Rhodium	103-2				349		%
Scandium	45-1				343		%
Scandium	45-2				371		%
Selenium	82-1	-0.13	0.01	-0.03	-0.05		ppb
Selenium	77-2	-0.19	-0.19	0.00	-0.12		ppb
Selenium	78-2	-0.57	-0.61	-0.52	-0.56		ppb
Silicon	28-1	0.59	-1.43	-1.97	-0.94		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-49.93	-50.89	-40.29	-47.04		ppb
Strontium	86-1	9.24	2.81	1.22	4.42	96.09	ppb
Strontium	88-1	-0.10	-0.13	-0.14	-0.12		ppb
Sulfur	34-1	-5467.21	-5733.91	-6256.82	-5819.31		ppb
Terbium	159-1				323		%
Terbium	159-2				344		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	738.13	ppb
Tin	118-1	-0.20	-0.23	-0.24	-0.22		ppb
Titanium	47-1	-0.02	-0.03	-0.04	-0.03		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				337		%
Yttrium	89-2				349		%
Zinc	66-2	-0.36	-0.37	-0.26	-0.33		ppb
Zirconium	90-1	0.00	-0.01	-0.01	0.00		ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.86	-0.91	-0.91	-0.89		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	497.44	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	-0.01	-0.01	0.00	-0.01		ppb
Barium	137-1	-0.01	-0.01	0.00	-0.01		ppb
Beryllium	9-1	-0.01	-0.02	-0.01	-0.01		ppb
Bismuth	209-1				278		%
Bismuth	209-2				336		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.03	0.00	-0.01		ppb
Cadmium	106-1	-6.85	-8.77	-5.81	-7.14		ppb
Cadmium	111-1	-0.53	-0.67	-0.45	-0.55		ppb
Calcium	43-1	-8.33	-9.88	-6.04	-8.09		ppb
Calcium	44-1	-10.69	-14.68	-8.42	-11.26		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.38	-0.37	-0.37		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.36	-0.36	-0.35	-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				280		%
Holmium	165-2				342		%
Indium	115-1				280		%
Indium	115-2				335		%
Iron	54-2	-2.52	-2.37	-2.44	-2.44		ppb
Iron	56-2	-1.68	-1.64	-1.58	-1.63		ppb
Iron	57-2	-1.75	-1.63	-1.54	-1.64		ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.05	-0.01	-0.02		ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.05	-0.02	-0.03		ppb
Lead	208-1	-0.02	-0.05	-0.01	-0.03		ppb
Lithium	6-1				297		%
Magnesium	24-2	-3.76	-3.25	-3.60	-3.54		ppb
Manganese	55-2	-0.08	-0.08	-0.08	-0.08		ppb
Molybdenum	94-1	-0.01	-0.03	0.07	0.01	530.20	ppb
Molybdenum	95-1	-0.03	-0.03	-0.02	-0.03		ppb
Molybdenum	96-1	-0.02	-0.03	-0.01	-0.02		ppb
Molybdenum	97-1	-0.02	-0.03	-0.01	-0.02		ppb
Molybdenum	98-1	-0.02	-0.03	-0.02	-0.02		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.26	-0.25	-0.25		ppb
Phosphorus	31-2	-37.75	-37.89	-39.63	-38.42		ppb
Potassium	39-2	-52.17	-50.83	-48.61	-50.54		ppb
Rhodium	103-1				278		%
Rhodium	103-2				350		%
Scandium	45-1				293		%
Scandium	45-2				368		%
Selenium	82-1	-0.08	-0.07	-0.20	-0.12		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	-0.44	-0.41	-0.64	-0.49		ppb
Silicon	28-1	1.30	-2.12	-0.60	-0.48		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	-51.62	-49.23	-46.06	-48.97		ppb
Strontium	86-1	13.19	0.78	1.30	5.09	137.85	ppb
Strontium	88-1	-0.12	-0.15	-0.07	-0.11		ppb
Sulfur	34-1	-5315.42	-6240.88	-4339.85	-5298.72		ppb
Terbium	159-1				277		%
Terbium	159-2				345		%
Thallium	203-1	0.00	0.00	0.00	0.00	188.93	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	205.63	ppb
Tin	118-1	-0.21	-0.24	-0.15	-0.20		ppb
Titanium	47-1	-0.02	-0.04	0.03	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				287		%
Yttrium	89-2				349		%
Zinc	66-2	-0.39	-0.36	-0.34	-0.37		ppb
Zirconium	90-1	-0.01	-0.01	0.01	0.00		ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	353.77	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11492.62	11204.05	11236.36	11311.01	1.40	ppb
Antimony	121-1	0.49	0.51	0.54	0.51	4.14	ppb
Arsenic	75-2	2.54	2.39	2.36	2.43	3.96	ppb
Barium	135-1	39.42	41.73	41.26	40.80	3.00	ppb
Barium	137-1	40.11	42.54	41.41	41.35	2.95	ppb
Beryllium	9-1	0.33	0.32	0.32	0.33	1.47	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.03	1.02	0.86	0.97	9.80	ppb
Cadmium	106-1	1.23	2.59	2.27	2.03	35.14	ppb
Cadmium	111-1	0.11	0.21	0.19	0.17	32.92	ppb
Calcium	43-1	5835.35	5906.51	6244.02	5995.29	3.64	ppb
Calcium	44-1	6106.60	5996.30	6173.81	6092.24	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.05	30.14	30.44	30.21	0.67	ppb
Cobalt	59-2	10.76	10.60	10.61	10.66	0.82	ppb
Copper	63-2	33.43	33.42	33.02	33.29	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	54-2	24415.28	24282.57	24907.08	24534.98	1.34	ppb
Iron	56-2	24090.64	24075.05	23480.88	23882.19	1.46	ppb
Iron	57-2	25020.67	24480.37	23924.89	24475.31	2.24	ppb
Krypton	83-1						cps
Lead	206-1	7.19	6.98	7.17	7.11	1.58	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.91	6.82	6.78	6.84	0.99	ppb
Lead	208-1	6.91	6.86	6.96	6.91	0.74	ppb
Lithium	6-1				95		%
Magnesium	24-2	8200.35	8029.96	8085.09	8105.13	1.07	ppb
Manganese	55-2	324.82	324.17	325.10	324.70	0.15	ppb
Molybdenum	94-1	10.21	10.26	10.81	10.43	3.18	ppb
Molybdenum	95-1	0.20	0.23	0.23	0.22	6.83	ppb
Molybdenum	96-1	1.34	1.32	1.37	1.34	2.08	ppb
Molybdenum	97-1	0.22	0.22	0.22	0.22	1.88	ppb
Molybdenum	98-1	0.21	0.21	0.21	0.21	1.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.96	37.37	37.02	37.12	0.59	ppb
Phosphorus	31-2	904.03	988.17	975.05	955.75	4.74	ppb
Potassium	39-2	1307.47	1299.21	1300.80	1302.49	0.34	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	0.03	-0.34	-0.12	-0.14		ppb
Selenium	77-2	12.20	19.30	18.70	16.73	23.54	ppb
Selenium	78-2	2.52	3.85	3.18	3.18	20.91	ppb
Silicon	28-1	20.54	22.09	22.82	21.82	5.32	ppb
Silver	107-1	0.07	0.07	0.07	0.07	6.89	ppb
Silver	109-1	0.06	0.06	0.06	0.06	4.12	ppb
Sodium	23-2	525.48	533.66	528.42	529.19	0.78	ppb
Strontium	86-1	1096.01	1107.91	1141.26	1115.06	2.10	ppb
Strontium	88-1	1162.82	1173.57	1177.71	1171.37	0.66	ppb
Sulfur	34-1	-377.32	-714.61	-472.27	-521.40		ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.08	0.08	0.08	0.08	2.03	ppb
Thallium	205-1	0.09	0.08	0.08	0.09	4.98	ppb
Tin	118-1	0.83	0.88	0.85	0.85	2.85	ppb
Titanium	47-1	582.90	571.00	593.11	582.34	1.90	ppb
Uranium	238-1	0.45	0.44	0.46	0.45	2.09	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.07	50.73	50.49	50.76	0.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	58.76	58.55	58.33	58.54	0.36	ppb
Zirconium	90-1	5.57	5.57	5.74	5.62	1.70	ppb
Zirconium	91-1	5.60	5.34	5.83	5.59	4.37	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7197.92	7318.94	7051.34	7189.40	1.86	ppb
Antimony	121-1	16.84	17.28	17.09	17.07	1.29	ppb
Arsenic	75-2	52.51	55.55	50.95	53.00	4.41	ppb
Barium	135-1	37.60	38.05	37.92	37.86	0.61	ppb
Barium	137-1	38.03	38.79	37.78	38.20	1.38	ppb
Beryllium	9-1	0.34	0.36	0.37	0.36	3.82	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.22	1.33	1.38	1.31	6.17	ppb
Cadmium	106-1	0.75	1.72	1.77	1.41	40.82	ppb
Cadmium	111-1	0.67	0.75	0.76	0.73	6.18	ppb
Calcium	43-1	17164.61	17375.03	17262.56	17267.40	0.61	ppb
Calcium	44-1	16628.82	17203.87	16997.08	16943.26	1.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.22	26.52	25.66	26.14	1.67	ppb
Cobalt	59-2	9.00	9.14	8.83	8.99	1.72	ppb
Copper	63-2	780.73	791.30	761.23	777.75	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				99		%
Holmium	165-2				98		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	16621.29	16572.34	16750.29	16647.97	0.55	ppb
Iron	56-2	16135.20	16592.71	15709.84	16145.92	2.73	ppb
Iron	57-2	16493.38	16706.90	15733.91	16311.40	3.14	ppb
Krypton	83-1						cps
Lead	206-1	173.56	167.49	168.08	169.71	1.97	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	167.78	163.13	162.87	164.59	1.68	ppb
Lead	208-1	166.91	164.93	164.47	165.43	0.78	ppb
Lithium	6-1				93		%
Magnesium	24-2	4291.15	4181.10	3977.72	4149.99	3.83	ppb
Manganese	55-2	125.06	126.24	122.94	124.75	1.34	ppb
Molybdenum	94-1	11.59	11.83	11.75	11.72	1.03	ppb
Molybdenum	95-1	4.97	4.94	5.00	4.97	0.61	ppb
Molybdenum	96-1	5.63	5.68	5.76	5.69	1.11	ppb
Molybdenum	97-1	4.91	5.03	5.01	4.98	1.23	ppb
Molybdenum	98-1	4.85	4.92	4.95	4.90	1.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.92	20.13	19.44	19.83	1.78	ppb
Phosphorus	31-2	1082.45	1160.88	1013.95	1085.76	6.77	ppb
Potassium	39-2	1182.94	1188.56	1152.26	1174.59	1.66	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	0.18	0.03	-0.11	0.03	431.10	ppb
Selenium	77-2	15.34	11.04	15.00	13.80	17.34	ppb
Selenium	78-2	3.12	3.34	2.54	3.00	13.70	ppb
Silicon	28-1	36.34	30.31	32.41	33.02	9.27	ppb
Silver	107-1	1.63	1.67	1.65	1.65	1.36	ppb
Silver	109-1	1.63	1.63	1.66	1.64	0.79	ppb
Sodium	23-2	8092.19	8089.47	7646.32	7942.66	3.23	ppb
Strontium	86-1	4193.47	4282.17	4273.76	4249.80	1.15	ppb
Strontium	88-1	4360.71	4382.80	4426.21	4389.91	0.76	ppb
Sulfur	34-1	6232.84	6414.64	7010.31	6552.60	6.21	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.26	0.27	0.27	0.27	1.01	ppb
Thallium	205-1	0.27	0.28	0.27	0.27	2.05	ppb
Tin	118-1	10.57	10.67	10.55	10.60	0.58	ppb
Titanium	47-1	651.23	661.33	666.70	659.75	1.19	ppb
Uranium	238-1	1.84	1.82	1.83	1.83	0.65	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	38.69	38.79	37.68	38.39	1.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				103		%
Zinc	66-2	413.26	420.66	402.43	412.11	2.22	ppb
Zirconium	90-1	4.15	4.25	4.27	4.22	1.58	ppb
Zirconium	91-1	4.08	4.21	4.32	4.21	2.85	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10701.13	10497.11	10816.47	10671.57	1.52	ppb
Antimony	121-1	45.99	45.44	46.98	46.14	1.69	ppb
Arsenic	75-2	152.45	153.58	156.72	154.25	1.43	ppb
Barium	135-1	48.75	48.55	50.31	49.20	1.96	ppb
Barium	137-1	49.17	50.19	51.17	50.18	1.99	ppb
Beryllium	9-1	0.49	0.49	0.51	0.50	2.55	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.93	2.09	1.78	1.93	8.08	ppb
Cadmium	106-1	3.61	2.57	3.56	3.25	18.11	ppb
Cadmium	111-1	1.16	1.10	1.24	1.17	6.24	ppb
Calcium	43-1	5349.23	5512.14	5693.82	5518.40	3.12	ppb
Calcium	44-1	5511.07	5551.55	5750.47	5604.36	2.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	33.11	32.73	33.68	33.17	1.45	ppb
Cobalt	59-2	12.03	11.95	12.18	12.05	0.97	ppb
Copper	63-2	1939.22	1885.68	1956.13	1927.01	1.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	54-2	28508.97	28545.12	28284.71	28446.27	0.50	ppb
Iron	56-2	27794.96	27524.99	28119.69	27813.21	1.07	ppb
Iron	57-2	28266.50	28009.48	28324.25	28200.08	0.59	ppb
Krypton	83-1						cps
Lead	206-1	276.51	283.12	269.27	276.30	2.51	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	266.22	279.38	269.16	271.59	2.54	ppb
Lead	208-1	265.14	271.84	268.06	268.35	1.25	ppb
Lithium	6-1				94		%
Magnesium	24-2	5219.65	5190.78	5315.42	5241.95	1.24	ppb
Manganese	55-2	168.44	166.25	170.31	168.33	1.21	ppb
Molybdenum	94-1	19.30	20.33	20.40	20.01	3.06	ppb
Molybdenum	95-1	9.14	9.48	9.65	9.42	2.75	ppb
Molybdenum	96-1	10.31	10.80	10.91	10.67	2.99	ppb
Molybdenum	97-1	9.42	9.72	9.82	9.66	2.13	ppb
Molybdenum	98-1	9.16	9.61	9.53	9.43	2.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	33.54	33.45	34.11	33.70	1.06	ppb
Phosphorus	31-2	992.29	970.51	975.71	979.50	1.16	ppb
Potassium	39-2	1197.23	1180.05	1201.13	1192.80	0.94	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				107		%
Selenium	82-1	0.80	1.11	0.91	0.94	16.60	ppb
Selenium	77-2	22.96	22.23	22.36	22.52	1.71	ppb
Selenium	78-2	4.52	4.43	3.97	4.31	6.78	ppb
Silicon	28-1	48.18	40.02	36.29	41.50	14.65	ppb
Silver	107-1	3.27	3.22	3.37	3.29	2.38	ppb
Silver	109-1	3.29	3.28	3.34	3.31	0.94	ppb
Sodium	23-2	2226.78	2236.42	2281.98	2248.39	1.31	ppb
Strontium	86-1	1293.12	1347.53	1353.33	1331.32	2.49	ppb
Strontium	88-1	1352.49	1382.60	1378.10	1371.06	1.18	ppb
Sulfur	34-1	15141.54	15760.67	15943.20	15615.14	2.69	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.24	0.24	0.25	0.24	1.19	ppb
Thallium	205-1	0.24	0.24	0.23	0.24	1.25	ppb
Tin	118-1	31.87	31.75	32.92	32.18	2.00	ppb
Titanium	47-1	742.18	761.90	772.25	758.78	2.01	ppb
Uranium	238-1	2.27	2.33	2.33	2.31	1.52	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	58.54	58.04	59.36	58.65	1.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				107		%
Zinc	66-2	346.43	344.03	352.94	347.80	1.33	ppb
Zirconium	90-1	6.40	6.70	6.68	6.59	2.49	ppb
Zirconium	91-1	6.46	6.69	6.74	6.63	2.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9366.83	9320.24	9377.28	9354.79	0.32	ppb
Antimony	121-1	8.43	8.46	8.35	8.41	0.64	ppb
Arsenic	75-2	34.26	33.94	33.71	33.97	0.80	ppb
Barium	135-1	24.86	24.81	24.39	24.69	1.05	ppb
Barium	137-1	25.75	25.40	25.15	25.43	1.19	ppb
Beryllium	9-1	0.36	0.37	0.37	0.37	2.10	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.06	1.21	1.10	1.12	6.85	ppb
Cadmium	106-1	3.00	2.58	2.38	2.65	11.94	ppb
Cadmium	111-1	0.53	0.49	0.47	0.50	6.87	ppb
Calcium	43-1	3954.07	4007.15	3978.60	3979.94	0.67	ppb
Calcium	44-1	4076.24	4140.37	3996.30	4070.97	1.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.92	24.63	24.88	24.81	0.63	ppb
Cobalt	59-2	9.32	9.27	9.36	9.32	0.45	ppb
Copper	63-2	376.84	376.21	379.55	377.53	0.47	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				100		%
Holmium	165-2				99		%
Indium	115-1				104		%
Indium	115-2				99		%
Iron	54-2	22112.61	21284.47	21796.31	21731.13	1.92	ppb
Iron	56-2	21585.30	21532.64	21542.28	21553.40	0.13	ppb
Iron	57-2	22344.28	21948.05	22013.39	22101.91	0.96	ppb
Krypton	83-1						cps
Lead	206-1	81.64	84.02	83.46	83.04	1.50	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	81.63	84.01	84.09	83.24	1.68	ppb
Lead	208-1	83.20	85.44	85.46	84.70	1.53	ppb
Lithium	6-1				91		%
Magnesium	24-2	5117.72	5077.60	5062.29	5085.87	0.56	ppb
Manganese	55-2	162.82	159.46	159.42	160.57	1.22	ppb
Molybdenum	94-1	16.00	16.25	15.91	16.06	1.10	ppb
Molybdenum	95-1	2.80	2.81	2.74	2.78	1.46	ppb
Molybdenum	96-1	4.24	4.27	4.17	4.23	1.16	ppb
Molybdenum	97-1	2.81	2.91	2.80	2.84	2.08	ppb
Molybdenum	98-1	2.81	2.75	2.77	2.78	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.78	27.75	27.35	27.63	0.88	ppb
Phosphorus	31-2	1051.35	984.23	1078.77	1038.12	4.69	ppb
Potassium	39-2	863.65	848.95	866.92	859.84	1.11	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				110		%
Scandium	45-2				106		%
Selenium	82-1	0.49	0.18	0.11	0.26	79.14	ppb
Selenium	77-2	25.01	17.15	19.00	20.39	20.16	ppb
Selenium	78-2	2.83	5.66	4.10	4.20	33.80	ppb
Silicon	28-1	28.04	27.30	26.11	27.15	3.60	ppb
Silver	107-1	0.58	0.58	0.58	0.58	0.38	ppb
Silver	109-1	0.62	0.58	0.55	0.58	6.29	ppb
Sodium	23-2	1666.86	1621.79	1612.21	1633.62	1.79	ppb
Strontium	86-1	860.65	870.68	877.21	869.51	0.96	ppb
Strontium	88-1	902.02	923.09	885.20	903.44	2.10	ppb
Sulfur	34-1	3525.12	3547.70	3539.12	3537.31	0.32	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.08	0.09	0.08	0.08	5.21	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	2.10	ppb
Tin	118-1	6.17	5.99	6.09	6.08	1.50	ppb
Titanium	47-1	666.61	674.73	649.53	663.62	1.94	ppb
Uranium	238-1	1.14	1.19	1.18	1.17	2.30	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	62.78	60.75	61.91	61.81	1.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	106.58	104.93	106.84	106.12	0.98	ppb
Zirconium	90-1	7.47	7.56	7.45	7.49	0.81	ppb
Zirconium	91-1	7.35	7.48	7.35	7.40	1.03	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49275.30	49507.43	49361.91	49381.55	0.24	ppb
Antimony	121-1	500.45	502.26	499.52	500.74	0.28	ppb
Arsenic	75-2	499.31	497.03	488.51	494.95	1.15	ppb
Barium	135-1	2535.66	2587.38	2551.83	2558.29	1.03	ppb
Barium	137-1	2520.62	2635.23	2572.65	2576.17	2.23	ppb
Beryllium	9-1	512.79	523.75	531.96	522.83	1.84	ppb
Bismuth	209-1				88		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	491.65	514.85	501.49	502.66	2.32	ppb
Cadmium	106-1	502.13	515.98	507.09	508.40	1.38	ppb
Cadmium	111-1	490.26	516.33	487.36	497.99	3.20	ppb
Calcium	43-1	241350.91	236546.26	244490.65	240795.94	1.66	ppb
Calcium	44-1	245922.93	240283.14	240865.67	242357.25	1.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502.91	505.89	493.79	500.86	1.26	ppb
Cobalt	59-2	490.35	491.25	480.61	487.40	1.21	ppb
Copper	63-2	4694.81	4734.48	4740.07	4723.12	0.52	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				97		%
Holmium	165-2				89		%
Indium	115-1				93		%
Indium	115-2				84		%
Iron	54-2	125435.35	124924.54	122617.79	124325.89	1.21	ppb
Iron	56-2	122806.41	122435.23	121246.53	122162.73	0.67	ppb
Iron	57-2	122425.56	122484.73	121914.41	122274.90	0.26	ppb
Krypton	83-1						cps
Lead	206-1	2468.32	2578.28	2500.17	2515.59	2.25	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2489.93	2583.03	2483.54	2518.83	2.21	ppb
Lead	208-1	2512.98	2563.94	2489.13	2522.01	1.52	ppb
Lithium	6-1				82		%
Magnesium	24-2	255450.44	254001.93	250836.86	253429.74	0.93	ppb
Manganese	55-2	4952.04	4840.34	4774.23	4855.54	1.85	ppb
Molybdenum	94-1	4794.48	5005.63	4878.03	4892.71	2.17	ppb
Molybdenum	95-1	4770.51	5012.07	4825.24	4869.27	2.60	ppb
Molybdenum	96-1	4835.59	4930.83	4905.52	4890.65	1.01	ppb
Molybdenum	97-1	4799.62	4924.31	4884.27	4869.40	1.31	ppb
Molybdenum	98-1	4733.68	4937.51	4813.05	4828.08	2.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	495.91	494.61	493.40	494.64	0.25	ppb
Phosphorus	31-2	10092.81	10191.58	10053.77	10112.72	0.70	ppb
Potassium	39-2	124119.25	122746.31	123321.97	123395.85	0.56	ppb
Rhodium	103-1				87		%
Rhodium	103-2				82		%
Scandium	45-1				100		%
Scandium	45-2				89		%
Selenium	82-1	470.18	483.87	477.13	477.06	1.44	ppb
Selenium	77-2	507.92	485.48	448.33	480.58	6.26	ppb
Selenium	78-2	477.06	487.98	487.54	484.19	1.28	ppb
Silicon	28-1	498.85	486.78	502.54	496.06	1.66	ppb
Silver	107-1	481.34	496.83	486.80	488.32	1.61	ppb
Silver	109-1	487.99	509.97	489.57	495.84	2.47	ppb
Sodium	23-2	256540.54	254282.00	254807.07	255209.87	0.46	ppb
Strontium	86-1	12351.70	12493.12	12513.64	12452.82	0.71	ppb
Strontium	88-1	12318.94	12674.49	12412.43	12468.62	1.48	ppb
Sulfur	34-1	11018.27	10226.01	11053.71	10766.00	4.35	ppb
Terbium	159-1				97		%
Terbium	159-2				89		%
Thallium	203-1	490.57	510.98	510.67	504.07	2.32	ppb
Thallium	205-1	498.16	520.22	504.06	507.48	2.25	ppb
Tin	118-1	499.00	508.55	499.47	502.34	1.07	ppb
Titanium	47-1	4950.76	4931.46	4924.01	4935.41	0.28	ppb
Uranium	238-1	514.70	511.33	507.40	511.14	0.71	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	506.86	511.71	503.78	507.45	0.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				90		%
Zinc	66-2	4869.21	4921.28	4946.13	4912.21	0.80	ppb
Zirconium	90-1	490.70	505.46	497.93	498.03	1.48	ppb
Zirconium	91-1	481.44	510.99	490.84	494.42	3.05	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.21	1.29	1.07	1.19	9.26	ppb
Antimony	121-1	0.14	0.16	0.12	0.14	16.95	ppb
Arsenic	75-2	0.03	0.04	0.02	0.03	24.64	ppb
Barium	135-1	0.06	0.12	0.04	0.08	52.98	ppb
Barium	137-1	0.05	0.10	0.04	0.06	53.09	ppb
Beryllium	9-1	0.13	0.16	0.10	0.13	22.07	ppb
Bismuth	209-1				93		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.07	-0.01	0.03	122.25	ppb
Cadmium	106-1	0.39	-0.82	-0.03	-0.15		ppb
Cadmium	111-1	0.06	-0.02	0.02	0.02	177.08	ppb
Calcium	43-1	5.52	14.08	4.04	7.88	68.72	ppb
Calcium	44-1	8.93	18.95	8.16	12.01	50.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.04	0.00	0.02	102.99	ppb
Cobalt	59-2	0.01	0.01	0.00	0.01	40.70	ppb
Copper	63-2	0.16	0.14	0.14	0.15	8.78	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				92		%
Holmium	165-2				101		%
Indium	115-1				94		%
Indium	115-2				101		%
Iron	54-2	2.32	2.56	1.97	2.28	13.17	ppb
Iron	56-2	2.43	2.36	2.01	2.27	9.88	ppb
Iron	57-2	2.33	2.14	2.00	2.16	7.69	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.27	0.14	0.20	32.47	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.27	0.15	0.20	29.83	ppb
Lead	208-1	0.18	0.26	0.15	0.20	27.77	ppb
Lithium	6-1				83		%
Magnesium	24-2	0.47	0.46	0.10	0.34	62.13	ppb
Manganese	55-2	0.12	0.07	0.05	0.08	44.72	ppb
Molybdenum	94-1	0.28	0.36	0.18	0.28	32.78	ppb
Molybdenum	95-1	0.28	0.34	0.19	0.27	28.13	ppb
Molybdenum	96-1	0.27	0.34	0.18	0.27	29.38	ppb
Molybdenum	97-1	0.32	0.32	0.18	0.28	29.58	ppb
Molybdenum	98-1	0.27	0.32	0.17	0.25	29.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.04	-0.01	0.01	189.98	ppb
Phosphorus	31-2	-14.60	-21.31	-24.91	-20.27		ppb
Potassium	39-2	26.19	24.63	23.51	24.78	5.43	ppb
Rhodium	103-1				93		%
Rhodium	103-2				103		%
Scandium	45-1				95		%
Scandium	45-2				102		%
Selenium	82-1	0.06	-0.11	-0.21	-0.09		ppb
Selenium	77-2	0.36	-0.19	-0.19	0.00		ppb
Selenium	78-2	-0.58	0.42	-0.07	-0.08		ppb
Silicon	28-1	-0.09	0.68	-0.07	0.17	259.11	ppb
Silver	107-1	0.08	0.10	0.07	0.08	18.32	ppb
Silver	109-1	0.08	0.09	0.07	0.08	14.13	ppb
Sodium	23-2	103.54	101.25	100.42	101.74	1.59	ppb
Strontium	86-1	0.53	1.57	0.45	0.85	73.56	ppb
Strontium	88-1	0.37	0.66	0.26	0.43	48.46	ppb
Sulfur	34-1	-278.96	1502.25	-18.86	401.48	239.65	ppb
Terbium	159-1				93		%
Terbium	159-2				101		%
Thallium	203-1	0.08	0.08	0.06	0.07	16.79	ppb
Thallium	205-1	0.07	0.09	0.06	0.08	21.67	ppb
Tin	118-1	0.03	0.11	0.04	0.06	69.15	ppb
Titanium	47-1	0.15	0.26	0.12	0.18	41.63	ppb
Uranium	238-1	0.01	0.02	0.01	0.01	55.05	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.01	0.01	62.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				103		%
Zinc	66-2	0.41	0.36	0.30	0.36	14.70	ppb
Zirconium	90-1	0.02	0.04	0.02	0.03	36.12	ppb
Zirconium	91-1	0.03	0.03	0.02	0.02	28.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8435.03	8465.02	7592.64	8164.23	6.07	ppb
Antimony	121-1	63.54	64.44	65.28	64.42	1.35	ppb
Arsenic	75-2	167.01	161.59	150.15	159.59	5.40	ppb
Barium	135-1	97.97	98.60	99.22	98.60	0.63	ppb
Barium	137-1	98.90	100.20	101.80	100.30	1.45	ppb
Beryllium	9-1	0.59	0.61	0.60	0.60	1.68	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.46	2.65	2.81	2.64	6.71	ppb
Cadmium	106-1	3.82	2.68	3.59	3.36	18.03	ppb
Cadmium	111-1	1.98	1.89	2.00	1.96	2.86	ppb
Calcium	43-1	5990.65	6231.04	6219.91	6147.20	2.21	ppb
Calcium	44-1	6194.63	6256.47	6249.80	6233.63	0.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.63	30.18	27.01	29.27	6.74	ppb
Cobalt	59-2	22.20	22.07	19.73	21.33	6.53	ppb
Copper	63-2	982.05	977.25	850.57	936.62	7.96	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				102		%
Holmium	165-2				103		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	54-2	27836.64	27181.64	24839.11	26619.13	5.92	ppb
Iron	56-2	27173.44	27578.80	24240.28	26330.84	6.92	ppb
Iron	57-2	28187.75	27592.69	24941.18	26907.21	6.42	ppb
Krypton	83-1						cps
Lead	206-1	332.79	327.77	331.51	330.69	0.79	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	320.83	322.82	330.67	324.77	1.60	ppb
Lead	208-1	321.99	321.25	324.95	322.73	0.61	ppb
Lithium	6-1				91		%
Magnesium	24-2	5424.21	5465.40	4789.89	5226.50	7.25	ppb
Manganese	55-2	180.93	182.07	162.47	175.16	6.28	ppb
Molybdenum	94-1	16.96	17.24	17.01	17.07	0.89	ppb
Molybdenum	95-1	7.91	8.18	7.96	8.02	1.76	ppb
Molybdenum	96-1	8.94	9.09	8.99	9.01	0.87	ppb
Molybdenum	97-1	8.05	8.35	8.31	8.24	1.99	ppb
Molybdenum	98-1	7.83	8.10	8.03	7.98	1.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.07	26.45	23.78	25.77	6.78	ppb
Phosphorus	31-2	1009.01	999.22	874.98	961.07	7.77	ppb
Potassium	39-2	1763.74	1750.23	1565.36	1693.11	6.55	ppb
Rhodium	103-1				102		%
Rhodium	103-2				105		%
Scandium	45-1				108		%
Scandium	45-2				109		%
Selenium	82-1	0.77	0.83	0.93	0.84	9.49	ppb
Selenium	77-2	11.31	17.89	20.58	16.60	28.73	ppb
Selenium	78-2	3.57	2.32	2.70	2.86	22.46	ppb
Silicon	28-1	48.09	52.07	50.12	50.09	3.97	ppb
Silver	107-1	2.50	2.58	2.57	2.55	1.83	ppb
Silver	109-1	2.63	2.59	2.60	2.61	0.68	ppb
Sodium	23-2	8793.85	9010.15	7883.61	8562.54	6.98	ppb
Strontium	86-1	1281.41	1312.20	1306.89	1300.17	1.27	ppb
Strontium	88-1	1364.40	1343.43	1362.22	1356.68	0.85	ppb
Sulfur	34-1	11051.17	11670.20	11531.27	11417.55	2.84	ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	0.47	0.47	0.47	0.47	0.70	ppb
Thallium	205-1	0.48	0.46	0.48	0.47	2.61	ppb
Tin	118-1	77.03	78.98	79.01	78.34	1.45	ppb
Titanium	47-1	619.82	610.14	618.46	616.14	0.85	ppb
Uranium	238-1	3.13	3.17	3.20	3.17	1.06	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	44.72	44.94	40.34	43.34	5.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				109		%
Zinc	66-2	1162.91	1151.96	1028.86	1114.58	6.68	ppb
Zirconium	90-1	5.75	5.81	5.84	5.80	0.82	ppb
Zirconium	91-1	5.68	5.83	5.76	5.75	1.33	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8497.56	8377.51	8522.80	8465.96	0.92	ppb
Antimony	121-1	56.54	71.48	69.55	65.86	12.35	ppb
Arsenic	75-2	165.42	162.41	167.21	165.01	1.47	ppb
Barium	135-1	84.53	107.93	103.98	98.81	12.68	ppb
Barium	137-1	86.98	109.80	106.03	100.94	12.12	ppb
Beryllium	9-1	0.50	0.65	0.61	0.58	13.26	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	2.36	3.12	2.87	2.78	13.93	ppb
Cadmium	106-1	3.27	5.64	5.07	4.66	26.56	ppb
Cadmium	111-1	1.75	2.38	2.27	2.13	15.71	ppb
Calcium	43-1	6061.04	7731.84	7508.02	7100.30	12.77	ppb
Calcium	44-1	6169.02	7796.48	7542.70	7169.40	12.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.27	29.95	30.49	30.24	0.89	ppb
Cobalt	59-2	22.34	22.15	22.45	22.31	0.68	ppb
Copper	63-2	974.31	951.77	964.30	963.46	1.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				103		%
Indium	115-2				99		%
Iron	54-2	27568.33	28054.42	28097.15	27906.63	1.05	ppb
Iron	56-2	28100.57	27293.38	27312.95	27568.96	1.67	ppb
Iron	57-2	28501.62	27900.55	27889.61	28097.26	1.25	ppb
Krypton	83-1						cps
Lead	206-1	306.18	380.28	366.21	350.89	11.22	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	298.90	376.94	358.77	344.87	11.84	ppb
Lead	208-1	298.62	374.67	358.21	343.83	11.64	ppb
Lithium	6-1				89		%
Magnesium	24-2	5482.61	5277.83	5493.43	5417.96	2.24	ppb
Manganese	55-2	181.88	183.06	183.77	182.90	0.52	ppb
Molybdenum	94-1	14.91	18.74	18.15	17.27	11.93	ppb
Molybdenum	95-1	7.01	8.76	8.63	8.13	12.02	ppb
Molybdenum	96-1	7.75	9.98	9.71	9.15	13.29	ppb
Molybdenum	97-1	7.06	8.98	8.65	8.23	12.43	ppb
Molybdenum	98-1	6.90	8.69	8.51	8.03	12.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.02	26.66	26.79	26.82	0.69	ppb
Phosphorus	31-2	1023.32	945.75	1017.94	995.67	4.35	ppb
Potassium	39-2	1774.06	1710.77	1752.54	1745.79	1.84	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				109		%
Scandium	45-2				104		%
Selenium	82-1	1.03	0.97	1.12	1.04	7.38	ppb
Selenium	77-2	17.85	14.71	14.86	15.81	11.21	ppb
Selenium	78-2	3.89	5.06	5.17	4.71	15.01	ppb
Silicon	28-1	47.66	54.42	57.20	53.09	9.24	ppb
Silver	107-1	2.23	2.81	2.79	2.61	12.73	ppb
Silver	109-1	2.22	2.88	2.77	2.62	13.39	ppb
Sodium	23-2	9122.63	8910.25	8982.27	9005.05	1.20	ppb
Strontium	86-1	1177.22	1514.05	1468.65	1386.64	13.18	ppb
Strontium	88-1	1229.22	1575.18	1484.42	1429.61	12.55	ppb
Sulfur	34-1	8842.33	13172.28	12423.01	11479.21	20.16	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	0.37	0.48	0.45	0.43	12.42	ppb
Thallium	205-1	0.37	0.47	0.46	0.43	11.81	ppb
Tin	118-1	89.40	112.24	106.25	102.63	11.54	ppb
Titanium	47-1	534.78	688.34	650.72	624.61	12.81	ppb
Uranium	238-1	2.72	3.47	3.32	3.17	12.49	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.11	44.83	45.02	44.99	0.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	1154.08	1139.09	1145.13	1146.10	0.66	ppb
Zirconium	90-1	4.94	6.35	6.14	5.81	13.11	ppb
Zirconium	91-1	4.91	6.20	6.13	5.75	12.64	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1724.12	1732.10	1652.86	1703.03	2.56	ppb
Antimony	121-1	12.84	12.84	12.90	12.86	0.25	ppb
Arsenic	75-2	33.47	32.57	31.79	32.61	2.59	ppb
Barium	135-1	19.60	19.26	19.37	19.41	0.89	ppb
Barium	137-1	20.10	19.91	20.09	20.03	0.54	ppb
Beryllium	9-1	0.14	0.14	0.14	0.14	0.93	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.55	0.55	0.54	0.55	1.79	ppb
Cadmium	106-1	0.63	0.65	0.38	0.56	26.88	ppb
Cadmium	111-1	0.40	0.40	0.40	0.40	0.97	ppb
Calcium	43-1	1203.79	1235.06	1262.65	1233.83	2.39	ppb
Calcium	44-1	1230.87	1291.57	1298.99	1273.81	2.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.26	6.25	6.03	6.18	2.07	ppb
Cobalt	59-2	4.45	4.47	4.33	4.42	1.73	ppb
Copper	63-2	188.56	187.70	183.76	186.67	1.37	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				99		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	5445.10	5425.38	5276.67	5382.38	1.71	ppb
Iron	56-2	5469.35	5513.12	5349.84	5444.10	1.55	ppb
Iron	57-2	5421.92	5383.19	5194.35	5333.16	2.28	ppb
Krypton	83-1						cps
Lead	206-1	62.50	64.27	63.76	63.51	1.44	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	62.21	64.12	63.59	63.30	1.55	ppb
Lead	208-1	63.66	65.34	64.44	64.48	1.31	ppb
Lithium	6-1				89		%
Magnesium	24-2	1103.90	1084.06	1039.90	1075.95	3.04	ppb
Manganese	55-2	37.00	37.37	35.53	36.63	2.66	ppb
Molybdenum	94-1	3.27	3.45	3.46	3.39	3.15	ppb
Molybdenum	95-1	1.60	1.71	1.64	1.65	3.20	ppb
Molybdenum	96-1	1.82	1.90	1.85	1.86	2.10	ppb
Molybdenum	97-1	1.66	1.73	1.69	1.69	1.92	ppb
Molybdenum	98-1	1.61	1.70	1.65	1.66	2.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.96	5.74	5.61	5.77	3.05	ppb
Phosphorus	31-2	188.39	194.54	183.04	188.66	3.05	ppb
Potassium	39-2	358.64	362.18	354.28	358.37	1.10	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	0.12	0.07	0.31	0.17	78.00	ppb
Selenium	77-2	3.75	2.08	4.20	3.34	33.46	ppb
Selenium	78-2	0.79	0.45	0.91	0.72	33.18	ppb
Silicon	28-1	9.63	9.84	9.86	9.78	1.31	ppb
Silver	107-1	0.51	0.50	0.51	0.51	1.73	ppb
Silver	109-1	0.52	0.50	0.51	0.51	1.20	ppb
Sodium	23-2	1926.39	1868.74	1824.08	1873.07	2.74	ppb
Strontium	86-1	255.26	268.42	265.34	263.01	2.62	ppb
Strontium	88-1	254.20	267.00	265.46	262.22	2.67	ppb
Sulfur	34-1	2001.63	2252.65	2356.04	2203.44	8.27	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.09	0.10	0.09	0.09	7.84	ppb
Thallium	205-1	0.10	0.10	0.09	0.10	4.10	ppb
Tin	118-1	16.03	15.84	15.89	15.92	0.61	ppb
Titanium	47-1	116.77	119.75	123.33	119.95	2.74	ppb
Uranium	238-1	0.61	0.63	0.62	0.62	1.58	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.01	9.11	8.58	8.90	3.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				102		%
Zinc	66-2	231.45	230.82	223.89	228.72	1.83	ppb
Zirconium	90-1	1.10	1.12	1.11	1.11	1.08	ppb
Zirconium	91-1	1.06	1.12	1.14	1.11	3.63	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8882.10	8670.61	8615.03	8722.58	1.62	ppb
Antimony	121-1	86.43	88.81	89.51	88.25	1.83	ppb
Arsenic	75-2	169.11	169.05	167.08	168.41	0.68	ppb
Barium	135-1	525.49	541.02	526.81	531.11	1.62	ppb
Barium	137-1	526.19	539.99	520.80	528.99	1.87	ppb
Beryllium	9-1	10.43	10.27	10.10	10.26	1.60	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	11.38	11.68	11.56	11.54	1.31	ppb
Cadmium	106-1	11.43	12.48	11.36	11.76	5.34	ppb
Cadmium	111-1	12.32	12.54	12.49	12.45	0.96	ppb
Calcium	43-1	6341.41	6586.05	6413.91	6447.12	1.95	ppb
Calcium	44-1	6511.39	6550.94	6502.07	6521.47	0.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	70.69	71.47	70.96	71.04	0.56	ppb
Cobalt	59-2	126.86	127.49	126.87	127.08	0.28	ppb
Copper	63-2	1009.82	991.62	997.82	999.75	0.93	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				103		%
Indium	115-2				98		%
Iron	54-2	27480.71	27336.65	27198.39	27338.58	0.52	ppb
Iron	56-2	27183.94	27110.82	27224.26	27173.01	0.21	ppb
Iron	57-2	28009.14	27353.65	27743.38	27702.06	1.19	ppb
Krypton	83-1						cps
Lead	206-1	326.39	341.99	339.74	336.04	2.51	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	324.42	329.53	336.87	330.27	1.89	ppb
Lead	208-1	323.43	329.86	334.15	329.15	1.64	ppb
Lithium	6-1				89		%
Magnesium	24-2	5557.24	5340.64	5357.88	5418.59	2.22	ppb
Manganese	55-2	281.19	278.85	280.89	280.31	0.45	ppb
Molybdenum	94-1	16.15	17.24	16.57	16.65	3.30	ppb
Molybdenum	95-1	7.58	8.11	7.75	7.81	3.48	ppb
Molybdenum	96-1	8.53	9.08	8.75	8.79	3.18	ppb
Molybdenum	97-1	7.78	8.16	7.91	7.95	2.42	ppb
Molybdenum	98-1	7.57	8.04	7.72	7.78	3.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	129.56	130.22	130.41	130.06	0.35	ppb
Phosphorus	31-2	1002.53	929.40	965.83	965.92	3.79	ppb
Potassium	39-2	1718.33	1705.67	1714.64	1712.88	0.38	ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				109		%
Scandium	45-2				103		%
Selenium	82-1	20.29	22.03	20.32	20.88	4.77	ppb
Selenium	77-2	31.65	44.94	38.48	38.36	17.34	ppb
Selenium	78-2	26.39	24.96	29.32	26.89	8.26	ppb
Silicon	28-1	50.55	49.48	47.62	49.22	3.01	ppb
Silver	107-1	12.93	13.28	13.08	13.10	1.34	ppb
Silver	109-1	12.99	13.39	13.08	13.15	1.59	ppb
Sodium	23-2	8961.78	8942.92	8784.24	8896.31	1.10	ppb
Strontium	86-1	1255.83	1338.12	1294.77	1296.24	3.18	ppb
Strontium	88-1	1339.02	1387.51	1355.50	1360.68	1.81	ppb
Sulfur	34-1	10013.46	11146.20	10592.12	10583.93	5.35	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	9.75	10.10	10.01	9.96	1.87	ppb
Thallium	205-1	9.96	10.14	10.27	10.12	1.53	ppb
Tin	118-1	84.92	87.10	86.82	86.28	1.37	ppb
Titanium	47-1	584.57	602.44	603.59	596.87	1.79	ppb
Uranium	238-1	2.98	3.12	3.10	3.07	2.37	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	146.82	146.12	146.27	146.40	0.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	1232.12	1235.41	1219.26	1228.93	0.69	ppb
Zirconium	90-1	5.26	5.63	5.53	5.47	3.54	ppb
Zirconium	91-1	5.35	5.73	5.55	5.54	3.48	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7611.46	7708.36	7833.09	7717.64	1.44	ppb
Antimony	121-1	56.86	62.79	60.31	59.99	4.96	ppb
Arsenic	75-2	145.52	148.98	147.09	147.20	1.18	ppb
Barium	135-1	85.91	93.34	90.18	89.81	4.15	ppb
Barium	137-1	87.11	95.82	92.75	91.89	4.81	ppb
Beryllium	9-1	0.50	0.54	0.55	0.53	4.18	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.33	2.59	2.31	2.41	6.40	ppb
Cadmium	106-1	3.04	3.01	3.09	3.05	1.22	ppb
Cadmium	111-1	1.78	1.99	1.93	1.90	5.51	ppb
Calcium	43-1	7613.87	8137.63	7876.87	7876.13	3.33	ppb
Calcium	44-1	7760.20	8244.88	7982.82	7995.97	3.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.63	30.69	31.50	30.94	1.58	ppb
Cobalt	59-2	19.53	19.63	20.22	19.79	1.90	ppb
Copper	63-2	915.32	899.50	930.10	914.98	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				100		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	54-2	24211.54	23778.20	24323.68	24104.47	1.20	ppb
Iron	56-2	23293.62	23659.95	24366.51	23773.36	2.29	ppb
Iron	57-2	23761.32	23889.27	25104.94	24251.84	3.06	ppb
Krypton	83-1						cps
Lead	206-1	299.64	319.56	312.82	310.67	3.26	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	291.69	307.03	307.91	302.21	3.02	ppb
Lead	208-1	294.43	309.90	307.70	304.01	2.75	ppb
Lithium	6-1				87		%
Magnesium	24-2	5060.98	5068.23	5276.38	5135.20	2.38	ppb
Manganese	55-2	159.15	158.61	164.78	160.85	2.13	ppb
Molybdenum	94-1	14.63	16.00	15.15	15.26	4.53	ppb
Molybdenum	95-1	7.04	7.61	7.41	7.35	3.94	ppb
Molybdenum	96-1	7.91	8.52	8.25	8.22	3.71	ppb
Molybdenum	97-1	7.18	7.70	7.58	7.49	3.66	ppb
Molybdenum	98-1	7.04	7.61	7.34	7.33	3.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.03	22.87	23.78	23.23	2.09	ppb
Phosphorus	31-2	910.86	944.55	934.02	929.81	1.85	ppb
Potassium	39-2	1644.80	1649.87	1708.10	1667.59	2.11	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				107		%
Scandium	45-2				105		%
Selenium	82-1	0.29	0.88	0.79	0.65	48.32	ppb
Selenium	77-2	13.88	18.35	23.06	18.43	24.90	ppb
Selenium	78-2	5.00	3.38	4.01	4.13	19.68	ppb
Silicon	28-1	52.16	60.83	56.07	56.36	7.71	ppb
Silver	107-1	2.40	2.61	2.53	2.51	4.37	ppb
Silver	109-1	2.45	2.64	2.49	2.52	3.96	ppb
Sodium	23-2	10551.28	10840.47	10951.18	10780.98	1.92	ppb
Strontium	86-1	1704.05	1834.90	1787.28	1775.41	3.73	ppb
Strontium	88-1	1789.06	1910.26	1845.97	1848.43	3.28	ppb
Sulfur	34-1	9479.90	10484.41	9718.13	9894.15	5.30	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.38	0.40	0.39	0.39	2.71	ppb
Thallium	205-1	0.38	0.40	0.40	0.39	2.45	ppb
Tin	118-1	22.52	24.16	23.84	23.51	3.71	ppb
Titanium	47-1	596.78	643.16	615.53	618.49	3.77	ppb
Uranium	238-1	2.86	3.01	2.95	2.94	2.59	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	41.87	41.38	42.74	41.99	1.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	1033.14	1030.60	1054.09	1039.28	1.24	ppb
Zirconium	90-1	4.73	5.21	5.03	4.99	4.89	ppb
Zirconium	91-1	4.75	5.18	5.15	5.03	4.77	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6323.05	6290.19	6201.89	6271.71	1.00	ppb
Antimony	121-1	5.99	5.87	5.93	5.93	1.04	ppb
Arsenic	75-2	16.50	15.19	15.61	15.77	4.27	ppb
Barium	135-1	15.26	15.17	15.29	15.24	0.40	ppb
Barium	137-1	15.73	15.50	15.34	15.52	1.28	ppb
Beryllium	9-1	0.35	0.34	0.35	0.35	2.15	ppb
Bismuth	209-1				99		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.84	0.95	1.00	0.93	9.14	ppb
Cadmium	106-1	0.65	0.29	0.07	0.34	87.29	ppb
Cadmium	111-1	0.31	0.32	0.25	0.29	12.79	ppb
Calcium	43-1	3988.83	4004.57	3999.89	3997.76	0.20	ppb
Calcium	44-1	4063.08	4041.80	4017.48	4040.79	0.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.44	21.52	20.89	21.28	1.61	ppb
Cobalt	59-2	5.45	5.44	5.39	5.43	0.64	ppb
Copper	63-2	124.12	123.03	121.80	122.98	0.94	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				101		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				101		%
Iron	54-2	13391.48	13204.50	13225.62	13273.87	0.77	ppb
Iron	56-2	12850.27	12939.83	12613.71	12801.27	1.32	ppb
Iron	57-2	12528.99	12752.23	12417.10	12566.11	1.36	ppb
Krypton	83-1						cps
Lead	206-1	71.01	71.18	71.45	71.21	0.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	71.56	72.45	72.12	72.04	0.62	ppb
Lead	208-1	73.03	73.11	73.45	73.20	0.31	ppb
Lithium	6-1				87		%
Magnesium	24-2	3541.21	3570.21	3442.82	3518.08	1.90	ppb
Manganese	55-2	98.46	97.51	96.59	97.52	0.96	ppb
Molybdenum	94-1	10.11	10.39	10.46	10.32	1.78	ppb
Molybdenum	95-1	2.41	2.47	2.46	2.45	1.28	ppb
Molybdenum	96-1	3.23	3.32	3.33	3.29	1.68	ppb
Molybdenum	97-1	2.47	2.47	2.50	2.48	0.75	ppb
Molybdenum	98-1	2.41	2.42	2.45	2.43	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.75	15.97	15.70	15.81	0.91	ppb
Phosphorus	31-2	1048.21	1070.26	1037.10	1051.86	1.60	ppb
Potassium	39-2	997.32	1002.79	985.22	995.11	0.90	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				109		%
Scandium	45-2				108		%
Selenium	82-1	0.38	0.16	-0.17	0.13	217.71	ppb
Selenium	77-2	13.08	17.06	18.57	16.24	17.48	ppb
Selenium	78-2	2.95	3.34	2.50	2.93	14.27	ppb
Silicon	28-1	39.47	39.79	38.41	39.23	1.84	ppb
Silver	107-1	0.36	0.35	0.34	0.35	3.65	ppb
Silver	109-1	0.36	0.33	0.33	0.34	5.44	ppb
Sodium	23-2	6169.53	6127.72	6005.44	6100.90	1.40	ppb
Strontium	86-1	704.79	709.43	728.20	714.14	1.74	ppb
Strontium	88-1	751.53	752.45	749.57	751.18	0.20	ppb
Sulfur	34-1	1711.14	1692.80	1685.80	1696.58	0.77	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.13	0.12	0.13	0.13	5.22	ppb
Thallium	205-1	0.12	0.13	0.13	0.13	2.89	ppb
Tin	118-1	3.79	3.73	3.75	3.76	0.86	ppb
Titanium	47-1	808.06	787.67	785.50	793.74	1.57	ppb
Uranium	238-1	1.62	1.63	1.65	1.64	0.91	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	47.65	47.16	47.46	47.42	0.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	119.21	118.65	117.64	118.50	0.67	ppb
Zirconium	90-1	4.53	4.53	4.56	4.54	0.42	ppb
Zirconium	91-1	4.61	4.50	4.60	4.57	1.33	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6808.32	6838.40	6820.82	6822.51	0.22	ppb
Antimony	121-1	2.80	2.33	2.22	2.45	12.54	ppb
Arsenic	75-2	7.98	8.09	7.59	7.89	3.36	ppb
Barium	135-1	14.18	11.95	11.65	12.59	10.99	ppb
Barium	137-1	14.33	12.01	11.94	12.76	10.66	ppb
Beryllium	9-1	0.37	0.35	0.34	0.35	5.20	ppb
Bismuth	209-1				91		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.83	0.71	0.69	0.74	10.15	ppb
Cadmium	106-1	0.58	0.43	1.51	0.84	69.27	ppb
Cadmium	111-1	0.26	0.24	0.30	0.27	11.19	ppb
Calcium	43-1	4421.37	3776.99	3647.84	3948.73	10.49	ppb
Calcium	44-1	4507.99	3794.56	3706.07	4002.87	10.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.22	21.49	21.09	21.27	0.96	ppb
Cobalt	59-2	5.48	5.56	5.49	5.51	0.78	ppb
Copper	63-2	62.90	63.37	63.12	63.13	0.37	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				92		%
Holmium	165-2				98		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	54-2	15215.08	15098.72	14972.57	15095.46	0.80	ppb
Iron	56-2	14637.29	14940.90	14768.89	14782.36	1.03	ppb
Iron	57-2	15052.18	15254.24	15124.76	15143.73	0.68	ppb
Krypton	83-1						cps
Lead	206-1	31.93	27.16	26.33	28.47	10.62	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	32.54	27.56	26.79	28.97	10.78	ppb
Lead	208-1	32.07	27.26	26.35	28.56	10.77	ppb
Lithium	6-1				82		%
Magnesium	24-2	4388.52	4413.77	4284.44	4362.24	1.57	ppb
Manganese	55-2	117.47	118.80	114.64	116.97	1.82	ppb
Molybdenum	94-1	9.94	8.74	8.33	9.00	9.27	ppb
Molybdenum	95-1	0.88	0.72	0.68	0.76	13.82	ppb
Molybdenum	96-1	1.85	1.64	1.51	1.67	10.24	ppb
Molybdenum	97-1	0.87	0.76	0.73	0.79	9.67	ppb
Molybdenum	98-1	0.85	0.73	0.69	0.76	10.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.64	18.55	18.32	18.50	0.87	ppb
Phosphorus	31-2	1062.17	1027.77	1034.05	1041.33	1.76	ppb
Potassium	39-2	1162.74	1164.08	1138.74	1155.19	1.23	ppb
Rhodium	103-1				94		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				104		%
Selenium	82-1	0.59	0.28	0.07	0.31	84.58	ppb
Selenium	77-2	21.02	17.99	13.05	17.35	23.19	ppb
Selenium	78-2	3.87	3.93	2.93	3.58	15.67	ppb
Silicon	28-1	27.39	21.34	19.80	22.84	17.56	ppb
Silver	107-1	0.23	0.20	0.19	0.21	8.95	ppb
Silver	109-1	0.24	0.20	0.20	0.21	11.32	ppb
Sodium	23-2	5724.23	5578.02	5593.33	5631.86	1.43	ppb
Strontium	86-1	731.42	639.53	614.80	661.92	9.28	ppb
Strontium	88-1	751.17	646.19	643.93	680.43	9.01	ppb
Sulfur	34-1	1775.41	408.29	254.36	812.69	103.03	ppb
Terbium	159-1				93		%
Terbium	159-2				97		%
Thallium	203-1	0.16	0.14	0.13	0.14	12.54	ppb
Thallium	205-1	0.17	0.13	0.14	0.15	14.17	ppb
Tin	118-1	2.08	1.70	1.69	1.83	12.18	ppb
Titanium	47-1	802.10	707.97	672.81	727.63	9.19	ppb
Uranium	238-1	1.52	1.28	1.24	1.35	11.26	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	48.79	49.91	48.77	49.16	1.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				104		%
Zinc	66-2	70.31	71.48	68.81	70.20	1.90	ppb
Zirconium	90-1	5.01	4.34	4.14	4.50	10.11	ppb
Zirconium	91-1	5.03	4.39	4.32	4.58	8.59	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8956.85	8880.23	8931.69	8922.92	0.44	ppb
Antimony	121-1	73.67	71.68	73.60	72.98	1.55	ppb
Arsenic	75-2	150.13	148.20	149.21	149.18	0.65	ppb
Barium	135-1	119.79	117.64	120.95	119.46	1.40	ppb
Barium	137-1	123.55	121.38	121.20	122.05	1.07	ppb
Beryllium	9-1	0.54	0.53	0.54	0.54	1.22	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	2.44	2.44	2.43	2.44	0.12	ppb
Cadmium	106-1	2.88	4.18	4.13	3.73	19.72	ppb
Cadmium	111-1	1.79	1.77	1.85	1.80	2.40	ppb
Calcium	43-1	26268.41	25473.21	25203.25	25648.29	2.16	ppb
Calcium	44-1	25937.46	25326.93	24689.90	25318.10	2.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.47	30.15	30.43	30.01	1.65	ppb
Cobalt	59-2	29.30	29.31	29.35	29.32	0.08	ppb
Copper	63-2	1014.23	1024.46	1003.44	1014.05	1.04	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	54-2	32381.35	32480.58	32415.93	32425.95	0.16	ppb
Iron	56-2	31597.02	32057.44	31953.46	31869.31	0.76	ppb
Iron	57-2	31770.02	32279.06	32631.08	32226.72	1.34	ppb
Krypton	83-1						cps
Lead	206-1	327.63	317.81	322.77	322.74	1.52	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	328.41	311.97	320.76	320.38	2.57	ppb
Lead	208-1	322.15	311.57	315.13	316.28	1.70	ppb
Lithium	6-1				86		%
Magnesium	24-2	6247.61	6249.62	6338.04	6278.42	0.82	ppb
Manganese	55-2	210.87	212.88	213.02	212.26	0.57	ppb
Molybdenum	94-1	16.32	15.42	15.97	15.91	2.86	ppb
Molybdenum	95-1	5.91	5.61	5.77	5.76	2.54	ppb
Molybdenum	96-1	7.01	6.87	6.73	6.87	2.05	ppb
Molybdenum	97-1	5.93	5.93	5.76	5.87	1.65	ppb
Molybdenum	98-1	5.77	5.64	5.61	5.67	1.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.94	25.00	24.62	24.52	2.19	ppb
Phosphorus	31-2	1229.50	1189.95	1162.36	1193.94	2.83	ppb
Potassium	39-2	1890.17	1913.46	1913.41	1905.68	0.70	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	0.92	0.43	0.83	0.73	35.67	ppb
Selenium	77-2	21.36	12.00	13.79	15.72	31.60	ppb
Selenium	78-2	2.84	3.11	3.16	3.04	5.62	ppb
Silicon	28-1	52.05	51.44	53.19	52.23	1.71	ppb
Silver	107-1	3.10	3.03	3.16	3.10	2.25	ppb
Silver	109-1	3.14	3.09	3.11	3.11	0.77	ppb
Sodium	23-2	8121.73	8173.91	8093.30	8129.65	0.50	ppb
Strontium	86-1	5665.96	5507.61	5435.39	5536.32	2.13	ppb
Strontium	88-1	5569.87	5421.14	5402.81	5464.60	1.68	ppb
Sulfur	34-1	5610.40	5070.45	5273.83	5318.23	5.13	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	0.32	0.32	0.30	0.32	3.44	ppb
Thallium	205-1	0.33	0.30	0.31	0.31	4.07	ppb
Tin	118-1	27.42	26.93	27.42	27.26	1.03	ppb
Titanium	47-1	610.89	582.07	570.61	587.86	3.53	ppb
Uranium	238-1	2.66	2.55	2.56	2.59	2.46	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	42.73	43.01	42.66	42.80	0.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	1466.03	1482.00	1483.07	1477.03	0.65	ppb
Zirconium	90-1	6.14	6.10	6.10	6.11	0.40	ppb
Zirconium	91-1	6.03	6.02	6.08	6.04	0.54	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9204.68	7426.16	6928.41	7853.08	15.24	ppb
Antimony	121-1	58.92	64.55	57.71	60.39	6.05	ppb
Arsenic	75-2	142.33	116.96	105.92	121.74	15.33	ppb
Barium	135-1	106.04	117.12	104.82	109.33	6.20	ppb
Barium	137-1	109.43	120.29	106.64	112.12	6.43	ppb
Beryllium	9-1	0.48	0.54	0.48	0.50	6.77	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	2.37	2.71	2.28	2.45	9.17	ppb
Cadmium	106-1	2.80	4.18	2.97	3.31	22.65	ppb
Cadmium	111-1	1.47	1.73	1.43	1.54	10.43	ppb
Calcium	43-1	29666.68	32490.63	30018.20	30725.17	5.01	ppb
Calcium	44-1	29997.78	32807.28	29594.46	30799.84	5.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.11	26.54	24.46	27.71	14.28	ppb
Cobalt	59-2	29.31	24.18	22.18	25.22	14.57	ppb
Copper	63-2	944.04	778.55	716.24	812.94	14.48	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				96		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				103		%
Iron	54-2	32398.36	26365.88	23945.93	27570.06	15.79	ppb
Iron	56-2	31620.20	26097.83	23828.88	27182.31	14.74	ppb
Iron	57-2	32264.43	26838.86	24100.01	27734.43	14.98	ppb
Krypton	83-1						cps
Lead	206-1	262.25	294.98	272.69	276.64	6.04	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	265.92	292.72	263.46	274.03	5.92	ppb
Lead	208-1	260.83	291.20	263.35	271.79	6.20	ppb
Lithium	6-1				85		%
Magnesium	24-2	6391.98	5325.46	4838.84	5518.76	14.39	ppb
Manganese	55-2	230.66	187.00	169.92	195.86	15.99	ppb
Molybdenum	94-1	13.72	14.81	13.89	14.14	4.14	ppb
Molybdenum	95-1	4.88	5.21	4.91	5.00	3.67	ppb
Molybdenum	96-1	5.80	6.46	6.02	6.09	5.53	ppb
Molybdenum	97-1	4.94	5.43	5.02	5.13	5.13	ppb
Molybdenum	98-1	4.88	5.30	4.90	5.03	4.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.65	21.60	19.51	22.59	16.25	ppb
Phosphorus	31-2	1052.67	859.53	812.75	908.32	14.00	ppb
Potassium	39-2	1980.52	1613.82	1488.28	1694.21	15.10	ppb
Rhodium	103-1				96		%
Rhodium	103-2				105		%
Scandium	45-1				105		%
Scandium	45-2				109		%
Selenium	82-1	0.20	0.72	0.34	0.42	65.11	ppb
Selenium	77-2	17.25	18.07	13.77	16.36	13.94	ppb
Selenium	78-2	3.81	2.48	2.78	3.02	23.06	ppb
Silicon	28-1	49.35	52.97	48.77	50.37	4.52	ppb
Silver	107-1	2.25	2.47	2.24	2.32	5.51	ppb
Silver	109-1	2.36	2.57	2.23	2.39	7.18	ppb
Sodium	23-2	8540.27	7010.57	6551.62	7367.49	14.13	ppb
Strontium	86-1	6195.03	6655.04	6175.44	6341.83	4.28	ppb
Strontium	88-1	5976.03	6563.55	6090.79	6210.12	5.01	ppb
Sulfur	34-1	4897.25	5739.92	4683.23	5106.80	10.94	ppb
Terbium	159-1				96		%
Terbium	159-2				103		%
Thallium	203-1	0.27	0.30	0.27	0.28	5.54	ppb
Thallium	205-1	0.27	0.30	0.28	0.28	5.98	ppb
Tin	118-1	23.43	26.18	23.05	24.22	7.06	ppb
Titanium	47-1	574.98	632.73	574.91	594.21	5.61	ppb
Uranium	238-1	2.39	2.70	2.43	2.51	6.66	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.33	36.81	33.84	38.66	15.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				110		%
Zinc	66-2	1408.62	1152.31	1055.32	1205.41	15.14	ppb
Zirconium	90-1	5.40	5.94	5.48	5.61	5.16	ppb
Zirconium	91-1	5.40	5.89	5.44	5.58	4.90	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7753.40	7658.42	7749.03	7720.28	0.69	ppb
Antimony	121-1	27.13	27.57	27.48	27.39	0.84	ppb
Arsenic	75-2	62.22	62.95	63.30	62.82	0.87	ppb
Barium	135-1	60.96	62.57	61.98	61.84	1.31	ppb
Barium	137-1	61.84	64.47	64.20	63.50	2.28	ppb
Beryllium	9-1	0.44	0.43	0.44	0.44	1.45	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.48	1.66	1.64	1.59	6.29	ppb
Cadmium	106-1	2.68	3.06	2.73	2.82	7.45	ppb
Cadmium	111-1	0.87	0.90	0.85	0.88	2.99	ppb
Calcium	43-1	38228.86	38365.56	38575.38	38389.93	0.45	ppb
Calcium	44-1	38160.86	37689.63	38240.44	38030.31	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28.02	28.24	28.22	28.16	0.42	ppb
Cobalt	59-2	16.37	16.16	16.32	16.28	0.68	ppb
Copper	63-2	403.49	404.72	403.69	403.97	0.16	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				104		%
Indium	115-2				97		%
Iron	54-2	21967.73	21686.27	21807.11	21820.37	0.65	ppb
Iron	56-2	21763.82	21525.15	21506.95	21598.64	0.66	ppb
Iron	57-2	21866.68	22034.64	21844.63	21915.32	0.47	ppb
Krypton	83-1						cps
Lead	206-1	135.94	137.04	133.62	135.53	1.29	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	132.24	136.19	132.46	133.63	1.66	ppb
Lead	208-1	132.41	135.35	131.54	133.10	1.50	ppb
Lithium	6-1				85		%
Magnesium	24-2	5630.41	5689.27	5739.10	5686.26	0.96	ppb
Manganese	55-2	204.66	204.47	205.20	204.78	0.18	ppb
Molybdenum	94-1	10.40	10.40	10.47	10.43	0.40	ppb
Molybdenum	95-1	2.34	2.39	2.41	2.38	1.45	ppb
Molybdenum	96-1	3.16	3.31	3.25	3.24	2.38	ppb
Molybdenum	97-1	2.34	2.46	2.39	2.40	2.47	ppb
Molybdenum	98-1	2.30	2.42	2.43	2.38	3.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.87	24.78	25.01	24.89	0.47	ppb
Phosphorus	31-2	900.21	948.36	877.47	908.68	3.98	ppb
Potassium	39-2	1406.75	1395.04	1401.80	1401.20	0.42	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				109		%
Scandium	45-2				102		%
Selenium	82-1	0.31	-0.09	-0.18	0.01	2086.73	ppb
Selenium	77-2	12.95	10.91	17.32	13.73	23.85	ppb
Selenium	78-2	2.74	2.79	4.22	3.25	25.92	ppb
Silicon	28-1	29.45	33.90	30.35	31.23	7.54	ppb
Silver	107-1	1.00	1.05	1.05	1.03	2.75	ppb
Silver	109-1	1.03	1.05	1.08	1.05	2.06	ppb
Sodium	23-2	4762.42	4828.54	4866.11	4819.02	1.09	ppb
Strontium	86-1	8511.89	8871.40	8723.97	8702.42	2.08	ppb
Strontium	88-1	8315.45	8505.94	8541.16	8454.19	1.44	ppb
Sulfur	34-1	2689.18	2738.37	2468.18	2631.91	5.47	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.18	0.18	0.18	0.18	2.46	ppb
Thallium	205-1	0.18	0.18	0.18	0.18	1.22	ppb
Tin	118-1	11.51	11.67	11.72	11.63	0.96	ppb
Titanium	47-1	521.84	523.61	531.48	525.64	0.98	ppb
Uranium	238-1	2.04	2.06	2.01	2.04	1.06	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	38.57	38.23	38.53	38.44	0.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				103		%
Zinc	66-2	621.83	614.85	619.18	618.62	0.57	ppb
Zirconium	90-1	4.64	4.75	4.69	4.69	1.18	ppb
Zirconium	91-1	4.58	4.66	4.57	4.60	1.06	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11224.03	9056.09	8975.65	9751.92	13.08	ppb
Antimony	121-1	4.73	4.41	4.40	4.51	4.20	ppb
Arsenic	75-2	13.92	10.86	10.79	11.86	15.06	ppb
Barium	135-1	40.71	38.37	38.43	39.17	3.41	ppb
Barium	137-1	42.02	38.75	38.88	39.88	4.64	ppb
Beryllium	9-1	0.43	0.39	0.40	0.40	5.19	ppb
Bismuth	209-1				97		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	1.01	0.83	0.91	0.92	9.76	ppb
Cadmium	106-1	3.09	2.40	1.82	2.44	26.06	ppb
Cadmium	111-1	0.49	0.41	0.40	0.43	11.52	ppb
Calcium	43-1	18024.51	17182.34	17438.95	17548.60	2.46	ppb
Calcium	44-1	18060.80	17382.39	17309.48	17584.23	2.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41.16	32.81	33.02	35.67	13.34	ppb
Cobalt	59-2	13.91	11.23	11.15	12.10	12.99	ppb
Copper	63-2	85.53	70.79	69.28	75.20	11.94	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				98		%
Holmium	165-2				93		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	24427.65	20082.97	18903.43	21138.02	13.76	ppb
Iron	56-2	24073.02	19646.07	19635.26	21118.12	12.12	ppb
Iron	57-2	24647.36	20195.00	19946.99	21596.45	12.25	ppb
Krypton	83-1						cps
Lead	206-1	22.42	21.62	21.76	21.93	1.94	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.16	21.36	21.55	21.69	1.91	ppb
Lead	208-1	22.11	21.31	21.64	21.69	1.84	ppb
Lithium	6-1				83		%
Magnesium	24-2	7414.66	6043.08	5967.55	6475.09	12.58	ppb
Manganese	55-2	416.59	340.34	332.32	363.08	12.81	ppb
Molybdenum	94-1	8.64	8.35	8.45	8.48	1.74	ppb
Molybdenum	95-1	0.64	0.60	0.60	0.61	3.60	ppb
Molybdenum	96-1	1.50	1.46	1.47	1.48	1.27	ppb
Molybdenum	97-1	0.64	0.61	0.63	0.62	2.71	ppb
Molybdenum	98-1	0.61	0.59	0.59	0.60	2.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	40.42	33.38	32.45	35.41	12.31	ppb
Phosphorus	31-2	1248.69	971.92	920.37	1046.99	16.86	ppb
Potassium	39-2	1330.63	1069.32	1058.71	1152.89	13.36	ppb
Rhodium	103-1				101		%
Rhodium	103-2				96		%
Scandium	45-1				108		%
Scandium	45-2				100		%
Selenium	82-1	-0.34	-0.44	-0.14	-0.31		ppb
Selenium	77-2	28.70	17.92	20.56	22.39	25.10	ppb
Selenium	78-2	3.83	2.80	3.77	3.47	16.61	ppb
Silicon	28-1	23.85	21.92	24.18	23.32	5.22	ppb
Silver	107-1	0.18	0.17	0.16	0.17	4.40	ppb
Silver	109-1	0.18	0.16	0.16	0.17	7.78	ppb
Sodium	23-2	1266.96	1035.59	1020.03	1107.52	12.49	ppb
Strontium	86-1	3623.28	3460.66	3485.46	3523.13	2.49	ppb
Strontium	88-1	3789.91	3537.94	3630.47	3652.78	3.49	ppb
Sulfur	34-1	668.04	355.88	253.79	425.90	50.67	ppb
Terbium	159-1				98		%
Terbium	159-2				93		%
Thallium	203-1	0.09	0.07	0.09	0.08	10.79	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	3.97	ppb
Tin	118-1	2.25	2.12	2.13	2.17	3.44	ppb
Titanium	47-1	620.92	582.91	583.12	595.65	3.67	ppb
Uranium	238-1	1.12	1.08	1.08	1.10	2.14	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	56.30	47.32	46.38	50.00	10.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				100		%
Zinc	66-2	165.57	132.76	131.93	143.42	13.38	ppb
Zirconium	90-1	4.54	4.27	4.34	4.38	3.23	ppb
Zirconium	91-1	4.38	4.21	4.27	4.29	2.01	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11196.56	11053.52	11091.97	11114.02	0.67	ppb
Antimony	121-1	0.52	0.53	0.55	0.53	2.87	ppb
Arsenic	75-2	2.68	2.65	2.45	2.59	4.76	ppb
Barium	135-1	40.14	40.79	41.78	40.90	2.02	ppb
Barium	137-1	40.19	41.85	42.08	41.37	2.49	ppb
Beryllium	9-1	0.33	0.35	0.36	0.35	4.79	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.99	0.89	0.73	0.87	15.17	ppb
Cadmium	106-1	2.52	1.64	2.45	2.20	22.20	ppb
Cadmium	111-1	0.21	0.14	0.20	0.19	19.09	ppb
Calcium	43-1	5800.79	6046.97	6050.18	5965.98	2.40	ppb
Calcium	44-1	5895.95	6059.39	6056.17	6003.84	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.83	30.03	30.35	30.07	0.86	ppb
Cobalt	59-2	10.56	10.60	10.58	10.58	0.20	ppb
Copper	63-2	33.54	33.52	33.74	33.60	0.37	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	54-2	24245.03	24355.18	24762.87	24454.36	1.12	ppb
Iron	56-2	24196.64	23525.90	24175.29	23965.94	1.59	ppb
Iron	57-2	24817.07	24155.96	24471.60	24481.54	1.35	ppb
Krypton	83-1						cps
Lead	206-1	6.71	7.09	7.09	6.96	3.19	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.58	6.72	6.84	6.71	1.94	ppb
Lead	208-1	6.57	6.80	6.89	6.75	2.38	ppb
Lithium	6-1				86		%
Magnesium	24-2	8164.46	8186.92	8199.85	8183.74	0.22	ppb
Manganese	55-2	325.52	321.77	327.32	324.87	0.87	ppb
Molybdenum	94-1	11.11	10.75	10.61	10.82	2.36	ppb
Molybdenum	95-1	0.20	0.23	0.23	0.22	7.73	ppb
Molybdenum	96-1	1.35	1.35	1.34	1.35	0.49	ppb
Molybdenum	97-1	0.20	0.25	0.22	0.23	10.87	ppb
Molybdenum	98-1	0.21	0.21	0.23	0.21	4.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.91	37.12	37.50	37.17	0.80	ppb
Phosphorus	31-2	979.16	954.39	916.40	949.98	3.33	ppb
Potassium	39-2	1302.84	1293.43	1301.46	1299.24	0.39	ppb
Rhodium	103-1				103		%
Rhodium	103-2				100		%
Scandium	45-1				110		%
Scandium	45-2				105		%
Selenium	82-1	-0.67	-0.30	-0.32	-0.43		ppb
Selenium	77-2	15.17	18.44	19.76	17.79	13.28	ppb
Selenium	78-2	3.41	3.07	4.29	3.59	17.53	ppb
Silicon	28-1	20.08	21.77	21.34	21.06	4.17	ppb
Silver	107-1	0.06	0.05	0.06	0.06	3.76	ppb
Silver	109-1	0.04	0.05	0.04	0.04	5.92	ppb
Sodium	23-2	578.73	573.19	586.30	579.41	1.14	ppb
Strontium	86-1	1074.18	1123.41	1142.97	1113.52	3.18	ppb
Strontium	88-1	1117.41	1162.51	1171.53	1150.48	2.52	ppb
Sulfur	34-1	-833.42	-934.16	-746.11	-837.89		ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.06	0.06	0.06	0.06	5.24	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	6.75	ppb
Tin	118-1	0.84	0.83	0.89	0.85	3.91	ppb
Titanium	47-1	560.95	569.49	586.01	572.15	2.23	ppb
Uranium	238-1	0.44	0.44	0.46	0.45	2.39	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.92	49.83	50.21	50.32	1.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				104		%
Zinc	66-2	58.43	59.73	59.69	59.28	1.25	ppb
Zirconium	90-1	5.37	5.74	5.80	5.64	4.14	ppb
Zirconium	91-1	5.61	5.56	5.91	5.69	3.28	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7021.33	6976.88	6999.73	6999.31	0.32	ppb
Antimony	121-1	17.05	16.98	17.47	17.17	1.54	ppb
Arsenic	75-2	51.03	52.01	53.37	52.14	2.25	ppb
Barium	135-1	37.27	37.87	38.10	37.75	1.15	ppb
Barium	137-1	37.77	38.45	38.74	38.32	1.30	ppb
Beryllium	9-1	0.35	0.37	0.38	0.37	4.06	ppb
Bismuth	209-1				96		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.35	1.41	1.51	1.42	5.88	ppb
Cadmium	106-1	2.48	2.30	2.09	2.29	8.47	ppb
Cadmium	111-1	0.82	0.80	0.82	0.81	1.36	ppb
Calcium	43-1	16805.30	16680.91	16593.22	16693.14	0.64	ppb
Calcium	44-1	16859.94	16781.92	16646.21	16762.69	0.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.92	25.95	26.66	26.18	1.61	ppb
Cobalt	59-2	8.88	8.91	8.81	8.87	0.56	ppb
Copper	63-2	774.63	776.48	781.58	777.56	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	16785.83	16233.49	16809.45	16609.59	1.96	ppb
Iron	56-2	16155.28	15945.26	16183.11	16094.55	0.81	ppb
Iron	57-2	16537.23	16524.48	16173.09	16411.60	1.26	ppb
Krypton	83-1						cps
Lead	206-1	168.45	171.19	166.45	168.70	1.41	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	169.06	170.82	160.74	166.87	3.23	ppb
Lead	208-1	165.10	167.41	161.33	164.62	1.87	ppb
Lithium	6-1				87		%
Magnesium	24-2	4082.52	4081.80	4145.71	4103.34	0.89	ppb
Manganese	55-2	124.33	124.00	123.49	123.94	0.34	ppb
Molybdenum	94-1	11.56	11.79	11.71	11.68	1.00	ppb
Molybdenum	95-1	4.87	4.92	4.95	4.92	0.78	ppb
Molybdenum	96-1	5.62	5.60	5.58	5.60	0.35	ppb
Molybdenum	97-1	4.89	4.96	4.98	4.94	0.98	ppb
Molybdenum	98-1	4.87	4.86	4.91	4.88	0.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.92	19.39	19.95	19.75	1.60	ppb
Phosphorus	31-2	1050.91	1073.19	1053.98	1059.36	1.14	ppb
Potassium	39-2	1170.17	1162.93	1161.73	1164.94	0.39	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	0.60	0.31	0.19	0.37	57.08	ppb
Selenium	77-2	16.74	12.48	18.90	16.04	20.36	ppb
Selenium	78-2	2.73	3.09	4.53	3.45	27.59	ppb
Silicon	28-1	30.07	30.23	32.84	31.05	5.00	ppb
Silver	107-1	1.64	1.64	1.68	1.65	1.22	ppb
Silver	109-1	1.61	1.63	1.67	1.64	1.95	ppb
Sodium	23-2	7849.02	7927.91	7988.42	7921.78	0.88	ppb
Strontium	86-1	4230.77	4196.92	4243.63	4223.77	0.57	ppb
Strontium	88-1	4342.52	4394.34	4380.25	4372.37	0.61	ppb
Sulfur	34-1	6047.30	6155.03	5926.42	6042.92	1.89	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.26	0.24	0.25	0.25	4.32	ppb
Thallium	205-1	0.26	0.26	0.25	0.26	1.92	ppb
Tin	118-1	10.54	10.69	10.86	10.70	1.53	ppb
Titanium	47-1	651.51	654.15	648.07	651.24	0.47	ppb
Uranium	238-1	1.80	1.85	1.79	1.81	1.71	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	37.79	38.28	38.74	38.27	1.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				103		%
Zinc	66-2	407.89	417.19	416.71	413.93	1.26	ppb
Zirconium	90-1	4.13	4.27	4.22	4.21	1.66	ppb
Zirconium	91-1	4.15	4.16	4.23	4.18	1.05	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10992.61	10766.91	10449.76	10736.43	2.54	ppb
Antimony	121-1	45.60	46.78	53.65	48.68	8.92	ppb
Arsenic	75-2	158.85	162.08	152.33	157.76	3.15	ppb
Barium	135-1	48.78	49.94	57.96	52.23	9.57	ppb
Barium	137-1	49.79	51.03	58.23	53.02	8.60	ppb
Beryllium	9-1	0.52	0.52	0.57	0.54	5.73	ppb
Bismuth	209-1				95		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.94	2.00	2.36	2.10	10.71	ppb
Cadmium	106-1	2.03	2.63	2.45	2.37	12.90	ppb
Cadmium	111-1	1.04	1.11	1.19	1.11	6.53	ppb
Calcium	43-1	5668.57	5618.73	6494.12	5927.14	8.29	ppb
Calcium	44-1	5677.90	5629.44	6263.70	5857.01	6.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34.26	33.40	32.72	33.46	2.32	ppb
Cobalt	59-2	12.33	12.28	11.87	12.16	2.06	ppb
Copper	63-2	1983.47	1980.76	1933.35	1965.86	1.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				98		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	28482.36	28176.97	27999.87	28219.73	0.86	ppb
Iron	56-2	28424.37	28146.28	28034.18	28201.61	0.71	ppb
Iron	57-2	29228.63	28052.53	27841.73	28374.29	2.63	ppb
Krypton	83-1						cps
Lead	206-1	275.09	272.85	320.32	289.42	9.25	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	271.49	266.42	312.34	283.42	8.88	ppb
Lead	208-1	269.31	264.41	309.02	280.91	8.71	ppb
Lithium	6-1				84		%
Magnesium	24-2	5354.23	5246.00	5209.32	5269.85	1.43	ppb
Manganese	55-2	172.33	169.28	166.23	169.28	1.80	ppb
Molybdenum	94-1	19.69	19.49	23.15	20.78	9.88	ppb
Molybdenum	95-1	9.45	9.32	11.15	9.97	10.21	ppb
Molybdenum	96-1	10.65	10.54	12.32	11.17	8.91	ppb
Molybdenum	97-1	9.68	9.45	10.95	10.03	8.05	ppb
Molybdenum	98-1	9.41	9.44	11.02	9.96	9.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	34.54	33.65	32.99	33.73	2.30	ppb
Phosphorus	31-2	993.03	982.43	954.30	976.59	2.05	ppb
Potassium	39-2	1239.22	1223.61	1188.35	1217.06	2.14	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				105		%
Scandium	45-2				104		%
Selenium	82-1	1.29	0.90	0.97	1.06	19.73	ppb
Selenium	77-2	21.46	25.27	15.33	20.69	24.23	ppb
Selenium	78-2	3.63	4.74	4.28	4.22	13.28	ppb
Silicon	28-1	36.63	36.05	44.32	39.00	11.84	ppb
Silver	107-1	3.19	3.30	3.78	3.43	9.21	ppb
Silver	109-1	3.28	3.32	3.90	3.50	9.87	ppb
Sodium	23-2	2332.96	2338.32	2270.33	2313.87	1.63	ppb
Strontium	86-1	1306.71	1316.51	1547.38	1390.20	9.80	ppb
Strontium	88-1	1385.23	1347.52	1570.13	1434.29	8.31	ppb
Sulfur	34-1	15561.07	15711.60	18828.20	16700.29	11.04	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.23	0.23	0.27	0.24	9.44	ppb
Thallium	205-1	0.23	0.22	0.27	0.24	9.86	ppb
Tin	118-1	31.86	32.59	38.15	34.20	10.07	ppb
Titanium	47-1	766.44	764.72	861.19	797.45	6.92	ppb
Uranium	238-1	2.27	2.29	2.62	2.40	8.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	60.58	59.64	58.25	59.49	1.97	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	361.09	353.58	343.10	352.59	2.56	ppb
Zirconium	90-1	6.57	6.43	7.67	6.89	9.88	ppb
Zirconium	91-1	6.51	6.45	7.74	6.90	10.55	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9467.29	9101.43	9167.89	9245.54	2.11	ppb
Antimony	121-1	8.19	8.49	8.40	8.36	1.83	ppb
Arsenic	75-2	33.08	32.93	34.93	33.64	3.31	ppb
Barium	135-1	24.24	25.29	25.04	24.86	2.21	ppb
Barium	137-1	24.96	25.75	25.36	25.36	1.56	ppb
Beryllium	9-1	0.38	0.39	0.37	0.38	2.64	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.32	1.12	1.44	1.29	12.63	ppb
Cadmium	106-1	1.52	2.11	0.85	1.49	42.29	ppb
Cadmium	111-1	0.38	0.44	0.36	0.39	11.02	ppb
Calcium	43-1	3989.57	3969.11	4046.08	4001.59	1.00	ppb
Calcium	44-1	4074.88	4009.59	4108.68	4064.38	1.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.31	24.22	23.87	24.14	0.96	ppb
Cobalt	59-2	9.32	9.12	9.11	9.18	1.27	ppb
Copper	63-2	380.70	368.92	370.60	373.41	1.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				97		%
Indium	115-1				102		%
Indium	115-2				97		%
Iron	54-2	21230.24	21532.66	20940.03	21234.31	1.40	ppb
Iron	56-2	21337.70	20754.55	21148.38	21080.21	1.41	ppb
Iron	57-2	21811.74	21492.25	21569.04	21624.34	0.77	ppb
Krypton	83-1						cps
Lead	206-1	82.64	82.45	82.88	82.66	0.26	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	82.50	82.31	82.23	82.35	0.16	ppb
Lead	208-1	84.06	84.05	83.82	83.98	0.16	ppb
Lithium	6-1				87		%
Magnesium	24-2	4895.65	4772.55	4970.95	4879.72	2.05	ppb
Manganese	55-2	159.90	156.67	156.80	157.79	1.16	ppb
Molybdenum	94-1	15.70	16.04	15.94	15.90	1.09	ppb
Molybdenum	95-1	2.79	2.80	2.79	2.80	0.23	ppb
Molybdenum	96-1	4.13	4.24	4.17	4.18	1.31	ppb
Molybdenum	97-1	2.79	2.84	2.86	2.83	1.36	ppb
Molybdenum	98-1	2.75	2.78	2.79	2.77	0.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.00	27.08	26.88	27.32	2.18	ppb
Phosphorus	31-2	975.58	960.39	990.58	975.52	1.55	ppb
Potassium	39-2	857.82	838.15	840.15	845.37	1.28	ppb
Rhodium	103-1				102		%
Rhodium	103-2				102		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	0.07	0.05	-0.19	-0.02		ppb
Selenium	77-2	17.65	23.19	19.90	20.24	13.77	ppb
Selenium	78-2	4.00	4.03	3.20	3.75	12.59	ppb
Silicon	28-1	26.62	26.91	27.60	27.04	1.87	ppb
Silver	107-1	0.56	0.57	0.57	0.57	0.62	ppb
Silver	109-1	0.57	0.56	0.56	0.56	0.19	ppb
Sodium	23-2	1663.31	1586.64	1608.87	1619.61	2.44	ppb
Strontium	86-1	852.77	881.01	869.31	867.70	1.63	ppb
Strontium	88-1	886.75	906.26	901.74	898.25	1.14	ppb
Sulfur	34-1	3106.57	3297.86	2964.03	3122.82	5.36	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.08	0.07	0.07	0.08	4.09	ppb
Thallium	205-1	0.08	0.07	0.08	0.08	2.41	ppb
Tin	118-1	5.85	6.08	6.18	6.04	2.83	ppb
Titanium	47-1	664.00	671.91	665.54	667.15	0.63	ppb
Uranium	238-1	1.16	1.18	1.16	1.17	0.89	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	62.11	60.84	61.11	61.35	1.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	105.75	104.26	104.21	104.74	0.83	ppb
Zirconium	90-1	7.33	7.52	7.44	7.43	1.28	ppb
Zirconium	91-1	7.47	7.57	7.39	7.48	1.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8393.46	9006.30	8534.94	8644.90	3.71	ppb
Antimony	121-1	0.79	0.80	0.79	0.80	1.04	ppb
Arsenic	75-2	7.71	8.93	8.10	8.24	7.55	ppb
Barium	135-1	17.87	18.09	17.84	17.93	0.77	ppb
Barium	137-1	18.13	18.56	18.26	18.32	1.20	ppb
Beryllium	9-1	0.27	0.28	0.28	0.28	1.94	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.05	1.30	0.96	1.10	15.84	ppb
Cadmium	106-1	1.50	1.17	1.54	1.40	14.33	ppb
Cadmium	111-1	0.16	0.13	0.18	0.16	13.98	ppb
Calcium	43-1	3528.22	3488.94	3546.65	3521.27	0.84	ppb
Calcium	44-1	3586.16	3534.15	3648.75	3589.69	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.35	27.48	25.42	26.08	4.65	ppb
Cobalt	59-2	8.32	9.12	8.61	8.68	4.68	ppb
Copper	63-2	52.56	55.88	52.39	53.61	3.67	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				101		%
Holmium	165-2				95		%
Indium	115-1				103		%
Indium	115-2				95		%
Iron	54-2	20216.27	21555.47	20570.75	20780.83	3.34	ppb
Iron	56-2	19980.86	20993.87	19721.99	20232.24	3.32	ppb
Iron	57-2	20552.09	21356.84	20484.98	20797.97	2.33	ppb
Krypton	83-1						cps
Lead	206-1	10.68	10.58	10.58	10.62	0.54	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	10.40	10.45	10.45	10.43	0.26	ppb
Lead	208-1	10.39	10.44	10.39	10.41	0.29	ppb
Lithium	6-1				85		%
Magnesium	24-2	5656.56	5943.83	5585.46	5728.62	3.31	ppb
Manganese	55-2	178.44	189.40	180.55	182.80	3.18	ppb
Molybdenum	94-1	13.07	12.60	13.08	12.92	2.14	ppb
Molybdenum	95-1	0.30	0.29	0.29	0.29	0.71	ppb
Molybdenum	96-1	1.65	1.70	1.62	1.66	2.34	ppb
Molybdenum	97-1	0.31	0.31	0.30	0.31	2.98	ppb
Molybdenum	98-1	0.28	0.29	0.31	0.29	5.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.68	30.19	28.24	28.70	4.60	ppb
Phosphorus	31-2	1011.12	1087.01	1022.44	1040.19	3.94	ppb
Potassium	39-2	854.45	903.09	844.72	867.42	3.60	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				109		%
Scandium	45-2				103		%
Selenium	82-1	-0.05	-0.34	-0.07	-0.15		ppb
Selenium	77-2	18.75	18.64	17.86	18.42	2.66	ppb
Selenium	78-2	3.19	2.37	3.07	2.87	15.46	ppb
Silicon	28-1	25.06	25.01	25.74	25.27	1.62	ppb
Silver	107-1	0.10	0.08	0.10	0.09	9.79	ppb
Silver	109-1	0.08	0.08	0.08	0.08	3.08	ppb
Sodium	23-2	1666.16	1777.24	1710.05	1717.82	3.26	ppb
Strontium	86-1	509.53	494.34	499.47	501.11	1.54	ppb
Strontium	88-1	503.08	499.40	499.98	500.82	0.39	ppb
Sulfur	34-1	-1065.81	-1002.24	-897.10	-988.38		ppb
Terbium	159-1				101		%
Terbium	159-2				95		%
Thallium	203-1	0.05	0.05	0.05	0.05	0.50	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	3.04	ppb
Tin	118-1	1.23	1.23	1.26	1.24	1.40	ppb
Titanium	47-1	527.34	525.81	541.35	531.50	1.61	ppb
Uranium	238-1	0.36	0.37	0.37	0.37	1.45	ppb

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	55.50	58.43	55.25	56.39	3.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				103		%
Zinc	66-2	48.61	52.82	49.33	50.25	4.48	ppb
Zirconium	90-1	6.90	6.91	6.92	6.91	0.14	ppb
Zirconium	91-1	6.94	6.81	6.92	6.89	1.00	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7327.28	7429.92	7337.06	7364.76	0.77	ppb
Antimony	121-1	5.65	6.48	6.15	6.09	6.83	ppb
Arsenic	75-2	23.24	23.97	23.10	23.44	2.01	ppb
Barium	135-1	15.44	17.20	16.37	16.34	5.41	ppb
Barium	137-1	15.72	17.33	16.60	16.55	4.87	ppb
Beryllium	9-1	0.31	0.32	0.31	0.32	1.40	ppb
Bismuth	209-1				90		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.03	1.06	1.02	1.04	2.00	ppb
Cadmium	106-1	2.19	1.78	1.72	1.90	13.42	ppb
Cadmium	111-1	0.27	0.27	0.25	0.26	3.73	ppb
Calcium	43-1	8467.44	9614.07	9240.46	9107.33	6.42	ppb
Calcium	44-1	8576.09	9695.18	9435.53	9235.60	6.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.53	20.69	20.92	20.71	0.93	ppb
Cobalt	59-2	7.32	7.33	7.40	7.35	0.60	ppb
Copper	63-2	323.72	322.74	330.77	325.74	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				91		%
Holmium	165-2				97		%
Indium	115-1				94		%
Indium	115-2				99		%
Iron	54-2	17494.07	17199.00	17787.49	17493.52	1.68	ppb
Iron	56-2	16828.65	17120.85	17383.93	17111.14	1.62	ppb
Iron	57-2	17266.10	17274.60	17801.53	17447.41	1.76	ppb
Krypton	83-1						cps
Lead	206-1	179.62	200.05	186.20	188.62	5.53	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	171.51	190.01	180.51	180.68	5.12	ppb
Lead	208-1	174.21	190.54	181.91	182.22	4.48	ppb
Lithium	6-1				79		%
Magnesium	24-2	4270.82	4275.99	4296.36	4281.06	0.32	ppb
Manganese	55-2	113.03	114.41	116.03	114.49	1.31	ppb
Molybdenum	94-1	11.88	12.92	12.73	12.51	4.42	ppb
Molybdenum	95-1	1.37	1.53	1.49	1.46	5.98	ppb
Molybdenum	96-1	2.52	2.83	2.73	2.69	5.95	ppb
Molybdenum	97-1	1.41	1.60	1.56	1.52	6.53	ppb
Molybdenum	98-1	1.42	1.59	1.51	1.51	5.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.47	18.79	18.76	18.67	0.95	ppb
Phosphorus	31-2	979.17	997.00	976.79	984.32	1.12	ppb
Potassium	39-2	1172.72	1186.13	1189.33	1182.73	0.75	ppb
Rhodium	103-1				94		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				105		%
Selenium	82-1	0.09	-0.14	-0.49	-0.18		ppb
Selenium	77-2	22.33	14.06	10.73	15.71	38.01	ppb
Selenium	78-2	3.48	4.07	4.88	4.14	17.01	ppb
Silicon	28-1	20.70	24.18	22.17	22.35	7.82	ppb
Silver	107-1	0.74	0.84	0.81	0.80	6.77	ppb
Silver	109-1	0.76	0.84	0.81	0.80	5.16	ppb
Sodium	23-2	6370.61	6542.05	6572.41	6495.02	1.68	ppb
Strontium	86-1	1793.05	1949.28	1899.30	1880.54	4.24	ppb
Strontium	88-1	1842.57	2047.51	1938.55	1942.88	5.28	ppb
Sulfur	34-1	2650.66	3791.44	3406.55	3282.88	17.68	ppb
Terbium	159-1				93		%
Terbium	159-2				98		%
Thallium	203-1	0.12	0.14	0.12	0.13	6.49	ppb
Thallium	205-1	0.12	0.13	0.13	0.13	7.48	ppb
Tin	118-1	4.38	4.95	4.67	4.67	6.07	ppb
Titanium	47-1	566.03	646.05	619.27	610.45	6.67	ppb
Uranium	238-1	0.79	0.86	0.83	0.83	4.54	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.26	45.65	45.96	45.62	0.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				105		%
Zinc	66-2	109.21	109.78	111.31	110.10	0.99	ppb
Zirconium	90-1	5.88	6.49	6.25	6.21	4.99	ppb
Zirconium	91-1	5.82	6.37	6.15	6.11	4.49	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12343.10	12414.66	12969.29	12575.68	2.73	ppb
Antimony	121-1	43.72	43.13	44.33	43.73	1.37	ppb
Arsenic	75-2	234.29	229.72	236.08	233.36	1.40	ppb
Barium	135-1	61.93	60.73	62.65	61.77	1.57	ppb
Barium	137-1	63.04	61.85	63.72	62.87	1.51	ppb
Beryllium	9-1	0.49	0.48	0.50	0.49	2.12	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	2.02	2.10	2.26	2.13	5.59	ppb
Cadmium	106-1	2.37	2.50	3.94	2.94	29.85	ppb
Cadmium	111-1	1.60	1.67	1.74	1.67	4.25	ppb
Calcium	43-1	19016.33	18682.07	18157.29	18618.56	2.33	ppb
Calcium	44-1	18231.21	18375.56	18565.86	18390.87	0.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42.59	41.99	44.26	42.95	2.74	ppb
Cobalt	59-2	12.27	12.41	12.52	12.40	1.01	ppb
Copper	63-2	3265.82	3279.39	3324.76	3289.99	0.94	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				100		%
Holmium	165-2				98		%
Indium	115-1				103		%
Indium	115-2				99		%
Iron	54-2	27072.59	27455.08	28589.87	27705.85	2.85	ppb
Iron	56-2	27221.43	27469.07	28029.61	27573.37	1.50	ppb
Iron	57-2	27185.86	27933.04	28495.39	27871.43	2.36	ppb
Krypton	83-1						cps
Lead	206-1	530.35	524.33	510.45	521.71	1.96	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	530.29	514.51	512.13	518.98	1.90	ppb
Lead	208-1	522.22	514.97	514.07	517.09	0.86	ppb
Lithium	6-1				83		%
Magnesium	24-2	6767.47	6975.38	7122.43	6955.09	2.56	ppb
Manganese	55-2	190.52	192.44	197.60	193.52	1.89	ppb
Molybdenum	94-1	14.37	14.00	14.07	14.15	1.40	ppb
Molybdenum	95-1	6.92	6.68	6.94	6.85	2.11	ppb
Molybdenum	96-1	7.74	7.57	7.73	7.68	1.25	ppb
Molybdenum	97-1	6.95	6.77	6.95	6.89	1.49	ppb
Molybdenum	98-1	6.92	6.61	6.77	6.76	2.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	39.00	38.41	39.40	38.93	1.28	ppb
Phosphorus	31-2	991.80	1042.55	1109.45	1047.93	5.63	ppb
Potassium	39-2	2030.37	2054.30	2075.01	2053.23	1.09	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	1.36	1.15	1.51	1.34	13.48	ppb
Selenium	77-2	16.42	13.23	14.07	14.57	11.37	ppb
Selenium	78-2	3.80	3.48	4.74	4.01	16.29	ppb
Silicon	28-1	36.34	34.27	34.27	34.96	3.42	ppb
Silver	107-1	8.38	8.32	8.68	8.46	2.29	ppb
Silver	109-1	8.38	8.27	8.65	8.43	2.29	ppb
Sodium	23-2	13488.91	13512.68	13931.29	13644.30	1.82	ppb
Strontium	86-1	4349.38	4266.76	4343.74	4319.96	1.07	ppb
Strontium	88-1	4520.44	4415.91	4433.83	4456.73	1.25	ppb
Sulfur	34-1	13713.17	13248.97	13491.88	13484.67	1.72	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.40	0.38	0.38	0.39	3.28	ppb
Thallium	205-1	0.40	0.38	0.39	0.39	2.25	ppb
Tin	118-1	28.11	27.88	28.70	28.23	1.50	ppb
Titanium	47-1	583.67	568.95	583.94	578.85	1.48	ppb
Uranium	238-1	1.80	1.75	1.78	1.77	1.53	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	46.21	46.88	47.72	46.93	1.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	493.56	493.36	507.09	498.00	1.58	ppb
Zirconium	90-1	4.73	4.51	4.63	4.63	2.34	ppb
Zirconium	91-1	4.77	4.57	4.73	4.69	2.24	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11821.18	11620.39	11510.26	11650.61	1.35	ppb
Antimony	121-1	2.67	2.72	2.76	2.72	1.61	ppb
Arsenic	75-2	14.70	16.01	15.65	15.45	4.40	ppb
Barium	135-1	57.93	60.15	61.13	59.73	2.74	ppb
Barium	137-1	59.13	60.72	62.05	60.64	2.41	ppb
Beryllium	9-1	0.36	0.39	0.39	0.38	4.12	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.35	1.33	1.04	1.24	14.14	ppb
Cadmium	106-1	1.57	2.38	3.58	2.51	40.41	ppb
Cadmium	111-1	0.38	0.45	0.57	0.47	20.67	ppb
Calcium	43-1	37039.69	37658.81	38148.43	37615.64	1.48	ppb
Calcium	44-1	36755.47	37443.45	37281.25	37160.06	0.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.23	31.58	32.12	31.98	1.10	ppb
Cobalt	59-2	11.95	11.83	11.86	11.88	0.53	ppb
Copper	63-2	204.77	203.84	203.40	204.01	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				100		%
Holmium	165-2				98		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	54-2	23534.56	23239.92	23347.06	23373.85	0.64	ppb
Iron	56-2	23202.23	23107.07	23212.08	23173.79	0.25	ppb
Iron	57-2	23335.30	23717.34	23121.51	23391.38	1.29	ppb
Krypton	83-1						cps
Lead	206-1	27.10	27.16	27.50	27.25	0.78	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	27.12	27.18	27.16	27.15	0.11	ppb
Lead	208-1	26.71	26.85	27.08	26.88	0.70	ppb
Lithium	6-1				83		%
Magnesium	24-2	9627.95	9635.74	9426.79	9563.49	1.24	ppb
Manganese	55-2	745.07	732.38	736.70	738.05	0.87	ppb
Molybdenum	94-1	11.72	12.17	12.12	12.00	2.04	ppb
Molybdenum	95-1	0.96	0.98	0.92	0.95	3.34	ppb
Molybdenum	96-1	2.12	2.15	2.17	2.14	1.05	ppb
Molybdenum	97-1	0.93	0.98	0.95	0.95	3.08	ppb
Molybdenum	98-1	0.93	0.97	0.91	0.94	2.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	40.28	40.48	40.25	40.34	0.30	ppb
Phosphorus	31-2	922.43	879.39	939.77	913.86	3.40	ppb
Potassium	39-2	2214.64	2225.62	2206.13	2215.47	0.44	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				110		%
Scandium	45-2				106		%
Selenium	82-1	-0.44	-0.29	-0.22	-0.32		ppb
Selenium	77-2	13.43	15.05	15.31	14.60	6.97	ppb
Selenium	78-2	3.71	3.71	2.98	3.47	12.19	ppb
Silicon	28-1	30.38	32.73	31.73	31.61	3.73	ppb
Silver	107-1	0.43	0.45	0.42	0.43	3.00	ppb
Silver	109-1	0.42	0.41	0.42	0.42	1.04	ppb
Sodium	23-2	8763.47	8847.88	8866.20	8825.85	0.62	ppb
Strontium	86-1	8272.26	8399.33	8445.17	8372.25	1.07	ppb
Strontium	88-1	8106.22	8252.28	8173.18	8177.23	0.89	ppb
Sulfur	34-1	1675.13	1896.58	1919.51	1830.40	7.37	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.18	0.17	0.18	0.18	2.19	ppb
Thallium	205-1	0.17	0.18	0.18	0.18	1.84	ppb
Tin	118-1	2.65	2.71	3.15	2.84	9.70	ppb
Titanium	47-1	595.47	608.52	596.16	600.05	1.22	ppb
Uranium	238-1	0.72	0.73	0.73	0.73	0.52	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	47.66	48.05	47.11	47.61	0.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				105		%
Zinc	66-2	81.07	80.14	80.68	80.63	0.58	ppb
Zirconium	90-1	6.14	6.18	6.19	6.17	0.41	ppb
Zirconium	91-1	5.97	6.11	6.15	6.08	1.57	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7868.92	7077.64	7739.17	7561.91	5.61	ppb
Antimony	121-1	25.00	25.56	26.14	25.57	2.23	ppb
Arsenic	75-2	128.58	119.13	127.31	125.00	4.10	ppb
Barium	135-1	51.45	51.81	53.34	52.20	1.92	ppb
Barium	137-1	51.19	52.86	53.95	52.67	2.64	ppb
Beryllium	9-1	0.46	0.47	0.48	0.47	2.00	ppb
Bismuth	209-1				94		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	1.51	1.70	1.67	1.63	6.42	ppb
Cadmium	106-1	2.35	2.54	1.29	2.06	32.57	ppb
Cadmium	111-1	1.07	1.09	0.91	1.02	9.29	ppb
Calcium	43-1	7970.21	8082.07	8591.69	8214.66	4.03	ppb
Calcium	44-1	8067.11	8214.19	8511.30	8264.20	2.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.55	27.36	28.85	28.59	3.90	ppb
Cobalt	59-2	14.72	13.48	14.43	14.21	4.55	ppb
Copper	63-2	2218.41	2042.89	2184.66	2148.65	4.33	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				96		%
Holmium	165-2				87		%
Indium	115-1				100		%
Indium	115-2				87		%
Iron	54-2	20023.97	18662.83	20071.21	19586.01	4.08	ppb
Iron	56-2	19879.54	18054.04	19391.95	19108.51	4.95	ppb
Iron	57-2	20645.47	18510.20	19530.73	19562.13	5.46	ppb
Krypton	83-1						cps
Lead	206-1	173.42	176.71	180.67	176.93	2.05	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	168.12	176.35	184.26	176.24	4.58	ppb
Lead	208-1	168.16	174.39	181.31	174.62	3.77	ppb
Lithium	6-1				79		%
Magnesium	24-2	5884.91	5276.11	5691.77	5617.59	5.54	ppb
Manganese	55-2	151.59	140.18	150.01	147.26	4.20	ppb
Molybdenum	94-1	12.73	12.42	12.78	12.64	1.55	ppb
Molybdenum	95-1	4.92	4.92	5.22	5.02	3.44	ppb
Molybdenum	96-1	5.77	5.72	5.93	5.80	1.96	ppb
Molybdenum	97-1	5.03	5.03	5.26	5.10	2.56	ppb
Molybdenum	98-1	4.89	4.89	5.17	4.98	3.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.32	22.06	23.82	23.40	5.07	ppb
Phosphorus	31-2	1033.20	955.17	1028.17	1005.52	4.34	ppb
Potassium	39-2	1656.14	1526.19	1636.39	1606.24	4.36	ppb
Rhodium	103-1				98		%
Rhodium	103-2				90		%
Scandium	45-1				105		%
Scandium	45-2				93		%
Selenium	82-1	0.37	0.54	0.60	0.51	23.27	ppb
Selenium	77-2	22.12	18.13	19.12	19.79	10.49	ppb
Selenium	78-2	5.08	4.46	5.29	4.94	8.76	ppb
Silicon	28-1	62.22	47.32	47.57	52.37	16.29	ppb
Silver	107-1	3.63	3.76	3.80	3.73	2.38	ppb
Silver	109-1	3.55	3.69	3.83	3.69	3.85	ppb
Sodium	23-2	11592.59	10281.06	10996.44	10956.69	5.99	ppb
Strontium	86-1	1215.20	1228.47	1268.42	1237.36	2.24	ppb
Strontium	88-1	1248.29	1285.28	1329.78	1287.78	3.17	ppb
Sulfur	34-1	6930.93	6813.58	7830.07	7191.53	7.73	ppb
Terbium	159-1				97		%
Terbium	159-2				87		%
Thallium	203-1	0.45	0.47	0.48	0.47	3.44	ppb
Thallium	205-1	0.45	0.46	0.50	0.47	5.65	ppb
Tin	118-1	11.50	11.72	12.10	11.77	2.58	ppb
Titanium	47-1	526.54	548.46	565.84	546.95	3.60	ppb
Uranium	238-1	2.31	2.38	2.44	2.38	2.75	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	32.97	30.42	32.52	31.97	4.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				94		%
Zinc	66-2	443.25	404.13	436.07	427.82	4.87	ppb
Zirconium	90-1	4.48	4.48	4.59	4.52	1.42	ppb
Zirconium	91-1	4.50	4.51	4.78	4.60	3.49	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18644.31	18028.01	17806.49	18159.60	2.39	ppb
Antimony	121-1	7.02	6.93	6.90	6.95	0.89	ppb
Arsenic	75-2	28.43	27.54	27.83	27.93	1.63	ppb
Barium	135-1	324.31	321.86	316.44	320.87	1.26	ppb
Barium	137-1	326.31	319.51	312.55	319.46	2.15	ppb
Beryllium	9-1	1.84	1.91	1.80	1.85	2.97	ppb
Bismuth	209-1				96		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	4.81	4.60	4.72	4.71	2.23	ppb
Cadmium	106-1	5.17	4.92	5.47	5.19	5.27	ppb
Cadmium	111-1	4.28	4.25	4.31	4.28	0.74	ppb
Calcium	43-1	72156.71	71149.22	71562.94	71622.95	0.71	ppb
Calcium	44-1	71930.85	70381.00	70271.23	70861.02	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	539.75	520.39	521.89	527.34	2.04	ppb
Cobalt	59-2	21.72	21.08	21.01	21.27	1.86	ppb
Copper	63-2	421.62	410.75	404.55	412.31	2.10	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				99		%
Holmium	165-2				95		%
Indium	115-1				102		%
Indium	115-2				93		%
Iron	54-2	121762.03	115341.89	118394.77	118499.56	2.71	ppb
Iron	56-2	119402.55	117179.56	114355.60	116979.24	2.16	ppb
Iron	57-2	121015.04	114382.70	116327.08	117241.61	2.91	ppb
Krypton	83-1						cps
Lead	206-1	452.74	460.09	451.83	454.89	1.00	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	430.36	431.98	432.88	431.74	0.30	ppb
Lead	208-1	439.68	438.73	435.64	438.02	0.48	ppb
Lithium	6-1				83		%
Magnesium	24-2	17914.56	17249.88	17102.67	17422.37	2.48	ppb
Manganese	55-2	3490.00	3430.54	3364.38	3428.31	1.83	ppb
Molybdenum	94-1	41.54	40.65	40.48	40.89	1.40	ppb
Molybdenum	95-1	43.77	43.71	43.33	43.60	0.55	ppb
Molybdenum	96-1	43.31	43.84	43.52	43.56	0.61	ppb
Molybdenum	97-1	45.09	45.32	44.82	45.08	0.55	ppb
Molybdenum	98-1	43.79	43.95	43.51	43.75	0.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	183.01	175.65	176.68	178.44	2.23	ppb
Phosphorus	31-2	1936.71	1872.82	1822.66	1877.40	3.04	ppb
Potassium	39-2	4657.38	4460.85	4407.21	4508.48	2.92	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	1.05	0.75	0.44	0.75	40.91	ppb
Selenium	77-2	38.30	38.82	50.36	42.49	16.04	ppb
Selenium	78-2	9.57	7.14	7.00	7.90	18.30	ppb
Silicon	28-1	195.73	194.78	195.90	195.47	0.31	ppb
Silver	107-1	1.31	1.30	1.30	1.30	0.38	ppb
Silver	109-1	1.30	1.32	1.32	1.31	0.68	ppb
Sodium	23-2	616.43	595.28	601.13	604.28	1.81	ppb
Strontium	86-1	4265.57	4349.93	4292.91	4302.80	1.00	ppb
Strontium	88-1	4436.62	4498.54	4412.18	4449.12	1.00	ppb
Sulfur	34-1	1685.78	1551.64	1609.12	1615.51	4.17	ppb
Terbium	159-1				101		%
Terbium	159-2				95		%
Thallium	203-1	0.56	0.57	0.59	0.57	2.62	ppb
Thallium	205-1	0.56	0.58	0.57	0.57	2.21	ppb
Tin	118-1	24.97	24.65	24.73	24.78	0.67	ppb
Titanium	47-1	351.98	344.51	335.19	343.90	2.45	ppb
Uranium	238-1	2.14	2.16	2.16	2.15	0.51	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	80.69	76.97	77.14	78.27	2.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				104		%
Zinc	66-2	1772.68	1710.97	1706.04	1729.89	2.15	ppb
Zirconium	90-1	2.56	2.56	2.46	2.53	2.24	ppb
Zirconium	91-1	2.40	2.43	2.48	2.44	1.70	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15568.24	16157.86	15897.45	15874.52	1.86	ppb
Antimony	121-1	8.70	6.92	6.83	7.48	14.07	ppb
Arsenic	75-2	24.33	24.31	23.77	24.13	1.32	ppb
Barium	135-1	386.29	292.36	298.08	325.58	16.17	ppb
Barium	137-1	397.03	305.16	308.13	336.78	15.50	ppb
Beryllium	9-1	1.97	1.68	1.65	1.77	9.97	ppb
Bismuth	209-1				86		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	6.10	4.39	4.36	4.95	20.09	ppb
Cadmium	106-1	6.80	4.93	6.17	5.96	15.93	ppb
Cadmium	111-1	5.17	4.19	4.21	4.52	12.45	ppb
Calcium	43-1	95288.85	78913.41	75960.83	83387.70	12.49	ppb
Calcium	44-1	95422.28	78059.62	75709.31	83063.74	12.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	373.29	375.33	373.21	373.95	0.32	ppb
Cobalt	59-2	19.82	19.88	19.44	19.71	1.22	ppb
Copper	63-2	313.91	320.52	313.55	315.99	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				91		%
Holmium	165-2				96		%
Indium	115-1				91		%
Indium	115-2				94		%
Iron	54-2	105009.98	105859.10	104535.33	105134.80	0.64	ppb
Iron	56-2	103777.13	106540.01	103161.01	104492.72	1.72	ppb
Iron	57-2	104578.66	104594.98	103262.71	104145.45	0.73	ppb
Krypton	83-1						cps
Lead	206-1	582.53	480.84	460.53	507.97	12.87	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	562.88	471.43	448.76	494.36	12.22	ppb
Lead	208-1	567.27	466.96	453.32	495.85	12.55	ppb
Lithium	6-1				75		%
Magnesium	24-2	15481.58	15976.69	15992.74	15817.00	1.84	ppb
Manganese	55-2	3329.38	3380.36	3307.00	3338.92	1.13	ppb
Molybdenum	94-1	43.62	37.27	35.72	38.87	10.77	ppb
Molybdenum	95-1	46.70	40.50	38.46	41.89	10.24	ppb
Molybdenum	96-1	45.93	39.57	38.64	41.38	9.60	ppb
Molybdenum	97-1	46.89	40.65	38.72	42.09	10.14	ppb
Molybdenum	98-1	46.63	39.50	38.10	41.41	11.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	161.26	162.83	161.48	161.86	0.52	ppb
Phosphorus	31-2	1619.01	1648.24	1628.50	1631.92	0.91	ppb
Potassium	39-2	4071.85	4084.97	4009.04	4055.29	1.00	ppb
Rhodium	103-1				89		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				103		%
Selenium	82-1	0.91	0.72	0.48	0.71	30.26	ppb
Selenium	77-2	37.21	35.19	40.38	37.59	6.95	ppb
Selenium	78-2	6.49	6.41	8.90	7.26	19.49	ppb
Silicon	28-1	255.60	212.38	199.31	222.43	13.24	ppb
Silver	107-1	1.47	1.19	1.20	1.28	12.41	ppb
Silver	109-1	1.51	1.20	1.21	1.31	13.45	ppb
Sodium	23-2	588.82	611.70	591.48	597.33	2.09	ppb
Strontium	86-1	5036.13	4256.97	4114.34	4469.15	11.10	ppb
Strontium	88-1	5205.63	4289.54	4216.05	4570.41	12.06	ppb
Sulfur	34-1	3649.57	1798.57	1462.67	2303.60	51.12	ppb
Terbium	159-1				91		%
Terbium	159-2				95		%
Thallium	203-1	0.65	0.52	0.54	0.57	12.53	ppb
Thallium	205-1	0.66	0.53	0.53	0.57	12.76	ppb
Tin	118-1	24.26	19.30	19.51	21.02	13.35	ppb
Titanium	47-1	416.47	343.48	333.62	364.52	12.42	ppb
Uranium	238-1	2.48	1.98	1.96	2.14	13.92	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	69.12	70.54	69.44	69.70	1.07	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				105		%
Zinc	66-2	1514.84	1541.68	1512.42	1522.98	1.07	ppb
Zirconium	90-1	2.81	2.44	2.31	2.52	10.20	ppb
Zirconium	91-1	2.84	2.37	2.29	2.50	12.01	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13827.45	14153.34	14004.20	13994.99	1.17	ppb
Antimony	121-1	0.57	0.56	0.54	0.56	3.01	ppb
Arsenic	75-2	13.60	13.42	12.82	13.28	3.08	ppb
Barium	135-1	178.94	183.81	179.55	180.77	1.47	ppb
Barium	137-1	193.12	189.47	189.00	190.53	1.18	ppb
Beryllium	9-1	1.14	1.17	1.11	1.14	2.88	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.00	1.13	1.07	1.07	6.01	ppb
Cadmium	106-1	1.85	3.32	2.62	2.60	28.30	ppb
Cadmium	111-1	0.77	0.89	0.83	0.83	6.96	ppb
Calcium	43-1	127226.55	124846.36	130259.69	127444.20	2.13	ppb
Calcium	44-1	125748.83	127896.16	128902.13	127515.71	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.46	29.43	29.95	29.62	0.99	ppb
Cobalt	59-2	16.62	16.62	16.79	16.68	0.58	ppb
Copper	63-2	35.01	35.45	34.72	35.06	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				101		%
Holmium	165-2				97		%
Indium	115-1				102		%
Indium	115-2				95		%
Iron	54-2	35050.89	35501.57	34456.38	35002.95	1.50	ppb
Iron	56-2	34887.10	34019.60	34729.25	34545.32	1.34	ppb
Iron	57-2	35097.73	35333.84	34529.37	34986.98	1.18	ppb
Krypton	83-1						cps
Lead	206-1	26.65	26.48	27.22	26.79	1.45	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.49	25.29	25.26	25.35	0.49	ppb
Lead	208-1	25.56	25.57	25.66	25.60	0.21	ppb
Lithium	6-1				82		%
Magnesium	24-2	40010.41	41024.31	39751.46	40262.06	1.67	ppb
Manganese	55-2	852.55	826.77	848.27	842.53	1.64	ppb
Molybdenum	94-1	7.77	7.78	7.80	7.79	0.21	ppb
Molybdenum	95-1	4.47	4.48	4.44	4.46	0.49	ppb
Molybdenum	96-1	4.88	4.90	4.85	4.88	0.58	ppb
Molybdenum	97-1	4.47	4.59	4.51	4.52	1.39	ppb
Molybdenum	98-1	4.46	4.43	4.39	4.43	0.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	45.96	45.19	46.31	45.82	1.24	ppb
Phosphorus	31-2	783.63	739.33	730.34	751.10	3.80	ppb
Potassium	39-2	1886.54	1906.15	1905.19	1899.29	0.58	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	0.05	0.20	-0.35	-0.03		ppb
Selenium	77-2	32.83	37.40	35.15	35.13	6.49	ppb
Selenium	78-2	7.17	6.12	6.01	6.44	9.90	ppb
Silicon	28-1	80.69	75.84	76.83	77.79	3.30	ppb
Silver	107-1	0.10	0.09	0.10	0.10	4.06	ppb
Silver	109-1	0.10	0.09	0.10	0.10	3.43	ppb
Sodium	23-2	370.60	364.48	365.87	366.98	0.88	ppb
Strontium	86-1	7533.50	7472.95	7585.39	7530.61	0.75	ppb
Strontium	88-1	7538.99	7362.90	7435.30	7445.73	1.19	ppb
Sulfur	34-1	762.38	747.18	982.80	830.79	15.87	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.33	0.32	0.33	0.32	1.69	ppb
Thallium	205-1	0.32	0.31	0.33	0.32	1.94	ppb
Tin	118-1	1.13	1.17	1.11	1.13	2.70	ppb
Titanium	47-1	139.20	135.32	139.61	138.04	1.71	ppb
Uranium	238-1	1.62	1.62	1.62	1.62	0.24	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	37.21	37.32	37.02	37.18	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				105		%
Zinc	66-2	160.37	158.90	157.32	158.86	0.96	ppb
Zirconium	90-1	2.24	2.26	2.26	2.26	0.46	ppb
Zirconium	91-1	2.24	2.26	2.21	2.24	1.23	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22505.47	22548.31	22322.62	22458.80	0.53	ppb
Antimony	121-1	0.41	0.41	0.40	0.41	1.90	ppb
Arsenic	75-2	6.05	6.11	5.95	6.04	1.28	ppb
Barium	135-1	217.20	217.16	212.72	215.69	1.19	ppb
Barium	137-1	226.23	219.24	226.08	223.85	1.79	ppb
Beryllium	9-1	4.01	4.23	4.03	4.09	3.00	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	5.70	5.39	4.76	5.28	9.08	ppb
Cadmium	106-1	11.97	11.21	10.35	11.18	7.27	ppb
Cadmium	111-1	0.91	0.89	0.85	0.88	3.18	ppb
Calcium	43-1	285059.51	280604.18	279362.60	281675.43	1.06	ppb
Calcium	44-1	286287.13	288493.63	279936.61	284905.79	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.65	27.72	27.74	27.70	0.17	ppb
Cobalt	59-2	4.57	4.48	4.52	4.53	0.98	ppb
Copper	63-2	18.96	19.01	18.94	18.97	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	15269.16	14972.05	14690.65	14977.29	1.93	ppb
Iron	56-2	14829.63	14918.97	14921.13	14889.91	0.35	ppb
Iron	57-2	15106.77	15192.56	14950.91	15083.41	0.81	ppb
Krypton	83-1						cps
Lead	206-1	40.54	41.58	40.97	41.03	1.27	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	38.49	39.28	39.19	38.99	1.10	ppb
Lead	208-1	38.87	39.89	39.49	39.42	1.30	ppb
Lithium	6-1				81		%
Magnesium	24-2	35258.94	35363.59	35539.69	35387.41	0.40	ppb
Manganese	55-2	1973.52	1920.41	1937.36	1943.76	1.40	ppb
Molybdenum	94-1	60.73	62.11	60.43	61.09	1.46	ppb
Molybdenum	95-1	1.98	2.01	1.97	1.99	1.02	ppb
Molybdenum	96-1	8.23	8.38	8.07	8.23	1.92	ppb
Molybdenum	97-1	1.96	2.06	1.98	2.00	2.77	ppb
Molybdenum	98-1	1.98	1.97	1.92	1.96	1.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.45	13.63	13.85	13.65	1.46	ppb
Phosphorus	31-2	306.11	288.19	303.86	299.39	3.26	ppb
Potassium	39-2	1599.56	1592.24	1593.80	1595.20	0.24	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				110		%
Scandium	45-2				104		%
Selenium	82-1	2.00	2.53	2.35	2.30	11.89	ppb
Selenium	77-2	29.62	29.28	32.06	30.32	5.00	ppb
Selenium	78-2	10.35	9.15	9.20	9.57	7.14	ppb
Silicon	28-1	1314.97	1327.50	1279.71	1307.39	1.90	ppb
Silver	107-1	0.10	0.11	0.11	0.11	5.36	ppb
Silver	109-1	0.06	0.06	0.06	0.06	1.04	ppb
Sodium	23-2	976.86	979.25	980.03	978.71	0.17	ppb
Strontium	86-1	12400.99	12539.98	12347.49	12429.48	0.80	ppb
Strontium	88-1	12600.07	12756.84	12373.65	12576.85	1.53	ppb
Sulfur	34-1	4388.85	4201.69	4198.41	4262.98	2.56	ppb
Terbium	159-1				101		%
Terbium	159-2				95		%
Thallium	203-1	0.09	0.09	0.09	0.09	1.99	ppb
Thallium	205-1	0.09	0.10	0.09	0.09	1.96	ppb
Tin	118-1	2.54	2.58	2.47	2.53	2.09	ppb
Titanium	47-1	460.84	469.03	452.09	460.65	1.84	ppb
Uranium	238-1	3.21	3.32	3.29	3.27	1.71	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.04	18.89	19.18	19.04	0.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				108		%
Zinc	66-2	63.18	62.29	62.54	62.67	0.74	ppb
Zirconium	90-1	33.34	35.05	33.90	34.10	2.56	ppb
Zirconium	91-1	32.37	33.29	31.81	32.49	2.30	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12555.39	12771.38	12712.25	12679.67	0.88	ppb
Antimony	121-1	1.18	1.23	1.23	1.21	2.70	ppb
Arsenic	75-2	14.28	14.13	13.75	14.05	1.94	ppb
Barium	135-1	136.88	137.61	140.73	138.40	1.48	ppb
Barium	137-1	139.22	142.24	142.98	141.48	1.41	ppb
Beryllium	9-1	1.25	1.23	1.26	1.25	1.44	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	19.70	20.64	20.07	20.14	2.33	ppb
Cadmium	106-1	23.12	23.01	23.14	23.09	0.30	ppb
Cadmium	111-1	23.10	23.66	23.62	23.46	1.33	ppb
Calcium	43-1	132216.27	131836.98	135258.11	133103.79	1.41	ppb
Calcium	44-1	131600.04	130139.40	134230.38	131989.94	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	64.31	63.34	64.07	63.91	0.79	ppb
Cobalt	59-2	16.97	16.79	16.83	16.86	0.56	ppb
Copper	63-2	71.60	72.32	71.91	71.94	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				100		%
Holmium	165-2				99		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	57192.96	56890.50	56694.33	56925.93	0.44	ppb
Iron	56-2	57805.87	57707.57	56562.52	57358.66	1.21	ppb
Iron	57-2	57422.88	56796.03	56650.77	56956.56	0.72	ppb
Krypton	83-1						cps
Lead	206-1	34.64	35.28	35.39	35.10	1.16	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	32.74	33.73	33.72	33.40	1.70	ppb
Lead	208-1	33.35	34.14	34.04	33.84	1.27	ppb
Lithium	6-1				81		%
Magnesium	24-2	24983.60	24628.26	25288.79	24966.88	1.32	ppb
Manganese	55-2	1040.48	1040.80	1028.84	1036.71	0.66	ppb
Molybdenum	94-1	18.59	19.33	19.68	19.20	2.91	ppb
Molybdenum	95-1	10.08	10.50	10.49	10.36	2.29	ppb
Molybdenum	96-1	11.29	11.53	11.44	11.42	1.07	ppb
Molybdenum	97-1	10.55	10.77	10.67	10.66	1.03	ppb
Molybdenum	98-1	10.14	10.42	10.44	10.33	1.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	50.16	50.37	49.68	50.07	0.70	ppb
Phosphorus	31-2	662.16	656.37	683.68	667.41	2.16	ppb
Potassium	39-2	2226.64	2252.07	2246.26	2241.66	0.59	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	0.29	-0.03	-0.02	0.08	234.03	ppb
Selenium	77-2	32.29	26.09	24.11	27.50	15.52	ppb
Selenium	78-2	5.39	6.72	5.15	5.75	14.74	ppb
Silicon	28-1	512.32	529.86	525.42	522.53	1.74	ppb
Silver	107-1	12.34	12.44	12.50	12.43	0.65	ppb
Silver	109-1	12.33	12.60	12.78	12.57	1.81	ppb
Sodium	23-2	801.24	801.12	799.49	800.62	0.12	ppb
Strontium	86-1	5917.67	5993.70	6068.54	5993.30	1.26	ppb
Strontium	88-1	5982.06	6004.24	5931.01	5972.44	0.63	ppb
Sulfur	34-1	1429.85	1359.41	1632.50	1473.92	9.62	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.28	0.28	0.28	0.28	1.31	ppb
Thallium	205-1	0.27	0.29	0.29	0.28	4.73	ppb
Tin	118-1	8.59	8.59	8.91	8.70	2.11	ppb
Titanium	47-1	223.10	220.69	226.82	223.54	1.38	ppb
Uranium	238-1	1.73	1.75	1.77	1.75	1.11	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	30.90	30.88	31.08	30.96	0.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				106		%
Zinc	66-2	107.46	108.04	107.54	107.68	0.29	ppb
Zirconium	90-1	5.50	5.79	5.77	5.69	2.83	ppb
Zirconium	91-1	5.59	5.64	5.59	5.61	0.51	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13833.44	13722.96	14358.04	13971.48	2.43	ppb
Antimony	121-1	1.12	1.18	1.17	1.16	2.83	ppb
Arsenic	75-2	16.65	16.52	16.43	16.53	0.68	ppb
Barium	135-1	152.99	161.06	160.68	158.24	2.88	ppb
Barium	137-1	155.71	164.69	162.02	160.81	2.87	ppb
Beryllium	9-1	1.23	1.27	1.28	1.26	2.09	ppb
Bismuth	209-1				87		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	1.53	1.86	1.51	1.63	11.91	ppb
Cadmium	106-1	3.55	3.34	2.87	3.25	10.74	ppb
Cadmium	111-1	0.94	0.94	0.85	0.91	5.30	ppb
Calcium	43-1	181150.24	191713.62	185895.77	186253.21	2.84	ppb
Calcium	44-1	180987.17	191725.09	186620.63	186444.30	2.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	55.36	56.01	55.25	55.54	0.74	ppb
Cobalt	59-2	16.22	16.26	16.34	16.27	0.37	ppb
Copper	63-2	64.68	65.76	63.82	64.75	1.51	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				93		%
Holmium	165-2				92		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	44842.47	45213.82	45461.04	45172.44	0.69	ppb
Iron	56-2	44803.27	43538.65	44365.90	44235.94	1.45	ppb
Iron	57-2	45281.78	45791.50	44187.45	45086.91	1.82	ppb
Krypton	83-1						cps
Lead	206-1	100.02	103.52	101.32	101.62	1.74	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	94.01	97.08	94.71	95.27	1.69	ppb
Lead	208-1	98.04	102.41	99.12	99.86	2.28	ppb
Lithium	6-1				75		%
Magnesium	24-2	43770.67	43530.19	43655.98	43652.28	0.28	ppb
Manganese	55-2	1037.83	1050.58	1069.66	1052.69	1.52	ppb
Molybdenum	94-1	15.82	16.55	15.96	16.11	2.39	ppb
Molybdenum	95-1	6.62	6.92	6.64	6.73	2.47	ppb
Molybdenum	96-1	7.73	7.95	7.72	7.80	1.68	ppb
Molybdenum	97-1	6.64	6.86	6.70	6.73	1.68	ppb
Molybdenum	98-1	6.53	6.76	6.59	6.63	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.58	50.94	50.16	50.90	1.40	ppb
Phosphorus	31-2	861.40	851.05	828.73	847.06	1.97	ppb
Potassium	39-2	2237.33	2226.09	2216.83	2226.75	0.46	ppb
Rhodium	103-1				91		%
Rhodium	103-2				92		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.06	-0.02	-0.07	-0.01		ppb
Selenium	77-2	40.95	35.42	39.57	38.65	7.45	ppb
Selenium	78-2	5.85	5.00	5.93	5.59	9.22	ppb
Silicon	28-1	370.95	384.29	374.26	376.50	1.84	ppb
Silver	107-1	0.19	0.15	0.16	0.16	13.32	ppb
Silver	109-1	0.19	0.15	0.14	0.16	13.94	ppb
Sodium	23-2	942.63	962.75	932.80	946.06	1.61	ppb
Strontium	86-1	19220.56	20441.45	19946.17	19869.39	3.09	ppb
Strontium	88-1	19217.93	19917.90	19479.02	19538.29	1.81	ppb
Sulfur	34-1	3218.83	3863.68	3397.92	3493.48	9.53	ppb
Terbium	159-1				94		%
Terbium	159-2				92		%
Thallium	203-1	0.42	0.42	0.41	0.41	1.77	ppb
Thallium	205-1	0.40	0.42	0.40	0.41	3.18	ppb
Tin	118-1	5.02	5.37	5.31	5.23	3.57	ppb
Titanium	47-1	275.83	291.32	284.93	284.03	2.74	ppb
Uranium	238-1	1.96	2.03	1.97	1.99	1.93	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.10	45.43	44.77	45.10	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				101		%
Zinc	66-2	140.55	143.75	140.51	141.60	1.31	ppb
Zirconium	90-1	5.74	5.89	5.72	5.78	1.67	ppb
Zirconium	91-1	5.54	5.96	5.68	5.73	3.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50066.32	48629.24	48703.05	49132.87	1.65	ppb
Antimony	121-1	517.33	501.10	489.87	502.77	2.75	ppb
Arsenic	75-2	510.60	506.34	497.87	504.94	1.28	ppb
Barium	135-1	2620.12	2473.55	2520.98	2538.22	2.95	ppb
Barium	137-1	2606.08	2488.58	2500.61	2531.76	2.55	ppb
Beryllium	9-1	537.96	526.34	513.60	525.97	2.32	ppb
Bismuth	209-1				88		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	522.84	493.36	487.28	501.16	3.79	ppb
Cadmium	106-1	533.57	510.10	495.48	513.05	3.74	ppb
Cadmium	111-1	509.18	497.73	479.85	495.59	2.98	ppb
Calcium	43-1	242328.88	244098.56	233384.38	239937.27	2.39	ppb
Calcium	44-1	246149.47	244424.73	236425.06	242333.09	2.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.59	496.64	509.12	506.12	1.66	ppb
Cobalt	59-2	499.90	491.51	492.91	494.77	0.91	ppb
Copper	63-2	4825.70	4732.74	4702.86	4753.77	1.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				94		%
Indium	115-1				95		%
Indium	115-2				89		%
Iron	54-2	124609.49	125710.59	124319.42	124879.83	0.59	ppb
Iron	56-2	127171.67	122309.47	123706.27	124395.80	2.01	ppb
Iron	57-2	125967.83	122734.76	123636.84	124113.15	1.34	ppb
Krypton	83-1						cps
Lead	206-1	2581.88	2536.18	2497.15	2538.40	1.67	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2580.01	2474.89	2506.59	2520.50	2.14	ppb
Lead	208-1	2572.71	2485.89	2502.19	2520.26	1.83	ppb
Lithium	6-1				80		%
Magnesium	24-2	258625.31	249550.61	250857.69	253011.20	1.94	ppb
Manganese	55-2	5036.67	4955.65	4982.57	4991.63	0.83	ppb
Molybdenum	94-1	5028.10	4951.67	4822.34	4934.04	2.11	ppb
Molybdenum	95-1	5011.51	4848.89	4830.99	4897.13	2.03	ppb
Molybdenum	96-1	4967.59	4840.94	4776.81	4861.78	2.00	ppb
Molybdenum	97-1	4945.18	4917.64	4792.69	4885.17	1.66	ppb
Molybdenum	98-1	5005.15	4880.96	4741.80	4875.97	2.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	497.07	489.01	489.63	491.91	0.91	ppb
Phosphorus	31-2	10532.89	10020.47	9998.79	10184.05	2.97	ppb
Potassium	39-2	127794.25	125336.05	125711.72	126280.67	1.05	ppb
Rhodium	103-1				88		%
Rhodium	103-2				86		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	488.24	473.90	461.39	474.51	2.83	ppb
Selenium	77-2	491.09	492.42	501.55	495.02	1.15	ppb
Selenium	78-2	500.92	502.46	495.79	499.72	0.70	ppb
Silicon	28-1	500.10	498.11	471.36	489.86	3.28	ppb
Silver	107-1	509.06	495.08	473.44	492.53	3.64	ppb
Silver	109-1	513.12	489.13	479.62	493.96	3.50	ppb
Sodium	23-2	262819.50	257898.27	254198.30	258305.36	1.67	ppb
Strontium	86-1	12739.38	12626.65	12180.00	12515.34	2.36	ppb
Strontium	88-1	12828.88	12402.50	12168.25	12466.54	2.69	ppb
Sulfur	34-1	10562.93	10281.72	9787.52	10210.72	3.84	ppb
Terbium	159-1				96		%
Terbium	159-2				93		%
Thallium	203-1	512.43	502.44	489.98	501.62	2.24	ppb
Thallium	205-1	513.54	502.69	495.13	503.79	1.84	ppb
Tin	118-1	517.47	511.71	496.45	508.54	2.14	ppb
Titanium	47-1	5001.05	4931.88	4813.59	4915.51	1.93	ppb
Uranium	238-1	522.31	499.57	501.82	507.90	2.47	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.34	508.60	499.53	506.49	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	4998.63	4896.29	4907.11	4934.01	1.14	ppb
Zirconium	90-1	500.55	501.58	489.74	497.29	1.32	ppb
Zirconium	91-1	515.01	500.15	486.31	500.49	2.87	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.24	1.40	0.78	1.14	28.00	ppb
Antimony	121-1	0.13	0.12	0.09	0.11	15.60	ppb
Arsenic	75-2	0.02	0.00	0.05	0.02	115.68	ppb
Barium	135-1	0.04	0.04	0.04	0.04	2.12	ppb
Barium	137-1	0.04	0.04	0.03	0.04	9.12	ppb
Beryllium	9-1	0.14	0.12	0.10	0.12	18.08	ppb
Bismuth	209-1				97		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.06	0.04	0.07	45.16	ppb
Cadmium	106-1	0.07	0.10	0.70	0.29	120.39	ppb
Cadmium	111-1	0.04	0.04	0.07	0.05	38.35	ppb
Calcium	43-1	6.88	5.80	4.44	5.71	21.43	ppb
Calcium	44-1	11.03	7.76	7.25	8.68	23.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.03	0.04	0.03	35.04	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	8.48	ppb
Copper	63-2	0.23	0.22	0.22	0.22	3.13	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	3.01	2.76	2.72	2.83	5.58	ppb
Iron	56-2	2.88	2.88	3.54	3.10	12.16	ppb
Iron	57-2	3.58	3.38	2.86	3.27	11.32	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.14	0.13	0.14	9.31	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.13	0.11	0.13	19.07	ppb
Lead	208-1	0.16	0.13	0.12	0.14	13.98	ppb
Lithium	6-1				86		%
Magnesium	24-2	2.53	0.47	2.09	1.70	64.01	ppb
Manganese	55-2	0.15	0.12	0.15	0.14	14.37	ppb
Molybdenum	94-1	0.26	0.19	0.17	0.21	22.84	ppb
Molybdenum	95-1	0.27	0.17	0.17	0.20	28.25	ppb
Molybdenum	96-1	0.30	0.19	0.17	0.22	31.54	ppb
Molybdenum	97-1	0.26	0.18	0.16	0.20	25.72	ppb
Molybdenum	98-1	0.27	0.20	0.14	0.20	31.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.08	0.07	0.07	19.46	ppb
Phosphorus	31-2	-21.09	-27.06	-26.23	-24.79		ppb
Potassium	39-2	30.21	27.57	26.33	28.04	7.07	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	-0.26	-0.06	-0.07	-0.13		ppb
Selenium	77-2	-0.19	-0.19	-0.19	-0.19		ppb
Selenium	78-2	0.26	0.60	0.26	0.37	51.65	ppb
Silicon	28-1	1.11	-0.07	0.04	0.36	182.43	ppb
Silver	107-1	0.10	0.07	0.07	0.08	20.96	ppb
Silver	109-1	0.10	0.07	0.07	0.08	20.76	ppb
Sodium	23-2	119.49	113.71	113.93	115.71	2.83	ppb
Strontium	86-1	0.96	0.63	0.37	0.65	45.28	ppb
Strontium	88-1	0.40	0.36	0.32	0.36	11.97	ppb
Sulfur	34-1	473.88	-428.48	-346.93	-100.51		ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	0.08	0.06	0.06	0.06	20.92	ppb
Thallium	205-1	0.07	0.06	0.06	0.06	15.03	ppb
Tin	118-1	0.07	0.01	0.03	0.04	84.05	ppb
Titanium	47-1	0.17	0.13	0.12	0.14	18.30	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	18.38	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	26.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				103		%
Zinc	66-2	0.40	0.51	0.41	0.44	13.30	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	31.07	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	21.25	ppb

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	107	93	111	18.33	cps
Antimony	121-1	53	57	30	47	31.14	cps
Arsenic	75-2	3	7	0	3	100.05	cps
Barium	135-1	107	100	90	99	8.48	cps
Barium	137-1	173	167	170	170	1.96	cps
Beryllium	9-1	164	179	177	173	4.53	cps
Bismuth	209-1	17100557	20600273	18311717	18670849	9.52	cps
Bismuth	209-2	7868214	7879272	7863424	7870304	0.10	cps
Bromine	81-1	11241	11228	11241	11237	0.07	cps
Cadmium	108-1	20	23	37	27	33.08	cps
Cadmium	106-1	11238	13116	11488	11948	8.54	cps
Cadmium	111-1	7873	9172	8029	8358	8.48	cps
Calcium	43-1	1083	913	917	971	10.01	cps
Calcium	44-1	24371	25242	25219	24944	1.99	cps
Carbon	12-1	4891081	4832686	4791141	4838303	1.04	cps
Carbon	12-2	32075	32021	31788	31961	0.48	cps
Chlorine	35-1	82074	81260	81726	81686	0.50	cps
Chlorine	35-2	290	310	313	304	4.14	cps
Chromium	52-2	1923	2154	1997	2025	5.80	cps
Cobalt	59-2	110	123	120	118	5.89	cps
Copper	63-2	3447	3554	3600	3534	2.22	cps
Dysprosium	156-1	7	10	7	8	24.71	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	107	120	117	114	6.06	cps
Erbium	164-2	43	20	27	30	40.05	cps
Gadolinium	160-1	150	197	197	181	14.88	cps
Gadolinium	160-2	30	47	37	38	22.21	cps
Holmium	165-1	28064885	33756292	31010142	30943773	9.20	cps
Holmium	165-2	10931406	10734517	11003833	10889919	1.28	cps
Indium	115-1	22982873	27909892	25276171	25389645	9.71	cps
Indium	115-2	2753216	2708434	2796191	2752614	1.59	cps
Iron	54-2	713	693	623	677	6.98	cps
Iron	56-2	8309	8119	8072	8167	1.54	cps
Iron	57-2	193	200	200	198	1.94	cps
Krypton	83-1	277	247	267	263	5.80	cps
Lead	206-1	1073	1073	1133	1093	3.17	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	993	1033	1033	1020	2.26	cps
Lead	208-1	4304	4444	4517	4421	2.45	cps
Lithium	6-1	11050990	12788014	12174986	12004664	7.34	cps
Magnesium	24-2	1393	1297	1383	1358	3.92	cps
Manganese	55-2	220	230	213	221	3.79	cps
Molybdenum	94-1	640	687	613	647	5.74	cps
Molybdenum	95-1	413	390	437	413	5.65	cps
Molybdenum	96-1	480	493	493	489	1.58	cps
Molybdenum	97-1	227	220	207	218	4.68	cps
Molybdenum	98-1	557	550	590	566	3.79	cps
Neodymium	150-1	20	27	17	21	24.12	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	677	743	770	730	6.59	cps
Phosphorus	31-2	117	90	130	112	18.15	cps
Potassium	39-2	13440	13023	13396	13286	1.73	cps
Rhodium	103-1	22196098	26624178	23539586	24119954	9.41	cps
Rhodium	103-2	9319106	9331603	9305314	9318674	0.14	cps
Scandium	45-1	17030224	20473135	18742501	18748620	9.18	cps
Scandium	45-2	375729	372826	380900	376485	1.09	cps
Selenium	82-1	27	47	23	32	39.14	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	17	13	13	14	13.35	cps
Silicon	28-1	855238	850657	850066	851987	0.33	cps
Silver	107-1	220	230	180	210	12.60	cps
Silver	109-1	83	87	73	81	8.56	cps
Sodium	23-2	49417	49524	49403	49448	0.13	cps
Strontium	86-1	523	487	513	508	3.73	cps
Strontium	88-1	553	443	487	494	11.21	cps
Sulfur	34-1	634052	636432	635709	635398	0.19	cps
Terbium	159-1	28430801	34712486	31416131	31519806	9.97	cps
Terbium	159-2	10705519	10584896	10731597	10674004	0.73	cps
Thallium	203-1	163	133	200	166	20.17	cps
Thallium	205-1	360	410	373	381	6.79	cps
Tin	118-1	4448	4164	4327	4313	3.30	cps
Titanium	47-1	257	297	317	290	10.53	cps
Uranium	238-1	70	43	33	49	38.78	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:46:05	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	13	20	12	68.66	cps
Ytterbium	172-1	120	197	167	161	23.98	cps
Ytterbium	172-2	57	83	53	64	25.51	cps
Ytterbium	176-1	3317	3971	3837	3708	9.31	cps
Ytterbium	176-2	923	1003	1047	991	6.31	cps
Yttrium	89-1	35734430	44170426	39881303	39928720	10.56	cps
Yttrium	89-2	2967148	3022380	3051445	3013658	1.42	cps
Zinc	66-2	623	597	637	619	3.29	cps
Zirconium	90-1	1423	1613	1603	1547	6.91	cps
Zirconium	91-1	233	320	293	282	15.73	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2000	2010	2044	2018	1.12	cps
Antimony	121-1	42222	41677	41426	41775	0.97	cps
Arsenic	75-2	497	460	463	473	4.28	cps
Barium	135-1	53726	53335	54322	53794	0.92	cps
Barium	137-1	92997	94303	92933	93411	0.83	cps
Beryllium	9-1	7828	8056	8020	7968	1.54	cps
Bismuth	209-1	18293052	18342050	18920453	18518518	1.88	cps
Bismuth	209-2	7985733	7953229	7990898	7976620	0.26	cps
Bromine	81-1	11862	11888	11311	11687	2.79	cps
Cadmium	108-1	483	443	477	468	4.58	cps
Cadmium	106-1	12482	13083	12366	12644	3.04	cps
Cadmium	111-1	13727	14145	13837	13903	1.56	cps
Calcium	43-1	40791	40865	41450	41035	0.88	cps
Calcium	44-1	681082	679705	684739	681842	0.38	cps
Carbon	12-1	5093734	5151434	5117149	5120772	0.57	cps
Carbon	12-2	32806	32650	32793	32750	0.27	cps
Chlorine	35-1	84813	84461	84685	84653	0.21	cps
Chlorine	35-2	367	313	377	352	9.67	cps
Chromium	52-2	12766	12816	13089	12890	1.35	cps
Cobalt	59-2	10444	10784	10764	10664	1.79	cps
Copper	63-2	19954	19423	19377	19585	1.64	cps
Dysprosium	156-1	13	10	33	19	66.81	cps
Dysprosium	156-2	7	13	13	11	34.61	cps
Erbium	164-1	140	103	137	127	16.01	cps
Erbium	164-2	57	43	40	47	18.90	cps
Gadolinium	160-1	193	250	157	200	23.51	cps
Gadolinium	160-2	63	37	27	42	44.88	cps
Holmium	165-1	30423660	30420665	30580780	30475035	0.30	cps
Holmium	165-2	11081617	11050510	11074172	11068767	0.15	cps
Indium	115-1	25253265	25472853	24872800	25199639	1.20	cps
Indium	115-2	2785499	2736252	2769815	2763855	0.91	cps
Iron	54-2	12429	11762	12185	12125	2.78	cps
Iron	56-2	212610	211870	211300	211927	0.31	cps
Iron	57-2	5231	4991	5044	5089	2.48	cps
Krypton	83-1	277	237	277	263	8.77	cps
Lead	206-1	17075	17832	17412	17440	2.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15553	15790	14969	15437	2.74	cps
Lead	208-1	69497	71313	70483	70431	1.29	cps
Lithium	6-1	11856985	11901160	11946827	11901657	0.38	cps
Magnesium	24-2	179140	178748	179363	179084	0.17	cps
Manganese	55-2	2604	2464	2340	2469	5.34	cps
Molybdenum	94-1	47611	48631	48675	48306	1.25	cps
Molybdenum	95-1	57840	58794	58834	58489	0.96	cps
Molybdenum	96-1	65209	64134	63303	64215	1.49	cps
Molybdenum	97-1	35442	36281	36358	36027	1.41	cps
Molybdenum	98-1	91751	93489	92754	92665	0.94	cps
Neodymium	150-1	20	23	27	23	14.29	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	3691	3604	3490	3595	2.79	cps
Phosphorus	31-2	310	307	237	284	14.56	cps
Potassium	39-2	122585	122320	123822	122909	0.65	cps
Rhodium	103-1	24093144	24099591	23748673	23980469	0.84	cps
Rhodium	103-2	9513720	9486153	9387244	9462372	0.70	cps
Scandium	45-1	18426649	18348068	18716508	18497075	1.05	cps
Scandium	45-2	383098	379125	383342	381855	0.62	cps
Selenium	82-1	1687	1930	1910	1842	7.33	cps
Selenium	77-2	33	17	37	29	37.08	cps
Selenium	78-2	137	140	130	136	3.76	cps
Silicon	28-1	961292	958351	948280	955974	0.71	cps
Silver	107-1	26820	27277	27494	27197	1.27	cps
Silver	109-1	26288	26693	26128	26370	1.10	cps
Sodium	23-2	404926	404123	403029	404026	0.24	cps
Strontium	86-1	8429	8116	8443	8329	2.22	cps
Strontium	88-1	66209	68239	68420	67623	1.82	cps
Sulfur	34-1	641903	645563	647093	644853	0.41	cps
Terbium	159-1	31444473	31713011	30883397	31346960	1.35	cps
Terbium	159-2	10755484	10730465	10894702	10793551	0.82	cps
Thallium	203-1	21164	20860	20590	20871	1.38	cps
Thallium	205-1	49420	49681	49665	49589	0.29	cps
Tin	118-1	96051	97383	98726	97387	1.37	cps
Titanium	47-1	18969	18565	18889	18808	1.14	cps
Uranium	238-1	66989	67012	66258	66753	0.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:52:44	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	21316	20478	20712	20835	2.08	cps
Ytterbium	172-1	140	150	150	147	3.94	cps
Ytterbium	172-2	53	53	67	58	13.33	cps
Ytterbium	176-1	3861	3721	3541	3707	4.33	cps
Ytterbium	176-2	770	837	873	827	6.34	cps
Yttrium	89-1	38740553	40246048	40155392	39713997	2.13	cps
Yttrium	89-2	3144981	3073085	3137324	3118463	1.27	cps
Zinc	66-2	4287	4554	4571	4471	3.56	cps
Zirconium	90-1	40552	41796	42060	41469	1.94	cps
Zirconium	91-1	9133	9417	9096	9215	1.90	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103300	101551	101776	102209	0.93	cps
Antimony	121-1	1023763	1031975	1039309	1031682	0.75	cps
Arsenic	75-2	22541	22281	22081	22301	1.04	cps
Barium	135-1	1350326	1357463	1363996	1357262	0.50	cps
Barium	137-1	2350611	2478536	2430536	2419894	2.67	cps
Beryllium	9-1	388007	386840	386848	387232	0.17	cps
Bismuth	209-1	19140799	19088771	17854608	18694726	3.89	cps
Bismuth	209-2	8090638	8025393	7852761	7989597	1.54	cps
Bromine	81-1	11675	11465	11161	11434	2.26	cps
Cadmium	108-1	21944	22074	21964	21994	0.32	cps
Cadmium	106-1	43930	42793	41873	42865	2.40	cps
Cadmium	111-1	277498	278220	280532	278750	0.57	cps
Calcium	43-1	397049	398793	400449	398764	0.43	cps
Calcium	44-1	6548668	6610980	6579838	6579829	0.47	cps
Carbon	12-1	4644694	4666168	4654432	4655098	0.23	cps
Carbon	12-2	30101	30729	29353	30061	2.29	cps
Chlorine	35-1	84535	85236	83915	84562	0.78	cps
Chlorine	35-2	347	367	320	344	6.80	cps
Chromium	52-2	262144	261422	259426	260997	0.54	cps
Cobalt	59-2	488477	492776	482170	487808	1.09	cps
Copper	63-2	4205774	4165672	4127098	4166181	0.94	cps
Dysprosium	156-1	87	47	53	62	34.44	cps
Dysprosium	156-2	0	13	17	10	88.20	cps
Erbium	164-1	180	150	157	162	9.71	cps
Erbium	164-2	57	50	57	54	7.07	cps
Gadolinium	160-1	243	173	243	220	18.37	cps
Gadolinium	160-2	40	57	20	39	47.21	cps
Holmium	165-1	31582173	31938713	29673660	31064849	3.92	cps
Holmium	165-2	11326255	11105501	11054870	11162208	1.29	cps
Indium	115-1	26260219	26271300	24075185	25535568	4.95	cps
Indium	115-2	2797253	2787544	2741867	2775555	1.07	cps
Iron	54-2	552891	551609	542619	549039	1.02	cps
Iron	56-2	10127196	9996281	9911123	10011533	1.09	cps
Iron	57-2	250989	247262	243669	247307	1.48	cps
Krypton	83-1	273	310	347	310	11.83	cps
Lead	206-1	4369750	4416729	4374944	4387141	0.59	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3813282	3748994	3828396	3796891	1.11	cps
Lead	208-1	17311235	17174266	17444321	17309940	0.78	cps
Lithium	6-1	12460487	12182843	11240222	11961184	5.35	cps
Magnesium	24-2	1782295	1784219	1704248	1756921	2.60	cps
Manganese	55-2	1107148	1104544	1077425	1096372	1.50	cps
Molybdenum	94-1	4090021	4132061	4162406	4128163	0.88	cps
Molybdenum	95-1	5942178	6025818	5957702	5975233	0.74	cps
Molybdenum	96-1	6528487	6618844	6551352	6566228	0.72	cps
Molybdenum	97-1	3696433	3685447	3731651	3704511	0.65	cps
Molybdenum	98-1	9429196	9499955	9471289	9466813	0.38	cps
Neodymium	150-1	123	130	157	137	12.91	cps
Neodymium	150-2	3	20	10	11	75.52	cps
Nickel	60-2	135713	137217	133896	135609	1.23	cps
Phosphorus	31-2	4724	4611	4644	4660	1.25	cps
Potassium	39-2	558005	551815	548295	552705	0.89	cps
Rhodium	103-1	24691070	24357740	22484643	23844484	4.99	cps
Rhodium	103-2	9604559	9274054	9277817	9385476	2.02	cps
Scandium	45-1	19242234	19181674	17807493	18743801	4.33	cps
Scandium	45-2	386787	380185	374969	380647	1.56	cps
Selenium	82-1	17928	17636	17671	17745	0.90	cps
Selenium	77-2	310	303	360	324	9.55	cps
Selenium	78-2	1100	1057	1227	1128	7.83	cps
Silicon	28-1	16721388	16985150	16813506	16840014	0.79	cps
Silver	107-1	1391176	1409740	1421213	1407376	1.08	cps
Silver	109-1	1324620	1330450	1368429	1341167	1.77	cps
Sodium	23-2	3697052	3632766	3616266	3648694	1.17	cps
Strontium	86-1	375530	382681	378645	378952	0.95	cps
Strontium	88-1	3424954	3386639	3381099	3397564	0.70	cps
Sulfur	34-1	771069	769694	767234	769332	0.25	cps
Terbium	159-1	32477839	32100633	30128456	31568976	4.00	cps
Terbium	159-2	11054140	11025289	10898462	10992630	0.75	cps
Thallium	203-1	1037382	1039753	1047701	1041612	0.52	cps
Thallium	205-1	2548456	2557660	2563438	2556518	0.30	cps
Tin	118-1	900825	907218	915898	907980	0.83	cps
Titanium	47-1	1852377	1912544	1862791	1875904	1.71	cps
Uranium	238-1	3484174	3458341	3552936	3498484	1.40	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:56:02	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	203164	201727	199812	201567	0.83	cps
Ytterbium	172-1	210	220	160	197	16.35	cps
Ytterbium	172-2	77	50	93	73	29.80	cps
Ytterbium	176-1	8970	8833	8603	8802	2.11	cps
Ytterbium	176-2	2704	2747	2680	2710	1.25	cps
Yttrium	89-1	41576424	41322981	38246154	40381853	4.59	cps
Yttrium	89-2	3175227	3142151	3064412	3127264	1.82	cps
Zinc	66-2	379171	377664	375104	377313	0.54	cps
Zirconium	90-1	2135190	2171630	2145466	2150762	0.87	cps
Zirconium	91-1	450868	454859	457749	454492	0.76	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	243618	242414	245688	243907	0.68	cps
Antimony	121-1	2703642	2660122	2638052	2667272	1.25	cps
Arsenic	75-2	53983	54431	53742	54052	0.65	cps
Barium	135-1	3491619	3477672	3446067	3471786	0.67	cps
Barium	137-1	5899939	5843348	5693146	5812144	1.84	cps
Beryllium	9-1	943624	940741	938500	940955	0.27	cps
Bismuth	209-1	17935542	18710603	18816339	18487494	2.60	cps
Bismuth	209-2	7585060	8274722	7920390	7926724	4.35	cps
Bromine	81-1	11261	11615	12085	11654	3.55	cps
Cadmium	108-1	55274	54484	54273	54677	0.96	cps
Cadmium	106-1	88659	89394	89149	89067	0.42	cps
Cadmium	111-1	673093	677497	672978	674523	0.38	cps
Calcium	43-1	982274	976692	968275	975747	0.72	cps
Calcium	44-1	16318942	16368306	15998654	16228634	1.24	cps
Carbon	12-1	4931378	4943941	4937672	4937664	0.13	cps
Carbon	12-2	31343	31677	32165	31729	1.30	cps
Chlorine	35-1	88542	89991	90574	89702	1.17	cps
Chlorine	35-2	370	300	367	346	11.43	cps
Chromium	52-2	628291	627108	626700	627366	0.13	cps
Cobalt	59-2	1180662	1171383	1171720	1174588	0.45	cps
Copper	63-2	10022282	9949687	10027182	9999717	0.43	cps
Dysprosium	156-1	123	100	103	109	11.59	cps
Dysprosium	156-2	13	23	43	27	57.29	cps
Erbium	164-1	237	240	223	233	3.78	cps
Erbium	164-2	83	110	63	86	27.37	cps
Gadolinium	160-1	263	180	243	229	19.01	cps
Gadolinium	160-2	50	60	73	61	19.15	cps
Holmium	165-1	30016905	31585606	31282641	30961718	2.69	cps
Holmium	165-2	10696317	11570745	11187108	11151390	3.93	cps
Indium	115-1	25076233	25463280	25350366	25296626	0.79	cps
Indium	115-2	2620644	2865762	2723830	2736746	4.50	cps
Iron	54-2	1320677	1306927	1320375	1315993	0.60	cps
Iron	56-2	24349279	23960166	24506880	24272109	1.16	cps
Iron	57-2	597001	592727	597742	595823	0.45	cps
Krypton	83-1	310	243	340	298	16.62	cps
Lead	206-1	10654859	10656334	10739708	10683634	0.45	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9405107	9157468	9208704	9257093	1.41	cps
Lead	208-1	42803263	42179733	42112192	42365063	0.90	cps
Lithium	6-1	11716342	11600750	11755582	11690891	0.69	cps
Magnesium	24-2	4127269	4100608	4137082	4121653	0.46	cps
Manganese	55-2	2720199	2710656	2706327	2712394	0.26	cps
Molybdenum	94-1	10276765	10230293	10284869	10263976	0.29	cps
Molybdenum	95-1	14720094	14712634	14950994	14794574	0.92	cps
Molybdenum	96-1	16319302	16258751	16146006	16241353	0.54	cps
Molybdenum	97-1	9178814	9167031	8977322	9107722	1.24	cps
Molybdenum	98-1	23605665	23758531	23539770	23634655	0.47	cps
Neodymium	150-1	293	307	273	291	5.76	cps
Neodymium	150-2	23	17	17	19	20.36	cps
Nickel	60-2	325304	325210	324637	325050	0.11	cps
Phosphorus	31-2	11395	11425	11445	11421	0.22	cps
Potassium	39-2	1339170	1310498	1340115	1329928	1.27	cps
Rhodium	103-1	22720789	23783085	23458252	23320709	2.33	cps
Rhodium	103-2	8786110	9609618	9285938	9227222	4.50	cps
Scandium	45-1	18154025	18839480	18226823	18406776	2.05	cps
Scandium	45-2	359172	387210	372971	373118	3.76	cps
Selenium	82-1	43375	44136	45097	44203	1.95	cps
Selenium	77-2	833	803	780	806	3.32	cps
Selenium	78-2	2670	2530	2797	2666	5.00	cps
Silicon	28-1	40070616	40715967	39527123	40104569	1.48	cps
Silver	107-1	3634116	3601343	3599406	3611621	0.54	cps
Silver	109-1	3309663	3372447	3427073	3369728	1.74	cps
Sodium	23-2	8515203	8460597	8622037	8532613	0.96	cps
Strontium	86-1	935811	934425	936844	935693	0.13	cps
Strontium	88-1	8404512	8278003	8421283	8367932	0.94	cps
Sulfur	34-1	924304	947921	947916	940047	1.45	cps
Terbium	159-1	30689816	32018128	31385467	31364470	2.12	cps
Terbium	159-2	10319453	11207920	10992059	10839811	4.27	cps
Thallium	203-1	2682855	2710024	2721790	2704890	0.74	cps
Thallium	205-1	6377488	6321636	6291521	6330215	0.69	cps
Tin	118-1	2342218	2349493	2276317	2322676	1.74	cps
Titanium	47-1	4561589	4640547	4530570	4577569	1.24	cps
Uranium	238-1	8629660	8539682	8562323	8577222	0.55	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 12:59:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	484225	487523	487234	486327	0.38	cps
Ytterbium	172-1	297	220	267	261	14.80	cps
Ytterbium	172-2	83	110	100	98	13.78	cps
Ytterbium	176-1	16053	15843	15613	15836	1.39	cps
Ytterbium	176-2	5138	5448	5354	5313	2.99	cps
Yttrium	89-1	39725296	40536844	40505694	40255945	1.14	cps
Yttrium	89-2	2983794	3152821	3088700	3075105	2.77	cps
Zinc	66-2	907936	907923	916703	910854	0.56	cps
Zirconium	90-1	5302500	5250510	5240137	5264382	0.63	cps
Zirconium	91-1	1132836	1130917	1125315	1129689	0.35	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	473979	477259	473247	474828	0.45	cps
Antimony	121-1	5124772	5205875	5196528	5175725	0.86	cps
Arsenic	75-2	107325	105474	105165	105988	1.10	cps
Barium	135-1	6739451	6897244	6996218	6877638	1.88	cps
Barium	137-1	11509548	11725400	11783111	11672686	1.24	cps
Beryllium	9-1	1855941	1859603	1865679	1860408	0.26	cps
Bismuth	209-1	20278335	18124519	18564429	18989094	5.99	cps
Bismuth	209-2	7617131	7588668	7664931	7623576	0.51	cps
Bromine	81-1	11228	11281	11178	11229	0.46	cps
Cadmium	108-1	104100	107807	107424	106444	1.92	cps
Cadmium	106-1	161369	163675	163493	162846	0.79	cps
Cadmium	111-1	1290703	1322939	1335008	1316217	1.74	cps
Calcium	43-1	1963022	2015632	1983686	1987447	1.33	cps
Calcium	44-1	30995246	32412673	32010959	31806293	2.30	cps
Carbon	12-1	5124244	5166458	5094105	5128269	0.71	cps
Carbon	12-2	33916	32723	33876	33505	2.02	cps
Chlorine	35-1	93925	95764	98438	96042	2.36	cps
Chlorine	35-2	357	407	450	404	11.55	cps
Chromium	52-2	1229974	1223913	1216469	1223452	0.55	cps
Cobalt	59-2	2360078	2364951	2337943	2354324	0.61	cps
Copper	63-2	19567552	19549760	19389453	19502255	0.50	cps
Dysprosium	156-1	207	187	140	178	19.24	cps
Dysprosium	156-2	40	47	47	44	8.66	cps
Erbium	164-1	290	367	320	326	11.87	cps
Erbium	164-2	117	97	107	107	9.37	cps
Gadolinium	160-1	260	247	223	243	7.63	cps
Gadolinium	160-2	80	63	87	77	15.68	cps
Holmium	165-1	34059888	30895613	31506871	32154124	5.22	cps
Holmium	165-2	10834559	10744953	10948234	10842582	0.94	cps
Indium	115-1	27539604	24529924	25090081	25719870	6.22	cps
Indium	115-2	2628035	2599683	2612969	2613562	0.54	cps
Iron	54-2	2722861	2685619	2669946	2692809	1.01	cps
Iron	56-2	47677063	47406691	47477128	47520294	0.30	cps
Iron	57-2	1170808	1176156	1167042	1171335	0.39	cps
Krypton	83-1	430	363	327	373	14.03	cps
Lead	206-1	21197564	21313161	21437276	21316000	0.56	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18292586	18456271	18595759	18448205	0.82	cps
Lead	208-1	83349661	84694172	85291148	84444994	1.18	cps
Lithium	6-1	12767940	11513797	11893815	12058518	5.33	cps
Magnesium	24-2	8161657	8151028	8194117	8168934	0.27	cps
Manganese	55-2	5372747	5243324	5311053	5309041	1.22	cps
Molybdenum	94-1	20016895	20413338	20465827	20298687	1.21	cps
Molybdenum	95-1	28450598	30042915	29625677	29373063	2.81	cps
Molybdenum	96-1	31243262	32693331	32067538	32001377	2.27	cps
Molybdenum	97-1	17692807	18186803	18001822	17960477	1.39	cps
Molybdenum	98-1	46325866	47766584	47209879	47100777	1.54	cps
Neodymium	150-1	557	603	623	594	5.75	cps
Neodymium	150-2	30	47	50	42	25.38	cps
Nickel	60-2	632793	636559	626039	631797	0.84	cps
Phosphorus	31-2	22237	22457	21907	22200	1.25	cps
Potassium	39-2	2585224	2620165	2606722	2604037	0.68	cps
Rhodium	103-1	25725177	22639351	23182133	23848887	6.91	cps
Rhodium	103-2	8864943	8807534	8858275	8843584	0.36	cps
Scandium	45-1	20324268	18030365	18618293	18990975	6.27	cps
Scandium	45-2	358802	358952	357419	358391	0.24	cps
Selenium	82-1	83878	87097	87218	86064	2.20	cps
Selenium	77-2	1447	1650	1463	1520	7.43	cps
Selenium	78-2	5001	5324	5074	5133	3.30	cps
Silicon	28-1	74755129	78156136	77727576	76879613	2.41	cps
Silver	107-1	6889128	7020236	7003310	6970891	1.02	cps
Silver	109-1	6530667	6707930	6652102	6630233	1.37	cps
Sodium	23-2	16707876	16886939	16564808	16719874	0.97	cps
Strontium	86-1	1855331	1967684	1942438	1921818	3.07	cps
Strontium	88-1	15990678	16612310	16558825	16387271	2.10	cps
Sulfur	34-1	1124592	1126576	1136337	1129169	0.56	cps
Terbium	159-1	34373609	31288824	31692378	32451604	5.17	cps
Terbium	159-2	10567925	10487011	10614952	10556629	0.61	cps
Thallium	203-1	5321047	5421572	5307189	5349936	1.17	cps
Thallium	205-1	12423093	12796763	12483653	12567836	1.60	cps
Tin	118-1	4494565	4549811	4526155	4523510	0.61	cps
Titanium	47-1	8751368	9078325	9033360	8954351	1.98	cps
Uranium	238-1	16893422	17723708	17492369	17369833	2.47	cps

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Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:01:57	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	961376	965291	959061	961909	0.33	cps
Ytterbium	172-1	297	293	247	279	10.02	cps
Ytterbium	172-2	153	107	113	124	20.28	cps
Ytterbium	176-1	28204	27990	28290	28161	0.55	cps
Ytterbium	176-2	9684	9350	9754	9596	2.25	cps
Yttrium	89-1	43790823	39279076	39913965	40994621	5.96	cps
Yttrium	89-2	2963952	2990053	3026525	2993510	1.05	cps
Zinc	66-2	1849355	1824494	1811483	1828444	1.05	cps
Zirconium	90-1	10337168	10342781	10444815	10374921	0.58	cps
Zirconium	91-1	2276709	2348577	2376723	2334003	2.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	905890	895232	903583	901569	0.62	cps
Antimony	121-1	10003656	10096382	9864355	9988131	1.17	cps
Arsenic	75-2	201307	203497	199494	201433	1.00	cps
Barium	135-1	13388515	13204782	13218317	13270538	0.77	cps
Barium	137-1	22844773	22100305	22132401	22359160	1.88	cps
Beryllium	9-1	3496983	3549404	3487210	3511199	0.95	cps
Bismuth	209-1	17742285	18196149	18099521	18012652	1.33	cps
Bismuth	209-2	7404918	7499158	7473257	7459111	0.65	cps
Bromine	81-1	11425	11124	10637	11062	3.59	cps
Cadmium	108-1	200537	201056	199919	200504	0.28	cps
Cadmium	106-1	289630	300857	297084	295857	1.93	cps
Cadmium	111-1	2583740	2645299	2559988	2596342	1.70	cps
Calcium	43-1	3759663	3859411	3807686	3808920	1.31	cps
Calcium	44-1	60687337	62754979	61191066	61544461	1.75	cps
Carbon	12-1	5338683	5519986	5488600	5449090	1.78	cps
Carbon	12-2	36910	36719	37177	36935	0.62	cps
Chlorine	35-1	109688	110770	111432	110630	0.80	cps
Chlorine	35-2	443	480	463	462	3.97	cps
Chromium	52-2	2427666	2433245	2455608	2438839	0.61	cps
Cobalt	59-2	4446413	4361030	4403515	4403653	0.97	cps
Copper	63-2	36530299	36404134	36040324	36324919	0.70	cps
Dysprosium	156-1	347	320	340	336	4.14	cps
Dysprosium	156-2	57	60	80	66	19.25	cps
Erbium	164-1	407	423	460	430	6.34	cps
Erbium	164-2	177	110	73	120	43.66	cps
Gadolinium	160-1	397	313	377	362	12.01	cps
Gadolinium	160-2	90	100	100	97	5.97	cps
Holmium	165-1	30917688	31715160	31368776	31333875	1.28	cps
Holmium	165-2	10759195	10706089	10940328	10801871	1.14	cps
Indium	115-1	24258469	24805803	24055895	24373389	1.59	cps
Indium	115-2	2556933	2539665	2573251	2556616	0.66	cps
Iron	54-2	5011563	5056697	4991532	5019930	0.66	cps
Iron	56-2	90466369	89736995	91069149	90424171	0.74	cps
Iron	57-2	2292199	2317641	2292166	2300669	0.64	cps
Krypton	83-1	253	287	320	287	11.63	cps
Lead	206-1	40673702	40809169	40645372	40709414	0.22	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35097741	35618192	35374929	35363621	0.74	cps
Lead	208-1	160355103	162901676	161716307	161657695	0.79	cps
Lithium	6-1	11385487	11582575	11447639	11471900	0.88	cps
Magnesium	24-2	15606568	15670506	15573483	15616852	0.32	cps
Manganese	55-2	10046004	10031106	10239634	10105581	1.15	cps
Molybdenum	94-1	38736374	39642021	39685404	39354600	1.36	cps
Molybdenum	95-1	56176336	57581709	57159621	56972555	1.27	cps
Molybdenum	96-1	59883834	62455687	62422564	61587362	2.40	cps
Molybdenum	97-1	33779154	35110809	34833679	34574547	2.03	cps
Molybdenum	98-1	89856295	92096169	89995635	90649366	1.38	cps
Neodymium	150-1	1203	1190	1237	1210	1.99	cps
Neodymium	150-2	93	77	93	88	10.96	cps
Nickel	60-2	1172906	1172815	1183050	1176257	0.50	cps
Phosphorus	31-2	41178	42235	41546	41653	1.29	cps
Potassium	39-2	4943724	4862688	4948623	4918345	0.98	cps
Rhodium	103-1	21650378	22920075	22409774	22326742	2.86	cps
Rhodium	103-2	8612850	8553498	8512104	8559484	0.59	cps
Scandium	45-1	17603723	18197546	18133057	17978109	1.81	cps
Scandium	45-2	353354	350063	354958	352792	0.71	cps
Selenium	82-1	164331	166507	163245	164694	1.01	cps
Selenium	77-2	2897	2904	2714	2838	3.80	cps
Selenium	78-2	9617	9163	9687	9489	3.00	cps
Silicon	28-1	144410298	146341374	143336901	144696191	1.05	cps
Silver	107-1	13253825	13317907	13351118	13307617	0.37	cps
Silver	109-1	12744134	12682442	12490685	12639087	1.05	cps
Sodium	23-2	32378365	32108869	31697442	32061558	1.07	cps
Strontium	86-1	3728447	3576935	3675817	3660400	2.10	cps
Strontium	88-1	31923550	31388526	31621339	31644471	0.85	cps
Sulfur	34-1	1544944	1500584	1518746	1521425	1.47	cps
Terbium	159-1	30719500	31968101	31514952	31400851	2.01	cps
Terbium	159-2	10590480	10439346	10629970	10553266	0.95	cps
Thallium	203-1	10060290	10187378	10175533	10141067	0.69	cps
Thallium	205-1	23646951	24210472	23940160	23932528	1.18	cps
Tin	118-1	8669450	8786067	8563678	8673065	1.28	cps
Titanium	47-1	16824980	17513988	17540708	17293225	2.35	cps
Uranium	238-1	33482206	34062059	33794064	33779443	0.86	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:04:45	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1853889	1899924	1890472	1881429	1.29	cps
Ytterbium	172-1	377	400	393	390	3.08	cps
Ytterbium	172-2	153	190	117	153	23.91	cps
Ytterbium	176-1	51627	50566	51419	51204	1.10	cps
Ytterbium	176-2	17251	17415	17669	17445	1.21	cps
Yttrium	89-1	38638202	39114984	39966121	39239769	1.71	cps
Yttrium	89-2	2886812	2910534	2888128	2895158	0.46	cps
Zinc	66-2	3447037	3423303	3441673	3437337	0.36	cps
Zirconium	90-1	20048426	19984713	20232105	20088415	0.64	cps
Zirconium	91-1	4494428	4519828	4451999	4488752	0.76	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1826306	1802781	1768703	1799263	1.61	cps
Antimony	121-1	19545889	19496026	19684373	19575429	0.50	cps
Arsenic	75-2	393855	390854	389568	391426	0.56	cps
Barium	135-1	26029210	25846104	26147491	26007602	0.58	cps
Barium	137-1	44128991	44060961	44202633	44130862	0.16	cps
Beryllium	9-1	6546808	6529518	6509776	6528701	0.28	cps
Bismuth	209-1	18004593	17922721	17754695	17894003	0.71	cps
Bismuth	209-2	7338727	7296505	7259191	7298141	0.55	cps
Bromine	81-1	10864	11088	11175	11042	1.45	cps
Cadmium	108-1	386854	383929	384332	385038	0.41	cps
Cadmium	106-1	548867	552558	553416	551614	0.44	cps
Cadmium	111-1	4971230	4942759	4913747	4942579	0.58	cps
Calcium	43-1	7186363	7337375	7209844	7244527	1.12	cps
Calcium	44-1	117700215	120467768	118762708	118976897	1.17	cps
Carbon	12-1	5998925	6184564	6334893	6172794	2.73	cps
Carbon	12-2	44878	44407	44500	44595	0.56	cps
Chlorine	35-1	137496	141484	143190	140723	2.08	cps
Chlorine	35-2	690	613	557	620	10.79	cps
Chromium	52-2	4714098	4702784	4642922	4686601	0.82	cps
Cobalt	59-2	8523178	8485929	8548303	8519137	0.37	cps
Copper	63-2	69937079	69357894	69787027	69694000	0.43	cps
Dysprosium	156-1	633	693	680	669	4.71	cps
Dysprosium	156-2	133	130	123	129	3.95	cps
Erbium	164-1	607	683	577	622	8.84	cps
Erbium	164-2	177	160	243	193	22.81	cps
Gadolinium	160-1	547	557	523	542	3.16	cps
Gadolinium	160-2	217	203	130	183	25.46	cps
Holmium	165-1	31078850	31092223	31100391	31090488	0.03	cps
Holmium	165-2	10835335	10840248	10883767	10853117	0.25	cps
Indium	115-1	24194388	24210111	24156563	24187021	0.11	cps
Indium	115-2	2537519	2492766	2495067	2508450	1.00	cps
Iron	54-2	9692927	9658807	9610361	9654031	0.43	cps
Iron	56-2	176248497	173792797	173846404	174629233	0.80	cps
Iron	57-2	4374680	4353373	4360116	4362723	0.25	cps
Krypton	83-1	353	350	333	346	3.10	cps
Lead	206-1	78678380	79124222	79005577	78936060	0.29	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	68500662	67406854	69180107	68362541	1.31	cps
Lead	208-1	316425294	313626620	318095569	316049161	0.71	cps
Lithium	6-1	11023091	11004561	11065086	11030913	0.28	cps
Magnesium	24-2	30357707	30091016	29973740	30140821	0.65	cps
Manganese	55-2	19674890	19553303	19489997	19572730	0.48	cps
Molybdenum	94-1	75513666	76838316	76347021	76233001	0.88	cps
Molybdenum	95-1	110375365	111977205	110896482	111083017	0.74	cps
Molybdenum	96-1	121080618	120455002	120422852	120652824	0.31	cps
Molybdenum	97-1	67563429	67130171	67440119	67377906	0.33	cps
Molybdenum	98-1	175849757	178621291	177647271	177372773	0.79	cps
Neodymium	150-1	2270	2224	2250	2248	1.04	cps
Neodymium	150-2	133	177	137	149	16.19	cps
Nickel	60-2	2424498	2386919	2391210	2400876	0.86	cps
Phosphorus	31-2	80150	79372	80311	79944	0.63	cps
Potassium	39-2	9539257	9596331	9658548	9598045	0.62	cps
Rhodium	103-1	21955155	21771320	21538231	21754902	0.96	cps
Rhodium	103-2	8470133	8372344	8425920	8422799	0.58	cps
Scandium	45-1	17860419	17880502	18177603	17972841	0.99	cps
Scandium	45-2	352701	352964	352124	352597	0.12	cps
Selenium	82-1	315132	316805	319271	317069	0.66	cps
Selenium	77-2	5414	5691	5701	5602	2.91	cps
Selenium	78-2	18532	17871	18759	18388	2.51	cps
Silicon	28-1	279931703	272313083	273668616	275304467	1.48	cps
Silver	107-1	25487391	25150529	25412269	25350063	0.70	cps
Silver	109-1	24218673	23846411	23929025	23998036	0.81	cps
Sodium	23-2	63048576	62819401	61774864	62547614	1.09	cps
Strontium	86-1	7304668	7102320	7116403	7174463	1.57	cps
Strontium	88-1	62573649	62663389	61744176	62327071	0.81	cps
Sulfur	34-1	2336679	2315001	2355295	2335658	0.86	cps
Terbium	159-1	31762733	31588315	31833178	31728075	0.40	cps
Terbium	159-2	10753915	10527742	10636832	10639496	1.06	cps
Thallium	203-1	19953423	19963626	19711034	19876028	0.72	cps
Thallium	205-1	47424363	47122246	46979956	47175522	0.48	cps
Tin	118-1	16946671	17027510	16988555	16987579	0.24	cps
Titanium	47-1	33596966	33872162	33959062	33809397	0.56	cps
Uranium	238-1	68125797	65834079	65789476	66583117	2.01	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:07:30	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3670300	3686993	3655893	3671062	0.42	cps
Ytterbium	172-1	667	593	650	637	6.04	cps
Ytterbium	172-2	273	233	333	280	17.98	cps
Ytterbium	176-1	97580	96694	95825	96700	0.91	cps
Ytterbium	176-2	33960	34375	34184	34173	0.61	cps
Yttrium	89-1	39358975	38996819	38798772	39051522	0.73	cps
Yttrium	89-2	2909968	2885347	2916293	2903869	0.56	cps
Zinc	66-2	6548515	6517571	6601054	6555713	0.64	cps
Zirconium	90-1	39290657	39092487	39053894	39145679	0.32	cps
Zirconium	91-1	8609224	8758469	8646790	8671495	0.90	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7850161	7980511	8071154	7967275	1.39	cps
Antimony	121-1	6191	5781	5474	5816	6.19	cps
Arsenic	75-2	207	177	140	174	19.14	cps
Barium	135-1	8436	8826	8306	8523	3.18	cps
Barium	137-1	14618	14718	13897	14411	3.11	cps
Beryllium	9-1	1742	1629	1425	1599	10.06	cps
Bismuth	209-1	14688791	14831584	14720160	14746845	0.51	cps
Bismuth	209-2	6382054	6391654	6434231	6402646	0.43	cps
Bromine	81-1	11155	11315	10517	10996	3.84	cps
Cadmium	108-1	200	150	130	160	22.53	cps
Cadmium	106-1	9934	10457	10037	10143	2.73	cps
Cadmium	111-1	7364	7805	7482	7550	3.03	cps
Calcium	43-1	32223862	32136822	31776248	32045644	0.74	cps
Calcium	44-1	528508725	526879365	521527299	525638463	0.69	cps
Carbon	12-1	5748722	5945718	5756825	5817088	1.92	cps
Carbon	12-2	50242	49904	50005	50050	0.35	cps
Chlorine	35-1	80271	78783	76732	78595	2.26	cps
Chlorine	35-2	280	357	313	317	12.14	cps
Chromium	52-2	6858	8700	6385	7314	16.72	cps
Cobalt	59-2	16339	16196	16116	16217	0.70	cps
Copper	63-2	11391	11298	11048	11246	1.58	cps
Dysprosium	156-1	743	667	767	726	7.21	cps
Dysprosium	156-2	233	270	260	254	7.45	cps
Erbium	164-1	800	880	820	833	5.00	cps
Erbium	164-2	327	287	270	294	9.89	cps
Gadolinium	160-1	810	750	833	798	5.39	cps
Gadolinium	160-2	367	373	320	353	8.22	cps
Holmium	165-1	27850203	27478914	27469419	27599512	0.79	cps
Holmium	165-2	10024597	10097856	9941715	10021390	0.78	cps
Indium	115-1	20911827	20803010	20550407	20755081	0.89	cps
Indium	115-2	2302143	2269587	2302673	2291468	0.83	cps
Iron	54-2	41915315	42085839	41225359	41742171	1.09	cps
Iron	56-2	768844069	780105188	770838042	773262433	0.78	cps
Iron	57-2	19442402	19470725	19311296	19408141	0.44	cps
Krypton	83-1	450	430	493	458	7.07	cps
Lead	206-1	10294	10191	9974	10153	1.61	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9070	8813	8453	8779	3.53	cps
Lead	208-1	41608	40529	39911	40683	2.11	cps
Lithium	6-1	9545338	9652949	9460608	9552965	1.01	cps
Magnesium	24-2	125922841	126568428	124774205	125755158	0.72	cps
Manganese	55-2	5865	5638	5905	5802	2.48	cps
Molybdenum	94-1	14351	12472	12366	13063	8.55	cps
Molybdenum	95-1	12923	11075	11148	11715	8.93	cps
Molybdenum	96-1	21277	18930	18296	19501	8.05	cps
Molybdenum	97-1	7852	6165	5885	6634	16.05	cps
Molybdenum	98-1	18937	15603	14241	16260	14.86	cps
Neodymium	150-1	427	353	383	388	9.51	cps
Neodymium	150-2	100	113	117	110	8.02	cps
Nickel	60-2	4948	5121	4758	4942	3.68	cps
Phosphorus	31-2	117	100	150	122	20.83	cps
Potassium	39-2	43875998	43517358	43921609	43771655	0.51	cps
Rhodium	103-1	18454317	18442708	17837013	18244679	1.94	cps
Rhodium	103-2	7064290	7068893	7025871	7053018	0.33	cps
Scandium	45-1	15529421	15401018	15281484	15403975	0.80	cps
Scandium	45-2	313689	311442	310046	311726	0.59	cps
Selenium	82-1	0	-6	50	15	208.72	cps
Selenium	77-2	3	3	7	4	43.40	cps
Selenium	78-2	17	30	13	20	44.10	cps
Silicon	28-1	976054	938404	888279	934246	4.71	cps
Silver	107-1	3427	3220	3014	3220	6.42	cps
Silver	109-1	3167	2967	2777	2970	6.57	cps
Sodium	23-2	269369396	268950336	267381956	268567229	0.39	cps
Strontium	86-1	18920	18219	18189	18442	2.24	cps
Strontium	88-1	158589	156729	157594	157637	0.59	cps
Sulfur	34-1	504286	493343	477346	491658	2.76	cps
Terbium	159-1	27982368	27806445	27349598	27712804	1.18	cps
Terbium	159-2	9857217	9776284	9749130	9794211	0.57	cps
Thallium	203-1	1470	1197	943	1203	21.89	cps
Thallium	205-1	3347	2634	2490	2824	16.25	cps
Tin	118-1	6562	6295	6078	6312	3.84	cps
Titanium	47-1	4941	4868	4981	4930	1.17	cps
Uranium	238-1	1974	2064	1613	1884	12.65	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:10:17	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	533	453	473	487	8.55	cps
Ytterbium	172-1	957	977	847	927	7.55	cps
Ytterbium	172-2	533	420	363	439	19.72	cps
Ytterbium	176-1	3884	3721	3901	3835	2.59	cps
Ytterbium	176-2	897	960	993	950	5.17	cps
Yttrium	89-1	34539424	34545904	33877051	34320793	1.12	cps
Yttrium	89-2	2679582	2677251	2662103	2672979	0.36	cps
Zinc	66-2	2364	2027	2124	2171	7.98	cps
Zirconium	90-1	18666	18115	18566	18449	1.59	cps
Zirconium	91-1	4074	4167	3964	4068	2.50	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	49631	49812	49343	49595	0.48	cps
Antimony	121-1	4401788	4271976	4360934	4344899	1.53	cps
Arsenic	75-2	93431	94444	93994	93956	0.54	cps
Barium	135-1	549927	551851	555482	552420	0.51	cps
Barium	137-1	959125	948526	963064	956905	0.79	cps
Beryllium	9-1	737769	740449	739462	739227	0.18	cps
Bismuth	209-1	18687013	19610945	18382859	18893606	3.39	cps
Bismuth	209-2	8053955	8094639	7890015	8012870	1.35	cps
Bromine	81-1	11802	12082	11942	11942	1.17	cps
Cadmium	108-1	36274	36114	36311	36233	0.29	cps
Cadmium	106-1	61854	63127	60924	61968	1.78	cps
Cadmium	111-1	555327	559087	562503	558972	0.64	cps
Calcium	43-1	157518	158188	156707	157471	0.47	cps
Calcium	44-1	2672930	2651323	2649207	2657820	0.49	cps
Carbon	12-1	5005143	4980703	4915950	4967265	0.93	cps
Carbon	12-2	32793	33091	33047	32977	0.49	cps
Chlorine	35-1	77714	76524	76799	77012	0.81	cps
Chlorine	35-2	297	350	323	323	8.25	cps
Chromium	52-2	543732	542066	541994	542597	0.18	cps
Cobalt	59-2	1019526	1017223	1017439	1018062	0.12	cps
Copper	63-2	802970	805346	794542	800953	0.71	cps
Dysprosium	156-1	33	20	20	24	31.49	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	170	130	127	142	16.95	cps
Erbium	164-2	47	47	57	50	11.55	cps
Gadolinium	160-1	257	197	213	222	13.94	cps
Gadolinium	160-2	50	37	53	47	18.89	cps
Holmium	165-1	31284128	31749396	30625099	31219541	1.81	cps
Holmium	165-2	11050122	11261641	11118615	11143460	0.97	cps
Indium	115-1	26167644	26203040	25312280	25894321	1.95	cps
Indium	115-2	2794190	2797694	2825403	2805762	0.61	cps
Iron	54-2	452502	450659	451115	451426	0.21	cps
Iron	56-2	8088508	8027232	8020684	8045475	0.46	cps
Iron	57-2	199563	199698	200338	199866	0.21	cps
Krypton	83-1	353	367	273	331	15.24	cps
Lead	206-1	3644318	3701978	3589155	3645150	1.55	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3042822	3002810	2965677	3003769	1.28	cps
Lead	208-1	13925766	14119140	13823726	13956211	1.08	cps
Lithium	6-1	12521951	12204419	11986537	12237636	2.20	cps
Magnesium	24-2	404776	401863	400997	402546	0.49	cps
Manganese	55-2	224461	223250	224702	224138	0.35	cps
Molybdenum	94-1	1090	1117	1140	1116	2.24	cps
Molybdenum	95-1	783	743	707	744	5.15	cps
Molybdenum	96-1	1367	1413	1200	1327	8.45	cps
Molybdenum	97-1	447	360	433	413	11.29	cps
Molybdenum	98-1	1123	1127	920	1057	11.20	cps
Neodymium	150-1	70	47	63	60	20.03	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	283791	283278	282540	283203	0.22	cps
Phosphorus	31-2	140	127	163	143	12.95	cps
Potassium	39-2	450764	452642	452437	451948	0.23	cps
Rhodium	103-1	24445330	24360973	24079015	24295106	0.79	cps
Rhodium	103-2	9370109	9537033	9500102	9469082	0.93	cps
Scandium	45-1	19440839	19274668	19026591	19247366	1.08	cps
Scandium	45-2	383314	391056	383878	386082	1.12	cps
Selenium	82-1	72826	74317	72558	73234	1.29	cps
Selenium	77-2	1417	1417	1303	1379	4.75	cps
Selenium	78-2	4971	4601	4487	4686	5.40	cps
Silicon	28-1	794288	792590	790297	792392	0.25	cps
Silver	107-1	1379580	1397242	1403816	1393546	0.90	cps
Silver	109-1	1320946	1322501	1335998	1326482	0.62	cps
Sodium	23-2	1490751	1499164	1496229	1495382	0.29	cps
Strontium	86-1	2490	2450	2394	2445	1.99	cps
Strontium	88-1	17214	17204	16687	17035	1.77	cps
Sulfur	34-1	631860	633949	641187	635665	0.77	cps
Terbium	159-1	32418511	32298130	31404217	32040286	1.73	cps
Terbium	159-2	10963481	10996639	10815540	10925220	0.88	cps
Thallium	203-1	4361440	4451468	4393769	4402226	1.04	cps
Thallium	205-1	10232178	10359912	10284762	10292284	0.62	cps
Tin	118-1	3644	3517	3337	3499	4.40	cps
Titanium	47-1	497	457	490	481	4.45	cps
Uranium	238-1	47	50	53	50	6.66	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 13:58:15	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	408367	411079	410732	410059	0.36	cps
Ytterbium	172-1	187	163	157	169	9.33	cps
Ytterbium	172-2	93	53	47	64	39.16	cps
Ytterbium	176-1	3541	3704	3607	3617	2.27	cps
Ytterbium	176-2	780	887	917	861	8.34	cps
Yttrium	89-1	41454752	41533455	39745107	40911105	2.47	cps
Yttrium	89-2	3143832	3208453	3115300	3155862	1.51	cps
Zinc	66-2	153241	154345	152237	153274	0.69	cps
Zirconium	90-1	1733	1780	1830	1781	2.71	cps
Zirconium	91-1	1093	987	943	1008	7.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	97	93	98	5.21	cps
Antimony	121-1	1067	1003	1003	1024	3.57	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	103	107	117	109	6.37	cps
Barium	137-1	173	200	163	179	10.59	cps
Beryllium	9-1	545	531	505	527	3.87	cps
Bismuth	209-1	19852614	19838308	18654314	19448412	3.54	cps
Bismuth	209-2	8163353	7860310	8115395	8046353	2.02	cps
Bromine	81-1	12656	12806	12359	12607	1.80	cps
Cadmium	108-1	40	33	47	40	16.68	cps
Cadmium	106-1	12773	12236	12002	12337	3.20	cps
Cadmium	111-1	8946	8585	8419	8650	3.12	cps
Calcium	43-1	1033	777	853	888	14.84	cps
Calcium	44-1	26001	25813	26071	25962	0.51	cps
Carbon	12-1	5101886	5116835	4943833	5054185	1.90	cps
Carbon	12-2	33385	33682	32646	33238	1.60	cps
Chlorine	35-1	84351	85789	84414	84851	0.96	cps
Chlorine	35-2	303	363	283	317	13.15	cps
Chromium	52-2	2417	2367	2447	2410	1.68	cps
Cobalt	59-2	123	80	110	104	21.25	cps
Copper	63-2	3681	3550	3570	3600	1.94	cps
Dysprosium	156-1	33	13	20	22	45.83	cps
Dysprosium	156-2	10	3	0	4	114.60	cps
Erbium	164-1	130	137	187	151	20.50	cps
Erbium	164-2	43	60	43	49	19.69	cps
Gadolinium	160-1	220	210	217	216	2.36	cps
Gadolinium	160-2	50	30	37	39	26.18	cps
Holmium	165-1	34218477	32334630	30557622	32370243	5.66	cps
Holmium	165-2	11536979	11085939	11219914	11280944	2.05	cps
Indium	115-1	28348444	27242409	25804980	27131944	4.70	cps
Indium	115-2	2938803	2801660	2841613	2860692	2.47	cps
Iron	54-2	683	770	693	716	6.63	cps
Iron	56-2	9233	9510	9460	9401	1.57	cps
Iron	57-2	220	257	240	239	7.69	cps
Krypton	83-1	233	237	250	240	3.68	cps
Lead	206-1	1617	1657	1603	1626	1.71	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1377	1323	1253	1318	4.69	cps
Lead	208-1	6427	6354	6157	6313	2.21	cps
Lithium	6-1	12370885	12551769	11637444	12186699	3.97	cps
Magnesium	24-2	883	917	870	890	2.70	cps
Manganese	55-2	217	220	243	227	6.41	cps
Molybdenum	94-1	740	687	763	730	5.38	cps
Molybdenum	95-1	433	513	533	493	10.73	cps
Molybdenum	96-1	490	610	527	542	11.34	cps
Molybdenum	97-1	240	250	200	230	11.51	cps
Molybdenum	98-1	660	547	627	611	9.53	cps
Neodymium	150-1	20	7	17	14	48.02	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	757	800	850	802	5.82	cps
Phosphorus	31-2	123	120	183	142	25.06	cps
Potassium	39-2	18288	17524	17547	17787	2.44	cps
Rhodium	103-1	26891292	25234530	24422738	25516187	4.93	cps
Rhodium	103-2	9825707	9525989	9537103	9629600	1.76	cps
Scandium	45-1	20874064	20066717	19260185	20066989	4.02	cps
Scandium	45-2	396308	388115	390739	391721	1.07	cps
Selenium	82-1	63	30	100	64	54.33	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	10	7	30	16	81.11	cps
Silicon	28-1	902859	900305	899142	900769	0.21	cps
Silver	107-1	1397	997	937	1110	22.53	cps
Silver	109-1	1107	753	647	836	28.82	cps
Sodium	23-2	78825	76989	78593	78135	1.28	cps
Strontium	86-1	520	627	483	543	13.70	cps
Strontium	88-1	603	567	510	560	8.40	cps
Sulfur	34-1	646603	651322	646696	648207	0.42	cps
Terbium	159-1	34514950	33181325	31062875	32919717	5.29	cps
Terbium	159-2	11206169	10655738	10823661	10895189	2.59	cps
Thallium	203-1	877	720	613	737	17.98	cps
Thallium	205-1	1907	1713	1647	1756	7.69	cps
Tin	118-1	5045	4911	4811	4922	2.39	cps
Titanium	47-1	430	457	433	440	3.30	cps
Uranium	238-1	30	10	13	18	60.28	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:14:02	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	40	27	26	58.81	cps
Ytterbium	172-1	200	97	173	157	34.24	cps
Ytterbium	172-2	83	60	80	74	16.95	cps
Ytterbium	176-1	4067	3801	3554	3807	6.75	cps
Ytterbium	176-2	677	857	800	778	11.83	cps
Yttrium	89-1	44714799	42660634	41608205	42994546	3.67	cps
Yttrium	89-2	3284294	3134677	3172031	3197001	2.44	cps
Zinc	66-2	653	610	547	603	8.89	cps
Zirconium	90-1	1557	1657	1590	1601	3.18	cps
Zirconium	91-1	310	233	257	267	14.74	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8347039	8307467	8491418	8381975	1.16	cps
Antimony	121-1	23484	24091	24078	23884	1.45	cps
Arsenic	75-2	137	140	117	131	9.62	cps
Barium	135-1	7122	7475	7239	7279	2.47	cps
Barium	137-1	12309	13013	12830	12717	2.87	cps
Beryllium	9-1	1881	1970	1919	1923	2.34	cps
Bismuth	209-1	17769432	16743301	16571660	17028131	3.80	cps
Bismuth	209-2	7061033	7051749	7099904	7070895	0.36	cps
Bromine	81-1	14498	14771	15065	14778	1.92	cps
Cadmium	108-1	5831	5715	5545	5697	2.53	cps
Cadmium	106-1	11085	10387	10274	10582	4.15	cps
Cadmium	111-1	10359	10016	9949	10108	2.18	cps
Calcium	43-1	7345239	7413335	7360059	7372878	0.49	cps
Calcium	44-1	121806682	120803552	120928275	121179503	0.45	cps
Carbon	12-1	57201997	57559049	59187436	57982827	1.83	cps
Carbon	12-2	378223	381864	381794	380627	0.55	cps
Chlorine	35-1	106418135	110642085	112773242	109944487	2.94	cps
Chlorine	35-2	493288	501010	490399	494899	1.11	cps
Chromium	52-2	95462	97059	97281	96601	1.03	cps
Cobalt	59-2	10277	10224	10094	10198	0.93	cps
Copper	63-2	57633	57205	57978	57605	0.67	cps
Dysprosium	156-1	110	97	90	99	10.30	cps
Dysprosium	156-2	40	23	27	30	29.40	cps
Erbium	164-1	210	160	203	191	14.21	cps
Erbium	164-2	50	67	57	58	14.52	cps
Gadolinium	160-1	233	243	237	238	2.14	cps
Gadolinium	160-2	80	87	60	76	18.37	cps
Holmium	165-1	32425285	30229748	29246210	30633747	5.31	cps
Holmium	165-2	10532918	10631500	10546107	10570175	0.51	cps
Indium	115-1	25527510	24267137	23917482	24570710	3.45	cps
Indium	115-2	2583335	2580564	2541233	2568377	0.92	cps
Iron	54-2	19539796	20042876	19414616	19665763	1.69	cps
Iron	56-2	354657955	361006795	363064661	359576470	1.22	cps
Iron	57-2	9154456	9105245	9020196	9093299	0.75	cps
Krypton	83-1	403	440	413	419	4.53	cps
Lead	206-1	70527	72143	70708	71126	1.24	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	57242	57561	57048	57284	0.45	cps
Lead	208-1	266157	270950	269682	268930	0.92	cps
Lithium	6-1	11003320	10314075	10406891	10574762	3.54	cps
Magnesium	24-2	29576303	29185090	29760347	29507247	1.00	cps
Manganese	55-2	15535	15722	15302	15520	1.36	cps
Molybdenum	94-1	12136842	12266763	12100674	12168093	0.72	cps
Molybdenum	95-1	21338154	21915705	21670917	21641592	1.34	cps
Molybdenum	96-1	23060053	23267317	22998615	23108662	0.61	cps
Molybdenum	97-1	13210818	13221593	13171683	13201365	0.20	cps
Molybdenum	98-1	34091547	34445974	34017754	34185091	0.67	cps
Neodymium	150-1	97	127	100	108	15.26	cps
Neodymium	150-2	27	27	37	30	19.24	cps
Nickel	60-2	14701	14871	14918	14830	0.77	cps
Phosphorus	31-2	430222	438206	431325	433251	1.00	cps
Potassium	39-2	19959775	19859403	19852472	19890550	0.30	cps
Rhodium	103-1	23060897	21393725	21094787	21849803	4.85	cps
Rhodium	103-2	8297205	8546235	8273716	8372385	1.80	cps
Scandium	45-1	19397416	18076497	17945203	18473038	4.35	cps
Scandium	45-2	350523	360612	355947	355694	1.42	cps
Selenium	82-1	14	-76	-3	-22	-218.12	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	20	33	13	22	45.83	cps
Silicon	28-1	1089635	1114344	1100498	1101492	1.12	cps
Silver	107-1	1940	1770	1860	1857	4.58	cps
Silver	109-1	1833	1567	1613	1671	8.52	cps
Sodium	23-2	63221329	63540846	63450842	63404339	0.26	cps
Strontium	86-1	238931	248212	242036	243060	1.94	cps
Strontium	88-1	2194750	2250411	2252814	2232659	1.47	cps
Sulfur	34-1	9644209	9543462	9756437	9648036	1.10	cps
Terbium	159-1	33011025	30483595	30153348	31215989	5.01	cps
Terbium	159-2	10238064	10454073	10285766	10325968	1.10	cps
Thallium	203-1	1303	1610	1547	1487	10.89	cps
Thallium	205-1	3154	3571	3984	3569	11.63	cps
Tin	118-1	7219	6945	6575	6913	4.67	cps
Titanium	47-1	6907088	7036665	7069973	7004575	1.23	cps
Uranium	238-1	1317	1420	1363	1367	3.79	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:30:36	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	477	533	597	536	11.21	cps
Ytterbium	172-1	227	193	183	201	11.28	cps
Ytterbium	172-2	83	77	53	71	22.15	cps
Ytterbium	176-1	3374	3157	3027	3186	5.50	cps
Ytterbium	176-2	567	693	747	669	13.82	cps
Yttrium	89-1	41301534	39475635	38387315	39721495	3.71	cps
Yttrium	89-2	2974173	3005984	2958891	2979682	0.81	cps
Zinc	66-2	9400	10104	9924	9809	3.73	cps
Zirconium	90-1	2060	2044	1977	2027	2.18	cps
Zirconium	91-1	417	387	437	413	6.09	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8748014	8913994	8842747	8834918	0.94	cps
Antimony	121-1	421726	428835	430257	426939	1.07	cps
Arsenic	75-2	9000	8746	8913	8886	1.45	cps
Barium	135-1	111400	112082	112949	112144	0.69	cps
Barium	137-1	190275	193683	195330	193096	1.34	cps
Beryllium	9-1	125890	126653	125988	126177	0.33	cps
Bismuth	209-1	17709098	17620737	17572423	17634086	0.39	cps
Bismuth	209-2	7498034	7361612	7261636	7373761	1.61	cps
Bromine	81-1	16550	17204	17090	16948	2.06	cps
Cadmium	108-1	12916	12990	12859	12922	0.51	cps
Cadmium	106-1	20058	20365	20485	20303	1.09	cps
Cadmium	111-1	107843	108114	109747	108568	0.95	cps
Calcium	43-1	7731128	7878313	7824339	7811260	0.95	cps
Calcium	44-1	128637198	132024735	130458645	130373526	1.30	cps
Carbon	12-1	58951046	60206862	60606561	59921490	1.44	cps
Carbon	12-2	387314	384744	382127	384728	0.67	cps
Chlorine	35-1	105868295	112004122	114724085	110865501	4.09	cps
Chlorine	35-2	505150	514289	508647	509362	0.91	cps
Chromium	52-2	197860	199133	199298	198763	0.40	cps
Cobalt	59-2	191304	191905	192149	191786	0.23	cps
Copper	63-2	199531	197832	198768	198710	0.43	cps
Dysprosium	156-1	130	93	153	126	24.09	cps
Dysprosium	156-2	30	40	40	37	15.75	cps
Erbium	164-1	217	203	240	220	8.43	cps
Erbium	164-2	97	77	70	81	17.11	cps
Gadolinium	160-1	277	273	263	271	2.56	cps
Gadolinium	160-2	80	90	50	73	28.39	cps
Holmium	165-1	32410428	31549445	31919100	31959658	1.35	cps
Holmium	165-2	11275051	11192908	11178704	11215554	0.46	cps
Indium	115-1	25268831	25272422	25405921	25315724	0.31	cps
Indium	115-2	2738477	2715382	2698824	2717561	0.73	cps
Iron	54-2	20751626	20749613	20900846	20800695	0.42	cps
Iron	56-2	381576074	384756261	373362381	379898239	1.55	cps
Iron	57-2	9664443	9607910	9661594	9644649	0.33	cps
Krypton	83-1	397	433	320	383	15.09	cps
Lead	206-1	385069	380097	386253	383806	0.85	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	322157	322064	324680	322967	0.46	cps
Lead	208-1	1480736	1488302	1491222	1486753	0.36	cps
Lithium	6-1	10981076	10753585	11193323	10975994	2.00	cps
Magnesium	24-2	31428545	31285320	30801754	31171873	1.05	cps
Manganese	55-2	56039	57478	57171	56896	1.33	cps
Molybdenum	94-1	12939612	13126147	12717799	12927853	1.58	cps
Molybdenum	95-1	23089703	22988117	22908272	22995364	0.40	cps
Molybdenum	96-1	24566628	24577255	24489365	24544416	0.20	cps
Molybdenum	97-1	14020216	14215061	13930927	14055401	1.03	cps
Molybdenum	98-1	36916809	36369654	36444914	36577126	0.81	cps
Neodymium	150-1	140	127	100	122	16.66	cps
Neodymium	150-2	30	40	40	37	15.75	cps
Nickel	60-2	61522	62744	62516	62261	1.04	cps
Phosphorus	31-2	458384	463062	456272	459239	0.76	cps
Potassium	39-2	21057355	21178635	20778817	21004936	0.98	cps
Rhodium	103-1	23048124	22954276	22896230	22966210	0.33	cps
Rhodium	103-2	9016675	8839774	8820976	8892475	1.21	cps
Scandium	45-1	19453653	19126673	19139276	19239867	0.96	cps
Scandium	45-2	380932	380064	379105	380034	0.24	cps
Selenium	82-1	6522	6652	6432	6535	1.69	cps
Selenium	77-2	127	123	117	122	4.17	cps
Selenium	78-2	487	440	457	461	5.13	cps
Silicon	28-1	1182929	1202673	1200908	1195503	0.91	cps
Silver	107-1	475877	486082	481959	481306	1.07	cps
Silver	109-1	456509	462208	464361	461026	0.88	cps
Sodium	23-2	67041071	66927696	66711647	66893471	0.25	cps
Strontium	86-1	256249	258550	255692	256830	0.59	cps
Strontium	88-1	2328109	2334951	2313424	2325495	0.47	cps
Sulfur	34-1	10383166	10513844	10404461	10433824	0.67	cps
Terbium	159-1	32149556	32057130	32346636	32184441	0.46	cps
Terbium	159-2	10798569	10713549	10949631	10820583	1.11	cps
Thallium	203-1	386084	386387	394179	388884	1.18	cps
Thallium	205-1	927145	920054	946878	931359	1.49	cps
Tin	118-1	7666	6975	7385	7342	4.73	cps
Titanium	47-1	7433379	7451276	7427921	7437525	0.16	cps
Uranium	238-1	1093	1053	1050	1066	2.26	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:38:39	DataFile Name :	025ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	77394	77950	77090	77478	0.56	cps
Ytterbium	172-1	233	183	197	204	12.66	cps
Ytterbium	172-2	87	100	90	92	7.52	cps
Ytterbium	176-1	3471	3611	3440	3507	2.59	cps
Ytterbium	176-2	620	680	697	666	6.06	cps
Yttrium	89-1	41127540	41901787	41162014	41397114	1.06	cps
Yttrium	89-2	3132246	3162476	3094792	3129838	1.08	cps
Zinc	66-2	22835	22054	21837	22242	2.36	cps
Zirconium	90-1	2134	1983	2194	2104	5.14	cps
Zirconium	91-1	443	470	490	468	5.01	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4606406	4589849	4529550	4575268	0.88	cps
Antimony	121-1	9551509	9464559	9512486	9509518	0.46	cps
Arsenic	75-2	196630	196812	194770	196070	0.58	cps
Barium	135-1	12945452	12927149	12781421	12884674	0.70	cps
Barium	137-1	21583571	21954864	21671727	21736721	0.89	cps
Beryllium	9-1	3136513	3153030	3210387	3166643	1.22	cps
Bismuth	209-1	16806294	16918127	16550357	16758259	1.13	cps
Bismuth	209-2	6903145	7096119	7001721	7000328	1.38	cps
Bromine	81-1	14317	14094	14377	14263	1.05	cps
Cadmium	108-1	185690	184960	186082	185577	0.31	cps
Cadmium	106-1	273933	277745	274099	275259	0.78	cps
Cadmium	111-1	2325391	2406999	2356276	2362889	1.74	cps
Calcium	43-1	18699909	18346873	18087984	18378255	1.67	cps
Calcium	44-1	304416662	304228109	303370455	304005075	0.18	cps
Carbon	12-1	6028626	5983843	6090794	6034421	0.89	cps
Carbon	12-2	46099	46329	45463	45964	0.98	cps
Chlorine	35-1	6449572	5926516	5610390	5995493	7.07	cps
Chlorine	35-2	20471	19567	18812	19617	4.23	cps
Chromium	52-2	2389327	2388643	2398185	2392052	0.22	cps
Cobalt	59-2	4307229	4275663	4242610	4275167	0.76	cps
Copper	63-2	33692412	33314322	33472473	33493069	0.57	cps
Dysprosium	156-1	713	677	787	726	7.72	cps
Dysprosium	156-2	137	167	177	160	13.01	cps
Erbium	164-1	700	653	707	687	4.23	cps
Erbium	164-2	237	247	193	226	12.57	cps
Gadolinium	160-1	707	630	613	650	7.66	cps
Gadolinium	160-2	213	230	250	231	7.94	cps
Holmium	165-1	31003532	30615384	30696285	30771733	0.67	cps
Holmium	165-2	10790948	10826616	10774841	10797468	0.25	cps
Indium	115-1	23863815	24164722	23844044	23957527	0.75	cps
Indium	115-2	2605124	2570142	2557406	2577557	0.96	cps
Iron	54-2	24254883	23993494	23981925	24076767	0.64	cps
Iron	56-2	438012127	437437553	436923380	437457687	0.12	cps
Iron	57-2	11194984	11107762	11031307	11111351	0.74	cps
Krypton	83-1	487	447	477	470	4.43	cps
Lead	206-1	37612976	37366085	37018940	37332667	0.80	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	31895455	31979858	31803820	31893044	0.28	cps
Lead	208-1	147556169	149302485	146673082	147843912	0.91	cps
Lithium	6-1	10282180	10014687	10430325	10242397	2.06	cps
Magnesium	24-2	73065809	72474932	72580756	72707166	0.43	cps
Manganese	55-2	9896801	9864240	9825912	9862317	0.36	cps
Molybdenum	94-1	38467134	38189774	37572379	38076429	1.20	cps
Molybdenum	95-1	55135908	55182023	55630553	55316161	0.49	cps
Molybdenum	96-1	59952431	59425252	60035514	59804399	0.55	cps
Molybdenum	97-1	33895061	33294455	33208305	33465940	1.12	cps
Molybdenum	98-1	87183172	87094792	87164119	87147361	0.05	cps
Neodymium	150-1	1347	1330	1240	1306	4.40	cps
Neodymium	150-2	137	123	113	124	9.41	cps
Nickel	60-2	1268342	1264368	1265162	1265957	0.17	cps
Phosphorus	31-2	41269	41456	41743	41489	0.58	cps
Potassium	39-2	24924347	24853615	24903742	24893901	0.15	cps
Rhodium	103-1	21553072	21386356	21172836	21370755	0.89	cps
Rhodium	103-2	8362140	8327100	8321131	8336790	0.27	cps
Scandium	45-1	18867437	18785713	18445147	18699433	1.20	cps
Scandium	45-2	360272	365688	365396	363786	0.84	cps
Selenium	82-1	153488	154106	152886	153493	0.40	cps
Selenium	77-2	2634	2617	2774	2675	3.22	cps
Selenium	78-2	9350	9300	9303	9318	0.30	cps
Silicon	28-1	142230048	143255595	141572645	142352762	0.60	cps
Silver	107-1	12003520	12047040	11899373	11983311	0.63	cps
Silver	109-1	11286988	11579131	11471662	11445927	1.29	cps
Sodium	23-2	156889291	153771724	154966134	155209050	1.01	cps
Strontium	86-1	3625762	3677212	3624666	3642546	0.82	cps
Strontium	88-1	31161677	31301820	31080756	31181418	0.36	cps
Sulfur	34-1	1542306	1501443	1506273	1516674	1.47	cps
Terbium	159-1	31573812	31488406	31344957	31469058	0.37	cps
Terbium	159-2	10540917	10475880	10466080	10494292	0.39	cps
Thallium	203-1	9413163	9287053	9277945	9326054	0.81	cps
Thallium	205-1	21965027	22259092	21990259	22071459	0.74	cps
Tin	118-1	8171466	8341537	8234113	8249039	1.04	cps
Titanium	47-1	16807628	17237302	17023463	17022797	1.26	cps
Uranium	238-1	31429482	31643500	31720299	31597760	0.48	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:41:43	DataFile Name :	026CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1889656	1867993	1888485	1882045	0.65	cps
Ytterbium	172-1	817	843	730	797	7.44	cps
Ytterbium	172-2	343	317	320	327	4.45	cps
Ytterbium	176-1	49021	49001	49338	49120	0.39	cps
Ytterbium	176-2	17131	17568	17625	17442	1.55	cps
Yttrium	89-1	40515332	39924737	39064624	39834898	1.83	cps
Yttrium	89-2	3019667	3083373	3008897	3037312	1.33	cps
Zinc	66-2	3427287	3410263	3413178	3416909	0.27	cps
Zirconium	90-1	20000617	19708181	19332365	19680387	1.70	cps
Zirconium	91-1	4356219	4384284	4406403	4382302	0.57	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107	67	97	90	23.13	cps
Antimony	121-1	363	437	343	381	12.89	cps
Arsenic	75-2	0	3	0	1	173.21	cps
Barium	135-1	110	150	110	123	18.72	cps
Barium	137-1	190	160	183	178	8.86	cps
Beryllium	9-1	432	405	433	423	3.66	cps
Bismuth	209-1	19221479	20041923	19442333	19568578	2.17	cps
Bismuth	209-2	8221679	6709835	7589259	7506924	10.11	cps
Bromine	81-1	12879	12849	12953	12894	0.41	cps
Cadmium	108-1	43	43	27	38	25.46	cps
Cadmium	106-1	12416	12476	12529	12474	0.46	cps
Cadmium	111-1	8687	8726	8792	8735	0.60	cps
Calcium	43-1	1233	1087	1140	1153	6.44	cps
Calcium	44-1	33616	33112	33269	33332	0.77	cps
Carbon	12-1	5047258	5166144	5100531	5104644	1.17	cps
Carbon	12-2	32155	33542	33041	32912	2.13	cps
Chlorine	35-1	933539	928770	900123	920811	1.96	cps
Chlorine	35-2	3684	3574	3567	3608	1.82	cps
Chromium	52-2	2254	2330	2464	2349	4.52	cps
Cobalt	59-2	140	127	130	132	5.25	cps
Copper	63-2	4721	4844	4951	4839	2.38	cps
Dysprosium	156-1	10	33	17	20	60.08	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	127	157	133	139	11.34	cps
Erbium	164-2	37	47	20	34	39.11	cps
Gadolinium	160-1	150	190	173	171	11.74	cps
Gadolinium	160-2	47	37	20	34	39.11	cps
Holmium	165-1	31185245	32801387	32303666	32096766	2.58	cps
Holmium	165-2	11363807	9474125	10245629	10361187	9.17	cps
Indium	115-1	26186469	26962228	27230405	26793034	2.02	cps
Indium	115-2	2837997	2384257	2649269	2623841	8.69	cps
Iron	54-2	1050	903	827	927	12.25	cps
Iron	56-2	12352	12419	12065	12279	1.53	cps
Iron	57-2	267	350	303	307	13.62	cps
Krypton	83-1	310	257	267	278	10.21	cps
Lead	206-1	1887	1773	1930	1863	4.34	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1567	1643	1677	1629	3.46	cps
Lead	208-1	7218	7424	7464	7369	1.80	cps
Lithium	6-1	11634961	11766183	11707192	11702779	0.56	cps
Magnesium	24-2	870	837	837	848	2.27	cps
Manganese	55-2	260	270	250	260	3.85	cps
Molybdenum	94-1	1403	963	973	1113	22.56	cps
Molybdenum	95-1	1647	910	750	1102	43.39	cps
Molybdenum	96-1	1670	1007	830	1169	37.89	cps
Molybdenum	97-1	817	513	443	591	33.57	cps
Molybdenum	98-1	2214	1300	1207	1573	35.36	cps
Neodymium	150-1	10	13	13	12	15.73	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	773	737	690	733	5.70	cps
Phosphorus	31-2	173	123	137	144	17.92	cps
Potassium	39-2	21406	21209	21052	21222	0.84	cps
Rhodium	103-1	24949358	26090102	25527072	25522177	2.23	cps
Rhodium	103-2	9843053	8202830	9142293	9062725	9.08	cps
Scandium	45-1	19645774	20350934	19597790	19864833	2.12	cps
Scandium	45-2	392480	327165	364759	361468	9.07	cps
Selenium	82-1	-7	27	10	10	166.53	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	17	10	14	26.66	cps
Silicon	28-1	873670	874812	874544	874342	0.07	cps
Silver	107-1	483	440	453	459	4.84	cps
Silver	109-1	260	233	230	241	6.82	cps
Sodium	23-2	102335	102456	103181	102657	0.45	cps
Strontium	86-1	530	467	480	492	6.78	cps
Strontium	88-1	660	680	670	670	1.49	cps
Sulfur	34-1	667595	668302	670273	668723	0.21	cps
Terbium	159-1	31620861	33033731	32806438	32487010	2.34	cps
Terbium	159-2	11014668	9414324	10562031	10330341	7.99	cps
Thallium	203-1	590	557	610	586	4.60	cps
Thallium	205-1	1477	1510	1593	1527	3.94	cps
Tin	118-1	4881	4861	5011	4918	1.66	cps
Titanium	47-1	570	480	543	531	8.70	cps
Uranium	238-1	50	50	47	49	3.93	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:55:06	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	10	13	12	15.73	cps
Ytterbium	172-1	150	140	227	172	27.53	cps
Ytterbium	172-2	73	27	67	56	45.43	cps
Ytterbium	176-1	3491	3651	3554	3565	2.26	cps
Ytterbium	176-2	693	677	837	736	11.96	cps
Yttrium	89-1	41207569	43620433	42806686	42544896	2.89	cps
Yttrium	89-2	3229578	2702204	3024761	2985514	8.91	cps
Zinc	66-2	900	813	857	857	5.06	cps
Zirconium	90-1	1767	2004	1867	1879	6.32	cps
Zirconium	91-1	350	377	363	363	3.67	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	110	93	98	10.96	cps
Antimony	121-1	237	197	213	216	9.32	cps
Arsenic	75-2	3	3	3	3	0.00	cps
Barium	135-1	143	170	153	156	8.66	cps
Barium	137-1	240	247	260	249	4.09	cps
Beryllium	9-1	378	379	394	384	2.37	cps
Bismuth	209-1	19488537	19162239	19237076	19295951	0.89	cps
Bismuth	209-2	7805355	9678962	8131854	8538723	11.72	cps
Bromine	81-1	12396	13753	13443	13197	5.39	cps
Cadmium	108-1	40	23	33	32	26.04	cps
Cadmium	106-1	12439	12125	12569	12378	1.84	cps
Cadmium	111-1	8689	8481	8805	8659	1.89	cps
Calcium	43-1	867	980	997	948	7.46	cps
Calcium	44-1	27994	27948	28198	28047	0.47	cps
Carbon	12-1	4452464	4452737	4413397	4439532	0.51	cps
Carbon	12-2	27940	28137	27539	27872	1.09	cps
Chlorine	35-1	746859	729932	718294	731695	1.96	cps
Chlorine	35-2	2927	2647	3094	2889	7.81	cps
Chromium	52-2	2554	2590	2540	2561	1.01	cps
Cobalt	59-2	150	127	120	132	11.91	cps
Copper	63-2	4671	4901	4697	4756	2.65	cps
Dysprosium	156-1	10	13	17	13	25.01	cps
Dysprosium	156-2	7	7	3	6	34.70	cps
Erbium	164-1	157	167	140	154	8.72	cps
Erbium	164-2	23	60	53	46	42.88	cps
Gadolinium	160-1	157	190	163	170	10.37	cps
Gadolinium	160-2	30	57	27	38	43.52	cps
Holmium	165-1	32434008	31417063	32250716	32033929	1.69	cps
Holmium	165-2	10770813	13281991	11370180	11807662	11.11	cps
Indium	115-1	27234177	26162615	26562337	26653043	2.03	cps
Indium	115-2	2719160	3375533	2860004	2984899	11.58	cps
Iron	54-2	1027	833	1020	960	11.43	cps
Iron	56-2	12626	13146	12803	12858	2.06	cps
Iron	57-2	283	327	287	299	8.07	cps
Krypton	83-1	320	357	287	321	10.91	cps
Lead	206-1	1934	1837	1907	1892	2.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1583	1627	1657	1622	2.27	cps
Lead	208-1	7431	7481	7348	7420	0.91	cps
Lithium	6-1	11797785	11910863	11838497	11849049	0.48	cps
Magnesium	24-2	957	917	823	899	7.61	cps
Manganese	55-2	203	283	223	237	17.59	cps
Molybdenum	94-1	933	817	913	888	7.03	cps
Molybdenum	95-1	910	747	650	769	17.09	cps
Molybdenum	96-1	863	747	763	791	7.98	cps
Molybdenum	97-1	377	393	383	384	2.18	cps
Molybdenum	98-1	1307	1040	950	1099	16.88	cps
Neodymium	150-1	17	7	7	10	57.72	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	803	850	843	832	3.03	cps
Phosphorus	31-2	143	123	173	147	17.16	cps
Potassium	39-2	21065	20979	21025	21023	0.21	cps
Rhodium	103-1	25438909	24640359	25152535	25077268	1.61	cps
Rhodium	103-2	9303738	11799131	10009014	10370628	12.40	cps
Scandium	45-1	20070142	19835888	19798907	19901646	0.74	cps
Scandium	45-2	373719	466905	398746	413123	11.67	cps
Selenium	82-1	47	-70	30	2	2838.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	3	13	10	57.75	cps
Silicon	28-1	801519	797095	798202	798939	0.29	cps
Silver	107-1	353	323	450	376	17.63	cps
Silver	109-1	247	247	193	229	13.45	cps
Sodium	23-2	95124	93983	93228	94112	1.01	cps
Strontium	86-1	473	480	587	513	12.39	cps
Strontium	88-1	607	677	697	660	7.16	cps
Sulfur	34-1	674803	681296	680816	678972	0.53	cps
Terbium	159-1	33244775	31876133	32483933	32534947	2.11	cps
Terbium	159-2	10715465	13117816	11137937	11657073	11.00	cps
Thallium	203-1	557	553	563	558	0.91	cps
Thallium	205-1	1317	1303	1340	1320	1.41	cps
Tin	118-1	4261	4241	4394	4299	1.94	cps
Titanium	47-1	533	473	573	527	9.56	cps
Uranium	238-1	23	20	33	26	27.15	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BL	Instrumnet Name :	P8
Client Sample ID :	PBS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 14:58:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	7	20	13	49.99	cps
Ytterbium	172-1	177	117	173	156	21.68	cps
Ytterbium	172-2	80	97	70	82	16.39	cps
Ytterbium	176-1	4014	3864	3897	3925	2.01	cps
Ytterbium	176-2	790	943	847	860	9.02	cps
Yttrium	89-1	43221804	41993430	42312629	42509288	1.50	cps
Yttrium	89-2	3009213	3811318	3224051	3348194	12.40	cps
Zinc	66-2	623	660	623	636	3.33	cps
Zirconium	90-1	1730	1703	1747	1727	1.27	cps
Zirconium	91-1	283	287	243	271	8.89	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4194	4057	4207	4153	2.00	cps
Antimony	121-1	83986	83714	83527	83742	0.28	cps
Arsenic	75-2	1013	950	917	960	5.11	cps
Barium	135-1	106931	106951	105453	106445	0.81	cps
Barium	137-1	183666	184372	183015	183684	0.37	cps
Beryllium	9-1	15590	15263	15273	15375	1.21	cps
Bismuth	209-1	19643663	19367497	19408795	19473318	0.76	cps
Bismuth	209-2	7494013	8053028	6924098	7490380	7.54	cps
Bromine	81-1	12602	12666	12486	12585	0.73	cps
Cadmium	108-1	880	870	930	893	3.60	cps
Cadmium	106-1	13934	13834	13797	13855	0.51	cps
Cadmium	111-1	19832	19755	19634	19741	0.50	cps
Calcium	43-1	80876	81673	80215	80921	0.90	cps
Calcium	44-1	1396351	1416966	1389257	1400858	1.03	cps
Carbon	12-1	4340309	4312533	4261506	4304783	0.93	cps
Carbon	12-2	27389	27486	26417	27097	2.18	cps
Chlorine	35-1	2548349	2825832	2865660	2746614	6.29	cps
Chlorine	35-2	12552	12522	12422	12499	0.55	cps
Chromium	52-2	22151	21767	21486	21801	1.53	cps
Cobalt	59-2	19807	19537	20211	19852	1.71	cps
Copper	63-2	37035	37506	37770	37437	0.99	cps
Dysprosium	156-1	33	23	37	31	22.31	cps
Dysprosium	156-2	7	10	7	8	24.71	cps
Erbium	164-1	120	133	127	127	5.27	cps
Erbium	164-2	43	40	57	47	18.90	cps
Gadolinium	160-1	197	210	177	194	8.63	cps
Gadolinium	160-2	33	53	50	46	23.52	cps
Holmium	165-1	32767704	31768885	32264473	32267020	1.55	cps
Holmium	165-2	10480588	11170262	9667966	10439605	7.20	cps
Indium	115-1	27179493	26918655	26665757	26921302	0.95	cps
Indium	115-2	2657632	2794978	2429032	2627214	7.04	cps
Iron	54-2	87291	86818	87844	87318	0.59	cps
Iron	56-2	1611473	1606732	1636611	1618272	0.99	cps
Iron	57-2	39077	39067	39317	39154	0.36	cps
Krypton	83-1	377	357	280	338	15.11	cps
Lead	206-1	35519	34733	34766	35006	1.27	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	31371	31061	30797	31076	0.93	cps
Lead	208-1	141429	141463	140012	140968	0.59	cps
Lithium	6-1	12028991	11833364	11969343	11943899	0.84	cps
Magnesium	24-2	330438	329738	330726	330301	0.15	cps
Manganese	55-2	4321	4387	4751	4486	5.16	cps
Molybdenum	94-1	94427	94864	92730	94007	1.20	cps
Molybdenum	95-1	116130	114853	116056	115680	0.62	cps
Molybdenum	96-1	128457	127566	126513	127512	0.76	cps
Molybdenum	97-1	70896	70920	71881	71233	0.79	cps
Molybdenum	98-1	184250	182200	180936	182462	0.92	cps
Neodymium	150-1	23	13	23	20	28.87	cps
Neodymium	150-2	0	7	13	7	99.98	cps
Nickel	60-2	6105	6041	6011	6052	0.79	cps
Phosphorus	31-2	400	300	333	344	14.78	cps
Potassium	39-2	232929	232440	236573	233981	0.97	cps
Rhodium	103-1	25688332	24937644	24880625	25168867	1.79	cps
Rhodium	103-2	9200542	9615953	8448919	9088471	6.51	cps
Scandium	45-1	19989512	19883396	19942524	19938477	0.27	cps
Scandium	45-2	365017	388389	335045	362817	7.37	cps
Selenium	82-1	3524	3563	3743	3610	3.24	cps
Selenium	77-2	90	70	57	72	23.23	cps
Selenium	78-2	197	270	220	229	16.37	cps
Silicon	28-1	1108120	1090979	1081210	1093436	1.25	cps
Silver	107-1	54849	55274	55237	55120	0.43	cps
Silver	109-1	52653	53005	52583	52747	0.43	cps
Sodium	23-2	772516	772665	778683	774621	0.45	cps
Strontium	86-1	16280	15606	15405	15763	2.91	cps
Strontium	88-1	136247	134214	131987	134149	1.59	cps
Sulfur	34-1	676762	673410	672755	674309	0.32	cps
Terbium	159-1	33780970	33078734	33252315	33370673	1.10	cps
Terbium	159-2	10192315	10903973	9342370	10146219	7.71	cps
Thallium	203-1	42078	42259	41376	41904	1.11	cps
Thallium	205-1	98839	98007	98870	98572	0.50	cps
Tin	118-1	182672	185107	182459	183413	0.80	cps
Titanium	47-1	9703	9430	9613	9582	1.45	cps
Uranium	238-1	133378	127485	129529	130131	2.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165564BS	Instrumnet Name :	P8
Client Sample ID :	LCS564	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:01:46	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40895	41166	41089	41050	0.34	cps
Ytterbium	172-1	180	167	153	167	8.00	cps
Ytterbium	172-2	40	50	50	47	12.37	cps
Ytterbium	176-1	4074	3837	3841	3917	3.46	cps
Ytterbium	176-2	723	803	740	756	5.59	cps
Yttrium	89-1	43674804	42363632	41922078	42653505	2.14	cps
Yttrium	89-2	3009080	3151689	2749813	2970194	6.86	cps
Zinc	66-2	8069	8823	8386	8426	4.49	cps
Zirconium	90-1	79828	79341	80281	79816	0.59	cps
Zirconium	91-1	17665	18105	17755	17842	1.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	110	110	113	5.09	cps
Antimony	121-1	137	130	67	111	34.77	cps
Arsenic	75-2	0	7	7	4	86.60	cps
Barium	135-1	163	160	80	134	35.09	cps
Barium	137-1	203	187	203	198	4.87	cps
Beryllium	9-1	282	284	303	289	3.99	cps
Bismuth	209-1	18855194	18592827	18766618	18738213	0.71	cps
Bismuth	209-2	7798515	7828811	7956364	7861230	1.07	cps
Bromine	81-1	12532	12606	12592	12577	0.31	cps
Cadmium	108-1	23	27	20	23	14.29	cps
Cadmium	106-1	11838	11708	11802	11783	0.57	cps
Cadmium	111-1	8281	8184	8261	8242	0.62	cps
Calcium	43-1	897	933	847	892	4.88	cps
Calcium	44-1	27470	27590	27123	27394	0.89	cps
Carbon	12-1	4423052	4467860	4472080	4454331	0.61	cps
Carbon	12-2	28498	27927	27947	28124	1.15	cps
Chlorine	35-1	359221	351237	353578	354679	1.16	cps
Chlorine	35-2	1423	1567	1367	1452	7.10	cps
Chromium	52-2	2497	2390	2700	2529	6.23	cps
Cobalt	59-2	123	117	113	118	4.32	cps
Copper	63-2	3714	3741	4084	3846	5.37	cps
Dysprosium	156-1	20	7	17	14	48.02	cps
Dysprosium	156-2	3	3	17	8	99.04	cps
Erbium	164-1	133	133	147	138	5.59	cps
Erbium	164-2	60	30	50	47	32.73	cps
Gadolinium	160-1	180	140	217	179	21.44	cps
Gadolinium	160-2	37	57	40	44	24.11	cps
Holmium	165-1	30526435	31724954	30594555	30948648	2.18	cps
Holmium	165-2	10852014	11081598	11137974	11023862	1.37	cps
Indium	115-1	25901892	26127026	25852772	25960564	0.56	cps
Indium	115-2	2755770	2796250	2803799	2785273	0.93	cps
Iron	54-2	983	850	947	927	7.43	cps
Iron	56-2	11144	14467	11191	12268	15.53	cps
Iron	57-2	233	300	283	272	12.75	cps
Krypton	83-1	307	303	287	299	3.59	cps
Lead	206-1	1523	1693	1443	1553	8.22	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1247	1367	1333	1316	4.71	cps
Lead	208-1	5897	6287	5864	6016	3.91	cps
Lithium	6-1	11746432	11677122	11601376	11674977	0.62	cps
Magnesium	24-2	1057	1040	1087	1061	2.23	cps
Manganese	55-2	240	197	210	216	10.30	cps
Molybdenum	94-1	747	740	777	754	2.59	cps
Molybdenum	95-1	650	500	613	588	13.31	cps
Molybdenum	96-1	773	577	627	659	15.51	cps
Molybdenum	97-1	417	313	333	354	15.46	cps
Molybdenum	98-1	887	780	770	812	7.96	cps
Neodymium	150-1	7	20	7	11	69.25	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	847	813	817	826	2.22	cps
Phosphorus	31-2	187	140	153	160	15.02	cps
Potassium	39-2	19103	19530	19029	19221	1.41	cps
Rhodium	103-1	24755686	24088938	24447172	24430599	1.37	cps
Rhodium	103-2	9562220	9592570	9658048	9604279	0.51	cps
Scandium	45-1	19133508	19353866	19504346	19330573	0.96	cps
Scandium	45-2	383294	388013	390181	387163	0.91	cps
Selenium	82-1	7	-73	70	1	6433.14	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	17	13	3	11	62.48	cps
Silicon	28-1	809555	803431	803414	805467	0.44	cps
Silver	107-1	297	320	290	302	5.21	cps
Silver	109-1	147	143	147	146	1.32	cps
Sodium	23-2	85840	86451	85703	85998	0.46	cps
Strontium	86-1	573	577	553	568	2.22	cps
Strontium	88-1	590	580	640	603	5.33	cps
Sulfur	34-1	677024	678349	681909	679094	0.37	cps
Terbium	159-1	31490926	32676173	31163708	31776936	2.50	cps
Terbium	159-2	10660537	10728932	10829592	10739687	0.79	cps
Thallium	203-1	327	383	263	324	18.50	cps
Thallium	205-1	810	647	670	709	12.46	cps
Tin	118-1	4307	4171	5798	4759	18.97	cps
Titanium	47-1	480	450	557	496	11.10	cps
Uranium	238-1	30	20	13	21	39.75	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:15:38	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	13	13	13	0.00	cps
Ytterbium	172-1	190	150	183	174	12.29	cps
Ytterbium	172-2	40	43	57	47	18.90	cps
Ytterbium	176-1	3480	3420	3444	3448	0.88	cps
Ytterbium	176-2	693	837	847	792	10.83	cps
Yttrium	89-1	41351220	40472547	40496319	40773362	1.23	cps
Yttrium	89-2	3152089	3137756	3126237	3138694	0.41	cps
Zinc	66-2	673	637	657	656	2.80	cps
Zirconium	90-1	1473	1530	1627	1543	5.02	cps
Zirconium	91-1	323	323	313	320	1.80	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3914	4017	4347	4093	5.53	cps
Antimony	121-1	84798	86200	83563	84854	1.55	cps
Arsenic	75-2	937	933	993	954	3.53	cps
Barium	135-1	110577	109723	108208	109502	1.10	cps
Barium	137-1	188122	188622	185268	187337	0.97	cps
Beryllium	9-1	16007	16297	15703	16002	1.86	cps
Bismuth	209-1	19749028	18405277	20246828	19467044	4.89	cps
Bismuth	209-2	9234016	8120264	7956738	8437006	8.24	cps
Bromine	81-1	12459	12676	12412	12516	1.12	cps
Cadmium	108-1	830	883	957	890	7.15	cps
Cadmium	106-1	13907	13193	14281	13794	4.01	cps
Cadmium	111-1	20105	19481	20061	19882	1.75	cps
Calcium	43-1	87222	86374	86152	86583	0.65	cps
Calcium	44-1	1505267	1469040	1460906	1478404	1.60	cps
Carbon	12-1	4412075	4279817	4288399	4326764	1.71	cps
Carbon	12-2	26951	27135	27539	27209	1.11	cps
Chlorine	35-1	2323797	2615359	2729543	2556233	8.19	cps
Chlorine	35-2	11638	11805	12095	11846	1.95	cps
Chromium	52-2	22311	22471	22825	22536	1.17	cps
Cobalt	59-2	20268	20842	20495	20535	1.41	cps
Copper	63-2	37526	37787	38044	37786	0.69	cps
Dysprosium	156-1	40	33	20	31	32.73	cps
Dysprosium	156-2	17	3	7	9	78.08	cps
Erbium	164-1	127	143	150	140	8.58	cps
Erbium	164-2	67	57	53	59	11.79	cps
Gadolinium	160-1	197	133	207	179	22.23	cps
Gadolinium	160-2	40	30	17	29	40.51	cps
Holmium	165-1	32478347	31419926	33748524	32548932	3.58	cps
Holmium	165-2	13015446	11304864	11074930	11798413	8.99	cps
Indium	115-1	26983082	25866942	27741762	26863929	3.51	cps
Indium	115-2	3301353	2848556	2800288	2983399	9.26	cps
Iron	54-2	88026	89981	89750	89252	1.20	cps
Iron	56-2	1649075	1667266	1688201	1668181	1.17	cps
Iron	57-2	40207	40197	40340	40248	0.20	cps
Krypton	83-1	330	357	310	332	7.05	cps
Lead	206-1	35676	34967	34733	35125	1.40	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30847	31311	31381	31180	0.93	cps
Lead	208-1	141541	141991	140583	141372	0.51	cps
Lithium	6-1	12417522	11266159	12639452	12107711	6.09	cps
Magnesium	24-2	339964	342976	345218	342720	0.77	cps
Manganese	55-2	4631	4557	4597	4595	0.80	cps
Molybdenum	94-1	97325	96240	94649	96071	1.40	cps
Molybdenum	95-1	118916	120003	116383	118434	1.57	cps
Molybdenum	96-1	130355	131583	127898	129945	1.44	cps
Molybdenum	97-1	72310	73232	71938	72493	0.92	cps
Molybdenum	98-1	188398	190786	186502	188562	1.14	cps
Neodymium	150-1	23	13	37	24	47.91	cps
Neodymium	150-2	3	13	0	6	124.93	cps
Nickel	60-2	6472	6288	6055	6271	3.33	cps
Phosphorus	31-2	387	377	363	376	3.12	cps
Potassium	39-2	239235	241598	243176	241336	0.82	cps
Rhodium	103-1	25324710	24131464	26231637	25229270	4.18	cps
Rhodium	103-2	11279088	9765533	9481234	10175285	9.50	cps
Scandium	45-1	20113832	19568218	20867594	20183215	3.23	cps
Scandium	45-2	454771	402102	390155	415676	8.27	cps
Selenium	82-1	3677	3534	3713	3641	2.61	cps
Selenium	77-2	50	77	63	63	21.06	cps
Selenium	78-2	267	243	197	236	15.13	cps
Silicon	28-1	1114150	1101469	1105951	1107190	0.58	cps
Silver	107-1	55836	56241	54895	55657	1.24	cps
Silver	109-1	52971	53025	53437	53144	0.48	cps
Sodium	23-2	797687	796932	800705	798441	0.25	cps
Strontium	86-1	16393	15896	15826	16038	1.93	cps
Strontium	88-1	136910	138000	137364	137425	0.40	cps
Sulfur	34-1	691884	697279	702329	697164	0.75	cps
Terbium	159-1	32690935	31333337	34253428	32759233	4.46	cps
Terbium	159-2	12521762	11016110	10697745	11411872	8.54	cps
Thallium	203-1	41958	42991	42362	42437	1.23	cps
Thallium	205-1	100650	101973	99817	100813	1.08	cps
Tin	118-1	187617	186381	184324	186107	0.89	cps
Titanium	47-1	10094	9863	9677	9878	2.11	cps
Uranium	238-1	132566	132580	130741	131963	0.80	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:18:57	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	41009	42968	42433	42136	2.40	cps
Ytterbium	172-1	173	187	230	197	15.07	cps
Ytterbium	172-2	80	87	103	90	13.35	cps
Ytterbium	176-1	3954	3677	4177	3936	6.37	cps
Ytterbium	176-2	1003	710	887	867	17.04	cps
Yttrium	89-1	42586524	41074154	44473571	42711416	3.99	cps
Yttrium	89-2	3653194	3245475	3130249	3342973	8.22	cps
Zinc	66-2	9213	9250	8870	9111	2.30	cps
Zirconium	90-1	81307	81448	80140	80965	0.89	cps
Zirconium	91-1	17364	17705	17214	17428	1.44	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100	77	97	91	13.85	cps
Antimony	121-1	87	90	87	88	2.19	cps
Arsenic	75-2	7	10	7	8	24.71	cps
Barium	135-1	157	137	103	132	20.38	cps
Barium	137-1	180	210	177	189	9.72	cps
Beryllium	9-1	270	263	273	269	1.91	cps
Bismuth	209-1	19092075	18439656	18672354	18734695	1.76	cps
Bismuth	209-2	7318799	7563398	7497758	7459985	1.70	cps
Bromine	81-1	12496	12499	12559	12518	0.29	cps
Cadmium	108-1	27	20	37	28	30.20	cps
Cadmium	106-1	12549	12189	12039	12259	2.14	cps
Cadmium	111-1	8786	8528	8408	8574	2.25	cps
Calcium	43-1	1040	953	950	981	5.20	cps
Calcium	44-1	26899	27176	26965	27013	0.54	cps
Carbon	12-1	4544053	4490961	4501508	4512174	0.62	cps
Carbon	12-2	28371	28701	28514	28529	0.58	cps
Chlorine	35-1	452802	429810	408268	430293	5.18	cps
Chlorine	35-2	1600	1587	1443	1543	5.63	cps
Chromium	52-2	2754	2630	2654	2679	2.45	cps
Cobalt	59-2	130	67	107	101	31.68	cps
Copper	63-2	3984	3851	3631	3822	4.67	cps
Dysprosium	156-1	13	23	17	18	28.64	cps
Dysprosium	156-2	0	7	13	7	99.98	cps
Erbium	164-1	130	100	130	120	14.43	cps
Erbium	164-2	30	50	50	43	26.65	cps
Gadolinium	160-1	187	197	167	183	8.33	cps
Gadolinium	160-2	43	33	60	46	29.58	cps
Holmium	165-1	31259390	31015450	30715680	30996840	0.88	cps
Holmium	165-2	10435831	10537738	10653980	10542517	1.04	cps
Indium	115-1	25755570	25672964	26184948	25871161	1.06	cps
Indium	115-2	2586488	2671822	2664998	2641103	1.80	cps
Iron	54-2	813	873	827	838	3.76	cps
Iron	56-2	11298	11068	11658	11341	2.62	cps
Iron	57-2	247	347	280	291	17.49	cps
Krypton	83-1	323	313	310	316	2.20	cps
Lead	206-1	1453	1530	1533	1506	3.01	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1320	1397	1373	1363	2.88	cps
Lead	208-1	6087	6031	6054	6057	0.47	cps
Lithium	6-1	11618935	12042325	11682183	11781148	1.94	cps
Magnesium	24-2	1053	1100	1130	1094	3.53	cps
Manganese	55-2	287	267	243	266	8.17	cps
Molybdenum	94-1	787	893	857	846	6.41	cps
Molybdenum	95-1	567	553	643	588	8.26	cps
Molybdenum	96-1	643	637	597	626	4.04	cps
Molybdenum	97-1	317	260	297	291	9.87	cps
Molybdenum	98-1	743	753	770	756	1.78	cps
Neodymium	150-1	17	13	37	22	56.80	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	830	850	813	831	2.21	cps
Phosphorus	31-2	117	147	153	139	14.06	cps
Potassium	39-2	18796	18582	18716	18698	0.58	cps
Rhodium	103-1	24178527	24435685	24419575	24344596	0.59	cps
Rhodium	103-2	9117771	9317093	9124790	9186551	1.23	cps
Scandium	45-1	19678587	19148398	19000501	19275829	1.85	cps
Scandium	45-2	365517	369134	375612	370088	1.38	cps
Selenium	82-1	-40	-7	10	-12	-208.45	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	20	17	17	18	10.81	cps
Silicon	28-1	809454	801501	813753	808236	0.77	cps
Silver	107-1	553	487	413	484	14.46	cps
Silver	109-1	387	377	290	351	15.14	cps
Sodium	23-2	83872	83312	82917	83367	0.58	cps
Strontium	86-1	577	577	600	584	2.30	cps
Strontium	88-1	667	643	627	646	3.11	cps
Sulfur	34-1	688524	691833	685975	688777	0.43	cps
Terbium	159-1	32214430	31090578	31425053	31576687	1.83	cps
Terbium	159-2	10064064	10266386	10228557	10186336	1.06	cps
Thallium	203-1	337	333	377	349	6.91	cps
Thallium	205-1	800	747	773	773	3.45	cps
Tin	118-1	4247	4765	4067	4360	8.30	cps
Titanium	47-1	440	467	507	471	7.12	cps
Uranium	238-1	27	43	30	33	26.45	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BL	Instrumnet Name :	P8
Client Sample ID :	PBS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:22:15	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	10	10	14	53.28	cps
Ytterbium	172-1	167	123	137	142	15.60	cps
Ytterbium	172-2	97	80	57	78	25.83	cps
Ytterbium	176-1	3457	3751	3384	3531	5.50	cps
Ytterbium	176-2	610	667	677	651	5.52	cps
Yttrium	89-1	40789274	40855491	40979583	40874782	0.24	cps
Yttrium	89-2	2950185	3046584	3008730	3001833	1.62	cps
Zinc	66-2	613	603	637	618	2.77	cps
Zirconium	90-1	1733	1617	1740	1697	4.09	cps
Zirconium	91-1	340	347	270	319	13.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3931	3937	4074	3981	2.03	cps
Antimony	121-1	83520	82218	81266	82335	1.37	cps
Arsenic	75-2	917	967	890	924	4.21	cps
Barium	135-1	107623	104852	105275	105917	1.41	cps
Barium	137-1	183451	181410	182294	182385	0.56	cps
Beryllium	9-1	15547	15256	15501	15435	1.01	cps
Bismuth	209-1	19161849	19144669	19479898	19262139	0.98	cps
Bismuth	209-2	8102760	8040886	8181625	8108424	0.87	cps
Bromine	81-1	11682	12372	11665	11906	3.39	cps
Cadmium	108-1	830	800	970	867	10.47	cps
Cadmium	106-1	13350	13483	13687	13507	1.26	cps
Cadmium	111-1	19298	19506	19499	19434	0.61	cps
Calcium	43-1	80661	80135	80728	80508	0.40	cps
Calcium	44-1	1404373	1385552	1368701	1386209	1.29	cps
Carbon	12-1	4416379	4403370	4280048	4366599	1.72	cps
Carbon	12-2	27890	27502	27886	27760	0.80	cps
Chlorine	35-1	2375412	2651866	2748168	2591816	7.47	cps
Chlorine	35-2	12082	12185	12479	12249	1.68	cps
Chromium	52-2	21833	21840	21870	21848	0.09	cps
Cobalt	59-2	19533	19363	19934	19610	1.49	cps
Copper	63-2	37292	35822	36587	36567	2.01	cps
Dysprosium	156-1	40	20	23	28	38.58	cps
Dysprosium	156-2	0	13	13	9	86.60	cps
Erbium	164-1	167	137	153	152	9.87	cps
Erbium	164-2	63	60	57	60	5.55	cps
Gadolinium	160-1	220	207	157	194	17.17	cps
Gadolinium	160-2	33	47	27	36	28.64	cps
Holmium	165-1	32147516	31097823	32192551	31812630	1.95	cps
Holmium	165-2	11270027	11367022	11377107	11338052	0.52	cps
Indium	115-1	26760958	25936335	27175065	26624119	2.37	cps
Indium	115-2	2867721	2821003	2866038	2851587	0.93	cps
Iron	54-2	86104	86879	86600	86528	0.45	cps
Iron	56-2	1583419	1613632	1639016	1612022	1.73	cps
Iron	57-2	38505	39408	39722	39212	1.61	cps
Krypton	83-1	363	380	273	339	16.93	cps
Lead	206-1	34860	35067	33934	34621	1.74	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30108	29921	29684	29905	0.71	cps
Lead	208-1	137681	137494	137964	137713	0.17	cps
Lithium	6-1	12260467	11833614	12299374	12131152	2.13	cps
Magnesium	24-2	331281	331927	333217	332142	0.30	cps
Manganese	55-2	4671	4494	4454	4540	2.54	cps
Molybdenum	94-1	93378	92723	93153	93084	0.36	cps
Molybdenum	95-1	115777	114869	114621	115089	0.53	cps
Molybdenum	96-1	126900	124862	126140	125967	0.82	cps
Molybdenum	97-1	71245	70756	69767	70589	1.07	cps
Molybdenum	98-1	182706	182788	181714	182403	0.33	cps
Neodymium	150-1	27	13	20	20	33.35	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	5978	5908	5811	5899	1.42	cps
Phosphorus	31-2	377	340	353	357	5.20	cps
Potassium	39-2	233526	233218	236003	234249	0.65	cps
Rhodium	103-1	24472702	24876158	24970560	24773140	1.07	cps
Rhodium	103-2	9849809	9773531	9642085	9755142	1.08	cps
Scandium	45-1	19662490	19447380	19925486	19678452	1.22	cps
Scandium	45-2	397093	399018	400164	398758	0.39	cps
Selenium	82-1	3507	3393	3519	3473	2.00	cps
Selenium	77-2	90	70	47	69	31.48	cps
Selenium	78-2	257	260	233	250	5.81	cps
Silicon	28-1	1104802	1092168	1098499	1098490	0.58	cps
Silver	107-1	54413	54092	53992	54166	0.41	cps
Silver	109-1	51981	51462	51519	51654	0.55	cps
Sodium	23-2	774289	773870	774650	774270	0.05	cps
Strontium	86-1	16093	15876	15629	15866	1.46	cps
Strontium	88-1	133531	133548	133023	133367	0.22	cps
Sulfur	34-1	674369	674632	681860	676954	0.63	cps
Terbium	159-1	32633834	31616115	32883122	32377690	2.07	cps
Terbium	159-2	11171606	10985854	11020672	11059377	0.89	cps
Thallium	203-1	40887	40717	40938	40847	0.28	cps
Thallium	205-1	98685	97624	96959	97756	0.89	cps
Tin	118-1	181408	181152	178785	180448	0.80	cps
Titanium	47-1	9907	9720	9143	9590	4.15	cps
Uranium	238-1	131414	129101	127129	129215	1.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165606BS	Instrumnet Name :	P8
Client Sample ID :	LCS606	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:25:35	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40841	41293	40945	41026	0.58	cps
Ytterbium	172-1	147	183	137	156	15.80	cps
Ytterbium	172-2	67	77	103	82	23.05	cps
Ytterbium	176-1	3791	3787	3931	3836	2.13	cps
Ytterbium	176-2	700	827	780	769	8.33	cps
Yttrium	89-1	41846341	41326036	42763062	41978480	1.73	cps
Yttrium	89-2	3235171	3193838	3171049	3200019	1.02	cps
Zinc	66-2	8169	8446	8132	8249	2.08	cps
Zirconium	90-1	80533	78518	79412	79487	1.27	cps
Zirconium	91-1	17671	17775	17304	17584	1.41	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	97	103	67	89	21.97	cps
Antimony	121-1	83	67	80	77	11.50	cps
Arsenic	75-2	0	3	0	1	173.21	cps
Barium	135-1	113	87	123	108	17.59	cps
Barium	137-1	187	147	180	171	12.52	cps
Beryllium	9-1	255	253	280	263	5.84	cps
Bismuth	209-1	18659689	17606821	19332532	18533014	4.69	cps
Bismuth	209-2	8017311	7932513	7979938	7976588	0.53	cps
Bromine	81-1	12125	12135	12249	12170	0.56	cps
Cadmium	108-1	47	30	23	33	36.07	cps
Cadmium	106-1	11348	11498	12065	11637	3.25	cps
Cadmium	111-1	7928	8031	8436	8132	3.30	cps
Calcium	43-1	847	963	910	907	6.44	cps
Calcium	44-1	26164	26117	25844	26042	0.66	cps
Carbon	12-1	4468438	4537206	4489334	4498326	0.78	cps
Carbon	12-2	28414	27696	28474	28195	1.54	cps
Chlorine	35-1	417877	397819	381047	398914	4.62	cps
Chlorine	35-2	1410	1363	1470	1415	3.78	cps
Chromium	52-2	2567	2400	2720	2562	6.25	cps
Cobalt	59-2	87	140	130	119	23.84	cps
Copper	63-2	3721	3854	3714	3763	2.10	cps
Dysprosium	156-1	20	23	30	24	20.83	cps
Dysprosium	156-2	3	0	10	4	114.60	cps
Erbium	164-1	137	140	147	141	3.61	cps
Erbium	164-2	43	60	33	46	29.58	cps
Gadolinium	160-1	163	180	127	157	17.41	cps
Gadolinium	160-2	17	10	40	22	70.88	cps
Holmium	165-1	31243426	29912605	31483384	30879805	2.74	cps
Holmium	165-2	11272872	10941713	10881846	11032143	1.91	cps
Indium	115-1	26061331	24816418	26384864	25754204	3.22	cps
Indium	115-2	2814472	2774887	2733005	2774121	1.47	cps
Iron	54-2	890	897	830	872	4.21	cps
Iron	56-2	10791	10831	10948	10856	0.75	cps
Iron	57-2	200	273	237	237	15.49	cps
Krypton	83-1	283	300	290	291	2.88	cps
Lead	206-1	1457	1493	1660	1537	7.05	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1320	1263	1290	1291	2.20	cps
Lead	208-1	5801	5734	6027	5854	2.63	cps
Lithium	6-1	11675088	11509519	12216532	11800380	3.13	cps
Magnesium	24-2	1060	1120	1113	1098	3.00	cps
Manganese	55-2	233	213	240	229	6.06	cps
Molybdenum	94-1	840	793	890	841	5.75	cps
Molybdenum	95-1	483	553	553	530	7.63	cps
Molybdenum	96-1	673	577	687	646	9.30	cps
Molybdenum	97-1	257	297	277	277	7.23	cps
Molybdenum	98-1	760	737	817	771	5.34	cps
Neodymium	150-1	17	20	13	17	20.01	cps
Neodymium	150-2	7	10	0	6	91.64	cps
Nickel	60-2	723	770	820	771	6.27	cps
Phosphorus	31-2	100	167	150	139	24.98	cps
Potassium	39-2	18348	18105	18225	18226	0.67	cps
Rhodium	103-1	24097975	23172088	24511475	23927179	2.87	cps
Rhodium	103-2	9857755	9526952	9496689	9627132	2.08	cps
Scandium	45-1	19556541	18681126	19327116	19188261	2.37	cps
Scandium	45-2	399631	379264	381351	386749	2.90	cps
Selenium	82-1	-17	-23	17	-8	-275.61	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	13	30	7	17	72.11	cps
Silicon	28-1	802288	801067	804240	802532	0.20	cps
Silver	107-1	683	517	510	570	17.23	cps
Silver	109-1	390	430	290	370	19.49	cps
Sodium	23-2	80762	80397	81569	80909	0.74	cps
Strontium	86-1	563	607	480	550	11.71	cps
Strontium	88-1	580	653	623	619	5.96	cps
Sulfur	34-1	673217	675380	675035	674544	0.17	cps
Terbium	159-1	32376916	30463670	32379637	31740074	3.48	cps
Terbium	159-2	11041585	10879811	10681103	10867500	1.66	cps
Thallium	203-1	267	267	280	271	2.84	cps
Thallium	205-1	667	620	663	650	4.01	cps
Tin	118-1	4504	4274	4107	4295	4.64	cps
Titanium	47-1	457	437	470	454	3.69	cps
Uranium	238-1	37	10	47	31	60.93	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BL	Instrumnet Name :	P8
Client Sample ID :	PBS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:28:53	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	7	23	18	54.11	cps
Ytterbium	172-1	150	113	160	141	17.41	cps
Ytterbium	172-2	103	67	43	71	42.53	cps
Ytterbium	176-1	3474	3340	3601	3472	3.75	cps
Ytterbium	176-2	587	640	687	638	7.85	cps
Yttrium	89-1	40959994	39588412	41594557	40714321	2.52	cps
Yttrium	89-2	3233989	3064845	3047999	3115611	3.30	cps
Zinc	66-2	607	653	583	614	5.80	cps
Zirconium	90-1	1613	1577	1713	1635	4.33	cps
Zirconium	91-1	290	337	333	320	8.14	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4041	3957	3837	3945	2.59	cps
Antimony	121-1	86337	84921	84911	85390	0.96	cps
Arsenic	75-2	1007	1010	1040	1019	1.80	cps
Barium	135-1	108127	108652	108315	108365	0.25	cps
Barium	137-1	185086	185980	188660	186575	1.00	cps
Beryllium	9-1	16176	15755	15839	15923	1.40	cps
Bismuth	209-1	19095749	19041845	19008893	19048829	0.23	cps
Bismuth	209-2	7917690	7972625	7880632	7923649	0.58	cps
Bromine	81-1	11959	12155	11942	12019	0.99	cps
Cadmium	108-1	940	863	837	880	6.10	cps
Cadmium	106-1	13684	13630	13123	13479	2.30	cps
Cadmium	111-1	19858	20208	19502	19856	1.78	cps
Calcium	43-1	82599	82991	82907	82832	0.25	cps
Calcium	44-1	1375403	1397937	1378067	1383802	0.89	cps
Carbon	12-1	4353029	4327177	4316605	4332270	0.43	cps
Carbon	12-2	27643	27569	27690	27634	0.22	cps
Chlorine	35-1	2462350	2727238	2830143	2673244	7.10	cps
Chlorine	35-2	12305	12549	12112	12322	1.78	cps
Chromium	52-2	22514	22388	22364	22422	0.36	cps
Cobalt	59-2	20759	20772	20582	20704	0.51	cps
Copper	63-2	37519	37346	37653	37506	0.41	cps
Dysprosium	156-1	27	20	43	30	40.05	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	157	153	153	154	1.24	cps
Erbium	164-2	47	53	43	48	10.66	cps
Gadolinium	160-1	183	180	167	177	4.99	cps
Gadolinium	160-2	33	47	27	36	28.64	cps
Holmium	165-1	32379811	31803869	31495340	31893006	1.41	cps
Holmium	165-2	11175009	10891507	10812097	10959538	1.74	cps
Indium	115-1	27044386	26704015	26303972	26684124	1.39	cps
Indium	115-2	2816840	2757349	2802712	2792300	1.11	cps
Iron	54-2	90038	90846	88405	89763	1.39	cps
Iron	56-2	1654867	1672928	1669845	1665880	0.58	cps
Iron	57-2	41249	40694	40019	40654	1.52	cps
Krypton	83-1	360	260	250	290	20.97	cps
Lead	206-1	34803	34763	34990	34852	0.35	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30790	30469	30255	30505	0.88	cps
Lead	208-1	141447	139869	140305	140540	0.58	cps
Lithium	6-1	11977251	11882714	11750053	11870006	0.96	cps
Magnesium	24-2	343853	336637	341402	340631	1.08	cps
Manganese	55-2	4858	4687	5014	4853	3.37	cps
Molybdenum	94-1	96129	95878	96072	96026	0.14	cps
Molybdenum	95-1	118761	116463	118221	117815	1.02	cps
Molybdenum	96-1	130113	129342	129235	129563	0.37	cps
Molybdenum	97-1	72300	72431	71081	71937	1.04	cps
Molybdenum	98-1	185044	184536	184952	184844	0.15	cps
Neodymium	150-1	23	20	37	27	33.08	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	6372	6058	5928	6119	3.73	cps
Phosphorus	31-2	420	380	373	391	6.45	cps
Potassium	39-2	239354	236724	235386	237155	0.85	cps
Rhodium	103-1	25324537	24595729	24640063	24853443	1.64	cps
Rhodium	103-2	9720795	9527267	9524974	9591012	1.17	cps
Scandium	45-1	19828688	20090801	18881261	19600250	3.25	cps
Scandium	45-2	389862	384917	381635	385471	1.07	cps
Selenium	82-1	3610	3614	3757	3660	2.29	cps
Selenium	77-2	53	73	70	66	16.35	cps
Selenium	78-2	237	217	283	246	13.93	cps
Silicon	28-1	1110481	1088546	1091137	1096721	1.09	cps
Silver	107-1	56080	56940	55722	56247	1.11	cps
Silver	109-1	52249	52921	53323	52831	1.03	cps
Sodium	23-2	785008	782270	787175	784817	0.31	cps
Strontium	86-1	16260	16353	16033	16215	1.02	cps
Strontium	88-1	134908	136099	134255	135087	0.69	cps
Sulfur	34-1	683750	681434	681862	682349	0.18	cps
Terbium	159-1	32727615	32689338	32702158	32706370	0.06	cps
Terbium	159-2	10950507	10787565	10701998	10813356	1.17	cps
Thallium	203-1	42182	41717	42255	42051	0.69	cps
Thallium	205-1	100066	99555	99579	99733	0.29	cps
Tin	118-1	186080	184559	184816	185152	0.44	cps
Titanium	47-1	9763	9847	9690	9767	0.80	cps
Uranium	238-1	131654	132704	132691	132350	0.46	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	PB165563BS	Instrumnet Name :	P8
Client Sample ID :	LCS563	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	42062	41995	42175	42077	0.22	cps
Ytterbium	172-1	160	163	157	160	2.08	cps
Ytterbium	172-2	77	57	63	66	15.54	cps
Ytterbium	176-1	3751	3961	3751	3821	3.17	cps
Ytterbium	176-2	763	720	670	718	6.51	cps
Yttrium	89-1	42107139	41980829	41847442	41978470	0.31	cps
Yttrium	89-2	3183484	3139820	3067958	3130421	1.86	cps
Zinc	66-2	8096	8643	8513	8417	3.39	cps
Zirconium	90-1	81951	80553	82032	81512	1.02	cps
Zirconium	91-1	17454	17985	17638	17693	1.52	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	998809	998093	992993	996632	0.32	cps
Antimony	121-1	1646250	1632409	1671921	1650194	1.21	cps
Arsenic	75-2	78403	77626	77237	77755	0.76	cps
Barium	135-1	693847	696500	683811	691386	0.97	cps
Barium	137-1	1191668	1196742	1184792	1191067	0.50	cps
Beryllium	9-1	3850	3804	3807	3820	0.67	cps
Bismuth	209-1	19002403	18744728	19071181	18939437	0.91	cps
Bismuth	209-2	7490623	8049697	7834173	7791498	3.62	cps
Bromine	81-1	62000	65281	65894	64391	3.25	cps
Cadmium	108-1	1163	1173	1197	1178	1.45	cps
Cadmium	106-1	14668	14207	14685	14520	1.87	cps
Cadmium	111-1	18620	18510	18561	18564	0.29	cps
Calcium	43-1	1801022	1779676	1761953	1780884	1.10	cps
Calcium	44-1	29191842	28526187	28724573	28814201	1.19	cps
Carbon	12-1	7482994	7533451	7665684	7560710	1.25	cps
Carbon	12-2	49436	49496	48995	49309	0.56	cps
Chlorine	35-1	216301370	229984477	233423463	226569770	4.00	cps
Chlorine	35-2	1042215	1051316	1059617	1051049	0.83	cps
Chromium	52-2	174207	170381	169282	171290	1.51	cps
Cobalt	59-2	322326	322419	325743	323496	0.60	cps
Copper	63-2	9544488	9403347	9419506	9455780	0.82	cps
Dysprosium	156-1	50880	51636	50294	50937	1.32	cps
Dysprosium	156-2	17064	16550	16894	16836	1.56	cps
Erbium	164-1	43792	43093	43444	43443	0.80	cps
Erbium	164-2	14762	15012	14598	14791	1.41	cps
Gadolinium	160-1	46317	46805	46026	46382	0.85	cps
Gadolinium	160-2	19551	19341	19942	19611	1.55	cps
Holmium	165-1	32246419	31585736	31846774	31892976	1.04	cps
Holmium	165-2	10354020	11631498	11127981	11037833	5.83	cps
Indium	115-1	26138374	26686724	26647211	26490770	1.15	cps
Indium	115-2	2628329	2962513	2781482	2790774	5.99	cps
Iron	54-2	7676486	7653522	7589593	7639867	0.59	cps
Iron	56-2	139263641	139905271	138317691	139162201	0.57	cps
Iron	57-2	3583830	3446771	3564503	3531701	2.10	cps
Krypton	83-1	523	573	537	544	4.76	cps
Lead	206-1	6166915	6158161	6118244	6147773	0.42	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5298338	5311351	5185538	5265076	1.31	cps
Lead	208-1	24299170	24246952	23875661	24140594	0.96	cps
Lithium	6-1	11760048	11607354	11679669	11682357	0.65	cps
Magnesium	24-2	2134908	2070204	2141331	2115481	1.86	cps
Manganese	55-2	508512	509002	505120	507544	0.42	cps
Molybdenum	94-1	156060	157251	155134	156149	0.68	cps
Molybdenum	95-1	80881	80216	79995	80364	0.57	cps
Molybdenum	96-1	104194	106635	105896	105575	1.19	cps
Molybdenum	97-1	49468	49237	49096	49267	0.38	cps
Molybdenum	98-1	127728	130268	127519	128505	1.19	cps
Neodymium	150-1	75394	76191	75923	75836	0.54	cps
Neodymium	150-2	19508	19154	19711	19457	1.45	cps
Nickel	60-2	74118	73030	74467	73871	1.01	cps
Phosphorus	31-2	4331	4541	4337	4403	2.71	cps
Potassium	39-2	473820	478260	473035	475038	0.59	cps
Rhodium	103-1	24307045	24160001	24529271	24332106	0.76	cps
Rhodium	103-2	8960036	9913449	9396994	9423493	5.06	cps
Scandium	45-1	20350429	19697745	20349699	20132624	1.87	cps
Scandium	45-2	377460	411460	396858	395259	4.32	cps
Selenium	82-1	358	364	391	371	4.77	cps
Selenium	77-2	137	113	120	123	9.75	cps
Selenium	78-2	110	107	70	96	23.23	cps
Silicon	28-1	13710412	15435793	13684830	14277012	7.03	cps
Silver	107-1	94689	92880	92507	93359	1.25	cps
Silver	109-1	89324	90427	89636	89795	0.63	cps
Sodium	23-2	7174473	6966249	7048279	7063000	1.49	cps
Strontium	86-1	1539224	1531414	1543168	1537935	0.39	cps
Strontium	88-1	13056691	13221031	13278236	13185319	0.87	cps
Sulfur	34-1	1434340	1455936	1433172	1441149	0.89	cps
Terbium	159-1	32304023	31958709	32553490	32272074	0.93	cps
Terbium	159-2	10248940	11381702	10908097	10846246	5.25	cps
Thallium	203-1	9087	9430	9484	9333	2.31	cps
Thallium	205-1	21755	22603	22653	22337	2.26	cps
Tin	118-1	529028	537843	535516	534129	0.86	cps
Titanium	47-1	2516914	2428575	2479710	2475066	1.79	cps
Uranium	238-1	190358	185281	188966	188202	1.39	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01	Instrumnet Name :	P8
Client Sample ID :	MJNKP7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:35:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	191158	188461	187339	188986	1.04	cps
Ytterbium	172-1	12646	12760	12406	12604	1.43	cps
Ytterbium	172-2	5184	5044	5358	5196	3.02	cps
Ytterbium	176-1	12066	11599	11919	11861	2.01	cps
Ytterbium	176-2	4351	4271	4321	4314	0.94	cps
Yttrium	89-1	42764182	42353272	43253236	42790230	1.05	cps
Yttrium	89-2	3061533	3327125	3223885	3204181	4.18	cps
Zinc	66-2	1305122	1294474	1301032	1300210	0.41	cps
Zirconium	90-1	303130	310435	307460	307008	1.20	cps
Zirconium	91-1	69231	69134	67746	68704	1.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	991646	999668	993933	995082	0.42	cps
Antimony	121-1	1647225	1665226	1622167	1644872	1.31	cps
Arsenic	75-2	77210	78996	77234	77813	1.32	cps
Barium	135-1	698282	698590	701091	699321	0.22	cps
Barium	137-1	1212029	1206513	1189985	1202843	0.95	cps
Beryllium	9-1	3823	3837	3775	3812	0.84	cps
Bismuth	209-1	19098681	18992573	18536519	18875924	1.58	cps
Bismuth	209-2	7867445	7901093	7998408	7922315	0.86	cps
Bromine	81-1	63520	66025	66741	65428	2.59	cps
Cadmium	108-1	1270	1247	1210	1242	2.43	cps
Cadmium	106-1	14584	14805	14534	14641	0.98	cps
Cadmium	111-1	18777	19154	18961	18964	0.99	cps
Calcium	43-1	1831855	1788199	1820438	1813497	1.25	cps
Calcium	44-1	29222279	29219925	29513135	29318446	0.58	cps
Carbon	12-1	7807846	7631713	7737120	7725560	1.15	cps
Carbon	12-2	49440	49831	49607	49626	0.40	cps
Chlorine	35-1	231356043	236774136	243181850	237104010	2.50	cps
Chlorine	35-2	1051808	1070114	1054070	1058664	0.94	cps
Chromium	52-2	170429	170743	167436	169536	1.08	cps
Cobalt	59-2	319562	324668	326622	323617	1.13	cps
Copper	63-2	9643894	9523742	9563567	9577068	0.64	cps
Dysprosium	156-1	50542	50993	50385	50640	0.62	cps
Dysprosium	156-2	16811	16414	16934	16719	1.63	cps
Erbium	164-1	43558	43384	42889	43277	0.80	cps
Erbium	164-2	14999	14725	14722	14815	1.07	cps
Gadolinium	160-1	47595	46899	46307	46933	1.37	cps
Gadolinium	160-2	19755	19621	19284	19553	1.24	cps
Holmium	165-1	32152440	30994438	31774723	31640534	1.87	cps
Holmium	165-2	11191393	11172756	11116787	11160312	0.35	cps
Indium	115-1	27140929	26884981	26133179	26719696	1.96	cps
Indium	115-2	2836730	2854509	2870372	2853870	0.59	cps
Iron	54-2	7745850	7470388	7569816	7595351	1.84	cps
Iron	56-2	139361801	139057238	137315315	138578118	0.80	cps
Iron	57-2	3446996	3592826	3498765	3512862	2.10	cps
Krypton	83-1	453	543	523	507	9.33	cps
Lead	206-1	6160089	6116061	6186745	6154298	0.58	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5327165	5171241	5213937	5237448	1.54	cps
Lead	208-1	24424462	23920853	23945155	24096823	1.18	cps
Lithium	6-1	11843505	11700243	11422891	11655546	1.83	cps
Magnesium	24-2	2120022	2108132	2147142	2125099	0.94	cps
Manganese	55-2	509072	502707	499965	503915	0.93	cps
Molybdenum	94-1	156193	154575	155586	155451	0.53	cps
Molybdenum	95-1	82114	81286	81517	81639	0.52	cps
Molybdenum	96-1	106736	106851	104936	106174	1.01	cps
Molybdenum	97-1	50418	50097	50709	50408	0.61	cps
Molybdenum	98-1	128492	129074	130261	129275	0.70	cps
Neodymium	150-1	76238	74947	75863	75683	0.88	cps
Neodymium	150-2	19321	19150	19127	19199	0.55	cps
Nickel	60-2	71709	71043	71820	71524	0.59	cps
Phosphorus	31-2	4274	4671	4531	4492	4.48	cps
Potassium	39-2	476728	477490	477492	477237	0.09	cps
Rhodium	103-1	25239728	24495278	24705200	24813402	1.55	cps
Rhodium	103-2	9630971	9529437	9568451	9576286	0.53	cps
Scandium	45-1	20460783	20100190	20565398	20375457	1.20	cps
Scandium	45-2	400448	398843	397133	398808	0.42	cps
Selenium	82-1	441	338	341	373	15.74	cps
Selenium	77-2	87	170	137	131	31.99	cps
Selenium	78-2	90	93	147	110	28.91	cps
Silicon	28-1	14406427	14778897	13632580	14272635	4.10	cps
Silver	107-1	90622	93343	93149	92371	1.64	cps
Silver	109-1	89274	87539	88824	88545	1.02	cps
Sodium	23-2	7174280	7096463	7093036	7121260	0.65	cps
Strontium	86-1	1513294	1509434	1519807	1514178	0.35	cps
Strontium	88-1	13137309	13170084	13013337	13106910	0.63	cps
Sulfur	34-1	1429024	1445996	1411845	1428955	1.19	cps
Terbium	159-1	32803193	32257675	32021990	32360952	1.24	cps
Terbium	159-2	10928444	10909429	11000654	10946175	0.44	cps
Thallium	203-1	9257	9720	10164	9714	4.67	cps
Thallium	205-1	21758	22854	23535	22716	3.95	cps
Tin	118-1	542015	543225	530234	538492	1.33	cps
Titanium	47-1	2465708	2510492	2533400	2503200	1.38	cps
Uranium	238-1	188522	188912	187306	188247	0.45	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-02	Instrumnet Name :	P8
Client Sample ID :	MJNKP7D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:38:37	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	190050	188303	185789	188047	1.14	cps
Ytterbium	172-1	12539	12523	12192	12418	1.58	cps
Ytterbium	172-2	5318	4931	5334	5194	4.39	cps
Ytterbium	176-1	11912	11392	11735	11680	2.27	cps
Ytterbium	176-2	4067	4221	4164	4151	1.87	cps
Yttrium	89-1	43423923	43235751	41951979	42870551	1.87	cps
Yttrium	89-2	3300025	3250752	3259824	3270200	0.80	cps
Zinc	66-2	1443296	1454525	1450184	1449335	0.39	cps
Zirconium	90-1	311631	316304	308772	312236	1.22	cps
Zirconium	91-1	69194	69482	69134	69270	0.27	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	189690	186287	189356	188444	1.00	cps
Antimony	121-1	306026	307758	302916	305567	0.80	cps
Arsenic	75-2	14821	14161	14464	14482	2.28	cps
Barium	135-1	131878	135038	134850	133922	1.32	cps
Barium	137-1	230263	227624	228356	228748	0.60	cps
Beryllium	9-1	931	917	935	927	1.01	cps
Bismuth	209-1	19477025	18855057	18987628	19106570	1.71	cps
Bismuth	209-2	7905725	8544216	8759898	8403280	5.29	cps
Bromine	81-1	22986	23787	23320	23364	1.72	cps
Cadmium	108-1	187	300	227	238	24.17	cps
Cadmium	106-1	12903	12903	12676	12827	1.02	cps
Cadmium	111-1	10735	10782	10618	10712	0.79	cps
Calcium	43-1	337626	332201	334968	334932	0.81	cps
Calcium	44-1	5647631	5675712	5611792	5645045	0.57	cps
Carbon	12-1	5146198	5150748	5096732	5131226	0.58	cps
Carbon	12-2	32944	32292	31581	32272	2.11	cps
Chlorine	35-1	53779496	54282876	54682939	54248437	0.83	cps
Chlorine	35-2	228455	229671	228946	229024	0.27	cps
Chromium	52-2	33817	32694	33853	33455	1.97	cps
Cobalt	59-2	62215	60983	61582	61593	1.00	cps
Copper	63-2	1889760	1876399	1824430	1863529	1.85	cps
Dysprosium	156-1	9764	9594	9477	9611	1.50	cps
Dysprosium	156-2	3157	3127	3317	3200	3.19	cps
Erbium	164-1	8389	8436	8700	8508	1.97	cps
Erbium	164-2	2774	2777	2850	2800	1.55	cps
Gadolinium	160-1	9006	9137	9033	9059	0.76	cps
Gadolinium	160-2	3744	3711	3504	3653	3.56	cps
Holmium	165-1	31958752	31608180	31759131	31775355	0.55	cps
Holmium	165-2	11157406	12182783	12270320	11870170	5.21	cps
Indium	115-1	27063638	26470260	26964121	26832673	1.18	cps
Indium	115-2	2814090	3056503	3129166	2999920	5.50	cps
Iron	54-2	1494082	1474591	1457446	1475373	1.24	cps
Iron	56-2	26562695	26453592	26746425	26587571	0.56	cps
Iron	57-2	650571	644039	648324	647645	0.51	cps
Krypton	83-1	347	423	330	367	13.57	cps
Lead	206-1	1136555	1136448	1126002	1133002	0.54	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	976979	969542	979633	975384	0.54	cps
Lead	208-1	4625537	4582370	4600466	4602791	0.47	cps
Lithium	6-1	12101733	11704333	11446460	11750842	2.81	cps
Magnesium	24-2	409557	398720	397277	401851	1.67	cps
Manganese	55-2	97691	95621	96909	96740	1.08	cps
Molybdenum	94-1	30220	29578	29785	29861	1.10	cps
Molybdenum	95-1	15899	15769	15726	15798	0.57	cps
Molybdenum	96-1	20435	20539	20418	20464	0.32	cps
Molybdenum	97-1	9453	9540	9770	9588	1.71	cps
Molybdenum	98-1	24669	25513	24839	25007	1.79	cps
Neodymium	150-1	14798	14021	14638	14486	2.83	cps
Neodymium	150-2	3767	3664	3801	3744	1.90	cps
Nickel	60-2	14437	14918	14688	14681	1.64	cps
Phosphorus	31-2	907	857	990	918	7.34	cps
Potassium	39-2	108151	106570	107761	107494	0.77	cps
Rhodium	103-1	25468592	24942650	25111330	25174191	1.07	cps
Rhodium	103-2	9800240	10340482	10824610	10321778	4.96	cps
Scandium	45-1	20212159	20021287	20534761	20256069	1.28	cps
Scandium	45-2	400287	430296	437481	422688	4.67	cps
Selenium	82-1	107	7	101	72	77.99	cps
Selenium	77-2	17	20	20	19	10.18	cps
Selenium	78-2	27	37	20	28	30.20	cps
Silicon	28-1	3446402	3093320	3189839	3243187	5.63	cps
Silver	107-1	18039	18489	18389	18306	1.29	cps
Silver	109-1	17521	16797	17318	17212	2.17	cps
Sodium	23-2	1527409	1469676	1431516	1476200	3.27	cps
Strontium	86-1	285627	285346	284968	285314	0.12	cps
Strontium	88-1	2583864	2575670	2554877	2571470	0.58	cps
Sulfur	34-1	831917	834458	828907	831761	0.33	cps
Terbium	159-1	32730243	32047268	32104730	32294080	1.17	cps
Terbium	159-2	10822256	11892023	12120367	11611548	5.97	cps
Thallium	203-1	2284	2210	2284	2259	1.87	cps
Thallium	205-1	5485	5531	5061	5359	4.83	cps
Tin	118-1	105852	106473	107161	106495	0.62	cps
Titanium	47-1	466777	467554	462935	465756	0.53	cps
Uranium	238-1	35977	36198	36215	36130	0.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKP7L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:41:43	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	35795	34525	35875	35398	2.14	cps
Ytterbium	172-1	2610	2427	2520	2519	3.64	cps
Ytterbium	172-2	990	1117	980	1029	7.40	cps
Ytterbium	176-1	5154	5338	5198	5230	1.83	cps
Ytterbium	176-2	1407	1423	1413	1415	0.59	cps
Yttrium	89-1	43534279	42806123	42961959	43100787	0.89	cps
Yttrium	89-2	3236553	3467904	3528114	3410857	4.51	cps
Zinc	66-2	250465	246736	247441	248214	0.80	cps
Zirconium	90-1	58031	57950	56578	57519	1.42	cps
Zirconium	91-1	12723	12813	12946	12827	0.88	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1041914	1041282	1029259	1037485	0.69	cps
Antimony	121-1	2102168	2110078	2067571	2093272	1.08	cps
Arsenic	75-2	81128	80052	81993	81058	1.20	cps
Barium	135-1	2977423	2953831	2968190	2966481	0.40	cps
Barium	137-1	4992445	4990367	5008946	4997253	0.20	cps
Beryllium	9-1	69558	69615	69601	69591	0.04	cps
Bismuth	209-1	18757999	18589739	18508414	18618717	0.68	cps
Bismuth	209-2	7911126	7819311	7821183	7850540	0.67	cps
Bromine	81-1	59204	63017	63962	62061	4.06	cps
Cadmium	108-1	4534	4454	4738	4575	3.19	cps
Cadmium	106-1	19300	19647	19477	19475	0.89	cps
Cadmium	111-1	71565	72155	72049	71923	0.44	cps
Calcium	43-1	1781774	1785266	1768447	1778496	0.50	cps
Calcium	44-1	29320006	29210444	28643024	29057825	1.25	cps
Carbon	12-1	7473867	7592547	7658870	7575095	1.24	cps
Carbon	12-2	49005	50128	50041	49725	1.26	cps
Chlorine	35-1	243492036	256333976	261403856	253743290	3.64	cps
Chlorine	35-2	1136816	1132672	1148394	1139294	0.72	cps
Chromium	52-2	387530	384845	386389	386254	0.35	cps
Cobalt	59-2	1312377	1325491	1327944	1321937	0.63	cps
Copper	63-2	9919731	9907395	9871983	9899703	0.25	cps
Dysprosium	156-1	49572	50301	49732	49868	0.77	cps
Dysprosium	156-2	16504	16494	16500	16499	0.03	cps
Erbium	164-1	42294	43026	42845	42722	0.89	cps
Erbium	164-2	14661	14868	14575	14702	1.03	cps
Gadolinium	160-1	46718	46230	46608	46519	0.55	cps
Gadolinium	160-2	19571	19387	19377	19445	0.56	cps
Holmium	165-1	31635455	31453352	31576992	31555266	0.29	cps
Holmium	165-2	11223164	11199410	11235264	11219279	0.16	cps
Indium	115-1	27447858	26441267	26475797	26788307	2.13	cps
Indium	115-2	2836632	2870914	2832073	2846540	0.75	cps
Iron	54-2	7610972	7654949	7544523	7603481	0.73	cps
Iron	56-2	138155838	137728638	140960895	138948457	1.26	cps
Iron	57-2	3549585	3517980	3562588	3543384	0.65	cps
Krypton	83-1	490	523	577	530	8.25	cps
Lead	206-1	6089404	6231343	6147478	6156075	1.16	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5258657	5269180	5261730	5263189	0.10	cps
Lead	208-1	24232379	24185318	23909515	24109071	0.72	cps
Lithium	6-1	11759839	11552620	11511711	11608057	1.15	cps
Magnesium	24-2	2133595	2128625	2126713	2129644	0.17	cps
Manganese	55-2	712791	720874	727711	720459	1.04	cps
Molybdenum	94-1	156904	155883	153938	155575	0.97	cps
Molybdenum	95-1	81524	81289	81457	81423	0.15	cps
Molybdenum	96-1	103300	105802	106064	105055	1.45	cps
Molybdenum	97-1	50013	49923	48608	49515	1.59	cps
Molybdenum	98-1	127594	128794	127698	128029	0.52	cps
Neodymium	150-1	74163	75323	76033	75173	1.26	cps
Neodymium	150-2	19074	19050	19054	19059	0.07	cps
Nickel	60-2	348991	349874	349359	349408	0.13	cps
Phosphorus	31-2	4467	4504	4557	4510	1.00	cps
Potassium	39-2	473615	478289	481390	477765	0.82	cps
Rhodium	103-1	24887089	24767555	24630522	24761722	0.52	cps
Rhodium	103-2	9655878	9638725	9669617	9654740	0.16	cps
Scandium	45-1	20667978	20254010	20372000	20431330	1.04	cps
Scandium	45-2	397068	399250	405849	400722	1.14	cps
Selenium	82-1	7570	7570	7423	7521	1.13	cps
Selenium	77-2	230	250	257	246	5.65	cps
Selenium	78-2	493	487	533	504	5.00	cps
Silicon	28-1	14515306	13777557	13336614	13876492	4.29	cps
Silver	107-1	363066	367477	363046	364529	0.70	cps
Silver	109-1	350051	350568	346437	349019	0.64	cps
Sodium	23-2	7182102	7333801	7206086	7240663	1.13	cps
Strontium	86-1	1558678	1560053	1540089	1552940	0.72	cps
Strontium	88-1	13278736	13356351	13048381	13227823	1.21	cps
Sulfur	34-1	1405102	1408660	1436440	1416734	1.21	cps
Terbium	159-1	32772930	32157661	31955374	32295321	1.32	cps
Terbium	159-2	11177792	10997295	10866709	11013932	1.42	cps
Thallium	203-1	207563	205742	208786	207364	0.74	cps
Thallium	205-1	497937	497482	493997	496472	0.43	cps
Tin	118-1	529178	539987	530340	533168	1.11	cps
Titanium	47-1	2551046	2512558	2511902	2525169	0.89	cps
Uranium	238-1	190628	186402	187065	188031	1.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5163-03	Instrumnet Name :	P8
Client Sample ID :	MJNKP7S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:44:53	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	606516	608047	613274	609279	0.58	cps
Ytterbium	172-1	11742	12252	12319	12104	2.61	cps
Ytterbium	172-2	5188	5171	5004	5121	1.98	cps
Ytterbium	176-1	11915	11552	11405	11624	2.26	cps
Ytterbium	176-2	4031	4171	4194	4132	2.14	cps
Yttrium	89-1	43967941	43192284	43565646	43575290	0.89	cps
Yttrium	89-2	3256345	3235354	3269462	3253721	0.53	cps
Zinc	66-2	1533817	1538404	1539894	1537372	0.21	cps
Zirconium	90-1	304376	303363	309030	305590	0.99	cps
Zirconium	91-1	67620	68959	67817	68132	1.06	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	565243	569393	584416	573018	1.76	cps
Antimony	121-1	244697	246338	245728	245588	0.34	cps
Arsenic	75-2	19176	19380	19564	19373	1.00	cps
Barium	135-1	171298	170168	169641	170369	0.50	cps
Barium	137-1	295215	292923	293034	293724	0.44	cps
Beryllium	9-1	2800	2811	2817	2809	0.30	cps
Bismuth	209-1	19930518	18273097	18548754	18917456	4.69	cps
Bismuth	209-2	9806435	8499018	7918813	8741422	11.06	cps
Bromine	81-1	53753	56145	55241	55046	2.20	cps
Cadmium	108-1	557	420	517	498	14.12	cps
Cadmium	106-1	14067	12749	12693	13170	5.91	cps
Cadmium	111-1	12898	12064	12080	12347	3.86	cps
Calcium	43-1	501596	508881	501436	503971	0.84	cps
Calcium	44-1	8337881	8603404	8355652	8432312	1.76	cps
Carbon	12-1	6915085	6929175	6883104	6909121	0.34	cps
Carbon	12-2	44159	43414	43956	43843	0.88	cps
Chlorine	35-1	161982451	164621624	164483148	163695741	0.91	cps
Chlorine	35-2	701674	712812	719251	711245	1.25	cps
Chromium	52-2	111202	111873	112565	111880	0.61	cps
Cobalt	59-2	90499	92407	92921	91942	1.39	cps
Copper	63-2	3591444	3640582	3649374	3627133	0.86	cps
Dysprosium	156-1	42410	41896	41852	42053	0.74	cps
Dysprosium	156-2	13597	13687	13644	13643	0.33	cps
Erbium	164-1	33215	32781	32877	32957	0.69	cps
Erbium	164-2	11288	10991	11151	11144	1.33	cps
Gadolinium	160-1	38856	38769	37643	38423	1.76	cps
Gadolinium	160-2	15529	15496	16153	15726	2.35	cps
Holmium	165-1	34437822	30927880	31466925	32277543	5.86	cps
Holmium	165-2	14035449	12200774	11106553	12447592	11.89	cps
Indium	115-1	28874839	26060393	26625755	27186996	5.48	cps
Indium	115-2	3574318	3089938	2831841	3165366	11.91	cps
Iron	54-2	3102568	3198208	3185910	3162229	1.65	cps
Iron	56-2	56133031	57280276	57935586	57116297	1.60	cps
Iron	57-2	1440998	1455421	1459272	1451897	0.66	cps
Krypton	83-1	443	433	463	447	3.42	cps
Lead	206-1	2030403	2046760	2005640	2027601	1.02	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1728026	1773559	1730010	1743865	1.48	cps
Lead	208-1	7994378	8120116	7935039	8016511	1.18	cps
Lithium	6-1	12154558	11090888	11177663	11474369	5.15	cps
Magnesium	24-2	1352481	1372925	1392517	1372641	1.46	cps
Manganese	55-2	245887	253634	251377	250299	1.59	cps
Molybdenum	94-1	80210	81021	80573	80601	0.50	cps
Molybdenum	95-1	53365	53121	54212	53566	1.07	cps
Molybdenum	96-1	65785	66906	65674	66122	1.03	cps
Molybdenum	97-1	33056	33444	33470	33323	0.70	cps
Molybdenum	98-1	83043	85129	85098	84423	1.42	cps
Neodymium	150-1	65288	65100	65211	65200	0.14	cps
Neodymium	150-2	16357	16133	16410	16300	0.90	cps
Nickel	60-2	46680	45874	47469	46674	1.71	cps
Phosphorus	31-2	3757	3911	4004	3891	3.20	cps
Potassium	39-2	299782	299139	301853	300258	0.47	cps
Rhodium	103-1	26495642	24347539	24801532	25214904	4.49	cps
Rhodium	103-2	12089222	10654132	9495202	10746185	12.09	cps
Scandium	45-1	21867974	20088247	20257365	20737862	4.74	cps
Scandium	45-2	500672	435002	403071	446248	11.15	cps
Selenium	82-1	183	316	246	249	26.80	cps
Selenium	77-2	113	97	100	103	8.54	cps
Selenium	78-2	57	87	83	76	21.76	cps
Silicon	28-1	5811634	6207851	5802722	5940736	3.89	cps
Silver	107-1	38878	38577	38173	38543	0.92	cps
Silver	109-1	36462	36111	35927	36166	0.75	cps
Sodium	23-2	6941360	6964619	7142789	7016256	1.57	cps
Strontium	86-1	346841	350817	348944	348867	0.57	cps
Strontium	88-1	3166279	3182950	3103550	3150926	1.33	cps
Sulfur	34-1	1287631	1263708	1270681	1274007	0.97	cps
Terbium	159-1	35116369	31734773	32043494	32964878	5.67	cps
Terbium	159-2	13712828	11924359	11000161	12212449	11.29	cps
Thallium	203-1	8750	8696	8716	8721	0.31	cps
Thallium	205-1	20820	21114	20667	20867	1.09	cps
Tin	118-1	148593	148124	146844	147854	0.61	cps
Titanium	47-1	1864480	1916202	1890920	1890534	1.37	cps
Uranium	238-1	165620	164689	164044	164784	0.48	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01	Instrumnet Name :	P8
Client Sample ID :	MJNKR9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:47:57	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	134690	137304	137287	136427	1.10	cps
Ytterbium	172-1	8506	8803	8313	8541	2.89	cps
Ytterbium	172-2	3367	3437	3357	3387	1.29	cps
Ytterbium	176-1	9600	8676	8973	9083	5.19	cps
Ytterbium	176-2	2987	2944	2814	2915	3.10	cps
Yttrium	89-1	46924981	42890678	42436882	44084180	5.60	cps
Yttrium	89-2	4064193	3530394	3219091	3604559	11.86	cps
Zinc	66-2	237686	236530	238007	237408	0.33	cps
Zirconium	90-1	140746	142483	138773	140667	1.32	cps
Zirconium	91-1	30016	31516	29925	30486	2.93	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	584537	590651	589130	588106	0.54	cps
Antimony	121-1	251222	250429	250358	250670	0.19	cps
Arsenic	75-2	19731	19680	19534	19648	0.52	cps
Barium	135-1	172439	170515	172568	171841	0.67	cps
Barium	137-1	297057	296605	297630	297097	0.17	cps
Beryllium	9-1	2790	2787	2817	2798	0.59	cps
Bismuth	209-1	19167536	18760813	18497352	18808567	1.80	cps
Bismuth	209-2	8062017	7547766	7678926	7762903	3.44	cps
Bromine	81-1	53348	55506	55556	54803	2.30	cps
Cadmium	108-1	463	400	510	458	12.06	cps
Cadmium	106-1	12689	12886	12112	12562	3.20	cps
Cadmium	111-1	12039	12324	11502	11955	3.49	cps
Calcium	43-1	509900	505925	507133	507653	0.40	cps
Calcium	44-1	8434423	8415467	8314003	8387964	0.77	cps
Carbon	12-1	6782761	6767018	6826213	6791997	0.45	cps
Carbon	12-2	42391	42826	42889	42702	0.63	cps
Chlorine	35-1	157413801	159914961	160684371	159337711	1.07	cps
Chlorine	35-2	685986	694841	690210	690346	0.64	cps
Chromium	52-2	115414	115700	116456	115857	0.46	cps
Cobalt	59-2	94370	92280	94531	93727	1.34	cps
Copper	63-2	3731491	3726608	3726869	3728323	0.07	cps
Dysprosium	156-1	42003	42390	42742	42378	0.87	cps
Dysprosium	156-2	14041	14034	13584	13886	1.89	cps
Erbium	164-1	33409	33729	33495	33544	0.49	cps
Erbium	164-2	11345	11699	11665	11570	1.69	cps
Gadolinium	160-1	38499	39378	38292	38723	1.49	cps
Gadolinium	160-2	15866	16674	16430	16323	2.54	cps
Holmium	165-1	32605161	31396472	31274615	31758749	2.32	cps
Holmium	165-2	11373634	10794439	10990958	11053010	2.66	cps
Indium	115-1	26560997	26611859	25634255	26269037	2.09	cps
Indium	115-2	2907407	2732774	2752382	2797521	3.42	cps
Iron	54-2	3235513	3226860	3237748	3233374	0.18	cps
Iron	56-2	58532391	58207312	58990391	58576698	0.67	cps
Iron	57-2	1491877	1515153	1473766	1493598	1.39	cps
Krypton	83-1	503	507	537	516	3.56	cps
Lead	206-1	2121204	2050343	2038667	2070071	2.16	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1767168	1778284	1736046	1760500	1.24	cps
Lead	208-1	8275856	8117271	7996999	8130042	1.72	cps
Lithium	6-1	11527757	11129826	10950234	11202606	2.64	cps
Magnesium	24-2	1407208	1381883	1382246	1390446	1.04	cps
Manganese	55-2	254109	258413	256312	256278	0.84	cps
Molybdenum	94-1	80793	82147	81286	81409	0.84	cps
Molybdenum	95-1	54034	53643	54185	53954	0.52	cps
Molybdenum	96-1	67118	66337	66461	66639	0.63	cps
Molybdenum	97-1	33540	34493	33146	33727	2.05	cps
Molybdenum	98-1	85324	86222	85132	85559	0.68	cps
Neodymium	150-1	65800	67170	65167	66046	1.55	cps
Neodymium	150-2	16787	16497	16620	16635	0.88	cps
Nickel	60-2	47770	48074	48339	48061	0.59	cps
Phosphorus	31-2	3974	3791	3901	3888	2.37	cps
Potassium	39-2	304202	307273	305619	305698	0.50	cps
Rhodium	103-1	25274537	25224520	24198408	24899155	2.44	cps
Rhodium	103-2	9876938	9193891	9442746	9504525	3.64	cps
Scandium	45-1	20876843	20176805	20019364	20357671	2.24	cps
Scandium	45-2	402358	389455	384919	392244	2.31	cps
Selenium	82-1	166	199	123	163	23.43	cps
Selenium	77-2	90	50	87	76	29.38	cps
Selenium	78-2	63	60	53	59	8.65	cps
Silicon	28-1	5855184	5835169	6184519	5958291	3.29	cps
Silver	107-1	38233	38193	38313	38246	0.16	cps
Silver	109-1	35703	36408	36518	36210	1.22	cps
Sodium	23-2	6967867	6956689	6833971	6919509	1.07	cps
Strontium	86-1	354724	348266	350221	351070	0.94	cps
Strontium	88-1	3214490	3102616	3114898	3144001	1.95	cps
Sulfur	34-1	1274744	1273045	1251876	1266555	1.01	cps
Terbium	159-1	32990699	32465749	31433211	32296553	2.45	cps
Terbium	159-2	11132536	10419893	10710775	10754401	3.33	cps
Thallium	203-1	8336	8526	8756	8540	2.46	cps
Thallium	205-1	20647	20182	20306	20378	1.18	cps
Tin	118-1	148785	147454	147403	147881	0.53	cps
Titanium	47-1	1915239	1890753	1928570	1911521	1.00	cps
Uranium	238-1	163679	163737	166354	164590	0.93	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-02	Instrumnet Name :	P8
Client Sample ID :	MJNKR9D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:51:04	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	140821	142098	140397	141105	0.63	cps
Ytterbium	172-1	8283	8613	8696	8531	2.56	cps
Ytterbium	172-2	3474	3404	3344	3407	1.91	cps
Ytterbium	176-1	9290	9020	9250	9187	1.59	cps
Ytterbium	176-2	3124	3074	2904	3034	3.80	cps
Yttrium	89-1	44287504	42460297	41904550	42884117	2.91	cps
Yttrium	89-2	3269462	3133095	3126737	3176431	2.54	cps
Zinc	66-2	242898	244287	242759	243315	0.35	cps
Zirconium	90-1	143396	144301	144096	143931	0.33	cps
Zirconium	91-1	31562	31145	32023	31577	1.39	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	113949	110499	112554	112334	1.54	cps
Antimony	121-1	47352	47653	47606	47537	0.34	cps
Arsenic	75-2	3731	3661	4041	3811	5.31	cps
Barium	135-1	32940	33361	32803	33035	0.88	cps
Barium	137-1	57568	57328	57287	57394	0.26	cps
Beryllium	9-1	730	714	771	738	3.99	cps
Bismuth	209-1	19689593	19003909	19113886	19269129	1.91	cps
Bismuth	209-2	7999354	8004046	7920430	7974610	0.59	cps
Bromine	81-1	21143	21480	21193	21272	0.86	cps
Cadmium	108-1	77	63	107	82	27.00	cps
Cadmium	106-1	12075	12149	11702	11975	2.00	cps
Cadmium	111-1	9062	9117	8747	8975	2.23	cps
Calcium	43-1	97470	97752	97199	97474	0.28	cps
Calcium	44-1	1671227	1692332	1675982	1679847	0.66	cps
Carbon	12-1	4977945	5015517	4850172	4947878	1.75	cps
Carbon	12-2	30515	30138	30996	30550	1.41	cps
Chlorine	35-1	36796824	37133414	36688254	36872831	0.63	cps
Chlorine	35-2	158141	156768	155185	156698	0.94	cps
Chromium	52-2	23052	23796	22822	23223	2.19	cps
Cobalt	59-2	18058	17351	18082	17830	2.33	cps
Copper	63-2	695075	696818	690888	694260	0.44	cps
Dysprosium	156-1	8133	7852	8109	8031	1.94	cps
Dysprosium	156-2	2740	2737	2644	2707	2.03	cps
Erbium	164-1	6702	6518	6392	6537	2.39	cps
Erbium	164-2	2187	2237	2220	2215	1.15	cps
Gadolinium	160-1	7729	7656	7662	7682	0.53	cps
Gadolinium	160-2	2984	3117	3280	3127	4.75	cps
Holmium	165-1	31979504	32063033	31638850	31893796	0.70	cps
Holmium	165-2	11087564	11174252	11019774	11093864	0.70	cps
Indium	115-1	27346116	26589482	26818052	26917884	1.44	cps
Indium	115-2	2871792	2898173	2900273	2890079	0.55	cps
Iron	54-2	608132	599682	599130	602315	0.84	cps
Iron	56-2	11435997	11221852	11383867	11347239	0.98	cps
Iron	57-2	278536	272510	276312	275786	1.10	cps
Krypton	83-1	330	367	370	356	6.24	cps
Lead	206-1	378252	377074	373462	376263	0.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	329759	325930	326108	327266	0.66	cps
Lead	208-1	1509669	1493605	1491010	1498094	0.67	cps
Lithium	6-1	11479367	11305786	11137410	11307521	1.51	cps
Magnesium	24-2	265007	261142	265265	263805	0.88	cps
Manganese	55-2	49505	48907	48907	49106	0.70	cps
Molybdenum	94-1	15572	15122	15088	15261	1.77	cps
Molybdenum	95-1	11121	10848	10708	10892	1.93	cps
Molybdenum	96-1	12936	12996	12706	12879	1.19	cps
Molybdenum	97-1	6645	6552	6602	6599	0.71	cps
Molybdenum	98-1	16894	17131	17418	17147	1.53	cps
Neodymium	150-1	12866	12923	12823	12871	0.39	cps
Neodymium	150-2	3240	3177	3247	3222	1.20	cps
Nickel	60-2	9500	9543	9773	9606	1.53	cps
Phosphorus	31-2	870	913	957	913	4.74	cps
Potassium	39-2	75577	76079	75020	75559	0.70	cps
Rhodium	103-1	25993700	25272191	25268663	25511518	1.64	cps
Rhodium	103-2	9909913	9898186	10010047	9939382	0.62	cps
Scandium	45-1	20425501	20487492	20518803	20477266	0.23	cps
Scandium	45-2	405994	399999	397989	401327	1.04	cps
Selenium	82-1	107	-27	73	51	136.69	cps
Selenium	77-2	13	40	10	21	77.90	cps
Selenium	78-2	7	33	33	24	62.97	cps
Silicon	28-1	1808587	1895838	3144058	2282828	32.73	cps
Silver	107-1	7575	7642	7736	7651	1.05	cps
Silver	109-1	7082	7125	7185	7131	0.73	cps
Sodium	23-2	1491251	1453152	1469854	1471419	1.30	cps
Strontium	86-1	67599	67612	65606	66939	1.72	cps
Strontium	88-1	586349	575572	573565	578495	1.19	cps
Sulfur	34-1	767944	763564	767768	766425	0.32	cps
Terbium	159-1	33074364	32490570	32216406	32593780	1.34	cps
Terbium	159-2	11018574	10912695	10854337	10928535	0.76	cps
Thallium	203-1	1997	1994	2004	1998	0.25	cps
Thallium	205-1	4934	4718	4694	4782	2.77	cps
Tin	118-1	30905	30190	30167	30421	1.38	cps
Titanium	47-1	356010	352454	347335	351933	1.24	cps
Uranium	238-1	32889	31509	31599	31999	2.41	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKR9L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 15:54:13	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	26788	26965	26815	26856	0.36	cps
Ytterbium	172-1	1703	1853	1773	1777	4.22	cps
Ytterbium	172-2	880	790	847	839	5.42	cps
Ytterbium	176-1	4764	4611	4571	4649	2.20	cps
Ytterbium	176-2	1037	1143	1133	1105	5.33	cps
Yttrium	89-1	44058318	43355831	42060118	43158089	2.35	cps
Yttrium	89-2	3358953	3334400	3238034	3310462	1.93	cps
Zinc	66-2	48091	46824	46814	47243	1.56	cps
Zirconium	90-1	27053	26452	26766	26757	1.12	cps
Zirconium	91-1	5941	5781	5611	5778	2.86	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	604918	601172	596234	600775	0.73	cps
Antimony	121-1	666519	662365	657699	662194	0.67	cps
Arsenic	75-2	22398	22348	22899	22548	1.35	cps
Barium	135-1	2445424	2425219	2334439	2401694	2.46	cps
Barium	137-1	4181828	4042160	4066264	4096751	1.82	cps
Beryllium	9-1	68875	68396	67650	68307	0.90	cps
Bismuth	209-1	18646183	18458106	18959386	18687892	1.36	cps
Bismuth	209-2	7786550	7995471	7913610	7898543	1.33	cps
Bromine	81-1	51009	52598	53016	52208	2.03	cps
Cadmium	108-1	3901	3991	3724	3872	3.50	cps
Cadmium	106-1	17475	17805	17918	17733	1.30	cps
Cadmium	111-1	66128	66072	65260	65820	0.74	cps
Calcium	43-1	491213	492118	487394	490241	0.51	cps
Calcium	44-1	8372802	8216543	8210493	8266613	1.11	cps
Carbon	12-1	6591307	6670498	6786106	6682637	1.47	cps
Carbon	12-2	41963	42893	42638	42498	1.13	cps
Chlorine	35-1	148375481	156205508	159387138	154656042	3.66	cps
Chlorine	35-2	683440	695299	694524	691088	0.96	cps
Chromium	52-2	323062	325517	322756	323778	0.47	cps
Cobalt	59-2	1077294	1087850	1075763	1080302	0.61	cps
Copper	63-2	3920294	4004600	3927800	3950898	1.18	cps
Dysprosium	156-1	41906	41274	40999	41393	1.12	cps
Dysprosium	156-2	13720	13634	13273	13543	1.75	cps
Erbium	164-1	32613	32089	32620	32441	0.94	cps
Erbium	164-2	10945	10961	10955	10953	0.08	cps
Gadolinium	160-1	38445	38576	37636	38219	1.33	cps
Gadolinium	160-2	15542	15860	15212	15538	2.08	cps
Holmium	165-1	31066010	31811950	31821942	31566634	1.37	cps
Holmium	165-2	11037876	11381780	11204638	11208098	1.53	cps
Indium	115-1	26429217	27138038	27307939	26958398	1.73	cps
Indium	115-2	2855880	2889435	2826838	2857385	1.10	cps
Iron	54-2	3178272	3143772	3188383	3170142	0.74	cps
Iron	56-2	57140259	56752016	56310087	56734121	0.73	cps
Iron	57-2	1458188	1432678	1453512	1448126	0.94	cps
Krypton	83-1	513	480	460	484	5.56	cps
Lead	206-1	2117950	2057260	2025870	2067027	2.26	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1800555	1759582	1732642	1764259	1.94	cps
Lead	208-1	8224007	8081785	8022945	8109579	1.27	cps
Lithium	6-1	10877742	11226147	11008547	11037479	1.59	cps
Magnesium	24-2	1330724	1321965	1303957	1318882	1.03	cps
Manganese	55-2	459656	459227	458204	459029	0.16	cps
Molybdenum	94-1	79885	76878	76476	77746	2.40	cps
Molybdenum	95-1	52873	52392	52147	52471	0.70	cps
Molybdenum	96-1	65034	64268	64773	64692	0.60	cps
Molybdenum	97-1	32892	32435	32144	32490	1.16	cps
Molybdenum	98-1	83110	81970	82061	82380	0.77	cps
Neodymium	150-1	64749	64078	64477	64435	0.52	cps
Neodymium	150-2	16250	16290	16170	16237	0.38	cps
Nickel	60-2	317777	319818	317693	318429	0.38	cps
Phosphorus	31-2	3971	4014	4084	4023	1.42	cps
Potassium	39-2	294239	294767	293594	294200	0.20	cps
Rhodium	103-1	24432974	25078727	24896925	24802875	1.34	cps
Rhodium	103-2	9871284	9824202	9591957	9762481	1.53	cps
Scandium	45-1	20521007	21045863	20734081	20766984	1.27	cps
Scandium	45-2	396994	402570	401156	400240	0.72	cps
Selenium	82-1	7137	7367	7197	7234	1.65	cps
Selenium	77-2	233	187	217	212	11.14	cps
Selenium	78-2	473	517	540	510	6.63	cps
Silicon	28-1	5976424	5853369	7436319	6422037	13.71	cps
Silver	107-1	307790	310560	308284	308878	0.48	cps
Silver	109-1	299195	299416	299738	299450	0.09	cps
Sodium	23-2	6740463	6713474	6720209	6724715	0.21	cps
Strontium	86-1	342315	345931	342274	343507	0.61	cps
Strontium	88-1	3181632	3079053	3090651	3117112	1.80	cps
Sulfur	34-1	1266212	1263233	1244583	1258009	0.93	cps
Terbium	159-1	32589715	32873962	32585710	32683129	0.51	cps
Terbium	159-2	10811124	11150857	11052826	11004936	1.59	cps
Thallium	203-1	209273	204844	208060	207393	1.10	cps
Thallium	205-1	491615	486446	494242	490768	0.81	cps
Tin	118-1	143914	144254	146164	144777	0.84	cps
Titanium	47-1	1927886	1899129	1887528	1904848	1.09	cps
Uranium	238-1	159770	157911	159480	159054	0.63	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5165-03	Instrumnet Name :	P8
Client Sample ID :	MJNKR9S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 15:57:27	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	538885	549285	543310	543826	0.96	cps
Ytterbium	172-1	8516	8186	7959	8220	3.41	cps
Ytterbium	172-2	3567	3460	3501	3509	1.54	cps
Ytterbium	176-1	9073	8920	8993	8995	0.85	cps
Ytterbium	176-2	2950	2860	2957	2923	1.85	cps
Yttrium	89-1	43210718	43984584	44777956	43991086	1.78	cps
Yttrium	89-2	3405397	3268597	3262870	3312288	2.44	cps
Zinc	66-2	307698	314099	307342	309713	1.23	cps
Zirconium	90-1	138261	137171	135081	136838	1.18	cps
Zirconium	91-1	30283	30533	29267	30028	2.23	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4384647	4405172	4414655	4401491	0.35	cps
Antimony	121-1	9138226	9341198	9260112	9246512	1.10	cps
Arsenic	75-2	191881	190405	191786	191357	0.43	cps
Barium	135-1	12268820	12389844	12350154	12336272	0.50	cps
Barium	137-1	20580069	21078934	20945732	20868245	1.24	cps
Beryllium	9-1	3135200	3123890	3026703	3095264	1.93	cps
Bismuth	209-1	13749164	16237623	16558331	15515039	9.91	cps
Bismuth	209-2	6784896	6812886	6858144	6818642	0.54	cps
Bromine	81-1	14087	14244	13567	13966	2.54	cps
Cadmium	108-1	182315	185756	181297	183123	1.28	cps
Cadmium	106-1	268926	276615	270757	272099	1.48	cps
Cadmium	111-1	2293187	2332441	2322270	2315966	0.88	cps
Calcium	43-1	18276543	18292131	18286796	18285156	0.04	cps
Calcium	44-1	296944802	295820069	299322116	297362329	0.60	cps
Carbon	12-1	5553816	5724456	5720467	5666246	1.72	cps
Carbon	12-2	43688	43935	43691	43772	0.32	cps
Chlorine	35-1	8719605	8200899	7629939	8183481	6.66	cps
Chlorine	35-2	27576	27079	25816	26824	3.38	cps
Chromium	52-2	2325082	2327522	2331780	2328128	0.15	cps
Cobalt	59-2	4197300	4133241	4152155	4160899	0.79	cps
Copper	63-2	33029434	32660639	32772585	32820886	0.58	cps
Dysprosium	156-1	667	653	673	664	1.53	cps
Dysprosium	156-2	193	157	240	197	21.24	cps
Erbium	164-1	633	633	637	634	0.30	cps
Erbium	164-2	210	260	210	227	12.74	cps
Gadolinium	160-1	620	597	683	633	7.08	cps
Gadolinium	160-2	240	260	263	254	4.96	cps
Holmium	165-1	25890799	30050405	30102637	28681280	8.43	cps
Holmium	165-2	10371808	10424969	10425948	10407575	0.30	cps
Indium	115-1	20078076	23358591	23428318	22288328	8.59	cps
Indium	115-2	2465168	2474979	2518933	2486360	1.15	cps
Iron	54-2	23476150	23668365	23218327	23454281	0.96	cps
Iron	56-2	429907500	432874567	426356714	429712927	0.76	cps
Iron	57-2	10829620	10766779	10779974	10792124	0.31	cps
Krypton	83-1	547	427	367	447	20.52	cps
Lead	206-1	35995638	36478471	36106692	36193600	0.70	cps

500

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30843995	31389460	31854606	31362687	1.61	cps
Lead	208-1	141258675	143581474	145095279	143311809	1.35	cps
Lithium	6-1	8581360	10059363	9959286	9533336	8.66	cps
Magnesium	24-2	71527132	72087272	71559144	71724516	0.44	cps
Manganese	55-2	9562736	9708527	9573953	9615072	0.84	cps
Molybdenum	94-1	36873156	37594194	37279146	37248832	0.97	cps
Molybdenum	95-1	52904021	54276404	53546816	53575747	1.28	cps
Molybdenum	96-1	57735626	58729131	57824541	58096432	0.95	cps
Molybdenum	97-1	33055015	32903610	32968587	32975738	0.23	cps
Molybdenum	98-1	85001565	85763322	85311235	85358708	0.45	cps
Neodymium	150-1	1263	1293	1313	1290	1.95	cps
Neodymium	150-2	143	167	160	157	7.67	cps
Nickel	60-2	1235990	1226567	1225492	1229349	0.47	cps
Phosphorus	31-2	41185	39684	39928	40266	2.00	cps
Potassium	39-2	24350775	23970207	24658260	24326414	1.42	cps
Rhodium	103-1	17994154	21044493	20898108	19978918	8.61	cps
Rhodium	103-2	8080818	8071068	8050380	8067422	0.19	cps
Scandium	45-1	15425354	17998268	18196662	17206761	8.98	cps
Scandium	45-2	351140	356081	355926	354383	0.79	cps
Selenium	82-1	149971	151046	151413	150810	0.50	cps
Selenium	77-2	2720	2720	2724	2721	0.07	cps
Selenium	78-2	8769	9160	8783	8904	2.49	cps
Silicon	28-1	139658451	142117988	139177128	140317856	1.12	cps
Silver	107-1	11776125	12037207	11815276	11876203	1.19	cps
Silver	109-1	11113384	11140734	10928619	11060912	1.04	cps
Sodium	23-2	152598458	154911341	151690684	153066828	1.08	cps
Strontium	86-1	3531995	3524438	3480560	3512331	0.79	cps
Strontium	88-1	30018907	30496540	30074895	30196781	0.86	cps
Sulfur	34-1	1581598	1609006	1577854	1589486	1.07	cps
Terbium	159-1	25847814	30222470	30365118	28811801	8.91	cps
Terbium	159-2	10059502	10270364	10150398	10160088	1.04	cps
Thallium	203-1	9119232	9015912	9086238	9073794	0.58	cps
Thallium	205-1	21274084	21344273	21369777	21329378	0.23	cps
Tin	118-1	8026188	8153062	8068089	8082447	0.80	cps
Titanium	47-1	16669061	16727204	16790261	16728842	0.36	cps
Uranium	238-1	30229540	30827422	31001664	30686208	1.32	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:00:40	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1830958	1823832	1796757	1817183	0.99	cps
Ytterbium	172-1	753	717	873	781	10.49	cps
Ytterbium	172-2	277	383	297	319	17.78	cps
Ytterbium	176-1	47077	48217	47977	47757	1.26	cps
Ytterbium	176-2	15933	16557	16414	16301	2.00	cps
Yttrium	89-1	33367066	38844874	38797457	37003132	8.51	cps
Yttrium	89-2	2921903	2919206	2875926	2905678	0.89	cps
Zinc	66-2	3298405	3368142	3345477	3337341	1.07	cps
Zirconium	90-1	19411178	19637617	19321108	19456634	0.84	cps
Zirconium	91-1	4223438	4359353	4246284	4276358	1.70	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	163	153	180	166	8.13	cps
Antimony	121-1	3084	2570	2240	2631	16.15	cps
Arsenic	75-2	17	7	10	11	45.82	cps
Barium	135-1	503	337	263	368	33.44	cps
Barium	137-1	750	547	563	620	18.21	cps
Beryllium	9-1	974	902	739	872	13.85	cps
Bismuth	209-1	19092094	19027303	18943966	19021121	0.39	cps
Bismuth	209-2	7156712	7291755	7305336	7251268	1.13	cps
Bromine	81-1	13013	13200	13143	13118	0.73	cps
Cadmium	108-1	63	40	33	46	34.58	cps
Cadmium	106-1	12182	12316	12286	12261	0.57	cps
Cadmium	111-1	8717	8776	8763	8752	0.36	cps
Calcium	43-1	2067	1660	1457	1728	17.98	cps
Calcium	44-1	42269	38833	37413	39505	6.32	cps
Carbon	12-1	5163278	5121238	5130595	5138370	0.43	cps
Carbon	12-2	32726	31333	32115	32058	2.18	cps
Chlorine	35-1	4155718	3850012	3651651	3885794	6.53	cps
Chlorine	35-2	13276	12702	12002	12660	5.04	cps
Chromium	52-2	2230	2324	2150	2235	3.88	cps
Cobalt	59-2	183	200	163	182	10.07	cps
Copper	63-2	6021	5638	5775	5811	3.34	cps
Dysprosium	156-1	10	20	10	13	43.30	cps
Dysprosium	156-2	3	0	10	4	114.60	cps
Erbium	164-1	177	137	143	152	14.08	cps
Erbium	164-2	23	47	37	36	32.93	cps
Gadolinium	160-1	193	163	203	187	11.15	cps
Gadolinium	160-2	57	20	33	37	50.62	cps
Holmium	165-1	31443806	32042739	30857374	31447973	1.88	cps
Holmium	165-2	9914636	10101421	9854973	9957010	1.29	cps
Indium	115-1	26710902	26002698	26254018	26322539	1.36	cps
Indium	115-2	2503958	2521962	2562643	2529521	1.19	cps
Iron	54-2	1060	1227	1043	1110	9.13	cps
Iron	56-2	15192	16337	15934	15821	3.67	cps
Iron	57-2	407	330	263	333	21.52	cps
Krypton	83-1	280	267	297	281	5.35	cps
Lead	206-1	4457	3984	3394	3945	13.51	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3971	3377	3110	3486	12.63	cps
Lead	208-1	17742	15521	13973	15745	12.03	cps
Lithium	6-1	11064053	11112433	11234191	11136892	0.79	cps
Magnesium	24-2	1507	1700	1340	1516	11.89	cps
Manganese	55-2	420	423	347	397	10.92	cps
Molybdenum	94-1	4021	3117	2590	3243	22.31	cps
Molybdenum	95-1	5585	4044	2987	4205	31.06	cps
Molybdenum	96-1	5985	4091	3421	4499	29.56	cps
Molybdenum	97-1	3060	2300	1803	2388	26.51	cps
Molybdenum	98-1	8289	5538	4544	6124	31.68	cps
Neodymium	150-1	7	10	13	10	33.30	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	740	647	763	717	8.61	cps
Phosphorus	31-2	143	140	140	141	1.37	cps
Potassium	39-2	21756	21940	21322	21673	1.46	cps
Rhodium	103-1	24422964	24767555	25113642	24768054	1.39	cps
Rhodium	103-2	8729069	8611573	8918992	8753211	1.77	cps
Scandium	45-1	18984557	19454214	19343298	19260690	1.27	cps
Scandium	45-2	342053	345759	342632	343482	0.58	cps
Selenium	82-1	-20	77	-50	2	2758.04	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	13	13	13	13	0.00	cps
Silicon	28-1	907806	895930	892446	898727	0.90	cps
Silver	107-1	2454	2164	1883	2167	13.16	cps
Silver	109-1	2234	5152	1687	3024	61.61	cps
Sodium	23-2	137726	135462	134469	135885	1.23	cps
Strontium	86-1	670	647	600	639	5.58	cps
Strontium	88-1	1683	1240	1297	1407	17.15	cps
Sulfur	34-1	640395	641851	645199	642482	0.38	cps
Terbium	159-1	31988937	31962026	31957350	31969438	0.05	cps
Terbium	159-2	9673381	9803639	9607832	9694951	1.03	cps
Thallium	203-1	1997	1737	1543	1759	12.93	cps
Thallium	205-1	4327	4027	3571	3975	9.59	cps
Tin	118-1	5284	5391	5158	5278	2.21	cps
Titanium	47-1	1100	940	777	939	17.22	cps
Uranium	238-1	1207	790	627	874	34.20	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:03:21	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43	33	40	39	13.09	cps
Ytterbium	172-1	140	143	123	136	7.90	cps
Ytterbium	172-2	57	57	77	63	18.23	cps
Ytterbium	176-1	3514	3527	3400	3480	2.00	cps
Ytterbium	176-2	493	493	587	524	10.28	cps
Yttrium	89-1	42320281	41169366	41755688	41748445	1.38	cps
Yttrium	89-2	2833677	2853204	2846778	2844553	0.35	cps
Zinc	66-2	847	960	917	908	6.30	cps
Zirconium	90-1	2937	2570	2307	2605	12.15	cps
Zirconium	91-1	597	480	470	516	13.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	850045	886473	870162	868893	2.10	cps
Antimony	121-1	388766	397481	385793	390680	1.55	cps
Arsenic	75-2	31275	31826	32010	31703	1.21	cps
Barium	135-1	173831	174437	169411	172560	1.59	cps
Barium	137-1	298283	301146	296449	298626	0.79	cps
Beryllium	9-1	2934	2968	2824	2909	2.59	cps
Bismuth	209-1	18381531	18249428	17606586	18079182	2.29	cps
Bismuth	209-2	7347361	7581670	7615593	7514874	1.94	cps
Bromine	81-1	27590	30854	29411	29285	5.58	cps
Cadmium	108-1	533	707	507	582	18.65	cps
Cadmium	106-1	11842	12012	11975	11943	0.75	cps
Cadmium	111-1	11263	11438	11205	11302	1.07	cps
Calcium	43-1	328497	333399	325837	329245	1.17	cps
Calcium	44-1	5485674	5627871	5443249	5518931	1.75	cps
Carbon	12-1	6998554	7064027	6900408	6987663	1.18	cps
Carbon	12-2	44591	45203	43812	44535	1.57	cps
Chlorine	35-1	159282798	170966957	167735284	165995013	3.63	cps
Chlorine	35-2	729027	762113	764786	751975	2.65	cps
Chromium	52-2	122744	130361	126709	126604	3.01	cps
Cobalt	59-2	72902	75814	75425	74714	2.12	cps
Copper	63-2	6778679	6982165	6997490	6919445	1.77	cps
Dysprosium	156-1	41511	42655	40648	41605	2.42	cps
Dysprosium	156-2	13737	14034	13307	13693	2.67	cps
Erbium	164-1	34745	35567	34448	34920	1.66	cps
Erbium	164-2	11392	12146	12122	11887	3.61	cps
Gadolinium	160-1	38953	38860	39144	38986	0.37	cps
Gadolinium	160-2	15936	16654	16500	16363	2.31	cps
Holmium	165-1	30510235	29550020	29912696	29990984	1.62	cps
Holmium	165-2	10300065	10697444	10574072	10523860	1.93	cps
Indium	115-1	25078776	25046372	24592396	24905848	1.09	cps
Indium	115-2	2581226	2714870	2671696	2655931	2.57	cps
Iron	54-2	3846293	3968193	3916419	3910302	1.56	cps
Iron	56-2	68891419	73030017	70314987	70745475	2.97	cps
Iron	57-2	1810995	1837955	1829447	1826132	0.75	cps
Krypton	83-1	400	410	543	451	17.74	cps
Lead	206-1	2760893	2778107	2766520	2768507	0.32	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2414078	2382866	2365593	2387512	1.03	cps
Lead	208-1	10905035	10910445	10765042	10860174	0.76	cps
Lithium	6-1	10535630	10622468	10186651	10448250	2.21	cps
Magnesium	24-2	1236943	1300103	1282647	1273231	2.56	cps
Manganese	55-2	256592	266586	263461	262213	1.95	cps
Molybdenum	94-1	129217	131340	130186	130248	0.82	cps
Molybdenum	95-1	55694	55751	55567	55671	0.17	cps
Molybdenum	96-1	77538	75936	73148	75541	2.94	cps
Molybdenum	97-1	34032	35124	33541	34232	2.37	cps
Molybdenum	98-1	87638	90241	87292	88390	1.82	cps
Neodymium	150-1	63000	63198	63358	63185	0.28	cps
Neodymium	150-2	15679	16050	15846	15858	1.17	cps
Nickel	60-2	64264	66833	66541	65879	2.13	cps
Phosphorus	31-2	3137	3460	3474	3357	5.68	cps
Potassium	39-2	203890	211175	209271	208112	1.82	cps
Rhodium	103-1	24144498	23440352	23109506	23564785	2.24	cps
Rhodium	103-2	8915229	9324094	9188308	9142544	2.28	cps
Scandium	45-1	19228157	18907886	18587992	18908012	1.69	cps
Scandium	45-2	365867	377687	378897	374150	1.92	cps
Selenium	82-1	402	309	202	304	32.95	cps
Selenium	77-2	80	93	113	96	17.56	cps
Selenium	78-2	57	77	97	77	26.09	cps
Silicon	28-1	7024284	9787934	7244619	8018946	19.15	cps
Silver	107-1	43619	44358	42683	43553	1.93	cps
Silver	109-1	42104	41810	40784	41566	1.67	cps
Sodium	23-2	1162662	1231695	1209830	1201396	2.94	cps
Strontium	86-1	268450	275942	269994	271462	1.46	cps
Strontium	88-1	2430104	2538073	2422795	2463657	2.62	cps
Sulfur	34-1	1451798	1461521	1466537	1459952	0.51	cps
Terbium	159-1	30894697	30121582	29961998	30326092	1.64	cps
Terbium	159-2	9985924	10541958	10357501	10295128	2.75	cps
Thallium	203-1	4748	4357	4341	4482	5.14	cps
Thallium	205-1	10925	10298	10067	10430	4.25	cps
Tin	118-1	157491	158094	155097	156894	1.01	cps
Titanium	47-1	2262619	2297951	2256881	2272484	0.98	cps
Uranium	238-1	111020	111843	109040	110634	1.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01	Instrumnet Name :	P8
Client Sample ID :	MJNL16	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:06:42	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	197660	200724	202262	200215	1.17	cps
Ytterbium	172-1	9390	9820	9514	9575	2.31	cps
Ytterbium	172-2	3831	3844	3947	3874	1.65	cps
Ytterbium	176-1	9487	9483	9574	9515	0.54	cps
Ytterbium	176-2	3270	3340	3340	3317	1.22	cps
Yttrium	89-1	40068169	40455993	39665695	40063286	0.99	cps
Yttrium	89-2	2989537	3070488	3086935	3048987	1.71	cps
Zinc	66-2	143922	148576	147028	146509	1.62	cps
Zirconium	90-1	276653	279544	276478	277558	0.62	cps
Zirconium	91-1	61730	62332	60735	61599	1.31	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	999996	1013267	991113	1001459	1.11	cps
Antimony	121-1	472365	465240	465739	467781	0.85	cps
Arsenic	75-2	38385	37727	37734	37949	1.00	cps
Barium	135-1	206472	204824	202219	204505	1.05	cps
Barium	137-1	350465	353359	351382	351735	0.42	cps
Beryllium	9-1	3324	3181	3104	3203	3.49	cps
Bismuth	209-1	19702277	19247845	19497508	19482543	1.17	cps
Bismuth	209-2	8047174	7888320	7916310	7950601	1.07	cps
Bromine	81-1	32110	33012	34312	33145	3.34	cps
Cadmium	108-1	667	750	710	709	5.88	cps
Cadmium	106-1	13240	14087	13774	13700	3.13	cps
Cadmium	111-1	12628	13217	12905	12917	2.28	cps
Calcium	43-1	381819	379894	379549	380420	0.32	cps
Calcium	44-1	6422776	6219084	6370478	6337446	1.67	cps
Carbon	12-1	7445992	7346631	7447776	7413466	0.78	cps
Carbon	12-2	48269	47212	47296	47592	1.23	cps
Chlorine	35-1	194279370	202328184	205126070	200577875	2.81	cps
Chlorine	35-2	869671	878117	882197	876662	0.73	cps
Chromium	52-2	147266	148465	146663	147465	0.62	cps
Cobalt	59-2	88184	86085	89291	87853	1.85	cps
Copper	63-2	8152966	8114618	8077886	8115157	0.46	cps
Dysprosium	156-1	49511	49013	49240	49255	0.51	cps
Dysprosium	156-2	15976	16263	16050	16096	0.93	cps
Erbium	164-1	40378	40247	39783	40136	0.78	cps
Erbium	164-2	13347	13887	13841	13692	2.19	cps
Gadolinium	160-1	45116	44547	45584	45083	1.15	cps
Gadolinium	160-2	19201	18783	18293	18759	2.42	cps
Holmium	165-1	33002458	31822218	32138485	32321053	1.89	cps
Holmium	165-2	11288757	11332979	11180015	11267250	0.70	cps
Indium	115-1	27673005	27267735	26989317	27310019	1.26	cps
Indium	115-2	2862206	2878294	2872792	2871097	0.28	cps
Iron	54-2	4558165	4528720	4469973	4518953	0.99	cps
Iron	56-2	81935809	82341875	82233609	82170431	0.26	cps
Iron	57-2	2130389	2114940	2121811	2122380	0.36	cps
Krypton	83-1	450	427	460	446	3.84	cps
Lead	206-1	3313343	3267329	3219937	3266870	1.43	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2867951	2751105	2740932	2786663	2.53	cps
Lead	208-1	12880533	12641768	12486304	12669535	1.57	cps
Lithium	6-1	11505315	11241109	11103616	11283347	1.81	cps
Magnesium	24-2	1450820	1403477	1434409	1429569	1.68	cps
Manganese	55-2	303511	306336	305751	305200	0.49	cps
Molybdenum	94-1	152961	152869	151930	152587	0.37	cps
Molybdenum	95-1	65272	64967	65383	65207	0.33	cps
Molybdenum	96-1	90468	89110	88613	89397	1.07	cps
Molybdenum	97-1	40111	40746	40258	40372	0.82	cps
Molybdenum	98-1	103767	103633	105228	104209	0.85	cps
Neodymium	150-1	74622	74693	73735	74350	0.72	cps
Neodymium	150-2	18680	18453	18693	18609	0.73	cps
Nickel	60-2	74571	74859	75804	75078	0.86	cps
Phosphorus	31-2	4074	3911	3701	3895	4.81	cps
Potassium	39-2	237111	240360	236704	238059	0.84	cps
Rhodium	103-1	25378255	25438440	25290717	25369137	0.29	cps
Rhodium	103-2	9876325	9836629	9752143	9821699	0.65	cps
Scandium	45-1	20676764	20899762	20939691	20838739	0.68	cps
Scandium	45-2	401460	408504	408724	406229	1.02	cps
Selenium	82-1	362	306	322	330	8.84	cps
Selenium	77-2	120	120	120	120	0.00	cps
Selenium	78-2	140	103	73	106	31.63	cps
Silicon	28-1	8386078	7887867	8142991	8138979	3.06	cps
Silver	107-1	49418	49017	49699	49378	0.69	cps
Silver	109-1	47100	47026	47080	47069	0.08	cps
Sodium	23-2	1381595	1388827	1410867	1393763	1.09	cps
Strontium	86-1	319905	321152	315068	318708	1.01	cps
Strontium	88-1	2906069	2849498	2844491	2866686	1.19	cps
Sulfur	34-1	1585911	1616742	1605717	1602790	0.97	cps
Terbium	159-1	33517340	32176919	33037011	32910423	2.06	cps
Terbium	159-2	11161551	11004723	10948773	11038349	1.00	cps
Thallium	203-1	4334	3777	3897	4003	7.32	cps
Thallium	205-1	9991	9637	9997	9875	2.09	cps
Tin	118-1	192054	191298	190305	191219	0.46	cps
Titanium	47-1	2682046	2686346	2644801	2671064	0.86	cps
Uranium	238-1	128381	128329	126620	127777	0.78	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-02	Instrumnet Name :	P8
Client Sample ID :	MJNL16D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:09:48	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	232407	234439	231839	232895	0.59	cps
Ytterbium	172-1	11038	10881	10908	10942	0.77	cps
Ytterbium	172-2	4504	4541	4421	4489	1.37	cps
Ytterbium	176-1	10998	10748	10611	10786	1.82	cps
Ytterbium	176-2	3867	3621	3771	3753	3.31	cps
Yttrium	89-1	44082431	43533559	43919698	43845229	0.64	cps
Yttrium	89-2	3310130	3355408	3270544	3312027	1.28	cps
Zinc	66-2	171918	171403	170725	171349	0.35	cps
Zirconium	90-1	327352	324403	324694	325483	0.50	cps
Zirconium	91-1	71485	71150	71291	71309	0.24	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	190686	192412	189786	190962	0.70	cps
Antimony	121-1	84693	84274	83631	84200	0.64	cps
Arsenic	75-2	6908	6658	7119	6895	3.34	cps
Barium	135-1	37923	37790	37772	37828	0.22	cps
Barium	137-1	64771	65360	64104	64745	0.97	cps
Beryllium	9-1	895	877	823	865	4.36	cps
Bismuth	209-1	19210143	19439480	19293814	19314479	0.60	cps
Bismuth	209-2	7825145	7803305	7694438	7774296	0.90	cps
Bromine	81-1	16506	17167	16580	16751	2.16	cps
Cadmium	108-1	200	123	153	159	24.31	cps
Cadmium	106-1	12125	12553	12172	12283	1.91	cps
Cadmium	111-1	9151	9387	9177	9238	1.40	cps
Calcium	43-1	72783	70304	71279	71455	1.75	cps
Calcium	44-1	1248896	1186620	1197537	1211018	2.75	cps
Carbon	12-1	4932279	4935929	4960179	4942795	0.31	cps
Carbon	12-2	31641	31500	31654	31598	0.27	cps
Chlorine	35-1	43966703	43998729	44099983	44021805	0.16	cps
Chlorine	35-2	188479	186553	186235	187089	0.65	cps
Chromium	52-2	29520	29267	28438	29075	1.95	cps
Cobalt	59-2	16777	16163	16430	16456	1.87	cps
Copper	63-2	1461011	1455353	1447826	1454730	0.45	cps
Dysprosium	156-1	8916	8966	9160	9014	1.43	cps
Dysprosium	156-2	2984	3234	3040	3086	4.25	cps
Erbium	164-1	7522	7719	7676	7639	1.35	cps
Erbium	164-2	2810	2587	2570	2656	5.05	cps
Gadolinium	160-1	8223	8503	8940	8555	4.22	cps
Gadolinium	160-2	3567	3597	3467	3544	1.92	cps
Holmium	165-1	32625402	32319298	31890375	32278358	1.14	cps
Holmium	165-2	10943190	10770074	10640921	10784729	1.41	cps
Indium	115-1	27402388	27089796	26742564	27078250	1.22	cps
Indium	115-2	2767239	2722016	2711376	2733544	1.09	cps
Iron	54-2	833178	834220	837197	834865	0.25	cps
Iron	56-2	15373649	15434446	15387749	15398614	0.21	cps
Iron	57-2	378480	378969	376667	378039	0.32	cps
Krypton	83-1	353	347	403	368	8.42	cps
Lead	206-1	560010	556591	561085	559229	0.42	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	485533	490358	476414	484102	1.46	cps
Lead	208-1	2215212	2219811	2190638	2208554	0.71	cps
Lithium	6-1	10956432	10695397	10930306	10860712	1.32	cps
Magnesium	24-2	267135	270394	268556	268695	0.61	cps
Manganese	55-2	57124	57261	58007	57464	0.83	cps
Molybdenum	94-1	28205	27751	28045	28001	0.82	cps
Molybdenum	95-1	12302	12222	12496	12340	1.14	cps
Molybdenum	96-1	16924	16717	17001	16880	0.87	cps
Molybdenum	97-1	7485	7682	7656	7608	1.40	cps
Molybdenum	98-1	19153	19294	19531	19326	0.99	cps
Neodymium	150-1	13951	13430	13874	13752	2.04	cps
Neodymium	150-2	3404	3384	3327	3372	1.18	cps
Nickel	60-2	15275	14771	14948	14998	1.70	cps
Phosphorus	31-2	880	833	763	826	7.11	cps
Potassium	39-2	62963	62873	63067	62968	0.15	cps
Rhodium	103-1	25605070	25447267	25639167	25563835	0.40	cps
Rhodium	103-2	9476771	9326580	9270746	9358032	1.14	cps
Scandium	45-1	20863931	20474875	20405516	20581440	1.20	cps
Scandium	45-2	391995	387512	380285	386598	1.53	cps
Selenium	82-1	65	-12	58	37	114.76	cps
Selenium	77-2	17	17	13	16	12.40	cps
Selenium	78-2	27	27	43	32	29.85	cps
Silicon	28-1	1978841	2108872	2463577	2183764	11.49	cps
Silver	107-1	9070	9026	9503	9200	2.87	cps
Silver	109-1	8853	8496	8736	8695	2.09	cps
Sodium	23-2	354687	354214	350246	353049	0.69	cps
Strontium	86-1	59964	58766	60306	59679	1.36	cps
Strontium	88-1	514717	513043	506245	511335	0.88	cps
Sulfur	34-1	803802	803246	810188	805745	0.48	cps
Terbium	159-1	33229361	32874109	32233902	32779124	1.54	cps
Terbium	159-2	10848004	10627616	10585152	10686924	1.32	cps
Thallium	203-1	1133	1073	1047	1085	4.09	cps
Thallium	205-1	2707	2710	2587	2668	2.63	cps
Tin	118-1	36365	36636	36579	36527	0.39	cps
Titanium	47-1	487477	483371	475712	482187	1.24	cps
Uranium	238-1	23652	24066	22894	23537	2.53	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL16L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:12:57	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43462	42958	43536	43319	0.73	cps
Ytterbium	172-1	2174	2284	1994	2150	6.81	cps
Ytterbium	172-2	880	953	833	889	6.81	cps
Ytterbium	176-1	4894	4928	4758	4860	1.85	cps
Ytterbium	176-2	1200	1203	1270	1225	3.23	cps
Yttrium	89-1	44839306	43749536	42631010	43739951	2.52	cps
Yttrium	89-2	3137557	3145314	3061699	3114857	1.48	cps
Zinc	66-2	31315	31826	32173	31771	1.36	cps
Zirconium	90-1	59902	59363	58218	59161	1.45	cps
Zirconium	91-1	13040	12389	13230	12886	3.42	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	988259	990066	983486	987270	0.34	cps
Antimony	121-1	863229	868979	849327	860512	1.17	cps
Arsenic	75-2	39248	38944	39482	39224	0.69	cps
Barium	135-1	2532011	2478930	2416401	2475781	2.34	cps
Barium	137-1	4217176	4211705	4079497	4169459	1.87	cps
Beryllium	9-1	66558	65827	65041	65809	1.15	cps
Bismuth	209-1	19600684	18872589	19587081	19353451	2.15	cps
Bismuth	209-2	8101676	7861887	7851184	7938249	1.78	cps
Bromine	81-1	30981	32040	32063	31695	1.95	cps
Cadmium	108-1	4147	3947	4017	4037	2.51	cps
Cadmium	106-1	18296	18129	18446	18290	0.87	cps
Cadmium	111-1	67149	65977	66046	66391	0.99	cps
Calcium	43-1	363404	364227	362228	363287	0.28	cps
Calcium	44-1	6219226	6017185	6026494	6087635	1.87	cps
Carbon	12-1	7031361	7347003	7307473	7228612	2.38	cps
Carbon	12-2	46607	46039	46339	46328	0.61	cps
Chlorine	35-1	188794844	200752477	196809470	195452264	3.12	cps
Chlorine	35-2	865527	872853	862092	866824	0.63	cps
Chromium	52-2	354164	355015	353858	354346	0.17	cps
Cobalt	59-2	1088431	1088147	1086905	1087827	0.07	cps
Copper	63-2	8111508	8009635	7926805	8015983	1.15	cps
Dysprosium	156-1	45975	45818	44628	45474	1.62	cps
Dysprosium	156-2	15072	14858	15416	15115	1.86	cps
Erbium	164-1	38743	38405	38191	38446	0.72	cps
Erbium	164-2	13484	12783	12810	13025	3.05	cps
Gadolinium	160-1	43651	43180	42227	43019	1.69	cps
Gadolinium	160-2	18002	17485	17321	17603	2.02	cps
Holmium	165-1	33043435	31480480	33124776	32549564	2.85	cps
Holmium	165-2	11292766	11006031	11304255	11201017	1.51	cps
Indium	115-1	28187904	26134336	27420572	27247604	3.81	cps
Indium	115-2	2867704	2824947	2787255	2826635	1.42	cps
Iron	54-2	4437422	4282354	4349564	4356447	1.79	cps
Iron	56-2	79712750	79694927	78471682	79293120	0.90	cps
Iron	57-2	2052432	2052262	2020949	2041881	0.89	cps
Krypton	83-1	570	557	607	578	4.48	cps
Lead	206-1	3090648	3069559	3107783	3089330	0.62	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2626129	2640542	2614796	2627156	0.49	cps
Lead	208-1	12062369	12099919	11962822	12041703	0.59	cps
Lithium	6-1	11151089	10476149	10899883	10842373	3.15	cps
Magnesium	24-2	1398387	1377686	1374550	1383541	0.94	cps
Manganese	55-2	504851	508000	504011	505621	0.42	cps
Molybdenum	94-1	145424	148103	143488	145672	1.59	cps
Molybdenum	95-1	60986	61723	60069	60926	1.36	cps
Molybdenum	96-1	84223	83351	83070	83548	0.72	cps
Molybdenum	97-1	37985	37367	36852	37401	1.52	cps
Molybdenum	98-1	97547	96539	95953	96679	0.83	cps
Neodymium	150-1	68675	69994	68396	69022	1.24	cps
Neodymium	150-2	17755	17568	17578	17634	0.60	cps
Nickel	60-2	353587	350177	348466	350743	0.74	cps
Phosphorus	31-2	3510	3791	3681	3660	3.85	cps
Potassium	39-2	227282	227645	226447	227125	0.27	cps
Rhodium	103-1	26225520	24641035	25957830	25608128	3.31	cps
Rhodium	103-2	9860153	9767825	9560592	9729523	1.58	cps
Scandium	45-1	21707291	19976895	21311512	20998566	4.32	cps
Scandium	45-2	407826	397991	400498	402105	1.27	cps
Selenium	82-1	7333	7807	7356	7499	3.56	cps
Selenium	77-2	200	163	200	188	11.27	cps
Selenium	78-2	517	553	523	531	3.68	cps
Silicon	28-1	7329599	7762967	7762795	7618454	3.28	cps
Silver	107-1	324654	330214	320851	325240	1.45	cps
Silver	109-1	313187	312316	309628	311710	0.60	cps
Sodium	23-2	1308496	1315791	1300458	1308248	0.59	cps
Strontium	86-1	301564	301965	299458	300996	0.45	cps
Strontium	88-1	2758416	2730999	2685658	2725024	1.35	cps
Sulfur	34-1	1550032	1576551	1519206	1548597	1.85	cps
Terbium	159-1	34108420	31950805	33533390	33197538	3.37	cps
Terbium	159-2	11182281	10857293	10901162	10980245	1.61	cps
Thallium	203-1	206662	205959	201747	204789	1.30	cps
Thallium	205-1	489832	490243	485011	488362	0.60	cps
Tin	118-1	175540	178202	175704	176482	0.85	cps
Titanium	47-1	2555052	2509445	2499785	2521427	1.17	cps
Uranium	238-1	120764	122211	118843	120606	1.40	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5167-03	Instrumnet Name :	P8
Client Sample ID :	MJNL16S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:16:13	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	631107	632868	632334	632103	0.14	cps
Ytterbium	172-1	10464	10414	10234	10371	1.17	cps
Ytterbium	172-2	4261	4274	4371	4302	1.40	cps
Ytterbium	176-1	10494	10528	10067	10363	2.48	cps
Ytterbium	176-2	3507	3397	3571	3492	2.51	cps
Yttrium	89-1	45641618	41951301	44710093	44101004	4.35	cps
Yttrium	89-2	3344554	3262221	3205024	3270600	2.14	cps
Zinc	66-2	238807	236072	237945	237608	0.59	cps
Zirconium	90-1	311095	308152	304749	307999	1.03	cps
Zirconium	91-1	67007	67969	67476	67484	0.71	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1439042	1415931	1407153	1420709	1.16	cps
Antimony	121-1	972465	985481	975981	977976	0.69	cps
Arsenic	75-2	83378	81018	81776	82057	1.47	cps
Barium	135-1	376608	378020	376717	377115	0.21	cps
Barium	137-1	652400	651704	654931	653012	0.26	cps
Beryllium	9-1	3283	3319	3301	3301	0.54	cps
Bismuth	209-1	19692485	19524597	18999198	19405427	1.86	cps
Bismuth	209-2	8215805	8079698	7948794	8081432	1.65	cps
Bromine	81-1	120764	124375	127453	124197	2.70	cps
Cadmium	108-1	910	973	880	921	5.17	cps
Cadmium	106-1	13824	13917	13570	13770	1.30	cps
Cadmium	111-1	17689	17660	17583	17644	0.31	cps
Calcium	43-1	682874	665419	665593	671295	1.49	cps
Calcium	44-1	11317249	11053800	10963619	11111556	1.65	cps
Carbon	12-1	8712839	8826488	8803849	8781059	0.69	cps
Carbon	12-2	57107	56351	55481	56313	1.45	cps
Chlorine	35-1	221386250	227273530	232174343	226944708	2.38	cps
Chlorine	35-2	1011940	1013175	1013505	1012874	0.08	cps
Chromium	52-2	255672	257351	257151	256724	0.36	cps
Cobalt	59-2	132204	130612	130495	131104	0.73	cps
Copper	63-2	16943268	17239938	17081976	17088394	0.87	cps
Dysprosium	156-1	48551	47936	47069	47852	1.56	cps
Dysprosium	156-2	15766	15589	15839	15732	0.82	cps
Erbium	164-1	41063	41565	40572	41067	1.21	cps
Erbium	164-2	14138	13757	13951	13948	1.36	cps
Gadolinium	160-1	43989	44156	44220	44122	0.27	cps
Gadolinium	160-2	18500	17862	18730	18364	2.45	cps
Holmium	165-1	33157394	32743094	32067790	32656093	1.68	cps
Holmium	165-2	11440760	11327474	11250410	11339548	0.84	cps
Indium	115-1	27646815	27445742	26321454	27138004	2.63	cps
Indium	115-2	2928022	2898742	2823944	2883569	1.86	cps
Iron	54-2	5976646	5893003	5803021	5890890	1.47	cps
Iron	56-2	107469702	109510882	107798915	108259833	1.01	cps
Iron	57-2	2750432	2730397	2731250	2737360	0.41	cps
Krypton	83-1	490	630	647	589	14.61	cps
Lead	206-1	7218246	7105935	7082858	7135680	1.02	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6133942	6114957	6036781	6095227	0.84	cps
Lead	208-1	28009911	27889358	27655920	27851729	0.65	cps
Lithium	6-1	10949139	10822320	10569278	10780246	1.79	cps
Magnesium	24-2	2476522	2486934	2437537	2466998	1.06	cps
Manganese	55-2	414636	415234	411647	413839	0.46	cps
Molybdenum	94-1	97562	99737	99573	98957	1.22	cps
Molybdenum	95-1	57873	56571	57817	57420	1.28	cps
Molybdenum	96-1	72800	73506	72307	72871	0.83	cps
Molybdenum	97-1	34857	34286	34957	34700	1.04	cps
Molybdenum	98-1	90892	90050	90563	90502	0.47	cps
Neodymium	150-1	70936	69616	69894	70149	0.99	cps
Neodymium	150-2	17441	17215	17308	17321	0.66	cps
Nickel	60-2	153101	151422	154937	153153	1.15	cps
Phosphorus	31-2	4814	5081	4741	4879	3.67	cps
Potassium	39-2	571438	569021	571767	570742	0.26	cps
Rhodium	103-1	25920604	24929494	25127388	25325829	2.07	cps
Rhodium	103-2	9891360	9779430	9735375	9802055	0.82	cps
Scandium	45-1	21875301	20755232	20841826	21157453	2.95	cps
Scandium	45-2	406421	410296	404371	407030	0.74	cps
Selenium	82-1	884	781	774	813	7.57	cps
Selenium	77-2	123	83	83	97	23.90	cps
Selenium	78-2	137	100	117	118	15.59	cps
Silicon	28-1	14164252	12614753	11320519	12699841	11.21	cps
Silver	107-1	357265	364976	358286	360176	1.16	cps
Silver	109-1	345848	345191	346426	345822	0.18	cps
Sodium	23-2	13117333	13258434	13182464	13186077	0.54	cps
Strontium	86-1	626456	625906	633756	628706	0.70	cps
Strontium	88-1	5633296	5545802	5580963	5586687	0.79	cps
Sulfur	34-1	1845789	1796206	1829510	1823835	1.39	cps
Terbium	159-1	34161749	32800125	32853435	33271770	2.32	cps
Terbium	159-2	11152591	10932440	10966237	11017089	1.08	cps
Thallium	203-1	7082	7052	7002	7045	0.57	cps
Thallium	205-1	16771	16788	16474	16678	1.06	cps
Tin	118-1	379850	383092	378177	380373	0.66	cps
Titanium	47-1	2375122	2315932	2316770	2335941	1.45	cps
Uranium	238-1	85824	87760	86854	86813	1.12	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01	Instrumnet Name :	P8
Client Sample ID :	MJNL60	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:19:21	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	202624	201201	202472	202099	0.39	cps
Ytterbium	172-1	11752	12289	11949	11997	2.27	cps
Ytterbium	172-2	4938	5138	4948	5008	2.25	cps
Ytterbium	176-1	11285	11178	11161	11208	0.60	cps
Ytterbium	176-2	3837	3981	4011	3943	2.35	cps
Yttrium	89-1	44841078	43989158	43868021	44232752	1.20	cps
Yttrium	89-2	3337879	3244926	3318669	3300491	1.49	cps
Zinc	66-2	353203	350157	348906	350755	0.63	cps
Zirconium	90-1	187156	186972	189813	187980	0.85	cps
Zirconium	91-1	41695	41993	41739	41809	0.38	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1412033	1379693	1385088	1392271	1.24	cps
Antimony	121-1	1003912	1006346	998128	1002795	0.42	cps
Arsenic	75-2	79895	79851	79489	79745	0.28	cps
Barium	135-1	372064	367613	363052	367576	1.23	cps
Barium	137-1	628287	629182	629484	628984	0.10	cps
Beryllium	9-1	3170	3187	3151	3169	0.57	cps
Bismuth	209-1	19392182	19421890	18912577	19242217	1.49	cps
Bismuth	209-2	8101084	7995432	7922066	8006194	1.12	cps
Bromine	81-1	118482	121814	123616	121304	2.15	cps
Cadmium	108-1	833	923	843	867	5.69	cps
Cadmium	106-1	13837	14257	13553	13883	2.55	cps
Cadmium	111-1	17529	17590	17183	17434	1.26	cps
Calcium	43-1	677074	665412	670901	671129	0.87	cps
Calcium	44-1	11153445	11283752	11098044	11178414	0.85	cps
Carbon	12-1	8813752	8755738	8635407	8734966	1.04	cps
Carbon	12-2	57228	56137	55310	56225	1.71	cps
Chlorine	35-1	213576743	221084097	223701997	219454279	2.39	cps
Chlorine	35-2	963401	963351	959979	962244	0.20	cps
Chromium	52-2	249698	252245	248358	250100	0.79	cps
Cobalt	59-2	127397	124831	127511	126580	1.20	cps
Copper	63-2	17190487	17067329	17027244	17095020	0.50	cps
Dysprosium	156-1	46317	46574	46320	46403	0.32	cps
Dysprosium	156-2	15132	15202	15349	15228	0.73	cps
Erbium	164-1	40197	40124	39602	39974	0.81	cps
Erbium	164-2	13093	13550	13317	13320	1.72	cps
Gadolinium	160-1	43009	43190	42538	42912	0.78	cps
Gadolinium	160-2	17825	17385	17869	17693	1.51	cps
Holmium	165-1	31866314	32162522	31296143	31774993	1.39	cps
Holmium	165-2	11232770	11157221	11242578	11210856	0.42	cps
Indium	115-1	27071949	27291213	26918250	27093804	0.69	cps
Indium	115-2	2874532	2804226	2781471	2820076	1.72	cps
Iron	54-2	5750835	5633056	5628238	5670710	1.22	cps
Iron	56-2	104467652	105790212	103887368	104715077	0.93	cps
Iron	57-2	2675039	2675586	2611715	2654113	1.38	cps
Krypton	83-1	467	523	583	524	11.12	cps
Lead	206-1	8504490	8307094	8309179	8373587	1.35	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7314949	7071726	7225452	7204042	1.71	cps
Lead	208-1	33586620	32767752	32881083	33078485	1.34	cps
Lithium	6-1	10623584	10665057	10594328	10627656	0.33	cps
Magnesium	24-2	2479772	2451059	2390230	2440353	1.87	cps
Manganese	55-2	396737	400680	396412	397943	0.60	cps
Molybdenum	94-1	96555	98687	98647	97963	1.24	cps
Molybdenum	95-1	55038	55279	56042	55453	0.95	cps
Molybdenum	96-1	70290	71348	71473	71037	0.92	cps
Molybdenum	97-1	33637	34406	33935	33993	1.14	cps
Molybdenum	98-1	85474	88325	87587	87129	1.70	cps
Neodymium	150-1	67823	68091	67009	67641	0.83	cps
Neodymium	150-2	17101	16490	16857	16816	1.83	cps
Nickel	60-2	147135	147338	146819	147097	0.18	cps
Phosphorus	31-2	4671	4617	4431	4573	2.76	cps
Potassium	39-2	549861	546778	544616	547085	0.48	cps
Rhodium	103-1	24698838	25597024	25001843	25099235	1.82	cps
Rhodium	103-2	9852767	9547115	9592185	9664022	1.71	cps
Scandium	45-1	20779526	21639771	21239892	21219730	2.03	cps
Scandium	45-2	405270	405290	398692	403084	0.94	cps
Selenium	82-1	817	970	734	840	14.27	cps
Selenium	77-2	143	120	70	111	33.72	cps
Selenium	78-2	130	100	100	110	15.75	cps
Silicon	28-1	11428030	12468844	11034835	11643903	6.36	cps
Silver	107-1	349129	346176	347505	347603	0.43	cps
Silver	109-1	332874	333069	330551	332165	0.42	cps
Sodium	23-2	12897316	12934721	12733269	12855102	0.83	cps
Strontium	86-1	623092	615141	617085	618440	0.67	cps
Strontium	88-1	5546470	5538093	5505368	5529977	0.39	cps
Sulfur	34-1	1771033	1793962	1810427	1791807	1.10	cps
Terbium	159-1	32628376	32866128	32505583	32666696	0.56	cps
Terbium	159-2	10956255	11099579	10949101	11001645	0.77	cps
Thallium	203-1	6775	6642	6595	6671	1.40	cps
Thallium	205-1	15750	15860	15903	15837	0.50	cps
Tin	118-1	372377	372590	371925	372297	0.09	cps
Titanium	47-1	2294587	2259603	2255960	2270050	0.94	cps
Uranium	238-1	86012	84166	84830	85003	1.10	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-02	Instrumnet Name :	P8
Client Sample ID :	MJNL60D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:22:26	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	194949	193078	193371	193799	0.52	cps
Ytterbium	172-1	11769	11642	11448	11620	1.39	cps
Ytterbium	172-2	4841	4971	4721	4844	2.58	cps
Ytterbium	176-1	11312	11001	10995	11103	1.63	cps
Ytterbium	176-2	3627	3974	3871	3824	4.66	cps
Yttrium	89-1	43708949	45728348	44602153	44679817	2.26	cps
Yttrium	89-2	3362466	3274356	3251434	3296086	1.78	cps
Zinc	66-2	341549	345078	338371	341666	0.98	cps
Zirconium	90-1	186476	189117	187507	187700	0.71	cps
Zirconium	91-1	40816	41940	41335	41364	1.36	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	279124	271716	272418	274419	1.49	cps
Antimony	121-1	193563	192793	191389	192582	0.57	cps
Arsenic	75-2	15575	15659	16049	15761	1.61	cps
Barium	135-1	75455	74989	74219	74888	0.83	cps
Barium	137-1	129092	129459	127541	128698	0.79	cps
Beryllium	9-1	930	866	910	902	3.62	cps
Bismuth	209-1	19835571	19232131	17641083	18902928	6.00	cps
Bismuth	209-2	7822090	7823942	7724124	7790052	0.73	cps
Bromine	81-1	35281	35876	35331	35496	0.93	cps
Cadmium	108-1	187	197	207	197	5.08	cps
Cadmium	106-1	12436	12109	11398	11981	4.43	cps
Cadmium	111-1	10314	10012	9678	10001	3.19	cps
Calcium	43-1	133762	132534	132266	132854	0.60	cps
Calcium	44-1	2313263	2220204	2273447	2268971	2.06	cps
Carbon	12-1	5401009	5384151	5491218	5425460	1.06	cps
Carbon	12-2	33812	34534	33699	34015	1.33	cps
Chlorine	35-1	54414143	54174051	54382361	54323518	0.24	cps
Chlorine	35-2	228182	225453	225155	226263	0.74	cps
Chromium	52-2	51830	52864	52258	52317	0.99	cps
Cobalt	59-2	26137	26191	26688	26339	1.15	cps
Copper	63-2	3454264	3493845	3471222	3473110	0.57	cps
Dysprosium	156-1	9564	9240	9614	9472	2.14	cps
Dysprosium	156-2	3174	3264	3277	3238	1.74	cps
Erbium	164-1	8423	8143	8366	8310	1.78	cps
Erbium	164-2	2780	2917	2680	2793	4.26	cps
Gadolinium	160-1	8910	8966	8793	8890	0.99	cps
Gadolinium	160-2	3444	3764	3380	3529	5.82	cps
Holmium	165-1	32536823	31910247	29498835	31315302	5.12	cps
Holmium	165-2	10989480	10993322	10852920	10945241	0.73	cps
Indium	115-1	27595942	26609854	24562548	26256115	5.89	cps
Indium	115-2	2762100	2763221	2744992	2756771	0.37	cps
Iron	54-2	1136060	1135049	1138768	1136626	0.17	cps
Iron	56-2	21517308	21408603	21427371	21451094	0.27	cps
Iron	57-2	523550	528003	519465	523673	0.82	cps
Krypton	83-1	367	383	457	402	11.90	cps
Lead	206-1	1383960	1367109	1360821	1370630	0.87	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1207942	1194486	1197807	1200078	0.58	cps
Lead	208-1	5704143	5643332	5531763	5626413	1.55	cps
Lithium	6-1	11360373	10673382	9945858	10659871	6.64	cps
Magnesium	24-2	486805	486717	482568	485363	0.50	cps
Manganese	55-2	82131	81776	82087	81998	0.24	cps
Molybdenum	94-1	19033	19177	18990	19067	0.51	cps
Molybdenum	95-1	11725	11752	11605	11694	0.67	cps
Molybdenum	96-1	14501	14358	14281	14380	0.78	cps
Molybdenum	97-1	7219	7605	6982	7269	4.33	cps
Molybdenum	98-1	18576	18386	18436	18466	0.53	cps
Neodymium	150-1	13537	13700	13210	13482	1.85	cps
Neodymium	150-2	3641	3504	3604	3583	1.97	cps
Nickel	60-2	29992	30920	31365	30759	2.28	cps
Phosphorus	31-2	1020	1070	1113	1068	4.37	cps
Potassium	39-2	131052	127924	129092	129356	1.22	cps
Rhodium	103-1	26013111	25287920	23853746	25051592	4.39	cps
Rhodium	103-2	9653777	9706548	9460319	9606881	1.35	cps
Scandium	45-1	21377658	20308353	19260297	20315436	5.21	cps
Scandium	45-2	388348	386061	387075	387161	0.30	cps
Selenium	82-1	120	144	130	131	8.98	cps
Selenium	77-2	30	40	10	27	57.28	cps
Selenium	78-2	43	43	37	41	9.35	cps
Silicon	28-1	3037937	2933103	2864904	2945315	2.96	cps
Silver	107-1	72945	71578	70874	71799	1.47	cps
Silver	109-1	67337	69112	68962	68470	1.44	cps
Sodium	23-2	2795753	2743875	2768076	2769234	0.94	cps
Strontium	86-1	124751	124612	123140	124168	0.72	cps
Strontium	88-1	1085062	1060099	1076527	1073896	1.18	cps
Sulfur	34-1	853074	852953	855362	853796	0.16	cps
Terbium	159-1	33020529	32121646	30096902	31746359	4.72	cps
Terbium	159-2	10659478	10725283	10652635	10679132	0.38	cps
Thallium	203-1	1723	1583	1757	1688	5.45	cps
Thallium	205-1	4094	4021	3787	3967	4.04	cps
Tin	118-1	79352	78141	77387	78293	1.27	cps
Titanium	47-1	448087	442268	445621	445325	0.66	cps
Uranium	238-1	17162	17906	17158	17409	2.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNL60L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 16:25:33	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	39548	38345	39100	38997	1.56	cps
Ytterbium	172-1	2424	2494	2497	2471	1.68	cps
Ytterbium	172-2	1043	1053	1033	1043	0.96	cps
Ytterbium	176-1	5144	4828	4891	4954	3.38	cps
Ytterbium	176-2	1200	1270	1240	1237	2.84	cps
Yttrium	89-1	44273654	42800481	39903278	42325804	5.25	cps
Yttrium	89-2	3191857	3174079	3106728	3157554	1.42	cps
Zinc	66-2	69298	70156	70102	69852	0.69	cps
Zirconium	90-1	35609	35512	35422	35514	0.26	cps
Zirconium	91-1	8146	7959	7649	7918	3.17	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1401032	1371086	1386260	1386126	1.08	cps
Antimony	121-1	1378597	1358617	1370150	1369121	0.73	cps
Arsenic	75-2	80495	80988	80515	80666	0.35	cps
Barium	135-1	2576040	2518369	2511162	2535190	1.40	cps
Barium	137-1	4309897	4201243	4151472	4220870	1.92	cps
Beryllium	9-1	62822	62394	60648	61955	1.86	cps
Bismuth	209-1	18983738	19398319	19035278	19139112	1.18	cps
Bismuth	209-2	7951357	7864568	7828851	7881592	0.80	cps
Bromine	81-1	112736	114429	118062	115075	2.36	cps
Cadmium	108-1	3957	4131	4221	4103	3.26	cps
Cadmium	106-1	17775	18015	17932	17907	0.68	cps
Cadmium	111-1	66914	67614	66632	67053	0.75	cps
Calcium	43-1	657482	655426	643986	652298	1.11	cps
Calcium	44-1	11029541	10779448	10867838	10892275	1.16	cps
Carbon	12-1	8385956	8546758	8674919	8535878	1.70	cps
Carbon	12-2	54424	54230	55330	54661	1.07	cps
Chlorine	35-1	223318103	230523690	233988197	229276663	2.37	cps
Chlorine	35-2	1002139	1000427	1012333	1004966	0.64	cps
Chromium	52-2	444339	448324	447454	446706	0.47	cps
Cobalt	59-2	1072732	1072656	1068685	1071358	0.22	cps
Copper	63-2	17173355	17195248	17136101	17168235	0.17	cps
Dysprosium	156-1	44019	44705	44721	44482	0.90	cps
Dysprosium	156-2	15115	14762	15245	15041	1.66	cps
Erbium	164-1	39258	38031	39385	38891	1.92	cps
Erbium	164-2	13233	13434	13357	13341	0.76	cps
Gadolinium	160-1	43293	42006	41274	42191	2.42	cps
Gadolinium	160-2	17782	17448	17041	17424	2.13	cps
Holmium	165-1	31702745	32322749	32178520	32068005	1.01	cps
Holmium	165-2	10971194	10920101	11018277	10969857	0.45	cps
Indium	115-1	26386175	27192824	26523962	26700987	1.62	cps
Indium	115-2	2783135	2782029	2781595	2782253	0.03	cps
Iron	54-2	5624546	5656590	5672627	5651254	0.43	cps
Iron	56-2	102465368	103167112	102970428	102867636	0.35	cps
Iron	57-2	2609993	2642918	2599710	2617540	0.86	cps
Krypton	83-1	563	537	553	551	2.44	cps
Lead	206-1	8155928	7951253	7966322	8024501	1.42	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7083202	6881975	7037646	7000941	1.51	cps
Lead	208-1	32548022	31452588	31871293	31957301	1.73	cps
Lithium	6-1	10536809	11092484	10454478	10694590	3.24	cps
Magnesium	24-2	2413577	2395863	2331185	2380208	1.82	cps
Manganese	55-2	595706	600348	593274	596442	0.60	cps
Molybdenum	94-1	95971	94072	94548	94864	1.04	cps
Molybdenum	95-1	54530	54721	53773	54341	0.92	cps
Molybdenum	96-1	68816	69650	69030	69166	0.63	cps
Molybdenum	97-1	33731	33393	33631	33585	0.52	cps
Molybdenum	98-1	86360	85908	85562	85943	0.47	cps
Neodymium	150-1	65971	67063	65904	66313	0.98	cps
Neodymium	150-2	16817	15983	16046	16282	2.85	cps
Nickel	60-2	402516	406145	403829	404163	0.45	cps
Phosphorus	31-2	4487	4427	4417	4444	0.85	cps
Potassium	39-2	535845	534852	535121	535273	0.10	cps
Rhodium	103-1	24780468	25483885	25052571	25105642	1.41	cps
Rhodium	103-2	9553451	9362600	9483387	9466480	1.02	cps
Scandium	45-1	20475857	21263906	20745436	20828400	1.92	cps
Scandium	45-2	396984	400376	402478	399946	0.69	cps
Selenium	82-1	7589	7906	7656	7717	2.16	cps
Selenium	77-2	223	233	227	228	2.24	cps
Selenium	78-2	527	520	480	509	4.96	cps
Silicon	28-1	11620663	11377616	10555647	11184642	4.99	cps
Silver	107-1	598891	600945	599968	599934	0.17	cps
Silver	109-1	574046	579866	569138	574350	0.94	cps
Sodium	23-2	12703636	12641027	12658517	12667727	0.26	cps
Strontium	86-1	605951	603105	594812	601289	0.96	cps
Strontium	88-1	5345367	5411667	5363791	5373608	0.64	cps
Sulfur	34-1	1682562	1680649	1697735	1686982	0.55	cps
Terbium	159-1	31881410	33401688	32702755	32661951	2.33	cps
Terbium	159-2	10686432	10554020	10792985	10677812	1.12	cps
Thallium	203-1	195766	195121	194314	195067	0.37	cps
Thallium	205-1	464783	456564	461503	460950	0.90	cps
Tin	118-1	364135	357148	365636	362307	1.25	cps
Titanium	47-1	2253698	2209361	2253531	2238863	1.14	cps
Uranium	238-1	84693	83941	84630	84421	0.49	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5168-03	Instrumnet Name :	P8
Client Sample ID :	MJNL60S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:28:45	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	581673	581646	574903	579407	0.67	cps
Ytterbium	172-1	11899	11525	11468	11631	2.01	cps
Ytterbium	172-2	4631	4788	4631	4683	1.93	cps
Ytterbium	176-1	10614	10681	10938	10744	1.59	cps
Ytterbium	176-2	3621	3761	3761	3714	2.18	cps
Yttrium	89-1	43387521	44509883	43838964	43912123	1.29	cps
Yttrium	89-2	3262338	3220289	3221787	3234805	0.74	cps
Zinc	66-2	404445	404873	405193	404837	0.09	cps
Zirconium	90-1	181902	180275	177694	179957	1.18	cps
Zirconium	91-1	40078	38874	40298	39750	1.93	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1458180	1417755	1431001	1435646	1.44	cps
Antimony	121-1	8679	8453	8213	8448	2.76	cps
Arsenic	75-2	8109	8209	7979	8099	1.42	cps
Barium	135-1	749470	740027	733549	741015	1.08	cps
Barium	137-1	1274384	1283370	1279748	1279167	0.35	cps
Beryllium	9-1	8908	8605	8631	8715	1.92	cps
Bismuth	209-1	18696374	19527763	18924948	19049695	2.25	cps
Bismuth	209-2	7876079	7932789	7760255	7856374	1.12	cps
Bromine	81-1	24658	25600	26228	25495	3.10	cps
Cadmium	108-1	447	473	503	474	5.98	cps
Cadmium	106-1	12719	13440	13096	13085	2.75	cps
Cadmium	111-1	12551	13001	12572	12708	1.99	cps
Calcium	43-1	922495	909802	909676	913991	0.81	cps
Calcium	44-1	15096784	15404139	14832615	15111179	1.89	cps
Carbon	12-1	14245131	14187382	14548185	14326899	1.35	cps
Carbon	12-2	91228	88800	90980	90336	1.48	cps
Chlorine	35-1	262659816	266492156	270363683	266505218	1.45	cps
Chlorine	35-2	1144798	1144640	1154528	1147989	0.49	cps
Chromium	52-2	139795	139862	140243	139966	0.17	cps
Cobalt	59-2	167799	166217	165081	166366	0.82	cps
Copper	63-2	307068	305564	308167	306933	0.43	cps
Dysprosium	156-1	121368	119290	120190	120283	0.87	cps
Dysprosium	156-2	39532	39435	39639	39535	0.26	cps
Erbium	164-1	105027	104050	103015	104030	0.97	cps
Erbium	164-2	34521	34932	34889	34781	0.65	cps
Gadolinium	160-1	112993	113451	111148	112531	1.08	cps
Gadolinium	160-2	45976	46073	45591	45880	0.56	cps
Holmium	165-1	31091487	32953657	32520864	32188669	3.03	cps
Holmium	165-2	11131324	11164924	11256081	11184110	0.58	cps
Indium	115-1	25883023	28254006	27038465	27058498	4.38	cps
Indium	115-2	2823560	2797873	2800043	2807158	0.51	cps
Iron	54-2	7248554	7214197	7209617	7224123	0.29	cps
Iron	56-2	132078035	133044931	134122671	133081879	0.77	cps
Iron	57-2	3383961	3359340	3378844	3374048	0.39	cps
Krypton	83-1	747	723	687	719	4.21	cps
Lead	206-1	678488	676453	684014	679651	0.58	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	561694	562016	555698	559803	0.64	cps
Lead	208-1	2627931	2610004	2606725	2614887	0.44	cps
Lithium	6-1	10324759	11161303	10746782	10744281	3.89	cps
Magnesium	24-2	1952892	1899034	1915258	1922395	1.44	cps
Manganese	55-2	2942898	2999458	3018337	2986898	1.31	cps
Molybdenum	94-1	119269	117459	117744	118158	0.82	cps
Molybdenum	95-1	139205	137441	137172	137940	0.80	cps
Molybdenum	96-1	152985	155465	153497	153983	0.85	cps
Molybdenum	97-1	85102	83801	83590	84164	0.97	cps
Molybdenum	98-1	221873	219154	214951	218659	1.59	cps
Neodymium	150-1	168210	168420	167527	168052	0.28	cps
Neodymium	150-2	41979	42370	41661	42003	0.85	cps
Nickel	60-2	248702	249326	248407	248812	0.19	cps
Phosphorus	31-2	3651	3440	3467	3519	3.25	cps
Potassium	39-2	746140	736698	744499	742446	0.68	cps
Rhodium	103-1	24598023	26070533	26007846	25558801	3.26	cps
Rhodium	103-2	9968688	9757411	9729984	9818694	1.33	cps
Scandium	45-1	19859733	21968406	21247162	21025101	5.10	cps
Scandium	45-2	401350	400560	406310	402740	0.77	cps
Selenium	82-1	331	180	307	273	29.65	cps
Selenium	77-2	193	210	280	228	20.19	cps
Selenium	78-2	167	150	173	163	7.36	cps
Silicon	28-1	47204279	45804313	46737544	46582045	1.53	cps
Silver	107-1	5605	4664	4194	4821	14.90	cps
Silver	109-1	5268	4224	4127	4540	13.93	cps
Sodium	23-2	404358	408221	410477	407685	0.76	cps
Strontium	86-1	391355	391849	386368	389857	0.78	cps
Strontium	88-1	3566448	3547892	3533908	3549416	0.46	cps
Sulfur	34-1	663256	669756	670011	667674	0.57	cps
Terbium	159-1	31539830	33865193	33049723	32818249	3.60	cps
Terbium	159-2	10967769	10979266	10878407	10941814	0.50	cps
Thallium	203-1	7446	7442	7225	7371	1.71	cps
Thallium	205-1	17285	17171	17235	17230	0.33	cps
Tin	118-1	18663	18583	18896	18714	0.87	cps
Titanium	47-1	491350	497182	490203	492912	0.76	cps
Uranium	238-1	104415	102069	102509	102998	1.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-01	Instrumnet Name :	P8
Client Sample ID :	ME28N9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:31:50	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	149316	150081	151496	150298	0.74	cps
Ytterbium	172-1	28304	28053	28003	28120	0.57	cps
Ytterbium	172-2	11805	11525	11629	11653	1.22	cps
Ytterbium	176-1	21584	21304	21267	21385	0.81	cps
Ytterbium	176-2	8269	7962	7966	8066	2.18	cps
Yttrium	89-1	43453284	46867849	45453401	45258178	3.79	cps
Yttrium	89-2	3412455	3372703	3341242	3375466	1.06	cps
Zinc	66-2	98909	98375	98701	98662	0.27	cps
Zirconium	90-1	111357	111659	108740	110585	1.45	cps
Zirconium	91-1	24555	24608	24201	24455	0.91	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2034171	2068847	2059983	2054334	0.88	cps
Antimony	121-1	5474	5611	5521	5536	1.26	cps
Arsenic	75-2	7649	7722	7665	7679	0.50	cps
Barium	135-1	766173	772211	757181	765188	0.99	cps
Barium	137-1	1324289	1311867	1319467	1318541	0.47	cps
Beryllium	9-1	9717	9783	9374	9624	2.28	cps
Bismuth	209-1	19245148	19273625	18541425	19020066	2.18	cps
Bismuth	209-2	7969669	7832300	7760886	7854285	1.35	cps
Bromine	81-1	20292	20879	21567	20912	3.05	cps
Cadmium	108-1	410	473	473	452	8.09	cps
Cadmium	106-1	13513	13180	13083	13259	1.70	cps
Cadmium	111-1	11903	11671	11650	11741	1.19	cps
Calcium	43-1	413524	419105	412057	414895	0.90	cps
Calcium	44-1	6939393	6893484	6733347	6855408	1.58	cps
Carbon	12-1	7214753	7262302	7216091	7231049	0.37	cps
Carbon	12-2	46463	46804	46166	46478	0.69	cps
Chlorine	35-1	259302943	263697456	264306996	262435798	1.04	cps
Chlorine	35-2	1115578	1146481	1124419	1128826	1.41	cps
Chromium	52-2	185885	188648	188746	187759	0.87	cps
Cobalt	59-2	233947	230109	229557	231204	1.03	cps
Copper	63-2	343498	340901	350863	345087	1.50	cps
Dysprosium	156-1	170861	169385	169153	169800	0.55	cps
Dysprosium	156-2	57235	56696	56857	56929	0.49	cps
Erbium	164-1	151562	150493	149637	150564	0.64	cps
Erbium	164-2	51971	50699	50609	51093	1.49	cps
Gadolinium	160-1	164497	162092	162369	162986	0.81	cps
Gadolinium	160-2	67700	66917	67315	67311	0.58	cps
Holmium	165-1	33082297	32496161	32081178	32553212	1.55	cps
Holmium	165-2	11319882	11350212	11083556	11251217	1.30	cps
Indium	115-1	27293342	27147463	26784506	27075103	0.97	cps
Indium	115-2	2819849	2812524	2829915	2820762	0.31	cps
Iron	54-2	10303437	10308524	10204628	10272196	0.57	cps
Iron	56-2	189623064	189182231	189160804	189322033	0.14	cps
Iron	57-2	4830596	4763426	4768286	4787436	0.78	cps
Krypton	83-1	827	743	800	790	5.39	cps
Lead	206-1	438177	439063	436175	437805	0.34	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	354648	355259	358562	356156	0.59	cps
Lead	208-1	1672505	1668404	1666552	1669154	0.18	cps
Lithium	6-1	10966635	10955451	10280741	10734276	3.66	cps
Magnesium	24-2	2362549	2363708	2312527	2346261	1.25	cps
Manganese	55-2	1829820	1838498	1863152	1843824	0.94	cps
Molybdenum	94-1	126435	126425	127138	126666	0.32	cps
Molybdenum	95-1	131879	131906	132019	131935	0.06	cps
Molybdenum	96-1	150933	150320	148618	149957	0.80	cps
Molybdenum	97-1	81085	80572	80227	80628	0.54	cps
Molybdenum	98-1	209633	207638	207999	208423	0.51	cps
Neodymium	150-1	238407	238467	235970	237614	0.60	cps
Neodymium	150-2	59156	58343	58979	58826	0.73	cps
Nickel	60-2	171459	168451	168090	169333	1.09	cps
Phosphorus	31-2	2304	2274	2417	2331	3.24	cps
Potassium	39-2	720781	723063	711594	718479	0.84	cps
Rhodium	103-1	25933116	25842502	25427715	25734445	1.05	cps
Rhodium	103-2	9957643	9774669	9660621	9797644	1.53	cps
Scandium	45-1	21563617	21616936	21273099	21484551	0.86	cps
Scandium	45-2	406834	406159	408061	407018	0.24	cps
Selenium	82-1	160	237	113	170	36.67	cps
Selenium	77-2	313	357	357	342	7.31	cps
Selenium	78-2	223	263	250	246	8.29	cps
Silicon	28-1	59097554	57751361	58738959	58529291	1.19	cps
Silver	107-1	2810	2870	2744	2808	2.26	cps
Silver	109-1	2510	2400	2584	2498	3.69	cps
Sodium	23-2	379515	378224	376791	378177	0.36	cps
Strontium	86-1	318285	317575	320675	318845	0.51	cps
Strontium	88-1	2877700	2855789	2863632	2865707	0.39	cps
Sulfur	34-1	552620	548727	537202	546183	1.47	cps
Terbium	159-1	33965720	33343356	33007561	33438879	1.45	cps
Terbium	159-2	11055984	11094013	10955945	11035314	0.65	cps
Thallium	203-1	9137	8753	9140	9010	2.47	cps
Thallium	205-1	22032	21678	22052	21921	0.96	cps
Tin	118-1	16383	15963	16190	16179	1.30	cps
Titanium	47-1	531170	533587	527852	530870	0.54	cps
Uranium	238-1	117407	117511	116373	117097	0.54	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-02	Instrumnet Name :	P8
Client Sample ID :	ME28P0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:35:02	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	191274	189120	189416	189936	0.61	cps
Ytterbium	172-1	41625	41742	41819	41729	0.23	cps
Ytterbium	172-2	17225	17051	16954	17077	0.80	cps
Ytterbium	176-1	29480	29480	29750	29570	0.53	cps
Ytterbium	176-2	11492	11455	11558	11502	0.46	cps
Yttrium	89-1	46818993	47212033	45777488	46602838	1.59	cps
Yttrium	89-2	3432131	3387186	3332569	3383962	1.47	cps
Zinc	66-2	91107	91982	91245	91445	0.51	cps
Zirconium	90-1	142981	142674	144341	143332	0.62	cps
Zirconium	91-1	32090	31285	32147	31841	1.51	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1125051	1113967	1142972	1127330	1.30	cps
Antimony	121-1	10938	11512	11385	11278	2.67	cps
Arsenic	75-2	4894	4948	5181	5008	3.05	cps
Barium	135-1	744430	743965	751270	746555	0.55	cps
Barium	137-1	1290952	1269541	1274626	1278373	0.88	cps
Beryllium	9-1	6116	6209	6085	6137	1.06	cps
Bismuth	209-1	18437662	18398671	17869891	18235408	1.74	cps
Bismuth	209-2	7272635	7371270	6834628	7159511	3.99	cps
Bromine	81-1	17144	18095	18129	17789	3.14	cps
Cadmium	108-1	680	697	773	717	6.95	cps
Cadmium	106-1	14678	14518	14468	14554	0.75	cps
Cadmium	111-1	12849	12555	12246	12550	2.40	cps
Calcium	43-1	14216420	13719706	14255126	14063751	2.12	cps
Calcium	44-1	234482683	231922437	234276737	233560619	0.61	cps
Carbon	12-1	5061654	5169902	5227908	5153155	1.64	cps
Carbon	12-2	34220	34407	34888	34505	1.00	cps
Chlorine	35-1	223199343	232498957	236470870	230723057	2.95	cps
Chlorine	35-2	998822	1006639	1014583	1006681	0.78	cps
Chromium	52-2	140196	140603	140981	140593	0.28	cps
Cobalt	59-2	150349	152433	152114	151632	0.74	cps
Copper	63-2	253767	252407	252212	252796	0.34	cps
Dysprosium	156-1	92078	91957	91275	91770	0.47	cps
Dysprosium	156-2	29519	29760	29663	29647	0.41	cps
Erbium	164-1	73491	73501	72720	73238	0.61	cps
Erbium	164-2	23925	24142	24793	24287	1.86	cps
Gadolinium	160-1	84411	84301	85874	84862	1.03	cps
Gadolinium	160-2	33947	35120	34725	34597	1.73	cps
Holmium	165-1	32633610	31681350	31389900	31901620	2.04	cps
Holmium	165-2	11078827	10810454	10217164	10702148	4.12	cps
Indium	115-1	27209849	26448429	26330328	26662869	1.79	cps
Indium	115-2	2725818	2703562	2484754	2638045	5.05	cps
Iron	54-2	6815901	6875218	6829815	6840311	0.45	cps
Iron	56-2	126110541	127752335	126028465	126630447	0.77	cps
Iron	57-2	3248479	3218402	3252518	3239800	0.58	cps
Krypton	83-1	780	797	707	761	6.29	cps
Lead	206-1	251391	251098	250513	251001	0.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	197787	195835	197273	196965	0.51	cps
Lead	208-1	938486	933163	933318	934989	0.32	cps
Lithium	6-1	9787123	10356060	9985630	10042938	2.88	cps
Magnesium	24-2	18688068	18977506	18882140	18849238	0.78	cps
Manganese	55-2	1336070	1338362	1334005	1336146	0.16	cps
Molybdenum	94-1	184220	185142	186756	185372	0.69	cps
Molybdenum	95-1	81766	82295	82241	82101	0.35	cps
Molybdenum	96-1	110139	109258	109434	109610	0.43	cps
Molybdenum	97-1	50672	50154	50518	50448	0.53	cps
Molybdenum	98-1	131429	130116	130126	130557	0.58	cps
Neodymium	150-1	133516	133591	132678	133262	0.38	cps
Neodymium	150-2	32583	32780	32770	32711	0.34	cps
Nickel	60-2	113031	113210	113535	113259	0.23	cps
Phosphorus	31-2	3304	3254	3237	3265	1.06	cps
Potassium	39-2	475755	484034	484162	481317	1.00	cps
Rhodium	103-1	24462310	23747230	24038035	24082525	1.49	cps
Rhodium	103-2	9318143	9166429	8593037	9025870	4.24	cps
Scandium	45-1	21064908	21046508	20449177	20853531	1.68	cps
Scandium	45-2	394935	387599	368411	383648	3.57	cps
Selenium	82-1	144	5	174	108	84.09	cps
Selenium	77-2	190	203	150	181	15.33	cps
Selenium	78-2	93	150	123	122	23.20	cps
Silicon	28-1	47681928	49265109	47759773	48235603	1.85	cps
Silver	107-1	3574	3724	4057	3785	6.54	cps
Silver	109-1	3087	3240	3500	3276	6.38	cps
Sodium	23-2	392793	392331	395807	393644	0.48	cps
Strontium	86-1	3434092	3354525	3346852	3378490	1.43	cps
Strontium	88-1	29413147	28720660	28772056	28968621	1.33	cps
Sulfur	34-1	1244554	1275344	1279886	1266595	1.52	cps
Terbium	159-1	33013131	32126814	32537983	32559309	1.36	cps
Terbium	159-2	10539074	10573710	9706429	10273071	4.78	cps
Thallium	203-1	4828	4848	4604	4760	2.84	cps
Thallium	205-1	11348	11395	11195	11313	0.93	cps
Tin	118-1	11712	11862	11165	11579	3.17	cps
Titanium	47-1	791007	780208	782964	784726	0.71	cps
Uranium	238-1	170878	172669	169318	170955	0.98	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-03	Instrumnet Name :	P8
Client Sample ID :	ME28P1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:38:18	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	152139	150804	154150	152364	1.11	cps
Ytterbium	172-1	19721	19418	19621	19587	0.79	cps
Ytterbium	172-2	8043	8069	8146	8086	0.66	cps
Ytterbium	176-1	16654	16641	16227	16507	1.47	cps
Ytterbium	176-2	5895	5938	6075	5969	1.57	cps
Yttrium	89-1	45725449	44259874	43642731	44542685	2.40	cps
Yttrium	89-2	3243061	3228962	3023995	3165339	3.87	cps
Zinc	66-2	67516	68766	68843	68375	1.09	cps
Zirconium	90-1	386870	386891	385557	386439	0.20	cps
Zirconium	91-1	84119	85084	84464	84556	0.58	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1273227	1297482	1264819	1278509	1.33	cps
Antimony	121-1	7896	8012	7719	7876	1.88	cps
Arsenic	75-2	6445	6128	6578	6384	3.62	cps
Barium	135-1	1050952	1055937	1059757	1055549	0.42	cps
Barium	137-1	1877802	1881607	1877940	1879116	0.11	cps
Beryllium	9-1	6883	6975	7202	7020	2.34	cps
Bismuth	209-1	18712303	18340428	18274699	18442477	1.28	cps
Bismuth	209-2	7516819	7443473	7550546	7503613	0.73	cps
Bromine	81-1	18449	19287	19908	19214	3.81	cps
Cadmium	108-1	393	390	413	399	3.16	cps
Cadmium	106-1	13717	13493	13830	13680	1.25	cps
Cadmium	111-1	12524	12319	12572	12472	1.08	cps
Calcium	43-1	12611262	12753614	12817910	12727595	0.83	cps
Calcium	44-1	210113637	210909430	209954970	210326012	0.24	cps
Carbon	12-1	6629077	7006574	6863694	6833115	2.79	cps
Carbon	12-2	46407	44728	45751	45628	1.85	cps
Chlorine	35-1	232386857	240637510	252056603	241693656	4.09	cps
Chlorine	35-2	1059904	1054348	1059038	1057763	0.28	cps
Chromium	52-2	158268	159296	156647	158070	0.84	cps
Cobalt	59-2	157163	157868	157443	157491	0.23	cps
Copper	63-2	269161	269814	267901	268958	0.36	cps
Dysprosium	156-1	102280	103534	102858	102891	0.61	cps
Dysprosium	156-2	34685	34732	34030	34482	1.14	cps
Erbium	164-1	86559	87995	88243	87599	1.04	cps
Erbium	164-2	28915	29486	29499	29300	1.14	cps
Gadolinium	160-1	98564	98064	97966	98198	0.33	cps
Gadolinium	160-2	40745	41127	40016	40629	1.39	cps
Holmium	165-1	32372355	31851018	32220651	32148008	0.83	cps
Holmium	165-2	10904733	11039354	10957155	10967081	0.62	cps
Indium	115-1	26658597	26813495	26519397	26663830	0.55	cps
Indium	115-2	2748220	2731314	2739683	2739739	0.31	cps
Iron	54-2	7130538	7242643	7173976	7182386	0.79	cps
Iron	56-2	132557621	133417815	132397498	132790978	0.41	cps
Iron	57-2	3347657	3319785	3374467	3347303	0.82	cps
Krypton	83-1	710	850	870	810	10.76	cps
Lead	206-1	474141	473453	479087	475560	0.65	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	393691	391287	389718	391566	0.51	cps
Lead	208-1	1827477	1824011	1826566	1826018	0.10	cps
Lithium	6-1	10231776	10138313	9937271	10102453	1.49	cps
Magnesium	24-2	15683379	15436978	15317206	15479187	1.21	cps
Manganese	55-2	2076979	2054139	2007122	2046080	1.74	cps
Molybdenum	94-1	72555	71981	71934	72157	0.48	cps
Molybdenum	95-1	68012	68377	69040	68476	0.76	cps
Molybdenum	96-1	79087	78493	79787	79123	0.82	cps
Molybdenum	97-1	41823	42013	41512	41783	0.61	cps
Molybdenum	98-1	107731	107603	109101	108145	0.77	cps
Neodymium	150-1	147881	146591	149202	147891	0.88	cps
Neodymium	150-2	36724	36139	37011	36624	1.21	cps
Nickel	60-2	103453	105403	104439	104432	0.93	cps
Phosphorus	31-2	3500	3104	3394	3333	6.16	cps
Potassium	39-2	301580	304071	301400	302350	0.49	cps
Rhodium	103-1	24591297	24268395	24366795	24408829	0.68	cps
Rhodium	103-2	9397221	9427151	9264270	9362881	0.93	cps
Scandium	45-1	21007830	20423620	21009176	20813542	1.62	cps
Scandium	45-2	395877	394791	397493	396053	0.34	cps
Selenium	82-1	105	-4	-15	29	232.82	cps
Selenium	77-2	173	240	220	211	16.20	cps
Selenium	78-2	127	163	117	136	18.13	cps
Silicon	28-1	56350012	58316504	57693379	57453299	1.75	cps
Silver	107-1	3340	3330	3520	3397	3.15	cps
Silver	109-1	2854	2927	3314	3031	8.15	cps
Sodium	23-2	337653	337490	341624	338923	0.69	cps
Strontium	86-1	4147742	4203046	4150897	4167228	0.75	cps
Strontium	88-1	35494889	36376278	35794183	35888450	1.25	cps
Sulfur	34-1	809758	816395	829168	818440	1.21	cps
Terbium	159-1	32978589	32964465	32738658	32893904	0.41	cps
Terbium	159-2	10806599	10655226	10554714	10672179	1.19	cps
Thallium	203-1	6912	6859	7045	6939	1.39	cps
Thallium	205-1	16043	16397	17048	16496	3.09	cps
Tin	118-1	15125	14738	15476	15113	2.44	cps
Titanium	47-1	427865	422748	428018	426210	0.70	cps
Uranium	238-1	141110	144507	141987	142535	1.24	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-04	Instrumnet Name :	P8
Client Sample ID :	ME28P2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:41:29	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	148400	148764	147696	148286	0.37	cps
Ytterbium	172-1	23761	23411	24079	23750	1.41	cps
Ytterbium	172-2	9390	9704	9620	9571	1.70	cps
Ytterbium	176-1	18353	17846	18353	18184	1.61	cps
Ytterbium	176-2	6972	6825	6879	6892	1.08	cps
Yttrium	89-1	44931351	45286329	45120859	45112847	0.39	cps
Yttrium	89-2	3296929	3284344	3288855	3290043	0.19	cps
Zinc	66-2	92724	93630	92942	93098	0.51	cps
Zirconium	90-1	94393	96467	96641	95834	1.31	cps
Zirconium	91-1	20759	21039	20846	20881	0.69	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1049352	1039931	1050157	1046480	0.54	cps
Antimony	121-1	47572	46700	46321	46864	1.37	cps
Arsenic	75-2	38065	37760	39007	38277	1.70	cps
Barium	135-1	3873749	3814106	3803995	3830617	0.98	cps
Barium	137-1	6505060	6433547	6462376	6466995	0.56	cps
Beryllium	9-1	8633	8597	8448	8559	1.15	cps
Bismuth	209-1	18529072	18380045	18243467	18384195	0.78	cps
Bismuth	209-2	7423742	7431883	7401094	7418906	0.22	cps
Bromine	81-1	16520	16733	17014	16756	1.48	cps
Cadmium	108-1	2564	2614	2447	2541	3.37	cps
Cadmium	106-1	17815	16870	17211	17299	2.77	cps
Cadmium	111-1	38391	36893	36937	37407	2.28	cps
Calcium	43-1	13517067	13431734	13207277	13385360	1.20	cps
Calcium	44-1	220122370	216891757	214808163	217274097	1.23	cps
Carbon	12-1	6526636	6544195	6459503	6510111	0.69	cps
Carbon	12-2	41759	41375	43006	42047	2.03	cps
Chlorine	35-1	234686023	246644763	246941823	242757536	2.88	cps
Chlorine	35-2	1051468	1045194	1049478	1048713	0.31	cps
Chromium	52-2	218821	219953	222170	220314	0.77	cps
Cobalt	59-2	91200	92656	92022	91959	0.79	cps
Copper	63-2	706501	717542	712361	712134	0.78	cps
Dysprosium	156-1	58886	58835	58350	58690	0.50	cps
Dysprosium	156-2	18980	19194	18947	19040	0.70	cps
Erbium	164-1	53430	53089	54009	53509	0.87	cps
Erbium	164-2	17615	17535	17442	17531	0.50	cps
Gadolinium	160-1	54012	53858	53868	53913	0.16	cps
Gadolinium	160-2	22392	22719	22462	22525	0.77	cps
Holmium	165-1	32556294	32065422	31447330	32023015	1.74	cps
Holmium	165-2	11019534	10784630	10798262	10867475	1.21	cps
Indium	115-1	26972541	26224295	26358010	26518282	1.50	cps
Indium	115-2	2686904	2723525	2721308	2710579	0.76	cps
Iron	54-2	10652606	10489709	10523148	10555154	0.82	cps
Iron	56-2	194083304	191839444	188607144	191509964	1.44	cps
Iron	57-2	4885809	4855298	4867158	4869422	0.32	cps
Krypton	83-1	617	790	713	707	12.29	cps
Lead	206-1	22117620	22062260	21786606	21988828	0.81	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17666184	17910127	17384563	17653625	1.49	cps
Lead	208-1	82977321	83935303	82795493	83236039	0.74	cps
Lithium	6-1	10565156	10106658	9931856	10201224	3.21	cps
Magnesium	24-2	6551221	6478450	6529555	6519742	0.57	cps
Manganese	55-2	1202704	1183447	1173937	1186696	1.24	cps
Molybdenum	94-1	211370	209595	209240	210068	0.54	cps
Molybdenum	95-1	76509	76116	75312	75979	0.80	cps
Molybdenum	96-1	111540	110324	109689	110517	0.85	cps
Molybdenum	97-1	46715	46621	46511	46616	0.22	cps
Molybdenum	98-1	120874	119953	120804	120544	0.43	cps
Neodymium	150-1	83065	82901	82706	82891	0.22	cps
Neodymium	150-2	20579	20526	20526	20544	0.15	cps
Nickel	60-2	94404	92438	92099	92980	1.34	cps
Phosphorus	31-2	2797	2730	2767	2765	1.21	cps
Potassium	39-2	344395	341725	341866	342662	0.44	cps
Rhodium	103-1	25298694	24634623	23961150	24631489	2.72	cps
Rhodium	103-2	9307239	9269678	9328208	9301708	0.32	cps
Scandium	45-1	20855749	20814838	20891902	20854163	0.18	cps
Scandium	45-2	395215	390682	387823	391240	0.95	cps
Selenium	82-1	2130	1939	2179	2083	6.08	cps
Selenium	77-2	163	137	157	152	9.12	cps
Selenium	78-2	167	167	210	181	13.81	cps
Silicon	28-1	76823621	76906939	75988481	76573013	0.66	cps
Silver	107-1	4431	4574	4637	4547	2.33	cps
Silver	109-1	3694	3474	3627	3598	3.14	cps
Sodium	23-2	508885	507164	507724	507924	0.17	cps
Strontium	86-1	4966153	5011160	4900702	4959339	1.12	cps
Strontium	88-1	43241089	42579604	42417536	42746076	1.02	cps
Sulfur	34-1	1023528	1008521	1007083	1013044	0.90	cps
Terbium	159-1	33092895	32467650	31893992	32484846	1.85	cps
Terbium	159-2	10687873	10568692	10541720	10599428	0.73	cps
Thallium	203-1	18941	19061	18657	18886	1.10	cps
Thallium	205-1	45687	45279	45048	45338	0.71	cps
Tin	118-1	120837	118282	119755	119625	1.07	cps
Titanium	47-1	1751097	1743503	1750860	1748487	0.25	cps
Uranium	238-1	146985	145857	144102	145648	1.00	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-05	Instrumnet Name :	P8
Client Sample ID :	ME28P3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:44:43	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	161847	160339	160159	160781	0.58	cps
Ytterbium	172-1	16454	16847	16731	16677	1.21	cps
Ytterbium	172-2	7019	6932	7005	6985	0.67	cps
Ytterbium	176-1	15252	15025	14845	15041	1.36	cps
Ytterbium	176-2	5264	5198	5274	5246	0.79	cps
Yttrium	89-1	44416118	44248326	43476884	44047109	1.14	cps
Yttrium	89-2	3230477	3217942	3169235	3205884	1.01	cps
Zinc	66-2	888957	892311	888431	889900	0.24	cps
Zirconium	90-1	474256	469748	470013	471339	0.54	cps
Zirconium	91-1	105398	104474	102601	104158	1.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1158870	1148794	1172451	1160038	1.02	cps
Antimony	121-1	10247	9430	9900	9859	4.16	cps
Arsenic	75-2	4617	4627	4577	4607	0.57	cps
Barium	135-1	751254	746766	733841	743954	1.22	cps
Barium	137-1	1292570	1279353	1273376	1281766	0.77	cps
Beryllium	9-1	8381	8117	8176	8224	1.68	cps
Bismuth	209-1	18846731	17922974	17364390	18044698	4.15	cps
Bismuth	209-2	7152179	6972647	7185274	7103366	1.61	cps
Bromine	81-1	15662	15909	16607	16059	3.05	cps
Cadmium	108-1	857	787	737	793	7.60	cps
Cadmium	106-1	15285	14778	14404	14823	2.98	cps
Cadmium	111-1	12504	12067	11774	12115	3.03	cps
Calcium	43-1	18670519	18478888	18245142	18464850	1.15	cps
Calcium	44-1	303458182	299260422	301876496	301531700	0.70	cps
Carbon	12-1	5481935	5491929	5534894	5502919	0.51	cps
Carbon	12-2	36789	36796	36335	36640	0.72	cps
Chlorine	35-1	269312983	279012243	276462336	274929187	1.83	cps
Chlorine	35-2	1192580	1176432	1202837	1190616	1.12	cps
Chromium	52-2	135286	135599	135798	135561	0.19	cps
Cobalt	59-2	105749	105168	104782	105233	0.46	cps
Copper	63-2	282571	283804	283328	283234	0.22	cps
Dysprosium	156-1	98153	98677	97183	98005	0.77	cps
Dysprosium	156-2	32700	31297	31855	31950	2.21	cps
Erbium	164-1	82483	81072	82829	82128	1.13	cps
Erbium	164-2	26266	27265	27124	26885	2.01	cps
Gadolinium	160-1	90709	91709	90890	91103	0.58	cps
Gadolinium	160-2	36700	37603	36821	37041	1.32	cps
Holmium	165-1	33555372	31705869	31052310	32104517	4.04	cps
Holmium	165-2	10599471	10198729	10506004	10434735	2.01	cps
Indium	115-1	27583763	25813592	25345743	26247699	4.50	cps
Indium	115-2	2620576	2494959	2560564	2558700	2.46	cps
Iron	54-2	5889612	5916410	5922321	5909448	0.29	cps
Iron	56-2	108004632	107709118	108412805	108042185	0.33	cps
Iron	57-2	2726696	2741984	2721208	2729963	0.39	cps
Krypton	83-1	790	743	803	779	4.04	cps
Lead	206-1	257327	255935	258335	257199	0.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	205619	209634	210245	208499	1.21	cps
Lead	208-1	974544	976979	978358	976627	0.20	cps
Lithium	6-1	10611355	9924260	9740966	10092194	4.55	cps
Magnesium	24-2	17750919	17657808	17594762	17667830	0.44	cps
Manganese	55-2	1948366	2010537	2004167	1987690	1.72	cps
Molybdenum	94-1	211276	211869	209427	210857	0.60	cps
Molybdenum	95-1	71114	71174	70253	70847	0.73	cps
Molybdenum	96-1	103740	101997	102333	102690	0.90	cps
Molybdenum	97-1	43056	43792	42465	43104	1.54	cps
Molybdenum	98-1	111792	112048	109219	111020	1.41	cps
Neodymium	150-1	139322	142203	139890	140472	1.09	cps
Neodymium	150-2	34501	34063	34441	34335	0.69	cps
Nickel	60-2	82222	82695	82437	82452	0.29	cps
Phosphorus	31-2	3284	3177	3250	3237	1.69	cps
Potassium	39-2	482148	476524	481518	480063	0.64	cps
Rhodium	103-1	24852348	23548432	23075060	23825280	3.86	cps
Rhodium	103-2	8905147	8486970	8684104	8692074	2.41	cps
Scandium	45-1	21823541	20370288	19938131	20710653	4.77	cps
Scandium	45-2	378555	367482	375113	373717	1.52	cps
Selenium	82-1	127	210	147	161	26.89	cps
Selenium	77-2	240	177	193	203	16.15	cps
Selenium	78-2	100	143	153	132	21.44	cps
Silicon	28-1	299724462	301246162	305937669	302302764	1.07	cps
Silver	107-1	2744	3077	3394	3071	10.58	cps
Silver	109-1	2140	2374	2694	2402	11.57	cps
Sodium	23-2	705760	717780	712716	712086	0.85	cps
Strontium	86-1	8067095	8015943	7833889	7972309	1.54	cps
Strontium	88-1	69557307	69238504	68549552	69115121	0.75	cps
Sulfur	34-1	983198	1002463	983356	989673	1.12	cps
Terbium	159-1	34128909	32062515	31434010	32541811	4.33	cps
Terbium	159-2	10348778	10071218	10047367	10155788	1.65	cps
Thallium	203-1	6328	6505	6575	6469	1.97	cps
Thallium	205-1	15456	15386	15249	15364	0.68	cps
Tin	118-1	130707	131551	130599	130952	0.40	cps
Titanium	47-1	1095100	1080880	1073806	1083262	1.00	cps
Uranium	238-1	151505	150494	151760	151253	0.44	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-06	Instrumnet Name :	P8
Client Sample ID :	ME28P4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:47:50	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	103141	103934	103534	103536	0.38	cps
Ytterbium	172-1	22536	21838	22339	22238	1.62	cps
Ytterbium	172-2	9153	9163	9097	9138	0.39	cps
Ytterbium	176-1	18910	18223	18079	18404	2.41	cps
Ytterbium	176-2	6632	6708	6682	6674	0.58	cps
Yttrium	89-1	46329418	43380153	42891646	44200405	4.21	cps
Yttrium	89-2	3121227	2975305	3105130	3067220	2.61	cps
Zinc	66-2	70297	70615	70400	70437	0.23	cps
Zirconium	90-1	479221	478735	472316	476757	0.81	cps
Zirconium	91-1	106534	105878	103766	105392	1.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1887520	1915282	1938484	1913762	1.33	cps
Antimony	121-1	8056	8082	8069	8069	0.17	cps
Arsenic	75-2	9530	9136	9253	9306	2.17	cps
Barium	135-1	890889	900691	893803	895127	0.56	cps
Barium	137-1	1549713	1567848	1570793	1562785	0.73	cps
Beryllium	9-1	10878	10883	10686	10816	1.04	cps
Bismuth	209-1	19200215	18708258	19116936	19008469	1.39	cps
Bismuth	209-2	7779375	7659707	7554448	7664510	1.47	cps
Bromine	81-1	19600	20993	21303	20632	4.39	cps
Cadmium	108-1	457	533	450	480	9.65	cps
Cadmium	106-1	14004	14157	13640	13934	1.91	cps
Cadmium	111-1	12997	13047	12867	12970	0.72	cps
Calcium	43-1	809740	808740	808051	808844	0.10	cps
Calcium	44-1	13628820	13593094	13458851	13560255	0.66	cps
Carbon	12-1	8508294	8643451	8683047	8611597	1.06	cps
Carbon	12-2	54022	53490	53530	53681	0.55	cps
Chlorine	35-1	260632063	267941469	266306176	264959903	1.45	cps
Chlorine	35-2	1121577	1127927	1136248	1128584	0.65	cps
Chromium	52-2	198683	197091	199935	198570	0.72	cps
Cobalt	59-2	277060	279672	277216	277983	0.53	cps
Copper	63-2	339298	335150	338856	337768	0.67	cps
Dysprosium	156-1	135435	136944	134203	135527	1.01	cps
Dysprosium	156-2	43069	43554	42939	43187	0.75	cps
Erbium	164-1	111139	112991	111206	111779	0.94	cps
Erbium	164-2	37055	37306	37269	37210	0.36	cps
Gadolinium	160-1	123045	123444	120401	122297	1.35	cps
Gadolinium	160-2	49829	49338	50991	50052	1.70	cps
Holmium	165-1	32641931	32400198	32155010	32399046	0.75	cps
Holmium	165-2	11037452	11006733	10990589	11011591	0.22	cps
Indium	115-1	27425776	27552265	27002709	27326917	1.05	cps
Indium	115-2	2760891	2768100	2710516	2746502	1.14	cps
Iron	54-2	11152279	11038240	11164830	11118450	0.63	cps
Iron	56-2	201564264	200407110	203589037	201853470	0.80	cps
Iron	57-2	5163711	5134776	5140634	5146374	0.30	cps
Krypton	83-1	683	733	693	703	3.76	cps
Lead	206-1	706085	705264	702286	704545	0.28	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	578496	574590	573824	575637	0.44	cps
Lead	208-1	2703773	2695090	2696961	2698608	0.17	cps
Lithium	6-1	10780649	10605628	10018527	10468268	3.81	cps
Magnesium	24-2	2365505	2388751	2409053	2387770	0.91	cps
Manganese	55-2	4433622	4440210	4472281	4448704	0.46	cps
Molybdenum	94-1	98825	98912	97774	98503	0.64	cps
Molybdenum	95-1	93538	93140	91196	92625	1.35	cps
Molybdenum	96-1	107425	107042	107021	107162	0.21	cps
Molybdenum	97-1	56390	56086	56454	56310	0.35	cps
Molybdenum	98-1	146477	147100	146231	146603	0.31	cps
Neodymium	150-1	191587	190212	192223	191341	0.54	cps
Neodymium	150-2	46661	46136	46935	46577	0.87	cps
Nickel	60-2	123665	122182	125961	123936	1.54	cps
Phosphorus	31-2	2864	2770	2697	2777	3.01	cps
Potassium	39-2	354024	352878	350936	352613	0.44	cps
Rhodium	103-1	25644051	25913027	25410320	25655799	0.98	cps
Rhodium	103-2	9581140	9741939	9425488	9582856	1.65	cps
Scandium	45-1	21054003	21460856	21183937	21232932	0.98	cps
Scandium	45-2	399501	402479	395522	399167	0.87	cps
Selenium	82-1	345	255	351	317	17.01	cps
Selenium	77-2	223	267	273	254	10.67	cps
Selenium	78-2	190	173	183	182	4.60	cps
Silicon	28-1	47469183	46410561	47369781	47083175	1.24	cps
Silver	107-1	4087	4301	4131	4173	2.70	cps
Silver	109-1	3647	3534	3837	3673	4.17	cps
Sodium	23-2	417564	421891	423212	420889	0.70	cps
Strontium	86-1	1361852	1332522	1343063	1345813	1.10	cps
Strontium	88-1	11982926	12107331	11669047	11919768	1.89	cps
Sulfur	34-1	686291	681631	662499	676807	1.86	cps
Terbium	159-1	33348272	33389869	32334268	33024136	1.81	cps
Terbium	159-2	10768477	10694406	10623967	10695617	0.68	cps
Thallium	203-1	7849	8046	8103	7999	1.66	cps
Thallium	205-1	19678	20056	19228	19654	2.11	cps
Tin	118-1	19481	19314	19531	19442	0.58	cps
Titanium	47-1	478065	482669	481325	480686	0.49	cps
Uranium	238-1	173210	172656	169784	171884	1.07	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-07	Instrumnet Name :	P8
Client Sample ID :	ME28P5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:51:04	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	218006	218736	222246	219663	1.03	cps
Ytterbium	172-1	30318	30829	30809	30652	0.94	cps
Ytterbium	172-2	11895	12259	12609	12255	2.91	cps
Ytterbium	176-1	22813	23124	22816	22918	0.78	cps
Ytterbium	176-2	8930	8693	8469	8697	2.65	cps
Yttrium	89-1	46114688	45718724	45497583	45776998	0.68	cps
Yttrium	89-2	3324029	3298327	3261622	3294659	0.95	cps
Zinc	66-2	92509	92570	92144	92408	0.25	cps
Zirconium	90-1	129596	130372	130261	130077	0.32	cps
Zirconium	91-1	28750	29154	28733	28879	0.82	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1125217	1144749	1135660	1135208	0.86	cps
Antimony	121-1	8486	8713	8666	8622	1.39	cps
Arsenic	75-2	6068	6231	6388	6229	2.57	cps
Barium	135-1	733271	735500	732531	733767	0.21	cps
Barium	137-1	1267584	1265904	1264116	1265868	0.14	cps
Beryllium	9-1	5838	5704	5586	5709	2.21	cps
Bismuth	209-1	18619720	18035786	18176390	18277299	1.67	cps
Bismuth	209-2	7303739	7390982	7322327	7339016	0.63	cps
Bromine	81-1	16864	17661	17808	17444	2.91	cps
Cadmium	108-1	600	513	527	547	8.54	cps
Cadmium	106-1	14177	14111	13754	14014	1.63	cps
Cadmium	111-1	11088	11352	10992	11144	1.67	cps
Calcium	43-1	18927788	18584028	18428546	18646787	1.37	cps
Calcium	44-1	315519122	309092089	305196555	309935922	1.68	cps
Carbon	12-1	5694904	5944116	5832300	5823773	2.14	cps
Carbon	12-2	39296	38657	39059	39004	0.83	cps
Chlorine	35-1	287241276	295091842	297970556	293434558	1.89	cps
Chlorine	35-2	1309160	1292386	1301947	1301164	0.65	cps
Chromium	52-2	127794	126409	129097	127767	1.05	cps
Cobalt	59-2	149435	151961	150527	150641	0.84	cps
Copper	63-2	313876	314470	313136	313827	0.21	cps
Dysprosium	156-1	115846	115551	115803	115733	0.14	cps
Dysprosium	156-2	38499	38783	39127	38803	0.81	cps
Erbium	164-1	99277	99008	99894	99393	0.46	cps
Erbium	164-2	32439	33124	32326	32630	1.32	cps
Gadolinium	160-1	111703	110987	109689	110793	0.92	cps
Gadolinium	160-2	45618	45404	45949	45657	0.60	cps
Holmium	165-1	32606338	32138794	31891770	32212300	1.13	cps
Holmium	165-2	10936301	10865185	10824197	10875227	0.52	cps
Indium	115-1	27109558	26350015	26429714	26629762	1.57	cps
Indium	115-2	2694750	2722383	2675540	2697557	0.87	cps
Iron	54-2	7400199	7519642	7464556	7461466	0.80	cps
Iron	56-2	136438575	136644958	138037408	137040314	0.63	cps
Iron	57-2	3476011	3561735	3517948	3518564	1.22	cps
Krypton	83-1	877	887	883	882	0.58	cps
Lead	206-1	303302	306004	299212	302839	1.13	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	245333	248149	245041	246174	0.70	cps
Lead	208-1	1160521	1159043	1149886	1156483	0.50	cps
Lithium	6-1	9823108	9807020	9904061	9844730	0.53	cps
Magnesium	24-2	9875259	10013843	9901857	9930320	0.74	cps
Manganese	55-2	1989700	1993140	1999554	1994132	0.25	cps
Molybdenum	94-1	169786	168905	169593	169428	0.27	cps
Molybdenum	95-1	123001	122928	121065	122331	0.90	cps
Molybdenum	96-1	146752	147686	148534	147657	0.60	cps
Molybdenum	97-1	75427	75051	74646	75041	0.52	cps
Molybdenum	98-1	195352	193485	192112	193650	0.84	cps
Neodymium	150-1	170458	167035	169127	168873	1.02	cps
Neodymium	150-2	41236	41374	41531	41380	0.36	cps
Nickel	60-2	110146	112063	111022	111077	0.86	cps
Phosphorus	31-2	4401	4251	4427	4360	2.19	cps
Potassium	39-2	402270	399443	400902	400872	0.35	cps
Rhodium	103-1	24508416	24264066	24370583	24381022	0.50	cps
Rhodium	103-2	9124422	9228162	9296405	9216330	0.94	cps
Scandium	45-1	21031323	20746011	21167726	20981687	1.03	cps
Scandium	45-2	389698	391566	388469	389911	0.40	cps
Selenium	82-1	-27	-40	-67	-45	-46.33	cps
Selenium	77-2	233	233	190	219	11.43	cps
Selenium	78-2	183	157	147	162	11.68	cps
Silicon	28-1	42276004	44631361	42170071	43025812	3.23	cps
Silver	107-1	2427	2404	2760	2530	7.89	cps
Silver	109-1	1757	1900	2140	1932	10.02	cps
Sodium	23-2	469892	471916	472538	471449	0.29	cps
Strontium	86-1	2896899	2855529	2842957	2865129	0.99	cps
Strontium	88-1	24387964	24689210	24263407	24446860	0.90	cps
Sulfur	34-1	701489	705546	703660	703565	0.29	cps
Terbium	159-1	33131370	32274920	31860141	32422144	2.00	cps
Terbium	159-2	10905597	10686523	10686432	10759517	1.18	cps
Thallium	203-1	9544	9337	8940	9273	3.31	cps
Thallium	205-1	21525	21882	21879	21762	0.94	cps
Tin	118-1	12980	12522	12703	12735	1.81	cps
Titanium	47-1	901758	906415	912885	907019	0.62	cps
Uranium	238-1	133689	133385	130984	132686	1.12	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-08	Instrumnet Name :	P8
Client Sample ID :	ME28P6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:54:17	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	125972	125366	125353	125564	0.28	cps
Ytterbium	172-1	26750	26567	26199	26505	1.06	cps
Ytterbium	172-2	10921	10024	10688	10544	4.42	cps
Ytterbium	176-1	20536	20489	20730	20585	0.62	cps
Ytterbium	176-2	7742	7412	7556	7570	2.19	cps
Yttrium	89-1	47091718	45061813	44593633	45582388	2.91	cps
Yttrium	89-2	3161178	3245358	3273008	3226515	1.81	cps
Zinc	66-2	75835	75915	75620	75790	0.20	cps
Zirconium	90-1	285398	286238	283223	284953	0.55	cps
Zirconium	91-1	63464	62583	61816	62621	1.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	125002	126159	124034	125065	0.85	cps
Antimony	121-1	4534	4521	4407	4487	1.55	cps
Arsenic	75-2	1167	1223	1140	1177	3.62	cps
Barium	135-1	231753	230740	230759	231084	0.25	cps
Barium	137-1	399571	401284	399994	400283	0.22	cps
Beryllium	9-1	3409	3318	3319	3349	1.56	cps
Bismuth	209-1	17034868	16926337	16962455	16974553	0.33	cps
Bismuth	209-2	7025277	7089654	7377716	7164215	2.62	cps
Bromine	81-1	16283	16693	16884	16620	1.85	cps
Cadmium	108-1	207	257	210	224	12.46	cps
Cadmium	106-1	13000	13000	13076	13025	0.34	cps
Cadmium	111-1	9592	9667	9690	9649	0.53	cps
Calcium	43-1	36044037	36850302	34997388	35963909	2.58	cps
Calcium	44-1	599998138	599908711	589500538	596469129	1.01	cps
Carbon	12-1	4741065	4758418	4731806	4743763	0.28	cps
Carbon	12-2	37922	38006	37936	37955	0.12	cps
Chlorine	35-1	263366769	266444509	274386849	268066043	2.12	cps
Chlorine	35-2	1223392	1171409	1227476	1207426	2.59	cps
Chromium	52-2	47565	47415	48134	47705	0.80	cps
Cobalt	59-2	16793	17170	16693	16886	1.49	cps
Copper	63-2	58560	58202	59581	58781	1.22	cps
Dysprosium	156-1	20346	20679	20249	20425	1.11	cps
Dysprosium	156-2	7345	7342	6979	7222	2.92	cps
Erbium	164-1	21811	21611	21411	21611	0.93	cps
Erbium	164-2	7666	7275	7456	7465	2.62	cps
Gadolinium	160-1	20399	21184	20997	20860	1.96	cps
Gadolinium	160-2	8526	8826	8483	8612	2.17	cps
Holmium	165-1	30954090	30449959	30723796	30709282	0.82	cps
Holmium	165-2	10764072	10933937	11537644	11078551	3.67	cps
Indium	115-1	25301448	24869438	25106912	25092599	0.86	cps
Indium	115-2	2676302	2713041	2833711	2741018	3.00	cps
Iron	54-2	969818	964694	969691	968067	0.30	cps
Iron	56-2	18176431	18022908	17948090	18049143	0.64	cps
Iron	57-2	444572	443217	439418	442402	0.60	cps
Krypton	83-1	707	843	860	803	10.47	cps
Lead	206-1	84412	85348	85235	84998	0.60	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	60665	61632	61163	61153	0.79	cps
Lead	208-1	293659	296247	294605	294837	0.44	cps
Lithium	6-1	9892251	9810682	10093595	9932176	1.47	cps
Magnesium	24-2	80496984	79037135	78059819	79197979	1.55	cps
Manganese	55-2	394991	393129	393851	393990	0.24	cps
Molybdenum	94-1	51592	51923	51358	51624	0.55	cps
Molybdenum	95-1	22956	23290	23383	23209	0.97	cps
Molybdenum	96-1	30734	30203	30971	30636	1.28	cps
Molybdenum	97-1	13940	14274	14224	14146	1.27	cps
Molybdenum	98-1	35803	35692	36077	35857	0.55	cps
Neodymium	150-1	26466	26673	26643	26594	0.42	cps
Neodymium	150-2	6622	6642	6562	6608	0.63	cps
Nickel	60-2	26234	25209	25560	25668	2.03	cps
Phosphorus	31-2	823	700	700	741	9.61	cps
Potassium	39-2	101265	100796	101688	101250	0.44	cps
Rhodium	103-1	22860047	22727393	22658346	22748595	0.45	cps
Rhodium	103-2	8781210	8998122	9459899	9079743	3.82	cps
Scandium	45-1	20162827	19887999	19753884	19934903	1.05	cps
Scandium	45-2	386117	388784	413672	396191	3.84	cps
Selenium	82-1	-33	-133	-154	-107	-60.33	cps
Selenium	77-2	47	37	60	48	24.50	cps
Selenium	78-2	57	50	50	52	7.37	cps
Silicon	28-1	20603671	20006529	20514241	20374814	1.58	cps
Silver	107-1	2717	4831	5918	4489	36.26	cps
Silver	109-1	2187	4281	5618	4028	42.93	cps
Sodium	23-2	519601	517885	526155	521214	0.84	cps
Strontium	86-1	3397655	3422616	3442080	3420784	0.65	cps
Strontium	88-1	29302691	29415097	29506681	29408157	0.35	cps
Sulfur	34-1	985702	993583	1010870	996718	1.29	cps
Terbium	159-1	31621519	31536875	31294190	31484195	0.54	cps
Terbium	159-2	10624222	10674205	11318689	10872372	3.56	cps
Thallium	203-1	2630	2917	2894	2814	5.66	cps
Thallium	205-1	6478	6392	6902	6591	4.14	cps
Tin	118-1	5535	5728	5698	5653	1.84	cps
Titanium	47-1	137325	136734	137596	137218	0.32	cps
Uranium	238-1	249200	252601	244443	248748	1.65	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-09	Instrumnet Name :	P8
Client Sample ID :	ME28P7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 16:57:31	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	41199	40484	40561	40748	0.96	cps
Ytterbium	172-1	7569	7529	7389	7496	1.26	cps
Ytterbium	172-2	3170	2984	3300	3152	5.05	cps
Ytterbium	176-1	8289	8736	8396	8474	2.75	cps
Ytterbium	176-2	2637	2610	2750	2666	2.79	cps
Yttrium	89-1	41873560	42374372	42533038	42260323	0.81	cps
Yttrium	89-2	3162543	3221954	3382075	3255524	3.49	cps
Zinc	66-2	15268	15766	15365	15466	1.70	cps
Zirconium	90-1	109391	110692	111008	110364	0.78	cps
Zirconium	91-1	23510	24441	23954	23968	1.94	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1314033	1288402	1303028	1301821	0.99	cps
Antimony	121-1	87622	87561	86840	87341	0.50	cps
Arsenic	75-2	12035	11858	11825	11906	0.95	cps
Barium	135-1	1410646	1414013	1403409	1409356	0.38	cps
Barium	137-1	2584254	2563845	2514554	2554218	1.40	cps
Beryllium	9-1	9318	9026	9133	9159	1.61	cps
Bismuth	209-1	18914492	19349027	19097977	19120499	1.14	cps
Bismuth	209-2	7874739	7765676	7558765	7733060	2.08	cps
Bromine	81-1	23697	24395	24999	24364	2.68	cps
Cadmium	108-1	1213	1353	1230	1266	6.04	cps
Cadmium	106-1	15275	15562	15255	15364	1.12	cps
Cadmium	111-1	21078	21171	21142	21130	0.23	cps
Calcium	43-1	5897308	5843810	5833850	5858323	0.58	cps
Calcium	44-1	96152222	97000185	94798532	95983646	1.16	cps
Carbon	12-1	21878942	21803954	21958801	21880566	0.35	cps
Carbon	12-2	138068	138300	136271	137547	0.81	cps
Chlorine	35-1	224431503	227255870	227799203	226495526	0.80	cps
Chlorine	35-2	969867	966390	959877	965378	0.53	cps
Chromium	52-2	2070868	2041733	2042040	2051547	0.82	cps
Cobalt	59-2	146597	146730	146078	146468	0.24	cps
Copper	63-2	5117627	5056465	4995095	5056396	1.21	cps
Dysprosium	156-1	109255	110435	108869	109520	0.74	cps
Dysprosium	156-2	34905	35413	35283	35201	0.75	cps
Erbium	164-1	96641	99129	97634	97801	1.28	cps
Erbium	164-2	32617	31982	31287	31962	2.08	cps
Gadolinium	160-1	99803	99759	101516	100359	1.00	cps
Gadolinium	160-2	40966	41200	41060	41075	0.29	cps
Holmium	165-1	32652090	32283956	32271619	32402555	0.67	cps
Holmium	165-2	11340146	11250318	11017539	11202667	1.49	cps
Indium	115-1	27987919	27285090	26982273	27418427	1.88	cps
Indium	115-2	2741541	2799073	2743908	2761507	1.18	cps
Iron	54-2	14688389	14626076	14474478	14596314	0.75	cps
Iron	56-2	268920689	269863303	263972383	267585458	1.18	cps
Iron	57-2	6723862	6825824	6585498	6711728	1.80	cps
Krypton	83-1	737	793	790	773	4.11	cps
Lead	206-1	6336474	6238858	6399329	6324887	1.28	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5393106	5405536	5389294	5395979	0.16	cps
Lead	208-1	24760533	24720532	24750061	24743709	0.08	cps
Lithium	6-1	10465173	10407162	9767737	10213357	3.79	cps
Magnesium	24-2	4472567	4394112	4502044	4456241	1.25	cps
Manganese	55-2	2136371	2157084	2147020	2146825	0.48	cps
Molybdenum	94-1	371166	373116	377078	373787	0.81	cps
Molybdenum	95-1	594887	592849	591129	592955	0.32	cps
Molybdenum	96-1	639980	643050	639678	640903	0.29	cps
Molybdenum	97-1	366308	369984	364917	367070	0.71	cps
Molybdenum	98-1	939991	942525	945329	942615	0.28	cps
Neodymium	150-1	156834	158043	157761	157546	0.40	cps
Neodymium	150-2	38759	38930	38251	38647	0.91	cps
Nickel	60-2	618251	615621	609571	614481	0.72	cps
Phosphorus	31-2	5024	5328	5134	5162	2.98	cps
Potassium	39-2	773008	777271	764325	771535	0.86	cps
Rhodium	103-1	25584215	25156776	24580730	25107240	2.01	cps
Rhodium	103-2	9636537	9629956	9607622	9624705	0.16	cps
Scandium	45-1	21354795	21503746	20490215	21116252	2.59	cps
Scandium	45-2	401377	400606	388097	396693	1.88	cps
Selenium	82-1	164	77	114	118	36.69	cps
Selenium	77-2	170	180	150	167	9.17	cps
Selenium	78-2	173	167	173	171	2.25	cps
Silicon	28-1	100305529	97139809	99051592	98832310	1.61	cps
Silver	107-1	26322	26145	26192	26219	0.35	cps
Silver	109-1	24953	25016	25180	25049	0.47	cps
Sodium	23-2	709612	713582	709341	710845	0.33	cps
Strontium	86-1	2540514	2578646	2559115	2559425	0.74	cps
Strontium	88-1	22034124	21746796	21640578	21807166	0.93	cps
Sulfur	34-1	1006577	994777	989276	996877	0.89	cps
Terbium	159-1	33152317	33010482	32325311	32829370	1.35	cps
Terbium	159-2	10929849	10856526	10710976	10832450	1.03	cps
Thallium	203-1	4764	4761	4964	4830	2.41	cps
Thallium	205-1	11815	11759	12149	11908	1.77	cps
Tin	118-1	1652535	1624882	1615964	1631127	1.17	cps
Titanium	47-1	1521120	1539855	1515279	1525418	0.84	cps
Uranium	238-1	119149	120074	119065	119429	0.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-10	Instrumnet Name :	P8
Client Sample ID :	ME28P8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:00:45	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	185999	186117	185942	186019	0.05	cps
Ytterbium	172-1	30017	30321	29957	30099	0.65	cps
Ytterbium	172-2	12359	12446	12212	12339	0.96	cps
Ytterbium	176-1	22155	22746	21778	22227	2.20	cps
Ytterbium	176-2	8436	8366	8316	8373	0.72	cps
Yttrium	89-1	46767861	45981139	45028234	45925745	1.90	cps
Yttrium	89-2	3397240	3288090	3340725	3342018	1.63	cps
Zinc	66-2	722115	727173	715610	721632	0.80	cps
Zirconium	90-1	103200	102001	102023	102408	0.67	cps
Zirconium	91-1	22388	22395	22381	22388	0.03	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2157796	2287701	2187508	2211002	3.08	cps
Antimony	121-1	105836	105540	104684	105353	0.57	cps
Arsenic	75-2	16620	16366	16833	16607	1.41	cps
Barium	135-1	1889826	1864826	1883476	1879376	0.69	cps
Barium	137-1	3147935	3191364	3214243	3184514	1.06	cps
Beryllium	9-1	9509	9322	9250	9360	1.43	cps
Bismuth	209-1	18087912	18673136	18183153	18314733	1.71	cps
Bismuth	209-2	7495294	7549008	7176266	7406856	2.72	cps
Bromine	81-1	20101	20922	21033	20685	2.46	cps
Cadmium	108-1	1327	1393	1573	1431	8.92	cps
Cadmium	106-1	15502	15813	15539	15618	1.09	cps
Cadmium	111-1	20313	20698	20413	20475	0.97	cps
Calcium	43-1	4659043	4682412	4629234	4656896	0.57	cps
Calcium	44-1	77218787	77143731	75037767	76466762	1.62	cps
Carbon	12-1	13511232	13583592	13654012	13582945	0.53	cps
Carbon	12-2	85893	85450	85876	85739	0.29	cps
Chlorine	35-1	233563990	240120290	245362336	239682205	2.47	cps
Chlorine	35-2	1019244	1022644	1034444	1025444	0.78	cps
Chromium	52-2	2511942	2530824	2514833	2519200	0.40	cps
Cobalt	59-2	378496	379218	387972	381895	1.38	cps
Copper	63-2	5329383	5294354	5237606	5287114	0.88	cps
Dysprosium	156-1	94921	94743	95683	95115	0.52	cps
Dysprosium	156-2	29392	28808	29035	29078	1.01	cps
Erbium	164-1	83949	83758	83885	83864	0.12	cps
Erbium	164-2	28076	28297	28327	28233	0.48	cps
Gadolinium	160-1	82462	81916	82818	82399	0.55	cps
Gadolinium	160-2	33582	33352	33719	33551	0.55	cps
Holmium	165-1	32323664	31435465	31969605	31909578	1.40	cps
Holmium	165-2	11121645	11001745	10467934	10863775	3.20	cps
Indium	115-1	27137265	26784434	27218365	27046688	0.85	cps
Indium	115-2	2737461	2821015	2565297	2707924	4.82	cps
Iron	54-2	67790536	67165414	68652956	67869635	1.10	cps
Iron	56-2	1240583528	1224638195	1219418382	1228213368	0.90	cps
Iron	57-2	30931972	30733538	31512110	31059206	1.30	cps
Krypton	83-1	820	670	673	721	11.88	cps
Lead	206-1	4977481	4971638	4808984	4919368	1.94	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4226221	4167030	4088698	4160650	1.66	cps
Lead	208-1	19374827	19173352	18885063	19144414	1.29	cps
Lithium	6-1	9911949	9944074	9279077	9711700	3.86	cps
Magnesium	24-2	4499419	4632063	4397527	4509670	2.61	cps
Manganese	55-2	4447919	4474445	4366003	4429456	1.28	cps
Molybdenum	94-1	455265	458237	459066	457523	0.44	cps
Molybdenum	95-1	575107	578634	574801	576181	0.37	cps
Molybdenum	96-1	645003	641994	644383	643793	0.25	cps
Molybdenum	97-1	355997	355217	354503	355239	0.21	cps
Molybdenum	98-1	915386	914944	916575	915635	0.09	cps
Neodymium	150-1	137466	135081	137129	136559	0.95	cps
Neodymium	150-2	33017	33609	33802	33476	1.22	cps
Nickel	60-2	875245	870750	875649	873881	0.31	cps
Phosphorus	31-2	3947	4011	3797	3918	2.80	cps
Potassium	39-2	675671	683202	677803	678892	0.57	cps
Rhodium	103-1	25194906	24392306	25073791	24887001	1.74	cps
Rhodium	103-2	9632406	9544000	8949254	9375220	3.96	cps
Scandium	45-1	21298291	21365798	21277688	21313926	0.22	cps
Scandium	45-2	397197	397450	373194	389280	3.58	cps
Selenium	82-1	-27	157	97	76	123.43	cps
Selenium	77-2	130	163	207	167	23.07	cps
Selenium	78-2	103	123	120	116	9.28	cps
Silicon	28-1	137014258	138498581	135136821	136883220	1.23	cps
Silver	107-1	15706	15669	15849	15741	0.60	cps
Silver	109-1	14865	15235	14838	14979	1.48	cps
Sodium	23-2	560265	553252	560588	558035	0.74	cps
Strontium	86-1	1270125	1261362	1268783	1266757	0.37	cps
Strontium	88-1	11235503	11457298	11199224	11297341	1.24	cps
Sulfur	34-1	852371	864543	857151	858022	0.71	cps
Terbium	159-1	32922050	32632164	32610333	32721516	0.53	cps
Terbium	159-2	10650135	10962897	10042585	10551873	4.43	cps
Thallium	203-1	3120	2990	2944	3018	3.03	cps
Thallium	205-1	7062	6942	7142	7049	1.43	cps
Tin	118-1	1288429	1282373	1289288	1286697	0.29	cps
Titanium	47-1	5037331	5151147	5035698	5074725	1.30	cps
Uranium	238-1	117483	120068	117873	118475	1.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-11	Instrumnet Name :	P8
Client Sample ID :	ME28P9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:03:50	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	249788	249552	251710	250350	0.47	cps
Ytterbium	172-1	29333	29670	30412	29805	1.85	cps
Ytterbium	172-2	12289	12306	12049	12215	1.18	cps
Ytterbium	176-1	22255	22599	22723	22526	1.08	cps
Ytterbium	176-2	8623	8683	8710	8672	0.51	cps
Yttrium	89-1	45337699	45686979	46127926	45717535	0.87	cps
Yttrium	89-2	3340492	3259108	3170683	3256761	2.61	cps
Zinc	66-2	338591	341048	341198	340279	0.43	cps
Zirconium	90-1	361073	370415	367796	366428	1.32	cps
Zirconium	91-1	80086	81078	80759	80641	0.63	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1714182	1668638	1691908	1691576	1.35	cps
Antimony	121-1	60969	60811	60245	60675	0.63	cps
Arsenic	75-2	8753	8579	8433	8588	1.87	cps
Barium	135-1	3653248	3626537	3666711	3648832	0.56	cps
Barium	137-1	6148137	6072965	5973388	6064830	1.45	cps
Beryllium	9-1	13441	13038	12869	13116	2.24	cps
Bismuth	209-1	19114688	19328330	18710759	19051259	1.65	cps
Bismuth	209-2	7673742	7735202	7484020	7630988	1.72	cps
Bromine	81-1	47744	49343	50317	49135	2.64	cps
Cadmium	108-1	1760	1883	1880	1841	3.82	cps
Cadmium	106-1	16473	16587	16293	16451	0.90	cps
Cadmium	111-1	31596	31746	31396	31579	0.56	cps
Calcium	43-1	6533986	6443401	6332450	6436612	1.57	cps
Calcium	44-1	106809855	108475232	105842985	107042691	1.24	cps
Carbon	12-1	18731096	18925274	19039238	18898536	0.82	cps
Carbon	12-2	119857	120637	118154	119549	1.06	cps
Chlorine	35-1	235252670	244275163	249607683	243045172	2.99	cps
Chlorine	35-2	1017479	1024082	1036969	1026177	0.97	cps
Chromium	52-2	916068	903034	900683	906595	0.91	cps
Cobalt	59-2	153996	154859	153703	154186	0.39	cps
Copper	63-2	3496643	3454820	3454055	3468506	0.70	cps
Dysprosium	156-1	148515	149984	148373	148957	0.60	cps
Dysprosium	156-2	48066	49023	47805	48298	1.33	cps
Erbium	164-1	142717	142025	141002	141914	0.61	cps
Erbium	164-2	46698	47180	47059	46979	0.53	cps
Gadolinium	160-1	138898	141000	138666	139521	0.92	cps
Gadolinium	160-2	56733	56713	56070	56506	0.67	cps
Holmium	165-1	32580166	32778246	32997850	32785421	0.64	cps
Holmium	165-2	11184633	11154506	11174917	11171352	0.14	cps
Indium	115-1	28066634	27746895	27139085	27650871	1.70	cps
Indium	115-2	2779174	2824525	2761522	2788407	1.17	cps
Iron	54-2	11355080	11130013	11023565	11169553	1.52	cps
Iron	56-2	207941310	205280444	204258397	205826717	0.92	cps
Iron	57-2	5078630	5116029	5142662	5112440	0.63	cps
Krypton	83-1	820	880	943	881	7.00	cps
Lead	206-1	15859049	15988673	15870498	15906073	0.45	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13039803	13035933	13148849	13074862	0.49	cps
Lead	208-1	61719960	61133032	60995529	61282840	0.63	cps
Lithium	6-1	10160202	10071185	9729656	9987014	2.28	cps
Magnesium	24-2	6740807	6783972	6862032	6795603	0.90	cps
Manganese	55-2	4717051	4598671	4573472	4629732	1.66	cps
Molybdenum	94-1	211036	212078	209854	210989	0.53	cps
Molybdenum	95-1	232866	234429	235405	234233	0.55	cps
Molybdenum	96-1	262850	262281	257210	260780	1.19	cps
Molybdenum	97-1	142768	143637	141533	142646	0.74	cps
Molybdenum	98-1	371468	371512	365607	369529	0.92	cps
Neodymium	150-1	200966	199007	200641	200204	0.52	cps
Neodymium	150-2	49089	48387	48778	48751	0.72	cps
Nickel	60-2	717154	711006	701740	709967	1.09	cps
Phosphorus	31-2	7932	8052	8142	8042	1.31	cps
Potassium	39-2	978313	970312	981154	976593	0.58	cps
Rhodium	103-1	25720970	25839756	25524275	25695000	0.62	cps
Rhodium	103-2	9732785	9679209	9635154	9682383	0.50	cps
Scandium	45-1	21524040	21897392	21329365	21583599	1.34	cps
Scandium	45-2	404667	403487	396349	401501	1.12	cps
Selenium	82-1	307	314	253	291	11.38	cps
Selenium	77-2	330	303	343	326	6.26	cps
Selenium	78-2	207	220	227	218	4.68	cps
Silicon	28-1	201564830	205054404	202654430	203091221	0.88	cps
Silver	107-1	28974	28793	28576	28781	0.69	cps
Silver	109-1	27414	27381	27634	27476	0.50	cps
Sodium	23-2	1281878	1266985	1249979	1266281	1.26	cps
Strontium	86-1	2391643	2442213	2395413	2409756	1.17	cps
Strontium	88-1	20310523	20862951	20388755	20520743	1.46	cps
Sulfur	34-1	1048625	1034150	1024111	1035629	1.19	cps
Terbium	159-1	33070028	34056653	33364120	33496933	1.51	cps
Terbium	159-2	10938006	10981164	10857549	10925573	0.57	cps
Thallium	203-1	5078	4844	4744	4889	3.50	cps
Thallium	205-1	11889	12052	11475	11805	2.52	cps
Tin	118-1	243132	246419	240629	243393	1.19	cps
Titanium	47-1	2919547	2972400	2894000	2928649	1.37	cps
Uranium	238-1	152256	151855	149738	151283	0.89	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-12	Instrumnet Name :	P8
Client Sample ID :	ME28Q0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:06:54	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	157503	156370	158584	157485	0.70	cps
Ytterbium	172-1	45575	45531	46501	45869	1.19	cps
Ytterbium	172-2	18283	18326	18783	18464	1.50	cps
Ytterbium	176-1	32898	32363	31922	32394	1.51	cps
Ytterbium	176-2	12436	12576	12272	12428	1.22	cps
Yttrium	89-1	48327371	48324936	47552893	48068400	0.93	cps
Yttrium	89-2	3472398	3430582	3404215	3435732	1.00	cps
Zinc	66-2	709460	714865	711863	712063	0.38	cps
Zirconium	90-1	219315	222587	221036	220979	0.74	cps
Zirconium	91-1	49153	48939	49227	49106	0.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1412094	1426092	1415005	1417730	0.52	cps
Antimony	121-1	235585	236730	234447	235587	0.48	cps
Arsenic	75-2	27717	27774	27494	27662	0.54	cps
Barium	135-1	2147829	2150348	2140847	2146341	0.23	cps
Barium	137-1	3616247	3635466	3584363	3612026	0.71	cps
Beryllium	9-1	11092	11307	10936	11112	1.67	cps
Bismuth	209-1	18470771	16743731	18392945	17869149	5.46	cps
Bismuth	209-2	7508146	7640508	7423269	7523975	1.46	cps
Bromine	81-1	19724	20655	20315	20231	2.33	cps
Cadmium	108-1	2227	2384	2104	2238	6.27	cps
Cadmium	106-1	15252	14211	16200	15221	6.54	cps
Cadmium	111-1	30604	30070	31621	30765	2.56	cps
Calcium	43-1	6137773	6070600	6011053	6073142	1.04	cps
Calcium	44-1	100130302	98115755	97145722	98463926	1.55	cps
Carbon	12-1	17064201	17291346	17202704	17186084	0.67	cps
Carbon	12-2	110465	111032	110068	110522	0.44	cps
Chlorine	35-1	230889383	236522283	234211103	233874257	1.21	cps
Chlorine	35-2	977116	986183	984573	982624	0.49	cps
Chromium	52-2	4527237	4375141	4442758	4448379	1.71	cps
Cobalt	59-2	336263	330290	337202	334585	1.12	cps
Copper	63-2	15688091	15905459	15718464	15770671	0.75	cps
Dysprosium	156-1	114868	116196	115225	115430	0.60	cps
Dysprosium	156-2	35621	35818	35477	35639	0.48	cps
Erbium	164-1	101443	102098	99552	101031	1.31	cps
Erbium	164-2	32687	32653	32553	32631	0.21	cps
Gadolinium	160-1	101909	101492	102490	101964	0.49	cps
Gadolinium	160-2	41347	41678	40739	41255	1.16	cps
Holmium	165-1	31973740	28424565	31971315	30789873	6.65	cps
Holmium	165-2	10742995	10755704	10738747	10745815	0.08	cps
Indium	115-1	25525150	24106587	26447974	25359904	4.65	cps
Indium	115-2	2643905	2709584	2653835	2669108	1.33	cps
Iron	54-2	45872264	45603533	46424041	45966613	0.91	cps
Iron	56-2	825672308	836344921	826993561	829670263	0.70	cps
Iron	57-2	21199654	21124502	21230117	21184758	0.26	cps
Krypton	83-1	727	753	793	758	4.43	cps
Lead	206-1	17376388	17299428	16855454	17177090	1.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14714007	14204354	14354657	14424339	1.82	cps
Lead	208-1	68607985	66707531	66506703	67274073	1.72	cps
Lithium	6-1	9720474	9293182	10016377	9676678	3.76	cps
Magnesium	24-2	5276561	5384812	5316808	5326061	1.03	cps
Manganese	55-2	5650237	5570247	5649589	5623358	0.82	cps
Molybdenum	94-1	861111	857273	853634	857339	0.44	cps
Molybdenum	95-1	1505775	1513853	1424868	1481499	3.32	cps
Molybdenum	96-1	1590849	1632020	1562801	1595224	2.18	cps
Molybdenum	97-1	872102	867076	859232	866137	0.75	cps
Molybdenum	98-1	2393775	2370354	2348829	2370986	0.95	cps
Neodymium	150-1	158689	158904	158751	158781	0.07	cps
Neodymium	150-2	39261	38769	38027	38686	1.61	cps
Nickel	60-2	1052344	1067452	1057373	1059056	0.73	cps
Phosphorus	31-2	4047	4291	4247	4195	3.10	cps
Potassium	39-2	688096	692997	690765	690619	0.36	cps
Rhodium	103-1	24254247	22192344	24803600	23750064	5.80	cps
Rhodium	103-2	9358732	9405377	9157765	9307292	1.41	cps
Scandium	45-1	20749646	19102153	20627222	20159674	4.55	cps
Scandium	45-2	391722	393782	392230	392578	0.27	cps
Selenium	82-1	126	86	26	79	63.16	cps
Selenium	77-2	160	193	160	171	11.25	cps
Selenium	78-2	147	140	207	164	22.33	cps
Silicon	28-1	167709264	169638044	168420397	168589235	0.58	cps
Silver	107-1	29578	28743	29007	29110	1.47	cps
Silver	109-1	27648	27538	27845	27677	0.56	cps
Sodium	23-2	662009	663613	663160	662927	0.12	cps
Strontium	86-1	1398819	1379896	1390347	1389687	0.68	cps
Strontium	88-1	12492382	12331346	12636513	12486747	1.22	cps
Sulfur	34-1	876906	874399	871982	874429	0.28	cps
Terbium	159-1	32722338	29683084	32702629	31702683	5.52	cps
Terbium	159-2	10598419	10631339	10474675	10568144	0.78	cps
Thallium	203-1	4001	4031	4114	4048	1.45	cps
Thallium	205-1	9704	9724	9417	9615	1.79	cps
Tin	118-1	12603436	12800554	12425380	12609790	1.49	cps
Titanium	47-1	1903024	1851456	1828854	1861111	2.04	cps
Uranium	238-1	113612	112832	115042	113829	0.98	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-13	Instrumnet Name :	P8
Client Sample ID :	ME28Q1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:10:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	282174	280493	278738	280468	0.61	cps
Ytterbium	172-1	32490	32423	32222	32378	0.43	cps
Ytterbium	172-2	12956	13133	13203	13098	0.97	cps
Ytterbium	176-1	23588	23247	23748	23528	1.09	cps
Ytterbium	176-2	9233	9170	9127	9177	0.58	cps
Yttrium	89-1	45135628	40717794	45602169	43818530	6.15	cps
Yttrium	89-2	3306833	3303321	3221238	3277131	1.48	cps
Zinc	66-2	969554	962821	970203	967526	0.42	cps
Zirconium	90-1	158706	159261	157111	158359	0.70	cps
Zirconium	91-1	36813	35238	34820	35624	2.95	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1583332	1583218	1599266	1588605	0.58	cps
Antimony	121-1	76509	77173	76660	76781	0.45	cps
Arsenic	75-2	9927	10024	10050	10000	0.65	cps
Barium	135-1	1387902	1409154	1400049	1399035	0.76	cps
Barium	137-1	2488869	2535247	2518390	2514169	0.93	cps
Beryllium	9-1	10275	9875	9957	10036	2.10	cps
Bismuth	209-1	19552311	19213271	18612586	19126056	2.49	cps
Bismuth	209-2	7790137	7580467	7484118	7618241	2.05	cps
Bromine	81-1	18629	19167	19704	19167	2.80	cps
Cadmium	108-1	1277	1250	1100	1209	7.88	cps
Cadmium	106-1	15155	14768	14277	14734	2.99	cps
Cadmium	111-1	19228	19286	19578	19364	0.97	cps
Calcium	43-1	6230300	6023079	6202056	6151812	1.83	cps
Calcium	44-1	100166245	100601992	100671862	100480033	0.27	cps
Carbon	12-1	10950671	10984369	11328242	11087761	1.88	cps
Carbon	12-2	71231	71744	71165	71380	0.44	cps
Chlorine	35-1	229147497	236066110	238618270	234610625	2.09	cps
Chlorine	35-2	993881	996969	1010965	1000605	0.91	cps
Chromium	52-2	2880349	2880287	2902479	2887705	0.44	cps
Cobalt	59-2	197437	197693	196987	197372	0.18	cps
Copper	63-2	3169912	3198461	3205584	3191319	0.59	cps
Dysprosium	156-1	109910	111043	111370	110774	0.69	cps
Dysprosium	156-2	35721	36192	35905	35939	0.66	cps
Erbium	164-1	98548	100926	99868	99780	1.19	cps
Erbium	164-2	33004	32961	33612	33192	1.10	cps
Gadolinium	160-1	102873	103934	103481	103429	0.51	cps
Gadolinium	160-2	41929	42099	41277	41769	1.04	cps
Holmium	165-1	33035080	32779495	31621076	32478550	2.32	cps
Holmium	165-2	11235781	10961902	10847009	11014897	1.81	cps
Indium	115-1	28108752	27192912	26425715	27242460	3.09	cps
Indium	115-2	2822322	2720649	2697017	2746663	2.42	cps
Iron	54-2	23113987	23445233	23660917	23406712	1.18	cps
Iron	56-2	426906100	430177914	425637674	427573896	0.55	cps
Iron	57-2	10633179	10782308	10535513	10650333	1.17	cps
Krypton	83-1	720	863	820	801	9.18	cps
Lead	206-1	4982950	4976300	5026328	4995193	0.54	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4227797	4201537	4152033	4193789	0.92	cps
Lead	208-1	19518429	19220481	19260564	19333158	0.84	cps
Lithium	6-1	10267344	10064569	10080335	10137416	1.11	cps
Magnesium	24-2	6824576	6840417	6736117	6800370	0.83	cps
Manganese	55-2	3606193	3593649	3646448	3615430	0.76	cps
Molybdenum	94-1	427189	432607	431381	430392	0.66	cps
Molybdenum	95-1	669183	674763	674943	672963	0.49	cps
Molybdenum	96-1	729877	736467	728612	731652	0.58	cps
Molybdenum	97-1	416360	416060	416728	416383	0.08	cps
Molybdenum	98-1	1068117	1067274	1052227	1062539	0.84	cps
Neodymium	150-1	158295	161840	159155	159763	1.16	cps
Neodymium	150-2	39254	39451	38448	39051	1.36	cps
Nickel	60-2	611501	610391	610580	610824	0.10	cps
Phosphorus	31-2	3831	3937	3567	3778	5.04	cps
Potassium	39-2	549110	550761	547172	549014	0.33	cps
Rhodium	103-1	25859985	25538316	24180769	25193024	3.54	cps
Rhodium	103-2	9731805	9356755	9243021	9443860	2.71	cps
Scandium	45-1	21592332	21080586	20861854	21178257	1.77	cps
Scandium	45-2	404726	400769	393347	399614	1.45	cps
Selenium	82-1	180	62	59	100	68.48	cps
Selenium	77-2	217	177	210	201	10.66	cps
Selenium	78-2	133	147	147	142	5.41	cps
Silicon	28-1	102659672	100663585	103374165	102232474	1.37	cps
Silver	107-1	13033	12786	12866	12895	0.98	cps
Silver	109-1	12369	11942	11912	12074	2.12	cps
Sodium	23-2	504330	512324	511242	509299	0.85	cps
Strontium	86-1	1536831	1545407	1547117	1543118	0.36	cps
Strontium	88-1	13251936	13336259	13261966	13283387	0.35	cps
Sulfur	34-1	877840	883270	879567	880225	0.32	cps
Terbium	159-1	34197978	33370195	32325675	33297949	2.82	cps
Terbium	159-2	10917513	10832256	10447284	10732351	2.33	cps
Thallium	203-1	5735	5801	5618	5718	1.62	cps
Thallium	205-1	13207	13354	13671	13410	1.77	cps
Tin	118-1	1686769	1632962	1647746	1655825	1.68	cps
Titanium	47-1	1643701	1664925	1654073	1654233	0.64	cps
Uranium	238-1	131215	128509	127956	129227	1.35	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-14	Instrumnet Name :	P8
Client Sample ID :	ME28Q2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:13:01	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	219420	217207	218106	218245	0.51	cps
Ytterbium	172-1	30392	31274	31644	31103	2.07	cps
Ytterbium	172-2	12923	12449	12389	12587	2.32	cps
Ytterbium	176-1	23033	23317	22786	23046	1.15	cps
Ytterbium	176-2	8686	8893	8746	8775	1.21	cps
Yttrium	89-1	46743749	45696188	44813298	45751078	2.11	cps
Yttrium	89-2	3404365	3249037	3249670	3301024	2.71	cps
Zinc	66-2	695098	699487	697719	697435	0.32	cps
Zirconium	90-1	132508	133159	132553	132740	0.27	cps
Zirconium	91-1	27968	29892	28977	28946	3.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	850396	827785	835194	837791	1.38	cps
Antimony	121-1	92842	90825	91302	91657	1.15	cps
Arsenic	75-2	13176	12963	13246	13128	1.13	cps
Barium	135-1	1523282	1515878	1579215	1539458	2.25	cps
Barium	137-1	2712270	2670705	2696319	2693098	0.78	cps
Beryllium	9-1	10749	10653	10479	10627	1.28	cps
Bismuth	209-1	19140056	18902081	18741777	18927972	1.06	cps
Bismuth	209-2	7621290	7600612	7579521	7600475	0.27	cps
Bromine	81-1	19634	19918	20719	20090	2.80	cps
Cadmium	108-1	4121	4034	3897	4017	2.80	cps
Cadmium	106-1	18222	18836	18095	18385	2.16	cps
Cadmium	111-1	58573	59155	58942	58890	0.50	cps
Calcium	43-1	8122563	7994334	8121236	8079378	0.91	cps
Calcium	44-1	133745385	128369635	133090835	131735285	2.23	cps
Carbon	12-1	12952730	13230436	13030079	13071082	1.10	cps
Carbon	12-2	83492	81914	83278	82894	1.03	cps
Chlorine	35-1	254768936	261753023	260085223	258869061	1.41	cps
Chlorine	35-2	1102035	1080344	1099034	1093804	1.07	cps
Chromium	52-2	2876697	2832934	2792948	2834193	1.48	cps
Cobalt	59-2	138486	137073	137567	137709	0.52	cps
Copper	63-2	945444	933968	942036	940483	0.63	cps
Dysprosium	156-1	33806	33646	33174	33542	0.98	cps
Dysprosium	156-2	9977	10081	10077	10045	0.58	cps
Erbium	164-1	32700	32770	32456	32642	0.50	cps
Erbium	164-2	10448	10631	10768	10615	1.51	cps
Gadolinium	160-1	29533	29683	30218	29811	1.21	cps
Gadolinium	160-2	11628	11976	11619	11741	1.73	cps
Holmium	165-1	32275911	32644414	31973355	32297893	1.04	cps
Holmium	165-2	10980004	10864280	10762686	10868990	1.00	cps
Indium	115-1	27239185	27325875	26528233	27031098	1.62	cps
Indium	115-2	2728740	2725213	2708714	2720889	0.39	cps
Iron	54-2	68167097	68145951	66641061	67651370	1.29	cps
Iron	56-2	1237162115	1238206488	1244531368	1239966657	0.32	cps
Iron	57-2	31525160	30532546	30961264	31006323	1.61	cps
Krypton	83-1	633	720	647	667	7.00	cps
Lead	206-1	32543744	32008804	31312170	31954906	1.93	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26435085	25756923	25682054	25958021	1.60	cps
Lead	208-1	123997991	120180709	121148148	121775616	1.63	cps
Lithium	6-1	9750293	9951158	9464239	9721897	2.52	cps
Magnesium	24-2	5287343	5178697	5319905	5261982	1.41	cps
Manganese	55-2	29567488	29132485	29552133	29417368	0.84	cps
Molybdenum	94-1	203027	203842	198943	201937	1.30	cps
Molybdenum	95-1	270249	268392	265533	268058	0.89	cps
Molybdenum	96-1	303295	302893	297056	301081	1.16	cps
Molybdenum	97-1	161856	164576	161703	162712	0.99	cps
Molybdenum	98-1	424120	422396	418294	421603	0.71	cps
Neodymium	150-1	49253	49568	49069	49297	0.51	cps
Neodymium	150-2	11905	11869	12096	11957	1.02	cps
Nickel	60-2	746188	742165	735119	741157	0.76	cps
Phosphorus	31-2	5544	5578	5534	5552	0.41	cps
Potassium	39-2	379696	374141	375045	376294	0.79	cps
Rhodium	103-1	24759056	24919049	24479306	24719137	0.90	cps
Rhodium	103-2	9321609	9335191	9407863	9354888	0.50	cps
Scandium	45-1	20865924	21106338	20805799	20926020	0.76	cps
Scandium	45-2	392723	392014	391583	392107	0.15	cps
Selenium	82-1	205	178	172	185	9.55	cps
Selenium	77-2	53	90	73	72	25.42	cps
Selenium	78-2	67	120	77	88	32.29	cps
Silicon	28-1	60090229	60265727	57693206	59349721	2.42	cps
Silver	107-1	148304	151313	149015	149544	1.05	cps
Silver	109-1	142811	143725	141053	142530	0.95	cps
Sodium	23-2	646966	644336	652240	647847	0.62	cps
Strontium	86-1	1065678	1064128	1054780	1061529	0.56	cps
Strontium	88-1	9661074	9365753	9527823	9518217	1.55	cps
Sulfur	34-1	843202	842912	853884	846666	0.74	cps
Terbium	159-1	33192805	33273022	32910339	33125389	0.58	cps
Terbium	159-2	10640445	10698585	10538180	10625737	0.76	cps
Thallium	203-1	65330	65705	64432	65156	1.00	cps
Thallium	205-1	156630	155453	155955	156013	0.38	cps
Tin	118-1	328733	326243	321106	325361	1.20	cps
Titanium	47-1	2291683	2247528	2264043	2267751	0.98	cps
Uranium	238-1	57650	57459	57486	57532	0.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-15	Instrumnet Name :	P8
Client Sample ID :	ME28Q3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:16:08	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	252071	250908	250678	251219	0.30	cps
Ytterbium	172-1	15986	15996	16013	15999	0.08	cps
Ytterbium	172-2	6285	6222	6175	6227	0.89	cps
Ytterbium	176-1	14051	13937	13667	13885	1.42	cps
Ytterbium	176-2	4688	4598	4654	4646	0.98	cps
Yttrium	89-1	45056653	44634913	44797259	44829608	0.47	cps
Yttrium	89-2	3191075	3243727	3231892	3222231	0.86	cps
Zinc	66-2	3806740	3749733	3772933	3776469	0.76	cps
Zirconium	90-1	139025	138863	140857	139581	0.79	cps
Zirconium	91-1	31182	31218	30163	30854	1.94	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	951219	934441	931073	938911	1.15	cps
Antimony	121-1	103112	102749	101601	102487	0.77	cps
Arsenic	75-2	14381	13974	14044	14133	1.54	cps
Barium	135-1	1626387	1640166	1597948	1621500	1.33	cps
Barium	137-1	2821723	2798721	2776109	2798851	0.81	cps
Beryllium	9-1	12993	12464	12417	12625	2.53	cps
Bismuth	209-1	19220151	19377466	19243799	19280472	0.44	cps
Bismuth	209-2	7607038	7547214	7496517	7550256	0.73	cps
Bromine	81-1	19844	20225	20826	20298	2.44	cps
Cadmium	108-1	4444	4337	4447	4410	1.42	cps
Cadmium	106-1	18957	19304	19083	19114	0.92	cps
Cadmium	111-1	62632	62424	61908	62321	0.60	cps
Calcium	43-1	8007115	8106807	8224658	8112860	1.34	cps
Calcium	44-1	131548921	133685668	134863305	133365965	1.26	cps
Carbon	12-1	14926400	15879416	15717141	15507652	3.29	cps
Carbon	12-2	98947	97702	98374	98341	0.63	cps
Chlorine	35-1	231854677	237230103	237325190	235469990	1.33	cps
Chlorine	35-2	994188	994987	1001139	996772	0.38	cps
Chromium	52-2	7638085	7606164	7626724	7623658	0.21	cps
Cobalt	59-2	208309	207561	206136	207335	0.53	cps
Copper	63-2	1252933	1258076	1244375	1251795	0.55	cps
Dysprosium	156-1	41855	42130	41491	41825	0.77	cps
Dysprosium	156-2	13070	12626	12573	12756	2.14	cps
Erbium	164-1	41297	41558	41036	41297	0.63	cps
Erbium	164-2	13137	13620	13390	13382	1.81	cps
Gadolinium	160-1	37823	37840	36978	37547	1.31	cps
Gadolinium	160-2	14872	14948	14748	14856	0.68	cps
Holmium	165-1	32207375	31985292	32169045	32120571	0.37	cps
Holmium	165-2	10678030	10771072	10808736	10752613	0.63	cps
Indium	115-1	27058255	27340757	26995304	27131439	0.68	cps
Indium	115-2	2701279	2611987	2665394	2659553	1.69	cps
Iron	54-2	63992901	63230499	64000829	63741410	0.69	cps
Iron	56-2	1165762116	1157266409	1144528650	1155852392	0.92	cps
Iron	57-2	29096432	29481108	29255316	29277619	0.66	cps
Krypton	83-1	713	800	740	751	5.91	cps
Lead	206-1	36644134	35617432	35865386	36042317	1.49	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29281369	29044991	28997530	29107963	0.52	cps
Lead	208-1	137914315	135926655	135201443	136347471	1.03	cps
Lithium	6-1	10040938	10200111	10152440	10131163	0.81	cps
Magnesium	24-2	6119618	6095582	5980105	6065102	1.23	cps
Manganese	55-2	23976196	23656478	23646065	23759580	0.79	cps
Molybdenum	94-1	295968	294316	291759	294014	0.72	cps
Molybdenum	95-1	430968	431194	427354	429839	0.50	cps
Molybdenum	96-1	477111	474705	473143	474986	0.42	cps
Molybdenum	97-1	267694	267309	260900	265301	1.44	cps
Molybdenum	98-1	690688	690273	680299	687087	0.86	cps
Neodymium	150-1	60291	61011	60060	60454	0.82	cps
Neodymium	150-2	14358	14501	14565	14475	0.73	cps
Nickel	60-2	2358424	2353995	2378597	2363672	0.55	cps
Phosphorus	31-2	5444	5334	5571	5450	2.17	cps
Potassium	39-2	429916	428805	426088	428270	0.46	cps
Rhodium	103-1	24500109	24982325	24471781	24651405	1.16	cps
Rhodium	103-2	9319053	9110158	9254748	9227986	1.16	cps
Scandium	45-1	21080107	20703963	21000769	20928280	0.95	cps
Scandium	45-2	385283	387213	381669	384722	0.73	cps
Selenium	82-1	97	63	46	69	37.40	cps
Selenium	77-2	90	133	77	100	29.63	cps
Selenium	78-2	90	90	60	80	21.65	cps
Silicon	28-1	77721412	76607129	76892914	77073818	0.75	cps
Silver	107-1	159835	160272	159268	159792	0.32	cps
Silver	109-1	152434	154330	156215	154326	1.23	cps
Sodium	23-2	644843	654289	647876	649003	0.74	cps
Strontium	86-1	1165729	1175341	1148448	1163173	1.17	cps
Strontium	88-1	10300194	10386469	10202955	10296539	0.89	cps
Sulfur	34-1	937272	909088	942966	929776	1.95	cps
Terbium	159-1	32656900	33199802	32605962	32820888	1.00	cps
Terbium	159-2	10704570	10369800	10461901	10512091	1.65	cps
Thallium	203-1	57781	58993	58233	58336	1.05	cps
Thallium	205-1	141722	138396	137995	139371	1.47	cps
Tin	118-1	418452	420143	416476	418357	0.44	cps
Titanium	47-1	2002293	1980278	1910660	1964410	2.43	cps
Uranium	238-1	66908	65816	64506	65743	1.83	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16	Instrumnet Name :	P8
Client Sample ID :	ME28Q4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:19:14	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	250137	248262	247142	248514	0.61	cps
Ytterbium	172-1	18823	18606	18750	18727	0.59	cps
Ytterbium	172-2	7779	7602	7749	7710	1.23	cps
Ytterbium	176-1	15786	15456	15359	15534	1.44	cps
Ytterbium	176-2	5314	5468	5388	5390	1.42	cps
Yttrium	89-1	44444788	44840273	43867576	44384212	1.10	cps
Yttrium	89-2	3138406	3114002	3178174	3143527	1.03	cps
Zinc	66-2	4138190	4089376	4013810	4080459	1.54	cps
Zirconium	90-1	133652	132486	134225	133454	0.66	cps
Zirconium	91-1	30029	29872	29294	29732	1.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	946646	940543	941764	942984	0.34	cps
Antimony	121-1	103414	103716	102785	103305	0.46	cps
Arsenic	75-2	14231	14110	14261	14201	0.56	cps
Barium	135-1	1616519	1632117	1633924	1627520	0.59	cps
Barium	137-1	2804795	2784120	2767032	2785316	0.68	cps
Beryllium	9-1	12825	12703	12565	12698	1.02	cps
Bismuth	209-1	19604984	19879234	19346213	19610144	1.36	cps
Bismuth	209-2	7209933	7368511	7530657	7369700	2.18	cps
Bromine	81-1	19971	20819	21059	20616	2.77	cps
Cadmium	108-1	4351	4387	4524	4421	2.07	cps
Cadmium	106-1	19564	19460	19924	19650	1.24	cps
Cadmium	111-1	62015	62633	62888	62512	0.72	cps
Calcium	43-1	8225314	8206932	8166899	8199715	0.36	cps
Calcium	44-1	136854048	135813508	131808018	134825191	1.98	cps
Carbon	12-1	14996565	15106968	15463800	15189111	1.61	cps
Carbon	12-2	98548	96253	98709	97837	1.40	cps
Chlorine	35-1	227844490	233829437	239506216	233726714	2.50	cps
Chlorine	35-2	992525	979745	995847	989372	0.86	cps
Chromium	52-2	7664333	7905322	7930979	7833545	1.88	cps
Cobalt	59-2	209824	209884	209087	209598	0.21	cps
Copper	63-2	1255269	1259022	1248157	1254149	0.44	cps
Dysprosium	156-1	41782	41621	42287	41897	0.83	cps
Dysprosium	156-2	13036	12903	13063	13001	0.66	cps
Erbium	164-1	41220	42146	41471	41613	1.15	cps
Erbium	164-2	13120	13907	13210	13412	3.21	cps
Gadolinium	160-1	36991	37493	37075	37186	0.72	cps
Gadolinium	160-2	15246	15019	15282	15182	0.94	cps
Holmium	165-1	32732075	32978435	33568225	33092912	1.30	cps
Holmium	165-2	10280281	10325703	10749756	10451913	2.48	cps
Indium	115-1	27265582	27395719	27874704	27512002	1.17	cps
Indium	115-2	2552497	2475966	2634186	2554216	3.10	cps
Iron	54-2	63442264	65120772	64446021	64336352	1.31	cps
Iron	56-2	1166653049	1159593049	1163703769	1163316623	0.30	cps
Iron	57-2	30047080	29669100	29697587	29804589	0.71	cps
Krypton	83-1	727	847	763	779	7.90	cps
Lead	206-1	36632468	35863517	35399954	35965313	1.73	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29653712	29281465	28670761	29201980	1.70	cps
Lead	208-1	139565575	137164376	135862397	137530783	1.37	cps
Lithium	6-1	10241959	10083705	9878030	10067898	1.81	cps
Magnesium	24-2	6239874	6035301	6120051	6131742	1.68	cps
Manganese	55-2	23852161	24105368	24182529	24046686	0.72	cps
Molybdenum	94-1	299086	296128	291911	295708	1.22	cps
Molybdenum	95-1	437696	437771	434173	436547	0.47	cps
Molybdenum	96-1	476616	484568	478754	479979	0.86	cps
Molybdenum	97-1	270165	267197	262741	266701	1.40	cps
Molybdenum	98-1	693002	688981	679648	687210	1.00	cps
Neodymium	150-1	61386	59916	59920	60407	1.40	cps
Neodymium	150-2	14615	14868	14648	14710	0.94	cps
Nickel	60-2	2403546	2398425	2386178	2396050	0.37	cps
Phosphorus	31-2	5721	5661	5491	5624	2.12	cps
Potassium	39-2	431472	426797	428900	429056	0.55	cps
Rhodium	103-1	25042232	25240214	25423771	25235406	0.76	cps
Rhodium	103-2	8871752	8737470	9123775	8910999	2.20	cps
Scandium	45-1	21015562	21068530	20930918	21005003	0.33	cps
Scandium	45-2	364959	362332	379613	368968	2.52	cps
Selenium	82-1	177	-64	23	45	267.98	cps
Selenium	77-2	83	90	60	78	20.25	cps
Selenium	78-2	73	67	107	82	26.07	cps
Silicon	28-1	76973967	77579211	76992404	77181861	0.45	cps
Silver	107-1	162984	160739	157687	160470	1.66	cps
Silver	109-1	153613	153939	151436	152996	0.89	cps
Sodium	23-2	656804	650741	656907	654817	0.54	cps
Strontium	86-1	1167005	1183627	1171423	1174019	0.73	cps
Strontium	88-1	10708173	10603541	10182129	10497948	2.65	cps
Sulfur	34-1	927571	931344	943205	934040	0.87	cps
Terbium	159-1	33107310	33819029	33811920	33579419	1.22	cps
Terbium	159-2	9908805	9952748	10507705	10123086	3.30	cps
Thallium	203-1	58303	58495	58980	58593	0.60	cps
Thallium	205-1	140131	138443	138520	139031	0.69	cps
Tin	118-1	413604	416941	416852	415799	0.46	cps
Titanium	47-1	1978994	1920828	1895876	1931899	2.21	cps
Uranium	238-1	66007	65249	66060	65772	0.69	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-17	Instrumnet Name :	P8
Client Sample ID :	ME28Q4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:22:21	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	246505	246627	251237	248123	1.09	cps
Ytterbium	172-1	19080	19471	19298	19283	1.01	cps
Ytterbium	172-2	7779	7489	7512	7593	2.12	cps
Ytterbium	176-1	15583	15493	15643	15573	0.49	cps
Ytterbium	176-2	5384	5348	5458	5397	1.04	cps
Yttrium	89-1	45604568	46045409	45140761	45596913	0.99	cps
Yttrium	89-2	3021115	2979549	3099137	3033267	2.00	cps
Zinc	66-2	4163183	4092722	4050705	4102203	1.39	cps
Zirconium	90-1	135802	133805	133317	134308	0.98	cps
Zirconium	91-1	29705	29561	29020	29429	1.23	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	204120	203616	203558	203765	0.15	cps
Antimony	121-1	22211	22262	22312	22262	0.22	cps
Arsenic	75-2	2967	2990	3127	3028	2.86	cps
Barium	135-1	341382	333706	331321	335470	1.57	cps
Barium	137-1	591381	577802	569227	579470	1.93	cps
Beryllium	9-1	3109	2952	2930	2997	3.26	cps
Bismuth	209-1	15955751	18892407	19700811	18182989	10.84	cps
Bismuth	209-2	7744525	7915068	7865928	7841840	1.12	cps
Bromine	81-1	14050	14765	14801	14539	2.91	cps
Cadmium	108-1	993	987	977	986	0.85	cps
Cadmium	106-1	12386	14181	15135	13901	10.04	cps
Cadmium	111-1	19416	20671	20625	20237	3.52	cps
Calcium	43-1	1826752	1766730	1766843	1786775	1.94	cps
Calcium	44-1	29468802	28530725	28539952	28846493	1.87	cps
Carbon	12-1	6930761	6916943	6926086	6924597	0.10	cps
Carbon	12-2	41913	43461	42712	42695	1.81	cps
Chlorine	35-1	60156981	59234071	59733589	59708214	0.77	cps
Chlorine	35-2	235773	238446	235499	236573	0.69	cps
Chromium	52-2	1616617	1679080	1661879	1652526	1.95	cps
Cobalt	59-2	44369	45004	44814	44729	0.73	cps
Copper	63-2	276079	273285	272435	273933	0.70	cps
Dysprosium	156-1	9033	9247	8853	9044	2.18	cps
Dysprosium	156-2	2660	2744	2854	2753	3.52	cps
Erbium	164-1	8856	8946	9046	8950	1.06	cps
Erbium	164-2	3067	3024	2904	2998	2.82	cps
Gadolinium	160-1	8263	8133	8406	8267	1.65	cps
Gadolinium	160-2	3210	3220	3224	3218	0.22	cps
Holmium	165-1	27015263	31381268	32970853	30455795	10.13	cps
Holmium	165-2	11042457	11165977	11348051	11185495	1.37	cps
Indium	115-1	22969946	26558584	28064997	25864509	10.12	cps
Indium	115-2	2751141	2779845	2797165	2776050	0.84	cps
Iron	54-2	13500932	13676206	13858310	13678483	1.31	cps
Iron	56-2	253542170	252559656	248964043	251688623	0.96	cps
Iron	57-2	6385581	6169298	6393982	6316287	2.02	cps
Krypton	83-1	467	440	497	468	6.06	cps
Lead	206-1	8085264	7962152	7782087	7943167	1.92	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6579385	6468024	6356955	6468121	1.72	cps
Lead	208-1	30541529	30305801	29710854	30186061	1.42	cps
Lithium	6-1	9190684	10381194	10913206	10161695	8.68	cps
Magnesium	24-2	1325598	1373483	1320195	1339759	2.19	cps
Manganese	55-2	5103505	5133048	5097296	5111283	0.37	cps
Molybdenum	94-1	64043	63507	62526	63359	1.21	cps
Molybdenum	95-1	93817	93908	92152	93292	1.06	cps
Molybdenum	96-1	104012	102146	101544	102567	1.25	cps
Molybdenum	97-1	58402	57137	56002	57180	2.10	cps
Molybdenum	98-1	148511	146012	145555	146693	1.09	cps
Neodymium	150-1	13414	13550	12816	13260	2.94	cps
Neodymium	150-2	3234	3224	3110	3189	2.15	cps
Nickel	60-2	478208	474313	475557	476026	0.42	cps
Phosphorus	31-2	1347	1373	1383	1368	1.39	cps
Potassium	39-2	107513	105468	106526	106503	0.96	cps
Rhodium	103-1	20929755	24641193	25659623	23743524	10.48	cps
Rhodium	103-2	9713567	9706898	9823169	9747878	0.67	cps
Scandium	45-1	17171468	19972656	21270334	19471486	10.76	cps
Scandium	45-2	390782	388290	397489	392187	1.21	cps
Selenium	82-1	-34	3	-74	-35	-110.02	cps
Selenium	77-2	13	13	17	14	13.35	cps
Selenium	78-2	27	13	30	23	37.81	cps
Silicon	28-1	17693110	17265096	17424653	17460953	1.24	cps
Silver	107-1	36324	35606	34787	35573	2.16	cps
Silver	109-1	34219	33471	33066	33585	1.74	cps
Sodium	23-2	260758	262558	262469	261928	0.39	cps
Strontium	86-1	251065	252183	250008	251085	0.43	cps
Strontium	88-1	2268618	2278964	2223524	2257035	1.31	cps
Sulfur	34-1	743558	746048	750894	746833	0.50	cps
Terbium	159-1	28010200	32638204	33621986	31423463	9.54	cps
Terbium	159-2	10730137	10692964	11009924	10811008	1.60	cps
Thallium	203-1	13097	13080	12593	12923	2.21	cps
Thallium	205-1	30964	31261	30386	30870	1.44	cps
Tin	118-1	94748	92523	92044	93105	1.55	cps
Titanium	47-1	407743	401309	398080	402377	1.22	cps
Uranium	238-1	14398	14669	14158	14408	1.77	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-16LX5	Instrumnet Name :	P8
Client Sample ID :	ME28Q4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:25:27	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	52543	52419	53794	52918	1.44	cps
Ytterbium	172-1	4484	4101	4391	4325	4.62	cps
Ytterbium	172-2	1720	1573	1700	1665	4.78	cps
Ytterbium	176-1	5798	6122	6238	6053	3.77	cps
Ytterbium	176-2	1670	1510	1653	1611	5.46	cps
Yttrium	89-1	36117019	41783035	45316199	41072085	11.30	cps
Yttrium	89-2	3100052	3174512	3190459	3155008	1.53	cps
Zinc	66-2	861141	865122	862427	862897	0.24	cps
Zirconium	90-1	28980	28473	29054	28836	1.10	cps
Zirconium	91-1	6422	5995	6165	6194	3.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4572107	4512831	4480347	4521762	1.03	cps
Antimony	121-1	9658895	9561194	9634905	9618331	0.53	cps
Arsenic	75-2	199299	199492	200283	199692	0.26	cps
Barium	135-1	12961048	12530194	12789595	12760279	1.70	cps
Barium	137-1	21937048	21588455	21734981	21753495	0.80	cps
Beryllium	9-1	3141436	3119213	3020868	3093839	2.07	cps
Bismuth	209-1	16213759	16137555	16020717	16124010	0.60	cps
Bismuth	209-2	6556362	6774962	6779574	6703633	1.90	cps
Bromine	81-1	13196	13050	13043	13096	0.66	cps
Cadmium	108-1	190853	191457	190036	190782	0.37	cps
Cadmium	106-1	283212	280632	282262	282035	0.46	cps
Cadmium	111-1	2403570	2431881	2424695	2420049	0.61	cps
Calcium	43-1	19059957	19468559	18894851	19141122	1.54	cps
Calcium	44-1	313462775	313349995	307829535	311547435	1.03	cps
Carbon	12-1	5641449	5758898	5814905	5738417	1.54	cps
Carbon	12-2	44464	43732	43785	43993	0.93	cps
Chlorine	35-1	8644585	8180021	7899972	8241526	4.56	cps
Chlorine	35-2	29864	28865	27306	28678	4.50	cps
Chromium	52-2	2449252	2449283	2438497	2445677	0.25	cps
Cobalt	59-2	4322443	4335393	4316562	4324799	0.22	cps
Copper	63-2	34047903	34537597	33988757	34191419	0.88	cps
Dysprosium	156-1	780	737	710	742	4.76	cps
Dysprosium	156-2	223	143	170	179	22.77	cps
Erbium	164-1	683	727	673	694	4.08	cps
Erbium	164-2	220	207	197	208	5.63	cps
Gadolinium	160-1	663	597	693	651	7.60	cps
Gadolinium	160-2	190	200	233	208	10.92	cps
Holmium	165-1	29642403	30565187	29795648	30001079	1.65	cps
Holmium	165-2	10496104	10579798	10569418	10548440	0.43	cps
Indium	115-1	22946989	24157197	23431662	23511949	2.59	cps
Indium	115-2	2472516	2493643	2496050	2487403	0.52	cps
Iron	54-2	24246087	24208259	24331870	24262072	0.26	cps
Iron	56-2	441380087	445466380	436394127	441080198	1.03	cps
Iron	57-2	11206345	11245047	11125174	11192189	0.55	cps
Krypton	83-1	483	503	450	479	5.63	cps
Lead	206-1	37973994	37151850	37281845	37469230	1.18	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	32100010	31908917	31557171	31855366	0.86	cps
Lead	208-1	149108914	146063548	146961819	147378093	1.06	cps
Lithium	6-1	9601251	9859020	9282603	9580958	3.01	cps
Magnesium	24-2	74227027	73219707	73529391	73658708	0.70	cps
Manganese	55-2	9961686	9927624	9888728	9926013	0.37	cps
Molybdenum	94-1	38512022	38475658	38675023	38554234	0.28	cps
Molybdenum	95-1	55429964	54637084	56488827	55518625	1.67	cps
Molybdenum	96-1	60679464	58728467	60603232	60003721	1.84	cps
Molybdenum	97-1	33989961	34022641	33793895	33935499	0.36	cps
Molybdenum	98-1	87703152	88726719	89767455	88732442	1.16	cps
Neodymium	150-1	1260	1490	1343	1365	8.53	cps
Neodymium	150-2	137	113	110	120	12.11	cps
Nickel	60-2	1212094	1212541	1210001	1211545	0.11	cps
Phosphorus	31-2	41673	41723	40777	41391	1.29	cps
Potassium	39-2	25162959	25232986	25327409	25241118	0.33	cps
Rhodium	103-1	20582818	21322453	21037853	20981041	1.78	cps
Rhodium	103-2	8250000	8086383	8261744	8199376	1.20	cps
Scandium	45-1	18429708	18693884	18704606	18609400	0.84	cps
Scandium	45-2	362086	361076	363430	362197	0.33	cps
Selenium	82-1	155269	156591	155757	155872	0.43	cps
Selenium	77-2	2977	2670	3010	2886	6.50	cps
Selenium	78-2	9136	9173	9020	9110	0.88	cps
Silicon	28-1	144504868	143874128	144634751	144337916	0.28	cps
Silver	107-1	12172848	12282716	11979668	12145077	1.26	cps
Silver	109-1	11569972	11592514	11740371	11634286	0.80	cps
Sodium	23-2	162268074	158578838	159802708	160216540	1.17	cps
Strontium	86-1	3732865	3571936	3647119	3650640	2.21	cps
Strontium	88-1	32060808	30870512	31738017	31556446	1.95	cps
Sulfur	34-1	1663139	1656882	1652827	1657616	0.31	cps
Terbium	159-1	30175888	30101364	29918805	30065352	0.44	cps
Terbium	159-2	10027166	10186275	10220655	10144699	1.02	cps
Thallium	203-1	9522015	9337775	9420083	9426624	0.98	cps
Thallium	205-1	22630000	21790682	22150987	22190556	1.90	cps
Tin	118-1	8412206	8439359	8279777	8377114	1.02	cps
Titanium	47-1	17720736	17444467	17761373	17642192	0.98	cps
Uranium	238-1	31543492	30608050	31117913	31089818	1.51	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:28:37	DataFile Name :	072CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1904109	1911098	1896607	1903938	0.38	cps
Ytterbium	172-1	800	827	753	793	4.68	cps
Ytterbium	172-2	300	313	317	310	2.84	cps
Ytterbium	176-1	48977	48532	49385	48965	0.87	cps
Ytterbium	176-2	16924	16404	16621	16649	1.57	cps
Yttrium	89-1	39096348	38758761	38479667	38778259	0.80	cps
Yttrium	89-2	2935253	2923851	2966682	2941929	0.75	cps
Zinc	66-2	3355740	3409487	3356758	3373995	0.91	cps
Zirconium	90-1	20098422	19915773	19761088	19925094	0.85	cps
Zirconium	91-1	4393914	4357786	4449495	4400398	1.05	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	240	223	243	236	4.55	cps
Antimony	121-1	2874	2360	2130	2455	15.51	cps
Arsenic	75-2	7	7	3	6	34.70	cps
Barium	135-1	230	197	190	206	10.43	cps
Barium	137-1	353	267	323	314	14.00	cps
Beryllium	9-1	964	863	771	866	11.19	cps
Bismuth	209-1	18888654	18828828	18732200	18816561	0.42	cps
Bismuth	209-2	7707586	7675437	7760216	7714413	0.55	cps
Bromine	81-1	13707	13657	13814	13726	0.58	cps
Cadmium	108-1	57	33	37	42	29.89	cps
Cadmium	106-1	12749	12839	12699	12763	0.56	cps
Cadmium	111-1	9072	9091	8990	9051	0.59	cps
Calcium	43-1	1407	1377	1247	1343	6.33	cps
Calcium	44-1	36593	34625	33990	35069	3.87	cps
Carbon	12-1	4781602	4679111	4702733	4721148	1.14	cps
Carbon	12-2	28738	29630	29343	29237	1.56	cps
Chlorine	35-1	5291568	5010217	4724047	5008611	5.67	cps
Chlorine	35-2	17838	17250	17280	17456	1.90	cps
Chromium	52-2	2400	2374	2397	2390	0.61	cps
Cobalt	59-2	147	137	130	138	6.09	cps
Copper	63-2	4447	4224	4151	4274	3.62	cps
Dysprosium	156-1	10	13	17	13	25.01	cps
Dysprosium	156-2	0	10	7	6	91.64	cps
Erbium	164-1	170	180	143	164	11.52	cps
Erbium	164-2	33	57	60	50	29.06	cps
Gadolinium	160-1	153	133	190	159	18.08	cps
Gadolinium	160-2	33	30	37	33	10.01	cps
Holmium	165-1	31018682	31179680	31328130	31175498	0.50	cps
Holmium	165-2	10854010	10777113	10804395	10811839	0.36	cps
Indium	115-1	26508271	26743698	26102292	26451420	1.23	cps
Indium	115-2	2666946	2719044	2693856	2693282	0.97	cps
Iron	54-2	1203	1113	1297	1205	7.61	cps
Iron	56-2	17334	18226	18025	17862	2.62	cps
Iron	57-2	440	393	473	436	9.23	cps
Krypton	83-1	287	310	337	311	8.04	cps
Lead	206-1	4531	4221	3994	4249	6.34	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3694	3370	3220	3428	7.06	cps
Lead	208-1	17315	16161	15397	16291	5.93	cps
Lithium	6-1	11149951	10665161	10607735	10807616	2.76	cps
Magnesium	24-2	910	783	830	841	7.62	cps
Manganese	55-2	387	557	410	451	20.43	cps
Molybdenum	94-1	2864	2290	2100	2418	16.44	cps
Molybdenum	95-1	3571	2437	2114	2707	28.26	cps
Molybdenum	96-1	4031	2907	2340	3093	27.82	cps
Molybdenum	97-1	2130	1583	1363	1692	23.33	cps
Molybdenum	98-1	5361	3604	3484	4150	25.33	cps
Neodymium	150-1	20	3	7	10	88.20	cps
Neodymium	150-2	13	7	3	8	65.47	cps
Nickel	60-2	910	843	783	846	7.49	cps
Phosphorus	31-2	137	120	110	122	11.02	cps
Potassium	39-2	20264	19981	20174	20140	0.72	cps
Rhodium	103-1	24835542	24934377	25031943	24933954	0.39	cps
Rhodium	103-2	9447857	9487780	9531835	9489157	0.44	cps
Scandium	45-1	19614056	19708439	19785644	19702713	0.44	cps
Scandium	45-2	380416	377848	380543	379603	0.40	cps
Selenium	82-1	67	23	0	30	112.59	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	17	17	18	10.81	cps
Silicon	28-1	935074	946960	912510	931515	1.88	cps
Silver	107-1	1887	1857	1670	1805	6.51	cps
Silver	109-1	1777	1493	1380	1550	13.18	cps
Sodium	23-2	136999	136390	134439	135943	0.98	cps
Strontium	86-1	630	600	647	626	3.78	cps
Strontium	88-1	1193	910	870	991	17.79	cps
Sulfur	34-1	659480	663731	665254	662822	0.45	cps
Terbium	159-1	32086558	32238892	31517094	31947515	1.19	cps
Terbium	159-2	10469383	10528399	10524165	10507316	0.31	cps
Thallium	203-1	1530	1493	1217	1413	12.12	cps
Thallium	205-1	3997	3484	3104	3528	12.71	cps
Tin	118-1	5565	5875	5541	5660	3.29	cps
Titanium	47-1	690	653	623	656	5.09	cps
Uranium	238-1	563	327	307	399	35.79	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:31:18	DataFile Name :	073CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	13	20	17	20.01	cps
Ytterbium	172-1	133	187	100	140	31.23	cps
Ytterbium	172-2	63	50	53	56	12.49	cps
Ytterbium	176-1	3674	3444	3597	3572	3.28	cps
Ytterbium	176-2	553	683	660	632	10.96	cps
Yttrium	89-1	42617229	41754301	41797444	42056325	1.16	cps
Yttrium	89-2	3112071	3100885	3085254	3099403	0.43	cps
Zinc	66-2	1137	1113	1077	1109	2.73	cps
Zirconium	90-1	2670	2430	2164	2421	10.47	cps
Zirconium	91-1	603	480	467	517	14.58	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	939663	948321	949992	945992	0.59	cps
Antimony	121-1	508428	500524	509351	506101	0.96	cps
Arsenic	75-2	17167	17414	16787	17123	1.85	cps
Barium	135-1	3684477	3748153	3769916	3734182	1.19	cps
Barium	137-1	6267324	6401646	6337664	6335545	1.06	cps
Beryllium	9-1	71739	72292	71010	71680	0.90	cps
Bismuth	209-1	19038190	18720258	18868621	18875690	0.84	cps
Bismuth	209-2	7655745	7581177	7700254	7645725	0.79	cps
Bromine	81-1	19567	20936	21290	20597	4.42	cps
Cadmium	108-1	7512	7499	7549	7520	0.34	cps
Cadmium	106-1	23677	23303	23694	23558	0.94	cps
Cadmium	111-1	110678	111161	110727	110855	0.24	cps
Calcium	43-1	7927216	8007073	7756718	7897002	1.62	cps
Calcium	44-1	130578491	128542398	127667385	128929425	1.16	cps
Carbon	12-1	13728504	14044518	14077168	13950063	1.38	cps
Carbon	12-2	86945	88753	88323	88007	1.07	cps
Chlorine	35-1	228381770	236722510	240739356	235281212	2.68	cps
Chlorine	35-2	993277	1000435	1004497	999403	0.57	cps
Chromium	52-2	7660759	7737218	7757204	7718394	0.66	cps
Cobalt	59-2	1125413	1124507	1122472	1124131	0.13	cps
Copper	63-2	1653067	1642341	1631666	1642358	0.65	cps
Dysprosium	156-1	40327	39428	39896	39884	1.13	cps
Dysprosium	156-2	12146	12199	12126	12157	0.31	cps
Erbium	164-1	39528	39662	40381	39857	1.15	cps
Erbium	164-2	13230	13147	13133	13170	0.40	cps
Gadolinium	160-1	36764	35584	36042	36130	1.65	cps
Gadolinium	160-2	14788	14331	14435	14518	1.65	cps
Holmium	165-1	32805005	32002795	32176555	32328118	1.31	cps
Holmium	165-2	11052395	10762575	10961163	10925378	1.36	cps
Indium	115-1	26985911	26784524	27015405	26928614	0.47	cps
Indium	115-2	2715714	2701160	2737150	2718008	0.67	cps
Iron	54-2	61310491	62806387	61990316	62035731	1.21	cps
Iron	56-2	1122122330	1131906196	1121735183	1125254570	0.51	cps
Iron	57-2	29148959	28329081	28773842	28750627	1.43	cps
Krypton	83-1	613	737	693	681	9.19	cps
Lead	206-1	34440333	34264953	33872540	34192609	0.85	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28519039	28054552	27704616	28092736	1.45	cps
Lead	208-1	131692252	130608301	129239354	130513302	0.94	cps
Lithium	6-1	10575287	10121004	10413214	10369835	2.22	cps
Magnesium	24-2	5921442	5889543	5973758	5928248	0.72	cps
Manganese	55-2	22963133	23666683	23168643	23266153	1.55	cps
Molybdenum	94-1	285190	284792	283487	284490	0.31	cps
Molybdenum	95-1	423247	416190	414754	418063	1.09	cps
Molybdenum	96-1	463138	463297	460018	462151	0.40	cps
Molybdenum	97-1	256041	260142	258628	258270	0.80	cps
Molybdenum	98-1	663667	655473	664234	661125	0.74	cps
Neodymium	150-1	57482	57804	57917	57734	0.39	cps
Neodymium	150-2	14354	13934	14067	14119	1.52	cps
Nickel	60-2	2548324	2605159	2528774	2560752	1.55	cps
Phosphorus	31-2	4988	5408	5331	5242	4.27	cps
Potassium	39-2	415639	420049	410377	415355	1.17	cps
Rhodium	103-1	24955145	23981501	24628661	24521769	2.02	cps
Rhodium	103-2	9307344	9250460	9345325	9301043	0.51	cps
Scandium	45-1	21125061	20367383	20630085	20707510	1.86	cps
Scandium	45-2	387605	387196	391287	388696	0.58	cps
Selenium	82-1	7035	6928	7215	7059	2.05	cps
Selenium	77-2	233	180	197	203	13.42	cps
Selenium	78-2	457	463	433	451	3.49	cps
Silicon	28-1	75427416	75221251	74718927	75122531	0.49	cps
Silver	107-1	415984	412538	418442	415655	0.71	cps
Silver	109-1	397819	398127	396946	397631	0.15	cps
Sodium	23-2	612542	612429	619155	614709	0.63	cps
Strontium	86-1	1128676	1140827	1116099	1128534	1.10	cps
Strontium	88-1	10120418	10181745	9948685	10083616	1.20	cps
Sulfur	34-1	927562	920454	925729	924582	0.40	cps
Terbium	159-1	33597213	32368501	33127001	33030905	1.88	cps
Terbium	159-2	10717071	10609039	10577360	10634490	0.69	cps
Thallium	203-1	252255	249834	252433	251507	0.58	cps
Thallium	205-1	599510	595559	592765	595945	0.57	cps
Tin	118-1	402329	398827	398230	399795	0.55	cps
Titanium	47-1	1902396	1840385	1862128	1868303	1.68	cps
Uranium	238-1	64024	61970	61960	62651	1.90	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-18	Instrumnet Name :	P8
Client Sample ID :	ME28Q4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:34:40	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	632429	632155	631894	632159	0.04	cps
Ytterbium	172-1	18319	18303	18079	18234	0.74	cps
Ytterbium	172-2	7456	7359	7426	7413	0.67	cps
Ytterbium	176-1	15262	14688	15139	15030	2.01	cps
Ytterbium	176-2	5198	5418	5234	5283	2.23	cps
Yttrium	89-1	44554259	44476714	44581016	44537330	0.12	cps
Yttrium	89-2	3177641	3139587	3154336	3157188	0.61	cps
Zinc	66-2	4003651	4040183	3967670	4003834	0.91	cps
Zirconium	90-1	130204	130447	130249	130300	0.10	cps
Zirconium	91-1	29013	28686	28556	28752	0.82	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1299945	1262961	1252714	1271873	1.95	cps
Antimony	121-1	12629	13020	12746	12798	1.57	cps
Arsenic	75-2	9173	9483	9370	9342	1.68	cps
Barium	135-1	674846	675859	677452	676052	0.19	cps
Barium	137-1	1173823	1151386	1166503	1163904	0.98	cps
Beryllium	9-1	8200	7977	7762	7980	2.75	cps
Bismuth	209-1	19246594	18781608	18589075	18872426	1.79	cps
Bismuth	209-2	7644037	7582222	7541853	7589370	0.68	cps
Bromine	81-1	20775	21663	22101	21513	3.14	cps
Cadmium	108-1	753	780	723	752	3.77	cps
Cadmium	106-1	14595	14004	14371	14323	2.08	cps
Cadmium	111-1	18091	17489	17689	17757	1.73	cps
Calcium	43-1	6197935	6201036	6063881	6154284	1.27	cps
Calcium	44-1	100342282	100774532	100950395	100689070	0.31	cps
Carbon	12-1	13975907	13964089	14059063	13999686	0.37	cps
Carbon	12-2	87116	88843	87740	87900	1.00	cps
Chlorine	35-1	211748004	217090650	217282463	215373706	1.46	cps
Chlorine	35-2	917934	914087	905568	912530	0.69	cps
Chromium	52-2	224594	223478	224540	224204	0.28	cps
Cobalt	59-2	200991	205444	201800	202745	1.17	cps
Copper	63-2	645118	650467	653186	649590	0.63	cps
Dysprosium	156-1	124624	124675	124207	124502	0.21	cps
Dysprosium	156-2	38609	39421	39421	39151	1.20	cps
Erbium	164-1	101073	100724	100318	100705	0.38	cps
Erbium	164-2	32934	32954	33108	32999	0.29	cps
Gadolinium	160-1	113993	114443	113208	113881	0.55	cps
Gadolinium	160-2	46106	46511	46246	46288	0.44	cps
Holmium	165-1	32688859	32179620	31910559	32259679	1.23	cps
Holmium	165-2	11007342	10926234	10953497	10962358	0.38	cps
Indium	115-1	27220028	26567762	27214282	27000691	1.39	cps
Indium	115-2	2751986	2727280	2727227	2735497	0.52	cps
Iron	54-2	9637745	9678569	9479872	9598729	1.09	cps
Iron	56-2	173689271	176132344	171334817	173718811	1.38	cps
Iron	57-2	4367342	4448174	4439967	4418494	1.01	cps
Krypton	83-1	680	733	737	717	4.44	cps
Lead	206-1	1045574	1021632	1033674	1033627	1.16	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	862211	853523	857231	857655	0.51	cps
Lead	208-1	4124036	4072347	4083245	4093209	0.67	cps
Lithium	6-1	10941188	10475940	10255502	10557543	3.32	cps
Magnesium	24-2	4308967	4346639	4248978	4301528	1.15	cps
Manganese	55-2	2353367	2347790	2299856	2333671	1.26	cps
Molybdenum	94-1	76978	76894	78374	77415	1.07	cps
Molybdenum	95-1	83821	82442	82607	82956	0.91	cps
Molybdenum	96-1	92958	92562	93089	92870	0.30	cps
Molybdenum	97-1	50742	51147	50789	50893	0.43	cps
Molybdenum	98-1	131893	129020	130362	130425	1.10	cps
Neodymium	150-1	176971	174395	177099	176155	0.87	cps
Neodymium	150-2	42404	43313	43146	42954	1.13	cps
Nickel	60-2	170759	168586	167733	169026	0.92	cps
Phosphorus	31-2	9026	8693	9163	8961	2.70	cps
Potassium	39-2	417645	412330	413133	414370	0.69	cps
Rhodium	103-1	25036236	25312910	25054744	25134630	0.62	cps
Rhodium	103-2	9474058	9352396	9504023	9443492	0.85	cps
Scandium	45-1	21460828	20678785	20922302	21020638	1.90	cps
Scandium	45-2	393542	397069	394914	395175	0.45	cps
Selenium	82-1	267	306	219	264	16.44	cps
Selenium	77-2	297	223	270	263	14.09	cps
Selenium	78-2	157	147	170	158	7.42	cps
Silicon	28-1	48993579	46696864	48122813	47937752	2.42	cps
Silver	107-1	7049	6472	6328	6616	5.76	cps
Silver	109-1	6515	5808	5848	6057	6.56	cps
Sodium	23-2	415810	421415	418809	418678	0.67	cps
Strontium	86-1	839491	839301	834032	837608	0.37	cps
Strontium	88-1	7496170	7468419	7520901	7495163	0.35	cps
Sulfur	34-1	715394	712858	719433	715895	0.46	cps
Terbium	159-1	33169685	32832440	32192780	32731635	1.52	cps
Terbium	159-2	10776744	10687526	10732053	10732108	0.42	cps
Thallium	203-1	6999	7089	6839	6975	1.82	cps
Thallium	205-1	16247	16387	16370	16335	0.47	cps
Tin	118-1	49937	51004	51439	50794	1.52	cps
Titanium	47-1	409032	402511	400596	404046	1.09	cps
Uranium	238-1	115791	112415	112742	113649	1.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P8
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:37:51	DataFile Name :	075AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	161651	159481	157893	159675	1.18	cps
Ytterbium	172-1	26700	26303	25822	26275	1.67	cps
Ytterbium	172-2	10418	10845	10691	10651	2.03	cps
Ytterbium	176-1	20212	20686	19151	20016	3.93	cps
Ytterbium	176-2	6949	7232	7636	7272	4.75	cps
Yttrium	89-1	45496884	44544703	45754543	45265377	1.41	cps
Yttrium	89-2	3249254	3155668	3241846	3215589	1.62	cps
Zinc	66-2	147343	147413	144622	146460	1.09	cps
Zirconium	90-1	83428	84638	85178	84415	1.06	cps
Zirconium	91-1	18950	18833	18396	18726	1.56	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1340312	1321741	1355660	1339238	1.27	cps
Antimony	121-1	42369	42409	42683	42487	0.40	cps
Arsenic	75-2	8149	7716	7942	7936	2.73	cps
Barium	135-1	1090580	1089098	1078021	1085900	0.63	cps
Barium	137-1	1944653	1977924	1910717	1944431	1.73	cps
Beryllium	9-1	8933	8735	8507	8725	2.44	cps
Bismuth	209-1	18592905	18531398	19371035	18831779	2.49	cps
Bismuth	209-2	7551295	7646855	6478522	7225557	8.98	cps
Bromine	81-1	23413	24238	24208	23953	1.95	cps
Cadmium	108-1	2600	2504	2707	2604	3.91	cps
Cadmium	106-1	16917	16530	17848	17098	3.96	cps
Cadmium	111-1	42564	41949	43151	42555	1.41	cps
Calcium	43-1	9276655	9176740	9183137	9212178	0.61	cps
Calcium	44-1	154161051	153402384	152770268	153444568	0.45	cps
Carbon	12-1	29952061	29779773	30062147	29931327	0.48	cps
Carbon	12-2	192664	193199	193652	193172	0.26	cps
Chlorine	35-1	245371843	252008290	251903150	249761094	1.52	cps
Chlorine	35-2	1064619	1069211	1079818	1071216	0.73	cps
Chromium	52-2	2213624	2169489	2203197	2195437	1.05	cps
Cobalt	59-2	154034	152548	155849	154144	1.07	cps
Copper	63-2	1264146	1260933	1271388	1265489	0.42	cps
Dysprosium	156-1	75703	76353	75670	75908	0.51	cps
Dysprosium	156-2	25030	24826	25090	24982	0.55	cps
Erbium	164-1	66998	66552	66043	66531	0.72	cps
Erbium	164-2	21467	21815	22229	21837	1.75	cps
Gadolinium	160-1	71929	71373	70689	71331	0.87	cps
Gadolinium	160-2	29012	29055	28871	28979	0.33	cps
Holmium	165-1	32155912	31627540	33298559	32360670	2.64	cps
Holmium	165-2	11187736	11332277	9403878	10641297	10.09	cps
Indium	115-1	26819266	26869323	27991180	27226590	2.43	cps
Indium	115-2	2767883	2815091	2337342	2640106	9.97	cps
Iron	54-2	31809881	31616953	31476700	31634511	0.53	cps
Iron	56-2	569476925	573559378	573767098	572267800	0.42	cps
Iron	57-2	14593911	14624133	14585399	14601148	0.14	cps
Krypton	83-1	670	800	783	751	9.42	cps
Lead	206-1	10728927	10731937	10681929	10714264	0.26	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8932470	8828929	8815974	8859125	0.72	cps
Lead	208-1	41834881	41464979	40911832	41403898	1.12	cps
Lithium	6-1	10211806	10085656	10033447	10110303	0.91	cps
Magnesium	24-2	5470940	5577674	5591094	5546569	1.19	cps
Manganese	55-2	13623902	13303092	13505032	13477342	1.20	cps
Molybdenum	94-1	178148	179489	178993	178877	0.38	cps
Molybdenum	95-1	251131	250335	251143	250870	0.18	cps
Molybdenum	96-1	275185	279750	273958	276298	1.10	cps
Molybdenum	97-1	154681	156761	151853	154432	1.60	cps
Molybdenum	98-1	396380	393110	392630	394040	0.52	cps
Neodymium	150-1	110517	110739	108968	110075	0.88	cps
Neodymium	150-2	26369	26917	27121	26802	1.45	cps
Nickel	60-2	520451	526563	523971	523662	0.59	cps
Phosphorus	31-2	7645	7732	7609	7662	0.83	cps
Potassium	39-2	773618	775964	789711	779764	1.11	cps
Rhodium	103-1	24409634	24192152	25363953	24655246	2.53	cps
Rhodium	103-2	9712989	9725224	8065993	9168068	10.41	cps
Scandium	45-1	20994328	20728370	21488293	21070330	1.83	cps
Scandium	45-2	398657	407536	342478	382890	9.21	cps
Selenium	82-1	255	211	158	208	23.28	cps
Selenium	77-2	170	157	157	161	4.78	cps
Selenium	78-2	97	110	110	106	7.29	cps
Silicon	28-1	58537521	57367392	56417367	57440760	1.85	cps
Silver	107-1	62300	64031	62651	62994	1.45	cps
Silver	109-1	60385	61741	60934	61020	1.12	cps
Sodium	23-2	510195	515325	515303	513607	0.58	cps
Strontium	86-1	1864378	1904744	1862341	1877154	1.27	cps
Strontium	88-1	16296429	16418466	16124062	16279652	0.91	cps
Sulfur	34-1	912248	915641	906900	911596	0.48	cps
Terbium	159-1	33250845	32547397	34066390	33288211	2.28	cps
Terbium	159-2	10818569	10867074	9252168	10312604	8.91	cps
Thallium	203-1	19952	19698	20416	20022	1.82	cps
Thallium	205-1	47393	48477	47768	47879	1.15	cps
Tin	118-1	207013	205039	205123	205725	0.54	cps
Titanium	47-1	1533925	1497942	1463049	1498305	2.37	cps
Uranium	238-1	90164	89684	90080	89976	0.28	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-20	Instrumnet Name :	P8
Client Sample ID :	ME28R3	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:41:04	DataFile Name :	076AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	361890	365641	369909	365813	1.10	cps
Ytterbium	172-1	20403	20680	20556	20546	0.68	cps
Ytterbium	172-2	8116	8389	8549	8352	2.63	cps
Ytterbium	176-1	16611	16304	16390	16435	0.96	cps
Ytterbium	176-2	6008	5825	6055	5963	2.04	cps
Yttrium	89-1	44392241	45112241	46252989	45252490	2.07	cps
Yttrium	89-2	3351795	3381343	2797155	3176764	10.36	cps
Zinc	66-2	1586964	1590198	1603870	1593677	0.56	cps
Zirconium	90-1	103407	102983	99670	102020	2.01	cps
Zirconium	91-1	22254	22689	22692	22545	1.12	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1407713	1421464	1453032	1427403	1.63	cps
Antimony	121-1	51604	51781	51165	51516	0.62	cps
Arsenic	75-2	10364	10294	10287	10315	0.41	cps
Barium	135-1	1209227	1201456	1192666	1201117	0.69	cps
Barium	137-1	2174952	2145971	2175584	2165503	0.78	cps
Beryllium	9-1	9333	9358	9316	9336	0.22	cps
Bismuth	209-1	18873527	18694732	18926805	18831688	0.65	cps
Bismuth	209-2	7690792	7539074	7639286	7623051	1.01	cps
Bromine	81-1	24401	25153	24545	24700	1.61	cps
Cadmium	108-1	2714	2610	2947	2757	6.26	cps
Cadmium	106-1	17535	17284	17384	17401	0.72	cps
Cadmium	111-1	45476	44855	45361	45231	0.73	cps
Calcium	43-1	9902395	9785131	9541621	9743049	1.89	cps
Calcium	44-1	163209061	162761791	158167354	161379402	1.73	cps
Carbon	12-1	30264949	31131343	31300405	30898899	1.80	cps
Carbon	12-2	200334	197787	200638	199587	0.78	cps
Chlorine	35-1	216050917	222518790	230134703	222901470	3.16	cps
Chlorine	35-2	951011	945325	963787	953374	0.99	cps
Chromium	52-2	2098049	2094105	2075686	2089280	0.57	cps
Cobalt	59-2	193510	190953	192425	192296	0.67	cps
Copper	63-2	1444398	1436474	1443088	1441320	0.29	cps
Dysprosium	156-1	82355	82589	82456	82467	0.14	cps
Dysprosium	156-2	26733	26536	26463	26578	0.53	cps
Erbium	164-1	70861	72804	71534	71733	1.38	cps
Erbium	164-2	23304	23831	23564	23566	1.12	cps
Gadolinium	160-1	77909	77637	78550	78032	0.60	cps
Gadolinium	160-2	31521	31544	31878	31648	0.63	cps
Holmium	165-1	32395350	32552674	32149995	32366006	0.63	cps
Holmium	165-2	11246199	11012422	10907392	11055338	1.57	cps
Indium	115-1	27713352	27131279	27083107	27309246	1.28	cps
Indium	115-2	2782150	2754269	2704403	2746941	1.43	cps
Iron	54-2	40509405	40274034	40774408	40519282	0.62	cps
Iron	56-2	751814575	737285589	730982096	740027420	1.44	cps
Iron	57-2	18705543	18428640	18831773	18655318	1.11	cps
Krypton	83-1	717	743	693	718	3.49	cps
Lead	206-1	12363929	12232024	12397235	12331063	0.71	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10017153	10225480	10139484	10127372	1.03	cps
Lead	208-1	47207049	47270101	47201682	47226277	0.08	cps
Lithium	6-1	10153410	9824245	10169040	10048898	1.94	cps
Magnesium	24-2	6038334	5953788	5993333	5995152	0.71	cps
Manganese	55-2	14304465	14208724	14093489	14202226	0.74	cps
Molybdenum	94-1	165039	164031	163313	164128	0.53	cps
Molybdenum	95-1	223538	223721	221816	223025	0.47	cps
Molybdenum	96-1	251766	251224	246135	249708	1.24	cps
Molybdenum	97-1	136877	135740	135769	136129	0.48	cps
Molybdenum	98-1	353040	351404	348281	350908	0.69	cps
Neodymium	150-1	119765	119117	118826	119236	0.40	cps
Neodymium	150-2	28988	28664	29636	29096	1.70	cps
Nickel	60-2	554000	552925	564887	557271	1.19	cps
Phosphorus	31-2	8423	8433	8229	8361	1.37	cps
Potassium	39-2	803773	783077	807048	797966	1.63	cps
Rhodium	103-1	25368419	24960359	24988165	25105648	0.91	cps
Rhodium	103-2	9778502	9490021	9445774	9571432	1.89	cps
Scandium	45-1	21819946	21099672	21330193	21416604	1.72	cps
Scandium	45-2	400935	395917	407978	401610	1.51	cps
Selenium	82-1	293	229	369	297	23.64	cps
Selenium	77-2	130	200	153	161	22.12	cps
Selenium	78-2	137	157	147	147	6.82	cps
Silicon	28-1	53888198	54535306	62743921	57055808	8.65	cps
Silver	107-1	70710	70539	69437	70229	0.98	cps
Silver	109-1	67518	67092	66985	67198	0.42	cps
Sodium	23-2	544479	540040	542033	542184	0.41	cps
Strontium	86-1	1961698	1957235	1960939	1959957	0.12	cps
Strontium	88-1	16816449	16607503	16583206	16669053	0.77	cps
Sulfur	34-1	940097	921234	925997	929109	1.06	cps
Terbium	159-1	33877866	33089516	33511049	33492810	1.18	cps
Terbium	159-2	10793040	10592415	10841581	10742345	1.23	cps
Thallium	203-1	22660	21849	22449	22319	1.89	cps
Thallium	205-1	53744	52321	52248	52771	1.60	cps
Tin	118-1	272085	273564	269961	271870	0.67	cps
Titanium	47-1	1511489	1534689	1537674	1527951	0.94	cps
Uranium	238-1	95942	95284	96247	95825	0.51	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5154-21	Instrumnet Name :	P8
Client Sample ID :	ME28R4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:44:09	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	405652	397378	400816	401282	1.04	cps
Ytterbium	172-1	22546	21825	22349	22240	1.68	cps
Ytterbium	172-2	9350	9016	9070	9145	1.96	cps
Ytterbium	176-1	17889	17568	17488	17649	1.20	cps
Ytterbium	176-2	6738	6285	6518	6514	3.48	cps
Yttrium	89-1	46603919	45265253	45618451	45829208	1.51	cps
Yttrium	89-2	3310079	3337829	3314158	3320689	0.45	cps
Zinc	66-2	1712775	1701244	1686916	1700312	0.76	cps
Zirconium	90-1	108656	106519	105357	106844	1.57	cps
Zirconium	91-1	23861	23650	22765	23425	2.48	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	127	80	99	24.85	cps
Antimony	121-1	390	420	407	406	3.71	cps
Arsenic	75-2	10	7	0	6	91.64	cps
Barium	135-1	227	173	283	228	24.16	cps
Barium	137-1	310	340	240	297	17.30	cps
Beryllium	9-1	264	254	222	247	9.02	cps
Bismuth	209-1	56325217	56212979	54052438	55530211	2.31	cps
Bismuth	209-2	26126577	30688482	27259646	28024902	8.48	cps
Bromine	81-1	9400	8633	9183	9072	4.36	cps
Cadmium	108-1	57	47	57	53	10.82	cps
Cadmium	106-1	26277	25001	24460	25246	3.69	cps
Cadmium	111-1	18374	17518	17122	17671	3.62	cps
Calcium	43-1	1487	1373	1130	1330	13.70	cps
Calcium	44-1	42192	40370	35679	39414	8.52	cps
Carbon	12-1	10168462	5664707	5603728	7145633	36.64	cps
Carbon	12-2	45226	32272	40978	39492	16.72	cps
Chlorine	35-1	15990152	17956588	14634178	16193639	10.32	cps
Chlorine	35-2	47598	43612	40289	43833	8.35	cps
Chromium	52-2	607	670	737	671	9.69	cps
Cobalt	59-2	187	193	247	209	15.74	cps
Copper	63-2	4124	4261	4004	4130	3.11	cps
Dysprosium	156-1	50	30	47	42	25.38	cps
Dysprosium	156-2	13	30	13	19	50.96	cps
Erbium	164-1	477	440	407	441	7.94	cps
Erbium	164-2	153	203	140	166	20.17	cps
Gadolinium	160-1	397	370	350	372	6.29	cps
Gadolinium	160-2	73	97	100	90	16.15	cps
Holmium	165-1	96140142	94646429	91180982	93989184	2.71	cps
Holmium	165-2	37742649	43909678	39170744	40274357	8.02	cps
Indium	115-1	80114659	79701336	77587122	79134373	1.71	cps
Indium	115-2	9205396	10654296	9712969	9857554	7.46	cps
Iron	54-2	1337	1243	1577	1386	12.41	cps
Iron	56-2	17968	19624	21727	19773	9.53	cps
Iron	57-2	530	427	507	488	11.11	cps
Krypton	83-1	4387	1997	1803	2729	52.74	cps
Lead	206-1	4228	3024	2887	3379	21.83	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3527	2584	2484	2865	20.10	cps
Lead	208-1	16241	11869	11195	13102	20.91	cps
Lithium	6-1	36344773	34521296	33395068	34753713	4.28	cps
Magnesium	24-2	873	837	867	859	2.27	cps
Manganese	55-2	403	397	440	413	5.64	cps
Molybdenum	94-1	1620	2024	1763	1802	11.35	cps
Molybdenum	95-1	647	753	513	638	18.85	cps
Molybdenum	96-1	770	920	847	846	8.87	cps
Molybdenum	97-1	430	420	447	432	3.12	cps
Molybdenum	98-1	1057	1043	840	980	12.39	cps
Neodymium	150-1	53	27	50	43	33.52	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	350	390	293	344	14.10	cps
Phosphorus	31-2	100	83	117	100	16.67	cps
Potassium	39-2	13006	13189	12746	12980	1.72	cps
Rhodium	103-1	73429094	73989172	72480729	73299665	1.04	cps
Rhodium	103-2	32978155	37799882	34229450	35002496	7.15	cps
Scandium	45-1	61113926	60672811	58952477	60246405	1.90	cps
Scandium	45-2	1402214	1567461	1418419	1462698	6.23	cps
Selenium	82-1	20	-113	47	-16	-551.25	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	20	7	23	17	52.90	cps
Silicon	28-1	2478462	1791978	2002822	2091087	16.82	cps
Silver	107-1	573	700	650	641	9.95	cps
Silver	109-1	230	327	270	276	17.63	cps
Sodium	23-2	117589	112086	111986	113887	2.82	cps
Strontium	86-1	7326	3317	3127	4590	51.66	cps
Strontium	88-1	1573	1023	897	1165	30.89	cps
Sulfur	34-1	380193	404854	408566	397871	3.88	cps
Terbium	159-1	97372759	98240129	92787495	96133461	3.05	cps
Terbium	159-2	36604097	42519319	38190612	39104676	7.83	cps
Thallium	203-1	480	450	577	502	13.18	cps
Thallium	205-1	1247	1160	1240	1216	3.97	cps
Tin	118-1	1960	2767	2544	2424	17.19	cps
Titanium	47-1	867	1244	847	986	22.68	cps
Uranium	238-1	33	67	40	47	37.80	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:47:16	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	17	10	17	39.99	cps
Ytterbium	172-1	493	550	480	508	7.32	cps
Ytterbium	172-2	220	283	320	274	18.43	cps
Ytterbium	176-1	7309	7222	7072	7201	1.66	cps
Ytterbium	176-2	1507	1860	1650	1672	10.63	cps
Yttrium	89-1	128884865	126016268	125192308	126697814	1.53	cps
Yttrium	89-2	10598540	12117870	10878832	11198414	7.22	cps
Zinc	66-2	1417	1630	1540	1529	7.01	cps
Zirconium	90-1	4257	4424	4297	4326	2.01	cps
Zirconium	91-1	927	930	807	888	7.91	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	137	123	131	5.29	cps
Antimony	121-1	247	337	323	302	16.07	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	127	147	253	176	38.80	cps
Barium	137-1	200	470	320	330	41.02	cps
Beryllium	9-1	194	210	242	215	11.28	cps
Bismuth	209-1	61099447	46891153	57164412	55051671	13.33	cps
Bismuth	209-2	27307900	29951118	31270994	29510004	6.84	cps
Bromine	81-1	7672	8653	8126	8150	6.02	cps
Cadmium	108-1	63	50	83	66	25.59	cps
Cadmium	106-1	24823	21422	25535	23927	9.19	cps
Cadmium	111-1	17352	14991	17833	16725	9.10	cps
Calcium	43-1	873	1073	967	971	10.31	cps
Calcium	44-1	31062	32418	31452	31644	2.21	cps
Carbon	12-1	8742994	5025981	5387893	6385623	32.10	cps
Carbon	12-2	33549	27516	36309	32458	13.85	cps
Chlorine	35-1	5560012	6231311	5609778	5800367	6.45	cps
Chlorine	35-2	22494	21960	22084	22179	1.26	cps
Chromium	52-2	650	653	713	672	5.30	cps
Cobalt	59-2	300	303	307	303	1.10	cps
Copper	63-2	3744	3804	3781	3776	0.80	cps
Dysprosium	156-1	50	40	23	38	35.67	cps
Dysprosium	156-2	20	10	10	13	43.30	cps
Erbium	164-1	420	393	337	383	11.10	cps
Erbium	164-2	133	187	157	159	16.83	cps
Gadolinium	160-1	383	320	403	369	11.79	cps
Gadolinium	160-2	130	87	113	110	19.87	cps
Holmium	165-1	101669895	77739254	93997439	91135529	13.41	cps
Holmium	165-2	38305756	42081650	45081214	41822874	8.12	cps
Indium	115-1	85655543	65239871	80850308	77248574	13.82	cps
Indium	115-2	9588179	10371605	11092644	10350810	7.27	cps
Iron	54-2	1153	1160	1047	1120	5.68	cps
Iron	56-2	15992	18867	15368	16743	11.15	cps
Iron	57-2	410	333	323	356	13.34	cps
Krypton	83-1	4024	1480	1917	2474	54.99	cps
Lead	206-1	3174	2640	2490	2768	12.98	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2560	2444	2187	2397	7.97	cps
Lead	208-1	11909	10912	9772	10864	9.84	cps
Lithium	6-1	39819969	29573941	36374999	35256303	14.79	cps
Magnesium	24-2	923	940	827	897	6.82	cps
Manganese	55-2	410	437	290	379	20.62	cps
Molybdenum	94-1	1523	1420	1547	1497	4.50	cps
Molybdenum	95-1	403	480	500	461	11.07	cps
Molybdenum	96-1	763	730	640	711	8.97	cps
Molybdenum	97-1	300	300	280	293	3.94	cps
Molybdenum	98-1	720	687	623	677	7.26	cps
Neodymium	150-1	30	60	40	43	35.25	cps
Neodymium	150-2	13	7	7	9	43.25	cps
Nickel	60-2	327	403	363	364	10.52	cps
Phosphorus	31-2	90	70	123	94	28.53	cps
Potassium	39-2	11982	11595	12212	11929	2.61	cps
Rhodium	103-1	79938782	61542461	74751221	72077488	13.16	cps
Rhodium	103-2	33322890	36929586	39355984	36536153	8.31	cps
Scandium	45-1	64043882	49923459	62378731	58782024	13.13	cps
Scandium	45-2	1403523	1515307	1615038	1511289	7.00	cps
Selenium	82-1	-257	0	-27	-94	-149.43	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	17	10	11	45.82	cps
Silicon	28-1	1987805	1792090	2254822	2011572	11.55	cps
Silver	107-1	503	477	550	510	7.28	cps
Silver	109-1	210	177	213	200	10.14	cps
Sodium	23-2	96869	93732	99451	96684	2.96	cps
Strontium	86-1	6158	2244	2957	3786	55.07	cps
Strontium	88-1	563	793	967	775	26.14	cps
Sulfur	34-1	351753	454974	416337	407688	12.79	cps
Terbium	159-1	103924792	78563081	97010399	93166090	14.07	cps
Terbium	159-2	37842140	41137845	43916318	40965434	7.42	cps
Thallium	203-1	623	587	647	619	4.89	cps
Thallium	205-1	1650	1467	1393	1503	8.79	cps
Tin	118-1	1400	3311	2337	2349	40.67	cps
Titanium	47-1	657	777	683	706	8.93	cps
Uranium	238-1	30	30	57	39	39.59	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:50:33	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	37	13	26	45.82	cps
Ytterbium	172-1	527	367	470	454	17.85	cps
Ytterbium	172-2	207	260	300	256	18.32	cps
Ytterbium	176-1	7636	6325	7329	7097	9.66	cps
Ytterbium	176-2	1423	1750	2030	1735	17.51	cps
Yttrium	89-1	134041955	104626665	130244888	122971169	13.01	cps
Yttrium	89-2	10765670	11861317	12538041	11721676	7.63	cps
Zinc	66-2	1427	1503	1580	1503	5.10	cps
Zirconium	90-1	4181	4251	4201	4211	0.86	cps
Zirconium	91-1	790	800	793	794	0.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	173	123	340	212	53.46	cps
Antimony	121-1	303	223	170	232	28.90	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	160	140	107	136	19.87	cps
Barium	137-1	257	197	157	203	24.75	cps
Beryllium	9-1	267	179	157	201	28.95	cps
Bismuth	209-1	49875241	69362281	62753604	60663709	16.34	cps
Bismuth	209-2	40155900	28764118	13364596	27428205	49.02	cps
Bromine	81-1	10377	6428	5601	7469	34.18	cps
Cadmium	108-1	33	73	57	54	36.91	cps
Cadmium	106-1	24650	27111	23722	25161	6.96	cps
Cadmium	111-1	17262	18956	16589	17602	6.93	cps
Calcium	43-1	1090	930	800	940	15.45	cps
Calcium	44-1	35351	28617	26686	30218	15.05	cps
Carbon	12-1	13354427	6881188	5600614	8612076	48.26	cps
Carbon	12-2	39660	37011	29056	35242	15.66	cps
Chlorine	35-1	4251720	3578689	3619612	3816674	9.89	cps
Chlorine	35-2	15392	15659	18736	16595	11.20	cps
Chromium	52-2	873	627	1630	1043	50.11	cps
Cobalt	59-2	367	420	177	321	39.83	cps
Copper	63-2	4754	3567	3214	3845	20.99	cps
Dysprosium	156-1	47	43	37	42	12.06	cps
Dysprosium	156-2	23	13	7	14	58.06	cps
Erbium	164-1	347	540	457	448	21.66	cps
Erbium	164-2	243	223	80	182	48.89	cps
Gadolinium	160-1	373	447	370	397	10.92	cps
Gadolinium	160-2	110	97	50	86	36.82	cps
Holmium	165-1	84685564	114502285	106639142	101942330	15.16	cps
Holmium	165-2	57730589	40988018	18922445	39213684	49.64	cps
Indium	115-1	71792704	96994088	89387603	86058132	15.02	cps
Indium	115-2	14184848	9978149	4837861	9666953	48.43	cps
Iron	54-2	1120	910	1587	1206	28.73	cps
Iron	56-2	14508	11405	32691	19534	58.87	cps
Iron	57-2	317	310	623	417	42.96	cps
Krypton	83-1	5631	2714	2297	3547	51.22	cps
Lead	206-1	2477	2157	1967	2200	11.72	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2160	1910	1513	1861	17.52	cps
Lead	208-1	10155	8174	7401	8577	16.56	cps
Lithium	6-1	33495052	45089761	43832186	40805666	15.59	cps
Magnesium	24-2	1127	860	860	949	16.23	cps
Manganese	55-2	333	280	523	379	33.76	cps
Molybdenum	94-1	1547	1787	1513	1616	9.23	cps
Molybdenum	95-1	503	307	323	378	28.87	cps
Molybdenum	96-1	770	487	630	629	22.53	cps
Molybdenum	97-1	333	140	133	202	56.17	cps
Molybdenum	98-1	820	387	373	527	48.25	cps
Neodymium	150-1	40	53	40	44	17.32	cps
Neodymium	150-2	27	27	7	20	57.73	cps
Nickel	60-2	487	380	650	506	26.90	cps
Phosphorus	31-2	120	107	90	106	14.24	cps
Potassium	39-2	11992	11301	14668	12654	14.05	cps
Rhodium	103-1	66722389	89417232	83855565	79998395	14.79	cps
Rhodium	103-2	50082404	35397921	17043934	34174753	48.44	cps
Scandium	45-1	54977808	73355542	67165019	65166123	14.35	cps
Scandium	45-2	2147190	1490030	705237	1447486	49.87	cps
Selenium	82-1	110	157	-137	43	363.60	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	23	43	20	29	43.68	cps
Silicon	28-1	2817876	1419985	1230463	1822775	47.56	cps
Silver	107-1	460	490	497	482	4.05	cps
Silver	109-1	277	123	143	181	46.02	cps
Sodium	23-2	94614	87638	101130	94461	7.14	cps
Strontium	86-1	9007	4231	3300	5513	55.54	cps
Strontium	88-1	727	457	513	566	25.17	cps
Sulfur	34-1	445518	336202	318859	366859	18.72	cps
Terbium	159-1	86533202	116642065	109788185	104321151	15.13	cps
Terbium	159-2	56359717	38985134	18569464	37971438	49.82	cps
Thallium	203-1	690	630	563	628	10.09	cps
Thallium	205-1	1573	1403	1123	1367	16.63	cps
Tin	118-1	2757	1183	1037	1659	57.48	cps
Titanium	47-1	653	700	657	670	3.89	cps
Uranium	238-1	37	27	40	34	20.14	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LREX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 17:53:53	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	23	30	27	12.51	cps
Ytterbium	172-1	447	523	520	497	8.73	cps
Ytterbium	172-2	387	233	137	252	49.98	cps
Ytterbium	176-1	7322	8203	7039	7521	8.07	cps
Ytterbium	176-2	2190	1770	910	1623	40.20	cps
Yttrium	89-1	112756758	152292478	142730791	135926676	15.18	cps
Yttrium	89-2	16317165	11432007	5518519	11089230	48.76	cps
Zinc	66-2	2064	1373	1137	1525	31.58	cps
Zirconium	90-1	4081	4894	4411	4462	9.17	cps
Zirconium	91-1	763	897	960	873	11.50	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	263	157	130	183	38.49	cps
Antimony	121-1	190	137	170	166	16.27	cps
Arsenic	75-2	3	10	0	4	114.60	cps
Barium	135-1	147	127	180	151	17.83	cps
Barium	137-1	223	167	247	212	19.39	cps
Beryllium	9-1	195	180	163	180	9.04	cps
Bismuth	209-1	54345309	63449276	77429727	65074771	17.87	cps
Bismuth	209-2	13436661	20235238	27946550	20539483	35.35	cps
Bromine	81-1	8246	5715	5661	6541	22.58	cps
Cadmium	108-1	50	43	47	47	7.15	cps
Cadmium	106-1	22363	24055	28053	24823	11.77	cps
Cadmium	111-1	15645	16835	19618	17366	11.74	cps
Calcium	43-1	947	853	847	882	6.34	cps
Calcium	44-1	30119	26001	28981	28367	7.50	cps
Carbon	12-1	11839649	4818505	4609698	7089284	58.05	cps
Carbon	12-2	29768	34972	36432	33724	10.39	cps
Chlorine	35-1	2901021	2798273	3013539	2904277	3.71	cps
Chlorine	35-2	17077	14177	11828	14361	18.31	cps
Chromium	52-2	1773	1450	713	1312	41.40	cps
Cobalt	59-2	217	230	323	257	22.64	cps
Copper	63-2	3394	3590	3657	3547	3.86	cps
Dysprosium	156-1	17	40	40	32	41.80	cps
Dysprosium	156-2	7	17	3	9	78.08	cps
Erbium	164-1	363	447	547	452	20.30	cps
Erbium	164-2	77	127	210	138	48.89	cps
Gadolinium	160-1	383	383	430	399	6.75	cps
Gadolinium	160-2	60	70	73	68	10.24	cps
Holmium	165-1	91521959	104766998	128189821	108159593	17.17	cps
Holmium	165-2	19609996	29094870	39143203	29282689	33.36	cps
Indium	115-1	74257851	87094582	108227747	89860060	19.09	cps
Indium	115-2	4866591	7215345	9474369	7185435	32.07	cps
Iron	54-2	1333	1067	903	1101	19.71	cps
Iron	56-2	19353	16413	10497	15421	29.25	cps
Iron	57-2	443	410	270	374	24.56	cps
Krypton	83-1	5275	1900	1587	2921	70.01	cps
Lead	206-1	2577	1770	1750	2032	23.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2160	1457	1550	1722	22.18	cps
Lead	208-1	9962	6921	6901	7928	22.22	cps
Lithium	6-1	36606704	42140076	50179543	42975441	15.88	cps
Magnesium	24-2	1013	1013	983	1003	1.73	cps
Manganese	55-2	523	390	280	398	30.63	cps
Molybdenum	94-1	1347	1503	1877	1576	17.28	cps
Molybdenum	95-1	317	263	270	283	10.26	cps
Molybdenum	96-1	507	487	533	509	4.60	cps
Molybdenum	97-1	157	133	150	147	8.19	cps
Molybdenum	98-1	493	410	447	450	9.28	cps
Neodymium	150-1	40	33	47	40	16.68	cps
Neodymium	150-2	10	3	10	8	49.52	cps
Nickel	60-2	767	593	357	572	35.97	cps
Phosphorus	31-2	127	117	80	108	22.80	cps
Potassium	39-2	14491	13884	11351	13242	12.58	cps
Rhodium	103-1	68357709	81508460	98433049	82766406	18.22	cps
Rhodium	103-2	16935469	25785728	33245950	25322382	32.24	cps
Scandium	45-1	58222379	66371159	80721400	68438313	16.64	cps
Scandium	45-2	734689	1032153	1439575	1068805	33.11	cps
Selenium	82-1	-284	-127	197	-71	-344.12	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	7	7	9	43.25	cps
Silicon	28-1	2462887	1101258	1041720	1535288	52.36	cps
Silver	107-1	480	397	547	474	15.84	cps
Silver	109-1	180	190	187	186	2.74	cps
Sodium	23-2	98507	96704	85787	93666	7.35	cps
Strontium	86-1	8827	3150	2660	4879	70.25	cps
Strontium	88-1	540	463	613	539	13.92	cps
Sulfur	34-1	358060	321074	328929	336021	5.80	cps
Terbium	159-1	94665042	107390672	130732388	110929367	16.49	cps
Terbium	159-2	19117578	28160763	38127562	28468634	33.40	cps
Thallium	203-1	640	547	483	557	14.16	cps
Thallium	205-1	1690	1177	1210	1359	21.14	cps
Tin	118-1	1370	970	1130	1157	17.41	cps
Titanium	47-1	650	603	690	648	6.70	cps
Uranium	238-1	40	47	47	44	8.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 17:57:09	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47	17	7	23	89.20	cps
Ytterbium	172-1	453	577	567	532	12.87	cps
Ytterbium	172-2	133	180	190	168	18.02	cps
Ytterbium	176-1	6832	7202	8823	7619	13.90	cps
Ytterbium	176-2	880	1250	1927	1352	39.25	cps
Yttrium	89-1	120167392	139580068	171654817	143800759	18.08	cps
Yttrium	89-2	5605397	8083541	10866929	8185289	32.16	cps
Zinc	66-2	1423	1407	1460	1430	1.91	cps
Zirconium	90-1	3737	4231	5398	4455	19.14	cps
Zirconium	91-1	770	810	1053	878	17.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	87	100	107	22.54	cps
Antimony	121-1	203	227	213	214	5.46	cps
Arsenic	75-2	10	0	7	6	91.64	cps
Barium	135-1	93	153	130	126	24.09	cps
Barium	137-1	207	213	257	226	12.04	cps
Beryllium	9-1	178	199	202	193	6.74	cps
Bismuth	209-1	53680293	55811571	46731534	52074466	9.12	cps
Bismuth	209-2	31006249	24199197	27706247	27637231	12.32	cps
Bromine	81-1	6695	7089	8129	7304	10.14	cps
Cadmium	108-1	50	60	53	54	9.35	cps
Cadmium	106-1	21982	24089	22055	22709	5.27	cps
Cadmium	111-1	15379	16851	15418	15883	5.28	cps
Calcium	43-1	977	1177	1157	1103	9.98	cps
Calcium	44-1	27511	32638	30350	30166	8.51	cps
Carbon	12-1	8390961	4881500	5396631	6223030	30.45	cps
Carbon	12-2	30197	35441	31220	32286	8.61	cps
Chlorine	35-1	2317949	2959409	2933465	2736941	13.27	cps
Chlorine	35-2	10671	10664	10651	10662	0.10	cps
Chromium	52-2	580	480	617	559	12.66	cps
Cobalt	59-2	260	320	300	293	10.41	cps
Copper	63-2	3587	3200	3254	3347	6.26	cps
Dysprosium	156-1	37	17	40	31	40.56	cps
Dysprosium	156-2	10	20	17	16	32.73	cps
Erbium	164-1	417	460	350	409	13.55	cps
Erbium	164-2	173	160	197	177	10.51	cps
Gadolinium	160-1	360	383	307	350	11.23	cps
Gadolinium	160-2	107	97	67	90	23.13	cps
Holmium	165-1	90456935	95406985	79801745	88555222	9.01	cps
Holmium	165-2	44290853	34475116	39307674	39357881	12.47	cps
Indium	115-1	76420738	79813905	65736809	73990484	9.93	cps
Indium	115-2	10726115	8570366	9644218	9646900	11.17	cps
Iron	54-2	767	873	897	846	8.20	cps
Iron	56-2	10037	9093	9283	9471	5.27	cps
Iron	57-2	213	273	243	243	12.33	cps
Krypton	83-1	3927	1547	1597	2357	57.71	cps
Lead	206-1	2260	2077	2260	2199	4.81	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2120	1783	1913	1939	8.76	cps
Lead	208-1	9255	8058	9018	8777	7.22	cps
Lithium	6-1	36151367	39278618	29996495	35142160	13.44	cps
Magnesium	24-2	917	943	920	927	1.57	cps
Manganese	55-2	263	223	250	246	8.29	cps
Molybdenum	94-1	1307	1533	1570	1470	9.70	cps
Molybdenum	95-1	237	417	383	346	27.71	cps
Molybdenum	96-1	430	570	643	548	19.79	cps
Molybdenum	97-1	153	277	237	222	28.31	cps
Molybdenum	98-1	363	610	533	502	25.14	cps
Neodymium	150-1	13	20	33	22	45.83	cps
Neodymium	150-2	0	7	10	6	91.64	cps
Nickel	60-2	380	373	313	356	10.33	cps
Phosphorus	31-2	87	90	123	100	20.28	cps
Potassium	39-2	10931	10174	10474	10526	3.62	cps
Rhodium	103-1	72009761	73775946	63311751	69699152	8.04	cps
Rhodium	103-2	37715131	30512553	33918143	34048609	10.58	cps
Scandium	45-1	58701541	62747597	50261013	57236717	11.13	cps
Scandium	45-2	1608126	1292431	1432905	1444487	10.95	cps
Selenium	82-1	-223	27	-30	-76	-173.50	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	43	10	20	24	69.97	cps
Silicon	28-1	1775511	1609434	1478978	1621308	9.17	cps
Silver	107-1	410	463	440	438	6.11	cps
Silver	109-1	137	157	167	153	9.96	cps
Sodium	23-2	78476	80508	79072	79352	1.32	cps
Strontium	86-1	5985	2640	2657	3761	51.22	cps
Strontium	88-1	413	843	670	642	33.69	cps
Sulfur	34-1	330897	419462	460224	403527	16.39	cps
Terbium	159-1	91934022	98033879	80839504	90269135	9.66	cps
Terbium	159-2	43334004	33618542	38149099	38367215	12.67	cps
Thallium	203-1	697	563	520	593	15.52	cps
Thallium	205-1	1570	1150	1210	1310	17.34	cps
Tin	118-1	1213	2664	2397	2091	36.91	cps
Titanium	47-1	593	633	633	620	3.73	cps
Uranium	238-1	47	33	40	40	16.68	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04RE	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:00:29	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	27	13	21	32.88	cps
Ytterbium	172-1	417	503	363	428	16.52	cps
Ytterbium	172-2	270	200	187	219	20.45	cps
Ytterbium	176-1	6629	7176	6709	6838	4.32	cps
Ytterbium	176-2	1633	1387	1673	1565	9.92	cps
Yttrium	89-1	121025845	129627981	105788872	118814233	10.16	cps
Yttrium	89-2	12269685	9822820	11112962	11068489	11.06	cps
Zinc	66-2	1630	1270	1433	1445	12.48	cps
Zirconium	90-1	3827	4674	3754	4085	12.52	cps
Zirconium	91-1	790	787	643	740	11.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93	87	80	87	7.69	cps
Antimony	121-1	167	153	163	161	4.31	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	130	107	137	124	12.66	cps
Barium	137-1	190	200	283	224	22.83	cps
Beryllium	9-1	187	157	197	180	11.57	cps
Bismuth	209-1	49623376	72467981	42046829	54712729	28.94	cps
Bismuth	209-2	25863154	30405839	26837468	27702153	8.63	cps
Bromine	81-1	7479	6088	7992	7186	13.71	cps
Cadmium	108-1	80	57	23	53	53.40	cps
Cadmium	106-1	20376	27445	19172	22331	20.01	cps
Cadmium	111-1	14237	19195	13434	15622	19.97	cps
Calcium	43-1	897	933	1347	1059	23.60	cps
Calcium	44-1	29435	30445	34727	31536	8.91	cps
Carbon	12-1	9946565	6972628	4969908	7296367	34.32	cps
Carbon	12-2	49051	36292	30606	38650	24.44	cps
Chlorine	35-1	2294089	2320880	3110296	2575088	18.01	cps
Chlorine	35-2	9863	10644	10320	10276	3.82	cps
Chromium	52-2	560	673	557	597	11.13	cps
Cobalt	59-2	283	373	290	316	15.89	cps
Copper	63-2	3187	3687	3284	3386	7.83	cps
Dysprosium	156-1	23	47	20	30	48.44	cps
Dysprosium	156-2	13	13	23	17	34.65	cps
Erbium	164-1	297	537	273	369	39.52	cps
Erbium	164-2	133	150	180	154	15.31	cps
Gadolinium	160-1	270	440	297	336	27.25	cps
Gadolinium	160-2	70	130	110	103	29.57	cps
Holmium	165-1	81627900	121496668	70454547	91193039	29.42	cps
Holmium	165-2	36893545	42889061	38336680	39373096	7.95	cps
Indium	115-1	68080932	100422814	59360837	75954861	28.48	cps
Indium	115-2	9096676	10555646	9462202	9704841	7.82	cps
Iron	54-2	923	770	870	854	9.11	cps
Iron	56-2	9086	8866	8863	8938	1.43	cps
Iron	57-2	213	243	187	214	13.22	cps
Krypton	83-1	4404	2864	1313	2860	54.03	cps
Lead	206-1	2334	1733	2064	2044	14.71	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1944	1410	1627	1660	16.16	cps
Lead	208-1	8745	6774	7744	7754	12.71	cps
Lithium	6-1	32998117	49840509	30145443	37661356	28.26	cps
Magnesium	24-2	900	933	840	891	5.31	cps
Manganese	55-2	223	243	217	228	6.09	cps
Molybdenum	94-1	1253	1653	1554	1487	14.00	cps
Molybdenum	95-1	210	307	510	342	44.75	cps
Molybdenum	96-1	447	520	663	543	20.28	cps
Molybdenum	97-1	147	130	230	169	31.72	cps
Molybdenum	98-1	397	357	607	453	29.62	cps
Neodymium	150-1	50	50	40	47	12.37	cps
Neodymium	150-2	10	10	7	9	21.63	cps
Nickel	60-2	350	383	290	341	13.86	cps
Phosphorus	31-2	83	103	57	81	28.86	cps
Potassium	39-2	10754	10267	10270	10431	2.69	cps
Rhodium	103-1	65313917	94153849	56644672	72037479	27.26	cps
Rhodium	103-2	32450480	37664161	33333722	34482788	8.09	cps
Scandium	45-1	52821301	77720367	46985209	59175626	27.58	cps
Scandium	45-2	1329368	1594847	1417731	1447316	9.34	cps
Selenium	82-1	-200	-60	20	-80	-139.23	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	13	17	16	12.40	cps
Silicon	28-1	1979217	1381487	1357142	1572615	22.40	cps
Silver	107-1	377	517	493	462	16.23	cps
Silver	109-1	117	137	137	130	8.88	cps
Sodium	23-2	82036	79770	74227	78678	5.11	cps
Strontium	86-1	6909	4474	2174	4519	52.40	cps
Strontium	88-1	480	570	783	611	25.49	cps
Sulfur	34-1	363232	331353	474612	389732	19.30	cps
Terbium	159-1	83496905	122421312	73117536	93011918	27.95	cps
Terbium	159-2	35620685	42116207	37364680	38367191	8.76	cps
Thallium	203-1	487	483	497	489	1.42	cps
Thallium	205-1	1267	1020	1013	1100	13.13	cps
Tin	118-1	1283	1303	3197	1928	57.01	cps
Titanium	47-1	450	740	627	606	24.14	cps
Uranium	238-1	30	40	43	38	18.36	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:03:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	30	7	21	59.77	cps
Ytterbium	172-1	393	653	367	471	33.62	cps
Ytterbium	172-2	200	247	240	229	11.03	cps
Ytterbium	176-1	6178	8053	5568	6600	19.62	cps
Ytterbium	176-2	1357	1957	1623	1646	18.27	cps
Yttrium	89-1	110646862	159728461	94957819	121777714	27.75	cps
Yttrium	89-2	10447574	12201735	10664476	11104595	8.61	cps
Zinc	66-2	1160	1443	1307	1303	10.87	cps
Zirconium	90-1	3344	4941	3787	4024	20.49	cps
Zirconium	91-1	713	1027	790	843	19.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	93	137	111	20.42	cps
Antimony	121-1	180	173	137	163	14.29	cps
Arsenic	75-2	10	0	3	4	114.60	cps
Barium	135-1	190	153	147	163	14.28	cps
Barium	137-1	270	220	200	230	15.68	cps
Beryllium	9-1	204	158	160	174	14.99	cps
Bismuth	209-1	42607588	61332469	61282497	55074185	19.60	cps
Bismuth	209-2	26690420	26315175	33119191	28708262	13.32	cps
Bromine	81-1	8826	6435	7039	7433	16.73	cps
Cadmium	108-1	43	40	70	51	32.17	cps
Cadmium	106-1	20043	25599	24928	23523	12.89	cps
Cadmium	111-1	14037	17912	17420	16456	12.82	cps
Calcium	43-1	1123	817	990	977	15.74	cps
Calcium	44-1	34771	29620	32045	32145	8.02	cps
Carbon	12-1	9115692	5029195	5977880	6707589	31.89	cps
Carbon	12-2	27516	32381	36099	31999	13.45	cps
Chlorine	35-1	2774425	2203505	2504431	2494120	11.45	cps
Chlorine	35-2	9833	9927	10451	10070	3.30	cps
Chromium	52-2	550	463	690	568	20.14	cps
Cobalt	59-2	283	270	353	302	14.81	cps
Copper	63-2	3167	2890	3874	3310	15.32	cps
Dysprosium	156-1	30	37	53	40	30.04	cps
Dysprosium	156-2	7	10	17	11	45.82	cps
Erbium	164-1	313	463	493	423	22.78	cps
Erbium	164-2	147	123	190	153	22.06	cps
Gadolinium	160-1	280	370	357	336	14.47	cps
Gadolinium	160-2	73	97	97	89	15.16	cps
Holmium	165-1	71235101	104390932	102380695	92668909	20.06	cps
Holmium	165-2	38122539	37111177	47033851	40755856	13.40	cps
Indium	115-1	60535959	87305711	86695277	78178982	19.55	cps
Indium	115-2	9296932	9081681	11502974	9960529	13.45	cps
Iron	54-2	713	767	870	783	10.17	cps
Iron	56-2	8386	8366	9306	8686	6.19	cps
Iron	57-2	207	217	210	211	2.41	cps
Krypton	83-1	3631	1810	2387	2609	35.66	cps
Lead	206-1	2084	1853	1680	1872	10.81	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1653	1533	1397	1528	8.41	cps
Lead	208-1	7984	7131	6637	7251	9.40	cps
Lithium	6-1	29426912	41350056	44130885	38302618	20.39	cps
Magnesium	24-2	930	723	863	839	12.57	cps
Manganese	55-2	223	157	230	203	19.94	cps
Molybdenum	94-1	1310	1353	1513	1392	7.69	cps
Molybdenum	95-1	417	250	343	337	24.81	cps
Molybdenum	96-1	560	563	583	569	2.22	cps
Molybdenum	97-1	233	170	173	192	18.54	cps
Molybdenum	98-1	507	407	403	439	13.38	cps
Neodymium	150-1	20	47	47	38	40.76	cps
Neodymium	150-2	3	0	10	4	114.60	cps
Nickel	60-2	413	407	373	398	5.39	cps
Phosphorus	31-2	107	80	77	88	18.73	cps
Potassium	39-2	10547	10377	10471	10465	0.81	cps
Rhodium	103-1	56399471	81386752	79919914	72568712	19.32	cps
Rhodium	103-2	33108516	31730905	41149759	35329727	14.40	cps
Scandium	45-1	46463714	66095272	68118691	60225892	19.86	cps
Scandium	45-2	1360114	1345954	1726700	1477589	14.61	cps
Selenium	82-1	-27	77	103	51	134.37	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	13	23	16	44.60	cps
Silicon	28-1	2272749	1159427	1369078	1600418	36.97	cps
Silver	107-1	400	470	477	449	9.46	cps
Silver	109-1	167	147	190	168	12.93	cps
Sodium	23-2	71966	74315	76124	74135	2.81	cps
Strontium	86-1	5839	2954	3687	4160	36.04	cps
Strontium	88-1	753	560	573	629	17.17	cps
Sulfur	34-1	455626	377417	376455	403166	11.27	cps
Terbium	159-1	73474607	107381565	106374652	95743608	20.15	cps
Terbium	159-2	36759649	35971207	45714514	39481790	13.71	cps
Thallium	203-1	550	500	517	522	4.88	cps
Thallium	205-1	1297	1127	1090	1171	9.42	cps
Tin	118-1	3447	1510	1777	2245	46.77	cps
Titanium	47-1	600	550	597	582	4.80	cps
Uranium	238-1	33	13	30	26	41.94	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06RE	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:07:07	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	17	13	25.01	cps
Ytterbium	172-1	377	553	493	474	18.93	cps
Ytterbium	172-2	213	240	257	237	9.24	cps
Ytterbium	176-1	5648	7863	7529	7013	17.02	cps
Ytterbium	176-2	1477	1343	2000	1607	21.60	cps
Yttrium	89-1	97145385	137372808	139960338	124826177	19.23	cps
Yttrium	89-2	10598640	10292897	13243697	11378411	14.26	cps
Zinc	66-2	1397	1323	1510	1410	6.67	cps
Zirconium	90-1	3361	4417	4531	4103	15.73	cps
Zirconium	91-1	543	803	940	762	26.44	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	87	117	73	92	24.07	cps
Antimony	121-1	133	160	137	143	10.13	cps
Arsenic	75-2	0	7	7	4	86.60	cps
Barium	135-1	130	123	120	124	4.09	cps
Barium	137-1	247	180	233	220	16.04	cps
Beryllium	9-1	211	203	130	182	24.54	cps
Bismuth	209-1	53103566	57623861	62309489	57678972	7.98	cps
Bismuth	209-2	24862309	29290431	29264689	27805810	9.17	cps
Bromine	81-1	9053	7325	5608	7329	23.50	cps
Cadmium	108-1	80	63	87	77	15.68	cps
Cadmium	106-1	25555	24639	23986	24727	3.19	cps
Cadmium	111-1	17859	17226	16746	17277	3.23	cps
Calcium	43-1	1023	983	927	978	4.97	cps
Calcium	44-1	33458	29970	27652	30360	9.63	cps
Carbon	12-1	11503408	5645504	5592016	7580309	44.82	cps
Carbon	12-2	31197	36848	31033	33026	10.02	cps
Chlorine	35-1	2571611	2352828	2151772	2358737	8.90	cps
Chlorine	35-2	9230	9256	9513	9333	1.68	cps
Chromium	52-2	537	633	553	574	9.00	cps
Cobalt	59-2	263	343	430	346	24.12	cps
Copper	63-2	3304	3377	3470	3384	2.47	cps
Dysprosium	156-1	47	30	40	39	21.57	cps
Dysprosium	156-2	23	13	27	21	32.88	cps
Erbium	164-1	387	420	480	429	11.03	cps
Erbium	164-2	137	190	193	173	18.34	cps
Gadolinium	160-1	373	390	357	373	4.46	cps
Gadolinium	160-2	47	83	93	74	33.00	cps
Holmium	165-1	90332359	93861362	105302575	96498765	8.11	cps
Holmium	165-2	35393952	42451567	41212410	39685976	9.50	cps
Indium	115-1	77558514	78652757	88566425	81592566	7.43	cps
Indium	115-2	8782262	10480015	10320473	9860916	9.51	cps
Iron	54-2	640	750	817	736	12.13	cps
Iron	56-2	8299	8459	8229	8329	1.42	cps
Iron	57-2	210	173	197	193	9.60	cps
Krypton	83-1	5118	2054	2250	3141	54.62	cps
Lead	206-1	1997	1793	1427	1739	16.61	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1647	1383	1353	1461	11.05	cps
Lead	208-1	7568	6651	5884	6701	12.58	cps
Lithium	6-1	38859434	36848198	44406192	40037941	9.78	cps
Magnesium	24-2	807	850	1020	892	12.64	cps
Manganese	55-2	210	170	257	212	20.44	cps
Molybdenum	94-1	1420	1347	1537	1435	6.68	cps
Molybdenum	95-1	357	290	247	298	18.61	cps
Molybdenum	96-1	603	490	443	512	16.06	cps
Molybdenum	97-1	160	170	133	154	12.27	cps
Molybdenum	98-1	453	407	297	386	20.86	cps
Neodymium	150-1	47	37	30	38	22.21	cps
Neodymium	150-2	10	7	13	10	33.30	cps
Nickel	60-2	270	377	297	314	17.65	cps
Phosphorus	31-2	67	90	77	78	15.05	cps
Potassium	39-2	10137	10140	10207	10161	0.39	cps
Rhodium	103-1	71582454	72152632	81809050	75181379	7.64	cps
Rhodium	103-2	31257247	37010590	36707948	34991928	9.25	cps
Scandium	45-1	58333534	57668237	67821132	61274301	9.27	cps
Scandium	45-2	1342798	1554421	1499828	1465682	7.50	cps
Selenium	82-1	13	-143	-193	-108	-100.05	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	17	0	3	7	132.33	cps
Silicon	28-1	2388016	1266725	1215641	1623461	40.82	cps
Silver	107-1	490	500	443	478	6.33	cps
Silver	109-1	143	143	123	137	8.45	cps
Sodium	23-2	71752	72526	69947	71408	1.85	cps
Strontium	86-1	8086	3187	3507	4927	55.63	cps
Strontium	88-1	560	510	467	512	9.12	cps
Sulfur	34-1	434323	424125	334524	397657	13.81	cps
Terbium	159-1	93727632	94444752	105797855	97990080	6.91	cps
Terbium	159-2	34293157	40868150	40960818	38707375	9.88	cps
Thallium	203-1	590	483	510	528	10.52	cps
Thallium	205-1	1537	1250	1133	1307	15.89	cps
Tin	118-1	2194	2257	1177	1876	32.32	cps
Titanium	47-1	567	637	600	601	5.82	cps
Uranium	238-1	23	53	40	39	38.65	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:10:24	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	7	3	8	65.47	cps
Ytterbium	172-1	457	503	527	496	7.19	cps
Ytterbium	172-2	183	253	237	224	16.29	cps
Ytterbium	176-1	7502	7636	7095	7411	3.80	cps
Ytterbium	176-2	1267	1653	1727	1549	15.96	cps
Yttrium	89-1	122389192	122593188	142295745	129092708	8.86	cps
Yttrium	89-2	10048195	11765167	11700246	11171203	8.71	cps
Zinc	66-2	1337	1510	1490	1446	6.56	cps
Zirconium	90-1	3907	3911	4354	4057	6.33	cps
Zirconium	91-1	867	647	873	796	16.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	110	103	110	6.06	cps
Antimony	121-1	137	100	167	134	24.84	cps
Arsenic	75-2	13	7	3	8	65.47	cps
Barium	135-1	120	93	130	114	16.56	cps
Barium	137-1	223	190	197	203	8.68	cps
Beryllium	9-1	157	148	149	151	3.16	cps
Bismuth	209-1	66178439	73168671	34455973	57934361	35.61	cps
Bismuth	209-2	31974059	30587362	25069849	29210423	12.50	cps
Bromine	81-1	7636	6602	7432	7223	7.58	cps
Cadmium	108-1	50	63	40	51	22.90	cps
Cadmium	106-1	27589	28343	14960	23631	31.82	cps
Cadmium	111-1	19310	19812	10464	16529	31.81	cps
Calcium	43-1	903	957	917	926	3.00	cps
Calcium	44-1	31330	30141	26993	29488	7.60	cps
Carbon	12-1	11899819	8394529	4688155	8327501	43.31	cps
Carbon	12-2	23589	32998	32987	29858	18.18	cps
Chlorine	35-1	2270215	2340494	2619371	2410027	7.66	cps
Chlorine	35-2	9323	9930	9760	9671	3.24	cps
Chromium	52-2	757	490	573	607	22.49	cps
Cobalt	59-2	333	390	443	389	14.15	cps
Copper	63-2	3621	3537	3027	3395	9.46	cps
Dysprosium	156-1	37	37	27	33	17.32	cps
Dysprosium	156-2	20	20	3	14	66.64	cps
Erbium	164-1	483	477	277	412	28.49	cps
Erbium	164-2	173	147	137	152	12.45	cps
Gadolinium	160-1	450	403	273	376	24.38	cps
Gadolinium	160-2	103	100	73	92	17.83	cps
Holmium	165-1	112375078	119270322	57611914	96419105	35.04	cps
Holmium	165-2	44904571	44017491	35889266	41603776	11.94	cps
Indium	115-1	93604274	100366214	48367532	80779340	35.00	cps
Indium	115-2	11115666	10776278	8970023	10287322	11.21	cps
Iron	54-2	717	807	663	729	9.94	cps
Iron	56-2	8719	8753	7522	8331	8.42	cps
Iron	57-2	213	260	193	222	15.39	cps
Krypton	83-1	5318	3704	1597	3540	52.72	cps
Lead	206-1	1783	1510	1680	1658	8.33	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1583	1187	1320	1363	14.81	cps
Lead	208-1	7124	5817	6614	6519	10.11	cps
Lithium	6-1	48097935	53340621	25309203	42249253	35.27	cps
Magnesium	24-2	917	957	900	924	3.15	cps
Manganese	55-2	273	213	183	223	20.52	cps
Molybdenum	94-1	1657	1690	1357	1568	11.71	cps
Molybdenum	95-1	327	183	310	273	28.68	cps
Molybdenum	96-1	563	620	430	538	18.14	cps
Molybdenum	97-1	167	197	200	188	9.78	cps
Molybdenum	98-1	363	300	450	371	20.29	cps
Neodymium	150-1	50	47	27	41	30.69	cps
Neodymium	150-2	17	13	10	13	25.01	cps
Nickel	60-2	400	320	317	346	13.65	cps
Phosphorus	31-2	57	100	63	73	31.82	cps
Potassium	39-2	11078	10114	9780	10324	6.53	cps
Rhodium	103-1	87646845	94710702	47433743	76597097	33.29	cps
Rhodium	103-2	39141456	38020782	31650620	36270953	11.14	cps
Scandium	45-1	70391404	79134375	38417829	62647870	34.21	cps
Scandium	45-2	1682215	1585362	1346113	1537897	11.25	cps
Selenium	82-1	-77	187	-47	21	682.80	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	20	13	10	14	35.26	cps
Silicon	28-1	2432469	1764814	1212356	1803213	33.88	cps
Silver	107-1	463	483	360	436	15.20	cps
Silver	109-1	143	160	70	124	38.48	cps
Sodium	23-2	69645	70325	69484	69818	0.64	cps
Strontium	86-1	8693	6248	2247	5729	56.80	cps
Strontium	88-1	507	570	497	524	7.58	cps
Sulfur	34-1	369131	334746	422966	375614	11.84	cps
Terbium	159-1	114497065	123588911	58131584	98739187	35.91	cps
Terbium	159-2	43615419	42965276	35088593	40556429	11.70	cps
Thallium	203-1	577	477	527	527	9.49	cps
Thallium	205-1	1350	1273	1107	1243	10.01	cps
Tin	118-1	1323	1100	2484	1636	45.41	cps
Titanium	47-1	720	637	503	620	17.63	cps
Uranium	238-1	43	33	37	38	13.48	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08RE	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:13:44	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	33	10	19	66.81	cps
Ytterbium	172-1	523	567	260	450	36.88	cps
Ytterbium	172-2	293	247	193	244	20.47	cps
Ytterbium	176-1	8600	8453	4254	7102	34.74	cps
Ytterbium	176-2	1820	1860	1497	1726	11.55	cps
Yttrium	89-1	149821638	163408521	80523425	131251195	33.87	cps
Yttrium	89-2	12624619	12448601	10250831	11774684	11.23	cps
Zinc	66-2	1503	1457	1327	1429	6.41	cps
Zirconium	90-1	4487	5231	3174	4297	24.24	cps
Zirconium	91-1	897	917	623	812	20.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	117	280	171	55.12	cps
Antimony	121-1	163	93	77	111	41.39	cps
Arsenic	75-2	3	13	3	7	86.65	cps
Barium	135-1	117	100	113	110	8.02	cps
Barium	137-1	200	180	237	206	13.98	cps
Beryllium	9-1	217	152	138	169	24.95	cps
Bismuth	209-1	50240621	50370488	76883789	59164966	25.94	cps
Bismuth	209-2	28088156	28832083	21951331	26290523	14.36	cps
Bromine	81-1	9660	6088	6098	7282	28.28	cps
Cadmium	108-1	60	40	67	56	24.98	cps
Cadmium	106-1	24373	20408	29955	24912	19.25	cps
Cadmium	111-1	17039	14267	20938	17415	19.24	cps
Calcium	43-1	990	830	977	932	9.52	cps
Calcium	44-1	32024	24589	28851	28488	13.10	cps
Carbon	12-1	13597066	5808603	6283214	8562961	50.99	cps
Carbon	12-2	37090	35734	30639	34488	9.86	cps
Chlorine	35-1	2654706	2098451	2259092	2337416	12.25	cps
Chlorine	35-2	9820	9883	11251	10318	7.84	cps
Chromium	52-2	567	573	1177	772	45.36	cps
Cobalt	59-2	470	460	300	410	23.27	cps
Copper	63-2	3304	3064	2907	3091	6.46	cps
Dysprosium	156-1	43	33	50	42	19.87	cps
Dysprosium	156-2	27	20	13	20	33.35	cps
Erbium	164-1	383	407	587	459	24.25	cps
Erbium	164-2	137	160	103	133	21.36	cps
Gadolinium	160-1	383	290	490	388	25.81	cps
Gadolinium	160-2	90	113	73	92	21.79	cps
Holmium	165-1	85134832	83931130	127114765	98726909	24.91	cps
Holmium	165-2	40153064	41107768	31344639	37535157	14.34	cps
Indium	115-1	72294813	71450192	109312933	84352646	25.63	cps
Indium	115-2	9904452	10171731	7848936	9308373	13.65	cps
Iron	54-2	877	640	923	813	18.68	cps
Iron	56-2	7852	8029	11112	8998	20.37	cps
Iron	57-2	160	207	293	220	30.76	cps
Krypton	83-1	5672	2150	2500	3441	56.38	cps
Lead	206-1	1820	1563	1380	1588	13.92	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1500	1300	1210	1337	11.11	cps
Lead	208-1	7602	6024	5471	6365	17.37	cps
Lithium	6-1	36006937	33446703	55189944	41547861	28.60	cps
Magnesium	24-2	943	810	843	866	8.02	cps
Manganese	55-2	207	200	287	231	20.87	cps
Molybdenum	94-1	1410	1317	1743	1490	15.05	cps
Molybdenum	95-1	363	197	207	256	36.58	cps
Molybdenum	96-1	527	470	633	543	15.26	cps
Molybdenum	97-1	200	120	133	151	28.36	cps
Molybdenum	98-1	513	360	270	381	32.28	cps
Neodymium	150-1	20	3	17	13	66.16	cps
Neodymium	150-2	7	10	10	9	21.63	cps
Nickel	60-2	283	293	457	344	28.25	cps
Phosphorus	31-2	117	93	87	99	15.93	cps
Potassium	39-2	9793	9770	10841	10135	6.03	cps
Rhodium	103-1	67126021	66086594	102445692	78552769	26.35	cps
Rhodium	103-2	35226180	34933641	27379323	32513048	13.68	cps
Scandium	45-1	55587571	52588231	84542912	64239571	27.47	cps
Scandium	45-2	1498533	1527197	1165914	1397214	14.37	cps
Selenium	82-1	-30	97	97	54	134.34	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	13	10	13	12	15.73	cps
Silicon	28-1	3050267	1237462	1292307	1860012	55.44	cps
Silver	107-1	510	363	510	461	18.36	cps
Silver	109-1	170	140	130	147	14.19	cps
Sodium	23-2	67683	66460	72070	68738	4.29	cps
Strontium	86-1	9307	3791	3837	5645	56.19	cps
Strontium	88-1	717	460	610	596	21.65	cps
Sulfur	34-1	439910	348044	344780	377578	14.30	cps
Terbium	159-1	87399035	87106962	130584548	101696848	24.60	cps
Terbium	159-2	39844239	40176401	30242173	36754271	15.35	cps
Thallium	203-1	527	493	493	504	3.81	cps
Thallium	205-1	1243	1080	1290	1205	9.16	cps
Tin	118-1	2520	1090	1137	1582	51.35	cps
Titanium	47-1	677	487	643	602	16.85	cps
Uranium	238-1	40	27	40	36	21.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:17:01	DataFile Name :	087AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	23	3	12	83.33	cps
Ytterbium	172-1	447	397	673	506	29.16	cps
Ytterbium	172-2	180	257	170	202	23.45	cps
Ytterbium	176-1	7359	6505	8870	7578	15.80	cps
Ytterbium	176-2	1590	1617	1510	1572	3.53	cps
Yttrium	89-1	114826335	112940978	175801711	134523008	26.58	cps
Yttrium	89-2	11290962	11308940	8920970	10506957	13.07	cps
Zinc	66-2	1433	1440	1347	1407	3.70	cps
Zirconium	90-1	4671	3474	5531	4559	22.67	cps
Zirconium	91-1	713	667	1110	830	29.35	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	87	73	93	25.75	cps
Antimony	121-1	127	97	147	123	20.40	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	137	183	180	167	15.62	cps
Barium	137-1	157	200	250	202	23.10	cps
Beryllium	9-1	178	125	197	167	22.13	cps
Bismuth	209-1	42403614	78359052	34830410	51864359	44.84	cps
Bismuth	209-2	29898961	26382410	22958228	26413200	13.14	cps
Bromine	81-1	8890	5888	8206	7661	20.54	cps
Cadmium	108-1	57	63	53	58	8.81	cps
Cadmium	106-1	18711	29918	16411	21680	33.33	cps
Cadmium	111-1	13078	20918	11480	15159	33.32	cps
Calcium	43-1	797	943	990	910	11.09	cps
Calcium	44-1	27251	28049	27704	27668	1.45	cps
Carbon	12-1	14606457	4956090	4430304	7997617	71.64	cps
Carbon	12-2	34207	32834	26458	31166	13.27	cps
Chlorine	35-1	2485077	2068755	2729582	2427805	13.76	cps
Chlorine	35-2	9150	9343	8763	9085	3.25	cps
Chromium	52-2	673	490	510	558	18.03	cps
Cobalt	59-2	343	403	357	368	8.57	cps
Copper	63-2	3514	2990	2817	3107	11.68	cps
Dysprosium	156-1	23	30	27	27	12.51	cps
Dysprosium	156-2	13	13	20	16	24.76	cps
Erbium	164-1	303	540	277	373	38.83	cps
Erbium	164-2	193	157	93	148	34.24	cps
Gadolinium	160-1	293	533	247	358	42.99	cps
Gadolinium	160-2	90	63	93	82	20.00	cps
Holmium	165-1	72013946	129885065	57593527	86497513	44.23	cps
Holmium	165-2	41630572	37610859	32634033	37291821	12.09	cps
Indium	115-1	58050308	107364641	48036369	71150439	44.64	cps
Indium	115-2	10346506	9125443	8225360	9232437	11.53	cps
Iron	54-2	697	743	577	672	12.79	cps
Iron	56-2	7919	7622	7045	7529	5.90	cps
Iron	57-2	140	167	167	158	9.76	cps
Krypton	83-1	6519	1890	1057	3155	93.26	cps
Lead	206-1	1920	1440	1713	1691	14.24	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1603	1090	1333	1342	19.13	cps
Lead	208-1	7108	5517	6457	6361	12.57	cps
Lithium	6-1	30580163	53303726	23250213	35711367	43.88	cps
Magnesium	24-2	877	1368	813	1019	29.77	cps
Manganese	55-2	187	157	173	172	8.73	cps
Molybdenum	94-1	1394	1833	2207	1811	22.48	cps
Molybdenum	95-1	253	230	393	292	30.23	cps
Molybdenum	96-1	443	500	627	523	17.94	cps
Molybdenum	97-1	163	167	280	203	32.66	cps
Molybdenum	98-1	360	320	547	409	29.59	cps
Neodymium	150-1	37	53	23	38	39.79	cps
Neodymium	150-2	13	10	10	11	17.30	cps
Nickel	60-2	353	243	273	290	19.61	cps
Phosphorus	31-2	140	123	80	114	27.06	cps
Potassium	39-2	9467	9543	9483	9498	0.42	cps
Rhodium	103-1	55225534	100453485	45444014	67041011	43.77	cps
Rhodium	103-2	36720149	32617282	28444648	32594026	12.69	cps
Scandium	45-1	44860213	83518390	36315811	54898138	45.81	cps
Scandium	45-2	1569447	1407514	1181236	1386066	14.07	cps
Selenium	82-1	13	43	-63	-2	-2496.94	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	23	7	18	54.11	cps
Silicon	28-1	2955157	1071575	1320384	1782372	57.41	cps
Silver	107-1	360	513	367	413	20.97	cps
Silver	109-1	130	123	107	120	10.01	cps
Sodium	23-2	66316	65282	61251	64283	4.16	cps
Strontium	86-1	10535	3204	1703	5147	91.81	cps
Strontium	88-1	457	547	627	543	15.65	cps
Sulfur	34-1	388093	347069	486271	407144	17.57	cps
Terbium	159-1	71698914	131414058	58815286	87309419	44.37	cps
Terbium	159-2	40739408	37319298	32294922	36784543	11.55	cps
Thallium	203-1	587	497	470	518	11.81	cps
Thallium	205-1	1427	1080	1013	1173	18.91	cps
Tin	118-1	1664	1207	3334	2068	54.15	cps
Titanium	47-1	530	647	760	646	17.82	cps
Uranium	238-1	20	50	50	40	43.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:20:24	DataFile Name :	088AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	10	7	10	33.30	cps
Ytterbium	172-1	373	593	243	403	43.86	cps
Ytterbium	172-2	223	227	170	207	15.39	cps
Ytterbium	176-1	5872	9037	4848	6585	33.16	cps
Ytterbium	176-2	1687	1620	1483	1597	6.49	cps
Yttrium	89-1	95576262	172156557	75814069	114515629	44.44	cps
Yttrium	89-2	11894976	10579913	9090579	10521823	13.34	cps
Zinc	66-2	1427	1350	1177	1318	9.72	cps
Zirconium	90-1	3094	5441	3781	4105	29.40	cps
Zirconium	91-1	617	1183	677	826	37.71	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1165777	1140030	1146541	1150783	1.16	cps
Antimony	121-1	10027	9977	10624	10209	3.53	cps
Arsenic	75-2	1103	1033	1023	1053	4.14	cps
Barium	135-1	211293	215610	215983	214295	1.22	cps
Barium	137-1	364277	372430	367316	368008	1.12	cps
Beryllium	9-1	2445	2356	2405	2402	1.85	cps
Bismuth	209-1	17842959	18441747	17903879	18062862	1.82	cps
Bismuth	209-2	7436259	7361967	7433637	7410621	0.57	cps
Bromine	81-1	14871	14304	15335	14837	3.48	cps
Cadmium	108-1	440	420	363	408	9.75	cps
Cadmium	106-1	12986	13253	13256	13165	1.18	cps
Cadmium	111-1	9142	9327	9349	9272	1.22	cps
Calcium	43-1	504427	514427	516509	511788	1.26	cps
Calcium	44-1	8666279	8574617	8385228	8542041	1.68	cps
Carbon	12-1	4986361	5021852	4945510	4984574	0.77	cps
Carbon	12-2	31323	31861	31858	31681	0.98	cps
Chlorine	35-1	187644744	197003944	206082964	196910550	4.68	cps
Chlorine	35-2	865471	878817	882995	875761	1.05	cps
Chromium	52-2	161969	162920	164986	163291	0.94	cps
Cobalt	59-2	104379	103214	103550	103714	0.58	cps
Copper	63-2	269493	270292	267871	269219	0.46	cps
Dysprosium	156-1	50328	50732	51201	50754	0.86	cps
Dysprosium	156-2	17074	17184	16937	17065	0.73	cps
Erbium	164-1	44066	43327	44551	43981	1.40	cps
Erbium	164-2	14842	14641	14925	14803	0.98	cps
Gadolinium	160-1	47197	47952	48899	48016	1.78	cps
Gadolinium	160-2	20406	19311	19902	19873	2.76	cps
Holmium	165-1	31695529	31068105	30271036	31011556	2.30	cps
Holmium	165-2	10825157	10514520	10626144	10655274	1.48	cps
Indium	115-1	26152544	25583510	26160442	25965499	1.27	cps
Indium	115-2	2694001	2701815	2728364	2708060	0.67	cps
Iron	54-2	5198960	5186726	5335106	5240264	1.57	cps
Iron	56-2	94902702	95135192	93049129	94362341	1.21	cps
Iron	57-2	2473609	2427697	2379307	2426871	1.94	cps
Krypton	83-1	447	580	453	493	15.23	cps
Lead	206-1	114951	115439	114954	115115	0.24	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	95892	97839	94381	96037	1.81	cps
Lead	208-1	441694	453033	446273	447000	1.28	cps
Lithium	6-1	11453711	11308363	11527173	11429749	0.97	cps
Magnesium	24-2	2636133	2589387	2614506	2613342	0.90	cps
Manganese	55-2	722720	723502	727636	724619	0.36	cps
Molybdenum	94-1	86872	88341	90395	88536	2.00	cps
Molybdenum	95-1	2950	3314	3214	3159	5.94	cps
Molybdenum	96-1	18436	18282	18499	18406	0.61	cps
Molybdenum	97-1	1850	1863	1867	1860	0.47	cps
Molybdenum	98-1	4668	4794	4728	4730	1.34	cps
Neodymium	150-1	73335	76074	75675	75028	1.97	cps
Neodymium	150-2	18827	18693	19331	18950	1.77	cps
Nickel	60-2	100418	101824	101173	101138	0.70	cps
Phosphorus	31-2	4314	4711	4664	4563	4.75	cps
Potassium	39-2	304979	304079	305292	304784	0.21	cps
Rhodium	103-1	24249885	24005380	24105761	24120342	0.51	cps
Rhodium	103-2	9363090	9406655	9456590	9408779	0.50	cps
Scandium	45-1	20752116	20909066	19861207	20507463	2.76	cps
Scandium	45-2	396802	398031	399154	397995	0.30	cps
Selenium	82-1	46	-87	-7	-16	-413.79	cps
Selenium	77-2	77	120	117	104	23.09	cps
Selenium	78-2	67	93	80	80	16.66	cps
Silicon	28-1	7545046	8102361	7919513	7855640	3.62	cps
Silver	107-1	2190	1950	1897	2012	7.77	cps
Silver	109-1	1560	1617	1543	1573	2.44	cps
Sodium	23-2	412015	418913	416486	415805	0.84	cps
Strontium	86-1	347982	355894	356282	353386	1.33	cps
Strontium	88-1	3198519	3266071	3185436	3216676	1.35	cps
Sulfur	34-1	677319	648183	639080	654861	3.05	cps
Terbium	159-1	32398384	31227354	31641753	31755830	1.87	cps
Terbium	159-2	10642598	10344052	10584477	10523709	1.50	cps
Thallium	203-1	1813	1883	1767	1821	3.22	cps
Thallium	205-1	4641	4471	4281	4464	4.04	cps
Tin	118-1	18987	19110	18850	18982	0.69	cps
Titanium	47-1	2287984	2258249	2228110	2258114	1.33	cps
Uranium	238-1	29762	30026	30386	30058	1.04	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:23:40	DataFile Name :	089AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	212278	211544	211128	211650	0.28	cps
Ytterbium	172-1	12159	12272	12266	12232	0.52	cps
Ytterbium	172-2	5058	4931	5004	4998	1.27	cps
Ytterbium	176-1	11185	11875	11645	11568	3.04	cps
Ytterbium	176-2	3901	4001	3867	3923	1.77	cps
Yttrium	89-1	42938014	43443593	42221986	42867864	1.43	cps
Yttrium	89-2	3187695	3170899	3181387	3179994	0.27	cps
Zinc	66-2	44617	44597	44560	44591	0.06	cps
Zirconium	90-1	242556	245596	245642	244598	0.72	cps
Zirconium	91-1	54050	52210	55350	53870	2.93	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	715409	725763	716921	719365	0.78	cps
Antimony	121-1	330192	336195	338734	335040	1.31	cps
Arsenic	75-2	22111	23109	21930	22383	2.84	cps
Barium	135-1	195924	196738	199738	197466	1.02	cps
Barium	137-1	335739	339875	337146	337587	0.62	cps
Beryllium	9-1	2562	2511	2526	2533	1.03	cps
Bismuth	209-1	18106792	18319222	17940838	18122284	1.05	cps
Bismuth	209-2	7413611	7267372	7492712	7391232	1.55	cps
Bromine	81-1	43076	44948	45450	44491	2.81	cps
Cadmium	108-1	500	540	567	536	6.27	cps
Cadmium	106-1	12362	12793	13060	12738	2.76	cps
Cadmium	111-1	11714	11977	12256	11982	2.26	cps
Calcium	43-1	1454450	1471911	1441497	1455952	1.05	cps
Calcium	44-1	23118831	23911579	23286965	23439125	1.78	cps
Carbon	12-1	7177784	7216322	7282373	7225493	0.73	cps
Carbon	12-2	45597	46563	45738	45966	1.14	cps
Chlorine	35-1	212572317	216700463	219320923	216197901	1.57	cps
Chlorine	35-2	941311	947902	949323	946179	0.45	cps
Chromium	52-2	138722	139990	138947	139220	0.49	cps
Cobalt	59-2	85548	86709	85897	86051	0.69	cps
Copper	63-2	6085742	6153923	6069965	6103210	0.73	cps
Dysprosium	156-1	46925	46307	47190	46807	0.97	cps
Dysprosium	156-2	14968	15342	15449	15253	1.65	cps
Erbium	164-1	36339	36587	36196	36374	0.54	cps
Erbium	164-2	12489	12506	12399	12465	0.46	cps
Gadolinium	160-1	41481	40939	42360	41594	1.72	cps
Gadolinium	160-2	17632	17478	17759	17623	0.80	cps
Holmium	165-1	30940630	30800644	30366650	30702641	0.97	cps
Holmium	165-2	10617628	10561253	10741905	10640262	0.87	cps
Indium	115-1	25775542	25622525	25288018	25562029	0.98	cps
Indium	115-2	2687009	2599305	2748663	2678325	2.80	cps
Iron	54-2	3467949	3449788	3575031	3497589	1.94	cps
Iron	56-2	62280102	63898527	62029551	62736060	1.62	cps
Iron	57-2	1597666	1614626	1559071	1590454	1.79	cps
Krypton	83-1	540	587	593	573	5.07	cps
Lead	206-1	2791209	2725286	2678366	2731620	2.08	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2338177	2300188	2248980	2295782	1.95	cps
Lead	208-1	10723736	10720684	10470198	10638206	1.37	cps
Lithium	6-1	11757220	10959572	10809090	11175294	4.56	cps
Magnesium	24-2	1352224	1314552	1282314	1316363	2.66	cps
Manganese	55-2	272772	274705	274299	273925	0.37	cps
Molybdenum	94-1	97489	98986	97938	98138	0.78	cps
Molybdenum	95-1	60796	60106	60625	60509	0.59	cps
Molybdenum	96-1	74813	74974	75795	75194	0.70	cps
Molybdenum	97-1	36448	37096	36855	36800	0.89	cps
Molybdenum	98-1	94559	95415	95754	95243	0.65	cps
Neodymium	150-1	72491	72954	73265	72903	0.53	cps
Neodymium	150-2	18129	18466	18656	18417	1.45	cps
Nickel	60-2	53366	53795	53299	53487	0.50	cps
Phosphorus	31-2	5021	5358	4824	5068	5.32	cps
Potassium	39-2	271657	272255	271045	271652	0.22	cps
Rhodium	103-1	24215510	24255030	24195211	24221917	0.13	cps
Rhodium	103-2	9188465	9082276	9364771	9211837	1.55	cps
Scandium	45-1	20371074	20366134	20075166	20270791	0.84	cps
Scandium	45-2	388775	387881	397694	391450	1.39	cps
Selenium	82-1	98	45	-6	46	113.20	cps
Selenium	77-2	93	67	93	84	18.23	cps
Selenium	78-2	77	80	67	74	9.32	cps
Silicon	28-1	12383944	10481252	10984523	11283240	8.74	cps
Silver	107-1	41887	42702	42853	42481	1.22	cps
Silver	109-1	39707	39389	40677	39924	1.68	cps
Sodium	23-2	5481195	5466771	5300877	5416281	1.85	cps
Strontium	86-1	1316063	1337194	1329899	1327719	0.81	cps
Strontium	88-1	11868865	11869566	11945161	11894531	0.37	cps
Sulfur	34-1	1318989	1336655	1375646	1343763	2.16	cps
Terbium	159-1	31494246	31254241	31833848	31527445	0.92	cps
Terbium	159-2	10447339	10129814	10468635	10348596	1.83	cps
Thallium	203-1	5491	5665	5505	5553	1.74	cps
Thallium	205-1	13157	13844	13224	13408	2.83	cps
Tin	118-1	184256	184439	185887	184861	0.48	cps
Titanium	47-1	2509222	2547528	2531502	2529417	0.76	cps
Uranium	238-1	124200	124029	122315	123515	0.84	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12RE	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:26:55	DataFile Name :	090AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	157593	157624	156973	157397	0.23	cps
Ytterbium	172-1	9060	9030	9227	9105	1.16	cps
Ytterbium	172-2	3814	3821	3787	3807	0.46	cps
Ytterbium	176-1	8913	9133	9327	9124	2.27	cps
Ytterbium	176-2	3047	2950	3050	3016	1.88	cps
Yttrium	89-1	42492514	42280870	42132916	42302100	0.43	cps
Yttrium	89-2	3095258	3058004	3164024	3105762	1.73	cps
Zinc	66-2	303606	308320	302449	304792	1.02	cps
Zirconium	90-1	179166	182616	182991	181591	1.16	cps
Zirconium	91-1	39105	40151	41030	40095	2.40	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1106034	1089750	1102982	1099589	0.79	cps
Antimony	121-1	922849	925229	925461	924513	0.16	cps
Arsenic	75-2	67685	67186	68164	67678	0.72	cps
Barium	135-1	259921	262684	263364	261990	0.70	cps
Barium	137-1	444306	460168	453940	452805	1.76	cps
Beryllium	9-1	3541	3474	3469	3495	1.15	cps
Bismuth	209-1	18862738	18614268	18627499	18701502	0.75	cps
Bismuth	209-2	7788541	7726706	7750813	7755353	0.40	cps
Bromine	81-1	44029	44975	46139	45048	2.35	cps
Cadmium	108-1	793	870	720	794	9.44	cps
Cadmium	106-1	14251	13870	13964	14028	1.41	cps
Cadmium	111-1	14444	14345	14602	14464	0.90	cps
Calcium	43-1	481172	490801	494326	488766	1.39	cps
Calcium	44-1	8139761	8116799	8197418	8151326	0.51	cps
Carbon	12-1	8363919	8607547	8468839	8480102	1.44	cps
Carbon	12-2	53872	56505	54916	55097	2.41	cps
Chlorine	35-1	216005017	227147830	228601910	223918252	3.08	cps
Chlorine	35-2	969464	969240	970547	969750	0.07	cps
Chromium	52-2	181587	180334	182235	181385	0.53	cps
Cobalt	59-2	118901	118656	118784	118780	0.10	cps
Copper	63-2	15714467	15348346	15639179	15567331	1.24	cps
Dysprosium	156-1	56050	56569	55659	56093	0.81	cps
Dysprosium	156-2	18673	18319	18556	18516	0.97	cps
Erbium	164-1	45802	46293	46615	46237	0.89	cps
Erbium	164-2	15713	15276	15896	15628	2.04	cps
Gadolinium	160-1	51706	53363	51502	52190	1.95	cps
Gadolinium	160-2	21531	21207	21538	21425	0.88	cps
Holmium	165-1	31486503	31548010	31912561	31649025	0.73	cps
Holmium	165-2	11146932	10880941	10891858	10973244	1.37	cps
Indium	115-1	26242290	26312380	27128845	26561172	1.86	cps
Indium	115-2	2820441	2780109	2717869	2772806	1.86	cps
Iron	54-2	6185391	6220635	6054553	6153526	1.42	cps
Iron	56-2	111565678	110970925	111357385	111297996	0.27	cps
Iron	57-2	2847341	2833936	2814947	2832075	0.57	cps
Krypton	83-1	573	573	613	587	3.94	cps
Lead	206-1	4631850	4680068	4454323	4588747	2.59	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3864382	4002002	3858391	3908258	2.08	cps
Lead	208-1	17743427	17952221	17715423	17803690	0.73	cps
Lithium	6-1	11438321	11410767	10862207	11237099	2.89	cps
Magnesium	24-2	1710213	1708288	1718242	1712247	0.31	cps
Manganese	55-2	381993	378684	381046	380574	0.45	cps
Molybdenum	94-1	168726	170217	171220	170054	0.74	cps
Molybdenum	95-1	116160	115488	117768	116472	1.01	cps
Molybdenum	96-1	142223	142725	144533	143160	0.85	cps
Molybdenum	97-1	72662	71811	72729	72401	0.71	cps
Molybdenum	98-1	185696	186628	185522	185949	0.32	cps
Neodymium	150-1	83847	85597	85242	84895	1.09	cps
Neodymium	150-2	21544	21514	21314	21457	0.58	cps
Nickel	60-2	92917	93072	93216	93068	0.16	cps
Phosphorus	31-2	4804	4724	4664	4731	1.48	cps
Potassium	39-2	285751	283102	282795	283883	0.57	cps
Rhodium	103-1	25219099	24896525	24961245	25025623	0.68	cps
Rhodium	103-2	9678456	9565720	9506963	9583713	0.91	cps
Scandium	45-1	21590102	21372774	20840914	21267930	1.81	cps
Scandium	45-2	404308	406097	398894	403100	0.93	cps
Selenium	82-1	325	419	352	366	13.20	cps
Selenium	77-2	147	140	140	142	2.71	cps
Selenium	78-2	110	107	97	104	6.64	cps
Silicon	28-1	17081760	14211533	12655454	14649582	15.33	cps
Silver	107-1	85764	85868	86986	86206	0.79	cps
Silver	109-1	81784	82760	81483	82009	0.81	cps
Sodium	23-2	1607048	1620917	1623536	1617167	0.55	cps
Strontium	86-1	423365	422737	425630	423911	0.36	cps
Strontium	88-1	3837055	3758707	3755987	3783916	1.22	cps
Sulfur	34-1	2332231	2373033	2332459	2345908	1.00	cps
Terbium	159-1	32232348	32708139	31647301	32195929	1.65	cps
Terbium	159-2	10802146	10763313	10539220	10701560	1.33	cps
Thallium	203-1	5271	5134	5258	5221	1.44	cps
Thallium	205-1	12259	12203	11922	12128	1.49	cps
Tin	118-1	559482	565573	567277	564111	0.73	cps
Titanium	47-1	3030738	3079947	3044098	3051595	0.83	cps
Uranium	238-1	159342	161408	161644	160798	0.79	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13RE	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:30:00	DataFile Name :	091AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	247943	246899	248058	247633	0.26	cps
Ytterbium	172-1	12656	12666	12776	12700	0.52	cps
Ytterbium	172-2	4934	4868	5191	4998	3.42	cps
Ytterbium	176-1	11952	11659	11719	11776	1.32	cps
Ytterbium	176-2	4074	3991	4067	4044	1.15	cps
Yttrium	89-1	44287669	42438679	42546212	43090854	2.41	cps
Yttrium	89-2	3263886	3215944	3197467	3225766	1.06	cps
Zinc	66-2	264784	264123	266137	265015	0.39	cps
Zirconium	90-1	287480	288118	287840	287812	0.11	cps
Zirconium	91-1	64317	63828	64402	64182	0.48	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	946530	958739	949938	951735	0.66	cps
Antimony	121-1	164810	168374	168393	167192	1.23	cps
Arsenic	75-2	14925	14634	14771	14777	0.98	cps
Barium	135-1	129219	131302	130717	130413	0.82	cps
Barium	137-1	226768	227763	228380	227637	0.36	cps
Beryllium	9-1	2560	2502	2610	2557	2.12	cps
Bismuth	209-1	18728173	18464399	18448901	18547158	0.85	cps
Bismuth	209-2	7559436	7569804	7625882	7585041	0.47	cps
Bromine	81-1	19514	20058	19427	19666	1.74	cps
Cadmium	108-1	437	503	467	469	7.12	cps
Cadmium	106-1	13553	13570	13627	13583	0.28	cps
Cadmium	111-1	10989	10944	10996	10976	0.26	cps
Calcium	43-1	338287	345322	346461	343357	1.29	cps
Calcium	44-1	5728602	5860870	5717178	5768883	1.38	cps
Carbon	12-1	5984132	5991855	5972148	5982712	0.17	cps
Carbon	12-2	38109	37521	38975	38202	1.91	cps
Chlorine	35-1	209264190	217811550	221514377	216196706	2.91	cps
Chlorine	35-2	937098	949487	949058	945214	0.74	cps
Chromium	52-2	134179	135010	134263	134484	0.34	cps
Cobalt	59-2	90140	91267	90687	90698	0.62	cps
Copper	63-2	2988546	3037180	3017494	3014407	0.81	cps
Dysprosium	156-1	58407	59368	58752	58842	0.83	cps
Dysprosium	156-2	20052	19561	20312	19975	1.91	cps
Erbium	164-1	49502	49927	50602	50010	1.11	cps
Erbium	164-2	16610	16721	16861	16731	0.75	cps
Gadolinium	160-1	55140	55793	56740	55891	1.44	cps
Gadolinium	160-2	23304	23180	23093	23192	0.46	cps
Holmium	165-1	30811333	31338546	30859725	31003201	0.94	cps
Holmium	165-2	10829461	10719554	10822608	10790541	0.57	cps
Indium	115-1	26457002	26208558	26721740	26462433	0.97	cps
Indium	115-2	2744397	2682629	2743760	2723595	1.30	cps
Iron	54-2	4690682	4596135	4635073	4640630	1.02	cps
Iron	56-2	84708694	86019845	84749732	85159424	0.88	cps
Iron	57-2	2200584	2200391	2173381	2191452	0.71	cps
Krypton	83-1	427	577	530	511	15.02	cps
Lead	206-1	1358532	1378495	1368131	1368386	0.73	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1177139	1194397	1194579	1188705	0.84	cps
Lead	208-1	5531409	5599760	5596871	5576014	0.69	cps
Lithium	6-1	11173875	10693884	10956296	10941352	2.20	cps
Magnesium	24-2	1639414	1655789	1625698	1640300	0.92	cps
Manganese	55-2	361009	359917	354355	358427	1.00	cps
Molybdenum	94-1	135220	137818	136855	136631	0.96	cps
Molybdenum	95-1	34720	34947	34523	34730	0.61	cps
Molybdenum	96-1	56866	57364	56913	57048	0.48	cps
Molybdenum	97-1	21103	21881	21370	21451	1.84	cps
Molybdenum	98-1	55467	54480	55708	55218	1.18	cps
Neodymium	150-1	89942	90211	90126	90093	0.15	cps
Neodymium	150-2	22322	23030	22265	22539	1.89	cps
Nickel	60-2	75381	76635	74390	75469	1.49	cps
Phosphorus	31-2	4964	4744	5101	4936	3.65	cps
Potassium	39-2	205419	205791	206655	205955	0.31	cps
Rhodium	103-1	24618548	24823638	25379907	24940698	1.58	cps
Rhodium	103-2	9673625	9455348	9557704	9562226	1.14	cps
Scandium	45-1	20517596	20667726	20884253	20689858	0.89	cps
Scandium	45-2	395283	402383	396265	397977	0.97	cps
Selenium	82-1	206	96	73	125	56.80	cps
Selenium	77-2	157	107	120	128	20.26	cps
Selenium	78-2	73	130	100	101	28.04	cps
Silicon	28-1	9839545	9674644	9389943	9634710	2.36	cps
Silver	107-1	15085	15265	15559	15303	1.56	cps
Silver	109-1	15075	14361	13720	14385	4.71	cps
Sodium	23-2	1189163	1179218	1154736	1174372	1.51	cps
Strontium	86-1	272352	276507	282537	277132	1.85	cps
Strontium	88-1	2472006	2538790	2469220	2493339	1.58	cps
Sulfur	34-1	1058607	1068620	1078945	1068724	0.95	cps
Terbium	159-1	31404325	31980341	32382414	31922360	1.54	cps
Terbium	159-2	10638511	10709498	10564586	10637531	0.68	cps
Thallium	203-1	1790	1940	1843	1858	4.09	cps
Thallium	205-1	4301	4304	4401	4335	1.31	cps
Tin	118-1	108966	107834	111102	109301	1.52	cps
Titanium	47-1	2586937	2637612	2565732	2596760	1.42	cps
Uranium	238-1	79222	81603	80808	80544	1.51	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14RE	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:33:09	DataFile Name :	092AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	259984	256063	256989	257679	0.80	cps
Ytterbium	172-1	12930	13370	13567	13289	2.46	cps
Ytterbium	172-2	5418	5361	5304	5361	1.06	cps
Ytterbium	176-1	12119	11909	12706	12245	3.38	cps
Ytterbium	176-2	4307	4391	4337	4345	0.97	cps
Yttrium	89-1	42777671	42930889	43541256	43083272	0.94	cps
Yttrium	89-2	3202244	3168902	3220339	3197162	0.82	cps
Zinc	66-2	80091	80282	80490	80288	0.25	cps
Zirconium	90-1	323465	328839	328604	326970	0.93	cps
Zirconium	91-1	70617	72152	71917	71562	1.16	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4199540	4267384	4232655	4233193	0.80	cps
Antimony	121-1	9643914	9317172	9520980	9494022	1.74	cps
Arsenic	75-2	182904	182827	183900	183210	0.33	cps
Barium	135-1	12980768	12750676	12921215	12884220	0.93	cps
Barium	137-1	21865393	22005487	22073519	21981466	0.48	cps
Beryllium	9-1	3106602	3094765	3034518	3078628	1.26	cps
Bismuth	209-1	16599941	16066296	16702023	16456086	2.07	cps
Bismuth	209-2	6246046	6373539	6243858	6287814	1.18	cps
Bromine	81-1	12552	12923	12906	12794	1.63	cps
Cadmium	108-1	187643	189156	189312	188704	0.49	cps
Cadmium	106-1	280984	277634	280551	279723	0.65	cps
Cadmium	111-1	2402539	2435309	2362339	2400063	1.52	cps
Calcium	43-1	18833516	18563201	18821056	18739258	0.81	cps
Calcium	44-1	314731289	309256502	304099769	309362520	1.72	cps
Carbon	12-1	5508456	5658620	5706955	5624677	1.84	cps
Carbon	12-2	42267	42558	42495	42440	0.36	cps
Chlorine	35-1	12118246	11175391	10514732	11269457	7.15	cps
Chlorine	35-2	38651	37599	35744	37331	3.94	cps
Chromium	52-2	2249352	2288437	2222125	2253305	1.48	cps
Cobalt	59-2	3993513	4046421	3938160	3992698	1.36	cps
Copper	63-2	31368923	31994303	31865043	31742756	1.04	cps
Dysprosium	156-1	713	697	763	724	4.79	cps
Dysprosium	156-2	150	217	190	186	18.08	cps
Erbium	164-1	630	807	677	704	13.00	cps
Erbium	164-2	243	197	200	213	12.20	cps
Gadolinium	160-1	633	643	717	664	6.85	cps
Gadolinium	160-2	210	207	203	207	1.61	cps
Holmium	165-1	29774875	29735758	30077530	29862721	0.63	cps
Holmium	165-2	9675890	9811029	9736921	9741280	0.69	cps
Indium	115-1	23806393	23700189	23249364	23585315	1.25	cps
Indium	115-2	2246611	2342432	2318328	2302457	2.16	cps
Iron	54-2	22440688	22603886	22070823	22371799	1.22	cps
Iron	56-2	406470661	409858221	403762607	406697163	0.75	cps
Iron	57-2	10169152	10289958	10188640	10215916	0.63	cps
Krypton	83-1	430	470	453	451	4.45	cps
Lead	206-1	36379023	36778084	37075121	36744076	0.95	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	31800162	31928641	31913526	31880776	0.22	cps
Lead	208-1	147964534	146112086	147461644	147179421	0.65	cps
Lithium	6-1	10137051	9887076	9544932	9856353	3.02	cps
Magnesium	24-2	68964054	69354117	68132787	68816986	0.91	cps
Manganese	55-2	9255308	9149598	8977581	9127496	1.54	cps
Molybdenum	94-1	38069300	38321054	38315614	38235323	0.38	cps
Molybdenum	95-1	55101654	55816453	55133604	55350570	0.73	cps
Molybdenum	96-1	60624632	59602696	60839206	60355511	1.09	cps
Molybdenum	97-1	33647838	33284476	33872586	33601633	0.88	cps
Molybdenum	98-1	87262655	87757449	87770539	87596881	0.33	cps
Neodymium	150-1	1377	1280	1333	1330	3.64	cps
Neodymium	150-2	80	93	177	117	44.91	cps
Nickel	60-2	1123959	1133790	1125121	1127624	0.48	cps
Phosphorus	31-2	38702	39524	38788	39005	1.16	cps
Potassium	39-2	23221652	23226508	23213700	23220620	0.03	cps
Rhodium	103-1	21254657	20737717	20771050	20921141	1.38	cps
Rhodium	103-2	7526731	7655779	7687092	7623201	1.12	cps
Scandium	45-1	18772731	18879100	18519405	18723745	0.99	cps
Scandium	45-2	333413	337211	335453	335359	0.57	cps
Selenium	82-1	155700	154489	156299	155496	0.59	cps
Selenium	77-2	2657	2550	2410	2539	4.87	cps
Selenium	78-2	8236	8459	8649	8448	2.45	cps
Silicon	28-1	145752944	143054115	144842681	144549913	0.95	cps
Silver	107-1	12109953	12032564	12113883	12085467	0.38	cps
Silver	109-1	11630717	11700548	11541366	11624210	0.69	cps
Sodium	23-2	147677018	148044654	147576701	147766124	0.17	cps
Strontium	86-1	3684985	3593559	3693089	3657211	1.51	cps
Strontium	88-1	31881378	31625679	31777431	31761496	0.40	cps
Sulfur	34-1	1651886	1588590	1632783	1624420	2.00	cps
Terbium	159-1	30957744	29801126	30620351	30459740	1.95	cps
Terbium	159-2	9405364	9644858	9470019	9506747	1.30	cps
Thallium	203-1	9081958	9155802	9512222	9249994	2.49	cps
Thallium	205-1	21853303	22087393	22248042	22062913	0.90	cps
Tin	118-1	8350357	8192177	8267212	8269915	0.96	cps
Titanium	47-1	17576962	17607618	17246068	17476883	1.15	cps
Uranium	238-1	31818367	30594052	31560398	31324272	2.06	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:36:30	DataFile Name :	093CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1770255	1807571	1770257	1782694	1.21	cps
Ytterbium	172-1	713	800	820	778	7.29	cps
Ytterbium	172-2	303	287	293	294	2.85	cps
Ytterbium	176-1	48903	49532	49579	49338	0.76	cps
Ytterbium	176-2	15736	15653	15596	15662	0.45	cps
Yttrium	89-1	40405206	38956799	39970127	39777377	1.87	cps
Yttrium	89-2	2693032	2704302	2767575	2721636	1.48	cps
Zinc	66-2	3061927	3129921	3129317	3107055	1.26	cps
Zirconium	90-1	19979856	19842973	20056113	19959647	0.54	cps
Zirconium	91-1	4351081	4452662	4388307	4397350	1.17	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	233	240	217	230	5.23	cps
Antimony	121-1	2840	2590	2290	2574	10.70	cps
Arsenic	75-2	17	20	13	17	20.01	cps
Barium	135-1	437	587	323	449	29.43	cps
Barium	137-1	650	860	490	667	27.83	cps
Beryllium	9-1	1006	924	783	904	12.51	cps
Bismuth	209-1	18610671	14895319	18597811	17367934	12.33	cps
Bismuth	209-2	7883550	7880810	7756569	7840310	0.93	cps
Bromine	81-1	12923	12923	13710	13185	3.45	cps
Cadmium	108-1	40	43	23	36	30.14	cps
Cadmium	106-1	12209	9173	11799	11060	14.89	cps
Cadmium	111-1	8702	6598	8379	7893	14.36	cps
Calcium	43-1	1453	1697	1307	1486	13.26	cps
Calcium	44-1	37523	40214	35745	37827	5.95	cps
Carbon	12-1	4554848	4572193	4583227	4570089	0.31	cps
Carbon	12-2	28484	28147	28635	28422	0.88	cps
Chlorine	35-1	6408676	6037314	5676463	6040818	6.06	cps
Chlorine	35-2	22341	20985	19904	21077	5.79	cps
Chromium	52-2	2170	2264	2047	2160	5.03	cps
Cobalt	59-2	203	170	157	177	13.61	cps
Copper	63-2	4871	4664	4664	4733	2.52	cps
Dysprosium	156-1	7	37	23	22	67.63	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	147	127	183	152	18.88	cps
Erbium	164-2	40	73	47	53	33.07	cps
Gadolinium	160-1	163	123	150	146	13.99	cps
Gadolinium	160-2	30	17	30	26	30.11	cps
Holmium	165-1	30629688	24449190	29979640	28352839	11.98	cps
Holmium	165-2	11122125	11071014	10832897	11008679	1.40	cps
Indium	115-1	25895312	20658567	25024331	23859403	11.76	cps
Indium	115-2	2777040	2823078	2724449	2774856	1.78	cps
Iron	54-2	1173	1220	1087	1160	5.83	cps
Iron	56-2	17671	17358	15872	16967	5.66	cps
Iron	57-2	427	407	390	408	4.50	cps
Krypton	83-1	300	430	343	358	18.50	cps
Lead	206-1	4217	4474	3457	4050	13.06	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3617	3871	3190	3559	9.66	cps
Lead	208-1	16154	17151	14547	15951	8.24	cps
Lithium	6-1	10817907	8556727	10580994	9985209	12.45	cps
Magnesium	24-2	1537	1530	1403	1490	5.04	cps
Manganese	55-2	483	383	327	398	19.94	cps
Molybdenum	94-1	2970	2787	2070	2609	18.23	cps
Molybdenum	95-1	3724	3427	2567	3239	18.55	cps
Molybdenum	96-1	3994	3767	2777	3513	18.42	cps
Molybdenum	97-1	2534	1974	1477	1995	26.51	cps
Molybdenum	98-1	5595	5188	3744	4842	20.09	cps
Neodymium	150-1	20	20	20	20	0.00	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	763	843	720	776	8.07	cps
Phosphorus	31-2	137	107	90	111	21.28	cps
Potassium	39-2	19280	18876	18465	18874	2.16	cps
Rhodium	103-1	24455896	19081649	23694015	22410520	12.98	cps
Rhodium	103-2	9652429	9653252	9374450	9560044	1.68	cps
Scandium	45-1	19291622	15301119	18886875	17826539	12.32	cps
Scandium	45-2	385763	384426	380909	383700	0.65	cps
Selenium	82-1	54	-3	-37	5	980.84	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	23	13	13	75.02	cps
Silicon	28-1	853756	859636	841590	851661	1.08	cps
Silver	107-1	2237	2120	1887	2081	8.56	cps
Silver	109-1	1970	1770	1670	1803	8.47	cps
Sodium	23-2	119608	117679	116053	117780	1.51	cps
Strontium	86-1	693	780	643	706	9.80	cps
Strontium	88-1	1490	1757	1167	1471	20.08	cps
Sulfur	34-1	638867	639109	649327	642434	0.93	cps
Terbium	159-1	31601296	25107446	31122076	29276940	12.36	cps
Terbium	159-2	10816215	10660573	10801069	10759286	0.80	cps
Thallium	203-1	1753	1483	1377	1538	12.63	cps
Thallium	205-1	4017	3971	3350	3779	9.85	cps
Tin	118-1	4944	4991	4991	4975	0.54	cps
Titanium	47-1	863	987	710	853	16.24	cps
Uranium	238-1	877	1367	633	959	38.96	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:39:14	DataFile Name :	094CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	50	20	40	37	41.66	cps
Ytterbium	172-1	157	117	180	151	21.20	cps
Ytterbium	172-2	43	63	57	54	18.71	cps
Ytterbium	176-1	3534	2574	3410	3173	16.47	cps
Ytterbium	176-2	553	660	590	601	9.02	cps
Yttrium	89-1	41313505	31939908	39882984	37712132	13.39	cps
Yttrium	89-2	3134078	3109125	3073035	3105412	0.99	cps
Zinc	66-2	930	890	843	888	4.89	cps
Zirconium	90-1	2574	2394	2264	2410	6.46	cps
Zirconium	91-1	527	417	417	453	14.01	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	849681	857078	855324	854028	0.45	cps
Antimony	121-1	1286176	1308066	1319262	1304501	1.29	cps
Arsenic	75-2	71212	70958	70914	71028	0.23	cps
Barium	135-1	526875	531826	532769	530490	0.60	cps
Barium	137-1	901286	915811	926262	914453	1.37	cps
Beryllium	9-1	4112	4067	4019	4066	1.14	cps
Bismuth	209-1	18930714	19016281	18585556	18844184	1.21	cps
Bismuth	209-2	7646954	7779631	8554683	7993756	6.13	cps
Bromine	81-1	62398	63633	65535	63856	2.48	cps
Cadmium	108-1	1013	1093	1153	1087	6.46	cps
Cadmium	106-1	14494	13890	14344	14243	2.21	cps
Cadmium	111-1	18783	18398	18854	18678	1.31	cps
Calcium	43-1	515249	520652	522436	519446	0.72	cps
Calcium	44-1	8747124	8583094	8618721	8649646	1.00	cps
Carbon	12-1	8130475	8413055	8497334	8346954	2.30	cps
Carbon	12-2	54189	55290	53795	54425	1.42	cps
Chlorine	35-1	173337677	186437151	189613951	183129593	4.71	cps
Chlorine	35-2	823106	834932	836685	831574	0.89	cps
Chromium	52-2	163887	162353	161894	162711	0.64	cps
Cobalt	59-2	213775	213666	212448	213296	0.35	cps
Copper	63-2	7757585	7759287	7514466	7677113	1.83	cps
Dysprosium	156-1	48494	49709	49495	49232	1.32	cps
Dysprosium	156-2	16317	15449	15973	15913	2.75	cps
Erbium	164-1	39605	39823	41070	40166	1.97	cps
Erbium	164-2	13670	13407	13577	13551	0.99	cps
Gadolinium	160-1	43725	46297	45032	45018	2.86	cps
Gadolinium	160-2	18480	18503	18353	18445	0.44	cps
Holmium	165-1	31458737	31525713	32071300	31685250	1.06	cps
Holmium	165-2	10847434	10898194	12054276	11266635	6.06	cps
Indium	115-1	26612192	26737051	27245296	26864847	1.25	cps
Indium	115-2	2735542	2745614	2988915	2823357	5.08	cps
Iron	54-2	5886015	5777031	5873653	5845566	1.02	cps
Iron	56-2	106298638	108437888	106044072	106926866	1.23	cps
Iron	57-2	2767233	2722721	2738218	2742724	0.82	cps
Krypton	83-1	507	560	540	536	5.03	cps
Lead	206-1	5594399	5535007	5471385	5533597	1.11	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4673687	4723931	4729144	4708921	0.65	cps
Lead	208-1	21624531	21672743	21425494	21574256	0.61	cps
Lithium	6-1	11191769	10724350	10821204	10912441	2.26	cps
Magnesium	24-2	1732006	1754104	1710595	1732235	1.26	cps
Manganese	55-2	399865	404437	401568	401957	0.57	cps
Molybdenum	94-1	144980	144378	144381	144580	0.24	cps
Molybdenum	95-1	98345	99560	98297	98734	0.72	cps
Molybdenum	96-1	120638	120164	120377	120393	0.20	cps
Molybdenum	97-1	60699	61676	62219	61531	1.25	cps
Molybdenum	98-1	155261	157213	158032	156835	0.91	cps
Neodymium	150-1	73600	74850	75381	74610	1.23	cps
Neodymium	150-2	18773	18329	18857	18653	1.52	cps
Nickel	60-2	73228	71927	72051	72402	0.99	cps
Phosphorus	31-2	4757	4738	4644	4713	1.28	cps
Potassium	39-2	403683	402753	402414	402950	0.16	cps
Rhodium	103-1	24843866	24541940	24488465	24624757	0.78	cps
Rhodium	103-2	9412833	9420097	10551251	9794727	6.69	cps
Scandium	45-1	20648976	20062128	20166841	20292648	1.54	cps
Scandium	45-2	394031	396053	440648	410244	6.42	cps
Selenium	82-1	308	322	361	330	8.40	cps
Selenium	77-2	70	113	140	108	32.78	cps
Selenium	78-2	87	63	77	76	15.50	cps
Silicon	28-1	16307813	17079104	16561952	16649623	2.36	cps
Silver	107-1	66164	68639	68013	67606	1.90	cps
Silver	109-1	65861	65180	65183	65408	0.60	cps
Sodium	23-2	6032493	6211314	6053893	6099233	1.60	cps
Strontium	86-1	410065	411305	415228	412199	0.65	cps
Strontium	88-1	3783455	3649019	3750496	3727657	1.88	cps
Sulfur	34-1	1820284	1828879	1824814	1824659	0.24	cps
Terbium	159-1	32515664	32611423	32464930	32530672	0.23	cps
Terbium	159-2	10659880	10674187	11880344	11071470	6.33	cps
Thallium	203-1	10024	10061	9954	10013	0.54	cps
Thallium	205-1	24587	23475	23722	23928	2.44	cps
Tin	118-1	1357718	1396033	1390242	1381331	1.50	cps
Titanium	47-1	2420813	2315262	2359068	2365048	2.24	cps
Uranium	238-1	220816	224203	221442	222153	0.81	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01	Instrumnet Name :	P8
Client Sample ID :	MJNKL4	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	184607	186460	186242	185770	0.55	cps
Ytterbium	172-1	11081	11398	10678	11052	3.27	cps
Ytterbium	172-2	4464	4541	4714	4573	2.80	cps
Ytterbium	176-1	10931	10808	10771	10837	0.77	cps
Ytterbium	176-2	3544	3644	3637	3608	1.55	cps
Yttrium	89-1	43287776	42401313	42979274	42889454	1.05	cps
Yttrium	89-2	3134577	3228130	3472049	3278252	5.31	cps
Zinc	66-2	864725	860982	855644	860451	0.53	cps
Zirconium	90-1	252428	249727	254699	252284	0.99	cps
Zirconium	91-1	55253	55574	55634	55487	0.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	846292	846144	846545	846327	0.02	cps
Antimony	121-1	1265612	1286552	1298479	1283548	1.30	cps
Arsenic	75-2	70663	71256	70086	70668	0.83	cps
Barium	135-1	502798	516106	515778	511561	1.48	cps
Barium	137-1	876713	889681	891196	885863	0.90	cps
Beryllium	9-1	3773	3907	3832	3837	1.75	cps
Bismuth	209-1	21165953	16996638	17489084	18550559	12.28	cps
Bismuth	209-2	7476943	7650719	7469039	7532234	1.36	cps
Bromine	81-1	61186	65633	67582	64800	5.06	cps
Cadmium	108-1	1077	1137	1087	1100	2.92	cps
Cadmium	106-1	15686	13797	14017	14500	7.12	cps
Cadmium	111-1	19493	18529	18718	18913	2.70	cps
Calcium	43-1	585166	601239	600510	595638	1.52	cps
Calcium	44-1	9778469	9951610	9903008	9877696	0.90	cps
Carbon	12-1	8287875	8363358	8613915	8421716	2.03	cps
Carbon	12-2	54765	54925	55140	54943	0.34	cps
Chlorine	35-1	180590244	190911324	195194664	188898744	3.97	cps
Chlorine	35-2	838468	830421	850896	839929	1.23	cps
Chromium	52-2	160162	160753	160867	160594	0.24	cps
Cobalt	59-2	212730	213860	213153	213248	0.27	cps
Copper	63-2	7609388	7538618	7511216	7553074	0.67	cps
Dysprosium	156-1	47909	49120	48976	48668	1.36	cps
Dysprosium	156-2	16180	15956	15823	15986	1.13	cps
Erbium	164-1	39121	39508	39495	39375	0.56	cps
Erbium	164-2	13474	13387	13233	13365	0.91	cps
Gadolinium	160-1	43236	44517	44959	44238	2.02	cps
Gadolinium	160-2	18463	18276	18473	18404	0.60	cps
Holmium	165-1	34873414	28766084	29203949	30947815	11.01	cps
Holmium	165-2	10763222	10953904	10499004	10738710	2.13	cps
Indium	115-1	29353580	24137439	24599924	26030314	11.09	cps
Indium	115-2	2748475	2761562	2651292	2720443	2.21	cps
Iron	54-2	5763323	5947915	5858218	5856485	1.58	cps
Iron	56-2	108681172	107053142	105353878	107029397	1.55	cps
Iron	57-2	2766380	2746361	2699773	2737505	1.25	cps
Krypton	83-1	490	530	520	513	4.06	cps
Lead	206-1	5754889	5739505	5687352	5727249	0.62	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4868398	4929865	4828250	4875504	1.05	cps
Lead	208-1	22423300	22591179	22224479	22412986	0.82	cps
Lithium	6-1	12127201	9767540	10146879	10680540	11.86	cps
Magnesium	24-2	1730827	1689809	1729622	1716753	1.36	cps
Manganese	55-2	397407	405652	400464	401175	1.04	cps
Molybdenum	94-1	141670	144579	145000	143750	1.26	cps
Molybdenum	95-1	96771	98284	100272	98442	1.78	cps
Molybdenum	96-1	116201	121469	122467	120046	2.80	cps
Molybdenum	97-1	59186	61100	60950	60412	1.76	cps
Molybdenum	98-1	152120	155427	157670	155072	1.80	cps
Neodymium	150-1	72615	74897	73885	73799	1.55	cps
Neodymium	150-2	18269	18580	18903	18584	1.71	cps
Nickel	60-2	72265	72313	71465	72014	0.66	cps
Phosphorus	31-2	4767	4484	4731	4661	3.31	cps
Potassium	39-2	401368	393023	395611	396667	1.08	cps
Rhodium	103-1	27047028	22309131	23054415	24136858	10.56	cps
Rhodium	103-2	9274316	9515050	9146388	9311918	2.01	cps
Scandium	45-1	23179154	18677773	19210291	20355739	12.08	cps
Scandium	45-2	389572	395084	388535	391064	0.90	cps
Selenium	82-1	443	341	403	396	13.04	cps
Selenium	77-2	110	93	90	98	10.96	cps
Selenium	78-2	93	120	117	110	13.21	cps
Silicon	28-1	18150731	16579665	17879131	17536509	4.79	cps
Silver	107-1	65273	66191	68248	66571	2.29	cps
Silver	109-1	61553	64071	63924	63183	2.24	cps
Sodium	23-2	6185302	6127993	6074703	6129333	0.90	cps
Strontium	86-1	418393	437309	439411	431704	2.68	cps
Strontium	88-1	3785223	3943155	3849137	3859172	2.06	cps
Sulfur	34-1	1794624	1838963	1821473	1818353	1.23	cps
Terbium	159-1	35961959	28912255	29990593	31621602	12.01	cps
Terbium	159-2	10443598	10627397	10396334	10489109	1.16	cps
Thallium	203-1	8997	9167	8997	9053	1.08	cps
Thallium	205-1	21371	21271	21608	21417	0.81	cps
Tin	118-1	1741993	1757221	1725656	1741623	0.91	cps
Titanium	47-1	2344620	2431744	2364387	2380250	1.92	cps
Uranium	238-1	214438	219560	216060	216686	1.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-02	Instrumnet Name :	P8
Client Sample ID :	MJNKL4D	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:46:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	184105	185556	183244	184302	0.63	cps
Ytterbium	172-1	10691	10825	11085	10867	1.84	cps
Ytterbium	172-2	4294	4381	4491	4389	2.25	cps
Ytterbium	176-1	11065	10404	10261	10577	4.05	cps
Ytterbium	176-2	3417	3577	3524	3506	2.32	cps
Yttrium	89-1	48069926	39078668	40478984	42542526	11.37	cps
Yttrium	89-2	3140320	3225449	3081342	3149037	2.30	cps
Zinc	66-2	848455	849289	839638	845794	0.63	cps
Zirconium	90-1	241006	251488	251930	248141	2.49	cps
Zirconium	91-1	53127	54463	55815	54468	2.47	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	168497	169779	167473	168583	0.69	cps
Antimony	121-1	249862	252578	251760	251400	0.55	cps
Arsenic	75-2	13884	13440	13553	13626	1.69	cps
Barium	135-1	101365	100714	100486	100855	0.45	cps
Barium	137-1	176124	176367	176630	176373	0.14	cps
Beryllium	9-1	1033	1058	1087	1059	2.55	cps
Bismuth	209-1	18360207	17875794	18159914	18131972	1.34	cps
Bismuth	209-2	7538561	7499552	7737469	7591861	1.68	cps
Bromine	81-1	24231	23977	25046	24418	2.29	cps
Cadmium	108-1	240	240	233	238	1.62	cps
Cadmium	106-1	12205	12349	12109	12221	0.99	cps
Cadmium	111-1	10253	10403	10306	10321	0.74	cps
Calcium	43-1	103277	102760	103233	103090	0.28	cps
Calcium	44-1	1741216	1771060	1750579	1754285	0.87	cps
Carbon	12-1	5635643	5666409	5476013	5592688	1.83	cps
Carbon	12-2	35490	35249	35052	35263	0.62	cps
Chlorine	35-1	45762539	47054449	47067964	46628318	1.61	cps
Chlorine	35-2	193935	193284	192310	193176	0.42	cps
Chromium	52-2	34091	34171	34154	34138	0.12	cps
Cobalt	59-2	41614	42005	42022	41880	0.55	cps
Copper	63-2	1447197	1444951	1462311	1451486	0.65	cps
Dysprosium	156-1	9387	9850	9167	9468	3.69	cps
Dysprosium	156-2	2910	3127	3097	3045	3.86	cps
Erbium	164-1	8056	7956	7839	7950	1.36	cps
Erbium	164-2	2540	2724	2800	2688	4.97	cps
Gadolinium	160-1	8626	8900	8943	8823	1.95	cps
Gadolinium	160-2	3647	3604	3467	3573	2.63	cps
Holmium	165-1	30716578	30637699	30150225	30501501	1.01	cps
Holmium	165-2	10720755	10538404	10972117	10743759	2.03	cps
Indium	115-1	26124310	25648869	25150948	25641375	1.90	cps
Indium	115-2	2689484	2668805	2723545	2693945	1.03	cps
Iron	54-2	1116995	1116252	1122232	1118493	0.29	cps
Iron	56-2	20753071	20981157	21045586	20926605	0.73	cps
Iron	57-2	516297	514132	512809	514413	0.34	cps
Krypton	83-1	387	377	367	377	2.65	cps
Lead	206-1	1019836	1021129	1029068	1023345	0.49	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	879739	882747	889382	883956	0.56	cps
Lead	208-1	4149971	4147214	4154755	4150647	0.09	cps
Lithium	6-1	10550821	10645921	10974398	10723714	2.07	cps
Magnesium	24-2	342893	337755	334963	338537	1.19	cps
Manganese	55-2	79476	80499	79117	79697	0.90	cps
Molybdenum	94-1	27868	28422	28593	28294	1.34	cps
Molybdenum	95-1	19791	20365	19757	19971	1.71	cps
Molybdenum	96-1	24391	24572	24168	24377	0.83	cps
Molybdenum	97-1	12419	12466	12276	12387	0.80	cps
Molybdenum	98-1	31676	32371	31626	31891	1.31	cps
Neodymium	150-1	14428	14391	14298	14372	0.47	cps
Neodymium	150-2	3487	3691	3644	3607	2.95	cps
Nickel	60-2	16213	15675	15876	15921	1.71	cps
Phosphorus	31-2	1023	1053	1037	1038	1.45	cps
Potassium	39-2	90337	91367	92689	91464	1.29	cps
Rhodium	103-1	24019022	24012157	23798309	23943163	0.52	cps
Rhodium	103-2	9347005	9368814	9683830	9466550	1.99	cps
Scandium	45-1	20426736	19815033	19475603	19905791	2.42	cps
Scandium	45-2	382081	383215	396119	387138	2.01	cps
Selenium	82-1	75	55	138	90	48.66	cps
Selenium	77-2	23	13	27	21	32.88	cps
Selenium	78-2	30	23	33	29	17.63	cps
Silicon	28-1	3976502	3921758	3861640	3919967	1.47	cps
Silver	107-1	13143	12939	13256	13113	1.22	cps
Silver	109-1	12512	12352	12372	12412	0.70	cps
Sodium	23-2	1320600	1286391	1299169	1302053	1.33	cps
Strontium	86-1	80255	81566	81063	80961	0.82	cps
Strontium	88-1	689218	699883	699531	696210	0.87	cps
Sulfur	34-1	902750	899878	894245	898958	0.48	cps
Terbium	159-1	31248678	31589024	31347879	31395193	0.56	cps
Terbium	159-2	10274215	10323595	10525771	10374527	1.28	cps
Thallium	203-1	2047	2214	1964	2075	6.14	cps
Thallium	205-1	5198	5154	4864	5072	3.57	cps
Tin	118-1	274867	274615	273532	274338	0.26	cps
Titanium	47-1	451403	449056	454541	451667	0.61	cps
Uranium	238-1	41769	41916	42283	41989	0.63	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-01LX5	Instrumnet Name :	P8
Client Sample ID :	MJNKL4L	Dilution Factor :	5
Date & Time Acquired :	2024-12-13 18:49:05	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	36089	36600	35624	36104	1.35	cps
Ytterbium	172-1	2157	2150	2294	2200	3.68	cps
Ytterbium	172-2	940	943	937	940	0.35	cps
Ytterbium	176-1	5094	4678	4477	4750	6.63	cps
Ytterbium	176-2	1147	1210	1207	1188	3.00	cps
Yttrium	89-1	42298699	40895127	41112029	41435285	1.82	cps
Yttrium	89-2	3048532	3033267	3133844	3071881	1.76	cps
Zinc	66-2	167386	167426	167893	167568	0.17	cps
Zirconium	90-1	48337	47695	47661	47898	0.80	cps
Zirconium	91-1	10341	10527	10761	10543	2.00	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	881946	862626	856025	866866	1.55	cps
Antimony	121-1	1711839	1741934	1770822	1741532	1.69	cps
Arsenic	75-2	71952	71725	71637	71772	0.23	cps
Barium	135-1	2764971	2819128	2768718	2784272	1.09	cps
Barium	137-1	4691457	4767854	4638009	4699106	1.39	cps
Beryllium	9-1	65967	66055	65540	65854	0.42	cps
Bismuth	209-1	18702335	18319105	18286485	18435975	1.25	cps
Bismuth	209-2	7589239	7453881	7460248	7501123	1.02	cps
Bromine	81-1	59659	61109	62251	61006	2.13	cps
Cadmium	108-1	4491	4564	4554	4536	0.88	cps
Cadmium	106-1	18376	18773	18319	18489	1.34	cps
Cadmium	111-1	70265	70706	71078	70683	0.58	cps
Calcium	43-1	543340	550196	547403	546980	0.63	cps
Calcium	44-1	9159019	8984848	9110402	9084756	0.99	cps
Carbon	12-1	7995599	8404564	8401161	8267108	2.84	cps
Carbon	12-2	53995	54808	54588	54464	0.77	cps
Chlorine	35-1	190204724	201709797	204893497	198936006	3.88	cps
Chlorine	35-2	887975	890666	889056	889233	0.15	cps
Chromium	52-2	370109	374934	371812	372285	0.66	cps
Cobalt	59-2	1203737	1212059	1204663	1206820	0.38	cps
Copper	63-2	7863072	7736438	7775082	7791531	0.83	cps
Dysprosium	156-1	46276	47307	47009	46864	1.13	cps
Dysprosium	156-2	15426	15272	15286	15328	0.55	cps
Erbium	164-1	38008	38903	39415	38775	1.84	cps
Erbium	164-2	12926	13203	12923	13018	1.24	cps
Gadolinium	160-1	42334	43257	43414	43001	1.36	cps
Gadolinium	160-2	18233	17949	17902	18028	0.99	cps
Holmium	165-1	30896161	30693513	31102321	30897332	0.66	cps
Holmium	165-2	10618256	10705479	10731192	10684976	0.55	cps
Indium	115-1	26545392	26098264	25851694	26165116	1.34	cps
Indium	115-2	2706879	2704950	2704329	2705386	0.05	cps
Iron	54-2	5727872	5708950	5672976	5703266	0.49	cps
Iron	56-2	104822725	104744478	105051185	104872796	0.15	cps
Iron	57-2	2710475	2652204	2686625	2683101	1.09	cps
Krypton	83-1	540	450	593	528	13.73	cps
Lead	206-1	5420629	5563355	5516888	5500291	1.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4669038	4645268	4740328	4684878	1.06	cps
Lead	208-1	21459601	21437392	21677648	21524880	0.62	cps
Lithium	6-1	10563894	10740887	10835122	10713301	1.29	cps
Magnesium	24-2	1749134	1684290	1687609	1707011	2.14	cps
Manganese	55-2	612437	608539	612221	611066	0.36	cps
Molybdenum	94-1	138871	140942	140000	139938	0.74	cps
Molybdenum	95-1	94746	96428	95240	95471	0.91	cps
Molybdenum	96-1	115755	117216	116601	116524	0.63	cps
Molybdenum	97-1	59028	58861	58955	58948	0.14	cps
Molybdenum	98-1	150897	152525	151244	151555	0.57	cps
Neodymium	150-1	70564	71673	72679	71639	1.48	cps
Neodymium	150-2	17728	18403	17702	17944	2.21	cps
Nickel	60-2	342623	345047	345125	344265	0.41	cps
Phosphorus	31-2	4661	4344	4501	4502	3.52	cps
Potassium	39-2	388031	386024	387496	387184	0.27	cps
Rhodium	103-1	24721258	24732084	24132160	24528500	1.40	cps
Rhodium	103-2	9463259	9433014	9426241	9440838	0.21	cps
Scandium	45-1	20572683	20059966	20492727	20375125	1.35	cps
Scandium	45-2	388410	389167	388680	388752	0.10	cps
Selenium	82-1	7274	7508	7158	7313	2.44	cps
Selenium	77-2	193	273	237	234	17.08	cps
Selenium	78-2	543	513	607	554	8.59	cps
Silicon	28-1	17030302	16273469	16035918	16446563	3.16	cps
Silver	107-1	334605	340339	337962	337635	0.85	cps
Silver	109-1	318372	324901	320076	321116	1.05	cps
Sodium	23-2	6059023	6058154	5944126	6020435	1.10	cps
Strontium	86-1	404213	409571	409444	407743	0.75	cps
Strontium	88-1	3734526	3680258	3714418	3709734	0.74	cps
Sulfur	34-1	1709856	1777621	1760814	1749430	2.02	cps
Terbium	159-1	31817838	31510019	31781047	31702968	0.53	cps
Terbium	159-2	10703768	10468507	10317865	10496714	1.85	cps
Thallium	203-1	203442	206601	204404	204816	0.79	cps
Thallium	205-1	492693	491471	496572	493579	0.54	cps
Tin	118-1	1464234	1487204	1495044	1482161	1.08	cps
Titanium	47-1	2274708	2285806	2339580	2300031	1.51	cps
Uranium	238-1	207798	212645	211141	210528	1.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-03	Instrumnet Name :	P8
Client Sample ID :	MJNKL4S	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:52:21	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	597396	595703	595533	596211	0.17	cps
Ytterbium	172-1	10277	10604	10191	10357	2.11	cps
Ytterbium	172-2	4504	4337	4161	4334	3.96	cps
Ytterbium	176-1	10317	10381	10151	10283	1.16	cps
Ytterbium	176-2	3380	3224	3247	3284	2.57	cps
Yttrium	89-1	43537814	41405723	42776767	42573435	2.54	cps
Yttrium	89-2	3127985	3119146	3151972	3133034	0.54	cps
Zinc	66-2	903081	907253	894282	901539	0.73	cps
Zirconium	90-1	232331	236510	240196	236346	1.67	cps
Zirconium	91-1	52375	53385	53385	53048	1.10	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	771943	784152	773846	776647	0.85	cps
Antimony	121-1	1149237	1181850	1168662	1166583	1.41	cps
Arsenic	75-2	62802	63817	63546	63388	0.83	cps
Barium	135-1	461329	466781	464280	464130	0.59	cps
Barium	137-1	792636	811996	809150	804594	1.30	cps
Beryllium	9-1	3418	3442	3533	3464	1.76	cps
Bismuth	209-1	18591850	17902726	17974729	18156435	2.09	cps
Bismuth	209-2	7598996	7458809	7381225	7479676	1.48	cps
Bromine	81-1	67860	69612	71568	69680	2.66	cps
Cadmium	108-1	960	990	913	954	4.05	cps
Cadmium	106-1	14034	13056	13480	13523	3.63	cps
Cadmium	111-1	17764	17513	17750	17676	0.80	cps
Calcium	43-1	653079	655498	655428	654668	0.21	cps
Calcium	44-1	10925904	10900926	10902972	10909934	0.13	cps
Carbon	12-1	7900995	8082116	8134473	8039195	1.52	cps
Carbon	12-2	51727	51684	52450	51954	0.83	cps
Chlorine	35-1	225484150	231639170	234314270	230479197	1.96	cps
Chlorine	35-2	1007787	1014236	1012397	1011473	0.33	cps
Chromium	52-2	164999	165848	165259	165369	0.26	cps
Cobalt	59-2	189335	190933	191004	190424	0.50	cps
Copper	63-2	7279861	7175937	7205823	7220540	0.74	cps
Dysprosium	156-1	47658	46838	48063	47520	1.31	cps
Dysprosium	156-2	15863	15529	14955	15449	2.97	cps
Erbium	164-1	36884	37874	37630	37463	1.38	cps
Erbium	164-2	12616	12820	12636	12691	0.88	cps
Gadolinium	160-1	42263	43230	42929	42807	1.16	cps
Gadolinium	160-2	17772	17715	17648	17712	0.35	cps
Holmium	165-1	32246677	29941809	30345860	30844782	3.99	cps
Holmium	165-2	10849983	10742903	10502735	10698540	1.66	cps
Indium	115-1	26697915	25019731	26102126	25939924	3.28	cps
Indium	115-2	2753625	2713885	2634577	2700696	2.24	cps
Iron	54-2	5154381	5077568	5044161	5092037	1.11	cps
Iron	56-2	91741852	93468529	93481979	92897453	1.08	cps
Iron	57-2	2348570	2368413	2417108	2378030	1.48	cps
Krypton	83-1	553	517	567	546	4.75	cps
Lead	206-1	4947126	5080389	4993219	5006911	1.35	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4173274	4229839	4259075	4220729	1.03	cps
Lead	208-1	19420162	19682602	19621747	19574837	0.70	cps
Lithium	6-1	10817009	10271872	10349580	10479487	2.81	cps
Magnesium	24-2	1627102	1634396	1652366	1637955	0.79	cps
Manganese	55-2	354145	354020	357176	355114	0.50	cps
Molybdenum	94-1	126294	127609	124899	126267	1.07	cps
Molybdenum	95-1	88325	88231	88878	88478	0.40	cps
Molybdenum	96-1	107734	107230	107300	107421	0.25	cps
Molybdenum	97-1	54644	54185	55116	54648	0.85	cps
Molybdenum	98-1	140914	140732	140416	140687	0.18	cps
Neodymium	150-1	73379	72813	74153	73448	0.92	cps
Neodymium	150-2	18396	18403	17942	18247	1.45	cps
Nickel	60-2	62845	62587	63176	62869	0.47	cps
Phosphorus	31-2	4344	4511	4334	4396	2.26	cps
Potassium	39-2	379962	382251	383842	382018	0.51	cps
Rhodium	103-1	25038982	23092665	23776688	23969445	4.12	cps
Rhodium	103-2	9528807	9337414	9356019	9407413	1.12	cps
Scandium	45-1	20602030	19349446	19986860	19979445	3.13	cps
Scandium	45-2	396709	397918	386437	393688	1.60	cps
Selenium	82-1	140	324	303	255	39.45	cps
Selenium	77-2	87	113	143	114	24.77	cps
Selenium	78-2	117	83	97	99	16.97	cps
Silicon	28-1	17569234	19096922	18253111	18306422	4.18	cps
Silver	107-1	63449	64450	64205	64035	0.82	cps
Silver	109-1	61208	61436	59702	60782	1.55	cps
Sodium	23-2	7276853	7497655	7355153	7376554	1.52	cps
Strontium	86-1	550071	547507	551176	549585	0.34	cps
Strontium	88-1	5005807	4940976	4934651	4960478	0.79	cps
Sulfur	34-1	1658898	1652455	1632494	1647949	0.84	cps
Terbium	159-1	32466855	30236814	31126431	31276700	3.59	cps
Terbium	159-2	10470661	10553983	10144686	10389777	2.08	cps
Thallium	203-1	8016	8139	7986	8047	1.01	cps
Thallium	205-1	19108	19161	19288	19185	0.48	cps
Tin	118-1	399485	398920	405247	401217	0.87	cps
Titanium	47-1	2325536	2353847	2326974	2335453	0.68	cps
Uranium	238-1	198307	201060	197701	199023	0.90	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-04	Instrumnet Name :	P8
Client Sample ID :	MJNKL5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:55:25	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	174001	172478	173006	173162	0.45	cps
Ytterbium	172-1	10024	9890	9760	9892	1.33	cps
Ytterbium	172-2	4054	4047	4234	4112	2.58	cps
Ytterbium	176-1	9770	9657	9770	9733	0.67	cps
Ytterbium	176-2	3314	3357	3244	3305	1.73	cps
Yttrium	89-1	43680033	40379019	41731671	41930241	3.96	cps
Yttrium	89-2	3172813	3149043	3176043	3165966	0.47	cps
Zinc	66-2	773523	773972	768763	772086	0.37	cps
Zirconium	90-1	209842	213632	213208	212227	0.98	cps
Zirconium	91-1	46711	47076	48331	47373	1.79	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	652445	648824	646938	649402	0.43	cps
Antimony	121-1	118172	117967	119298	118479	0.60	cps
Arsenic	75-2	7265	6582	6802	6883	5.07	cps
Barium	135-1	80018	81057	81825	80967	1.12	cps
Barium	137-1	139751	140330	139127	139736	0.43	cps
Beryllium	9-1	2401	2269	2264	2311	3.37	cps
Bismuth	209-1	18500459	18332786	18382312	18405186	0.47	cps
Bismuth	209-2	7610981	7780932	7593792	7661902	1.35	cps
Bromine	81-1	31171	32334	32190	31899	1.99	cps
Cadmium	108-1	353	407	427	396	9.58	cps
Cadmium	106-1	12379	12412	12312	12368	0.41	cps
Cadmium	111-1	9978	10191	9867	10012	1.64	cps
Calcium	43-1	339358	341272	339585	340072	0.31	cps
Calcium	44-1	5678519	5658533	5603358	5646803	0.69	cps
Carbon	12-1	5650460	5608799	5543649	5600969	0.96	cps
Carbon	12-2	35556	35560	35239	35452	0.52	cps
Chlorine	35-1	204048724	209493264	209720130	207754039	1.55	cps
Chlorine	35-2	906489	910973	904368	907276	0.37	cps
Chromium	52-2	118157	118546	116442	117715	0.95	cps
Cobalt	59-2	53855	53751	53808	53804	0.10	cps
Copper	63-2	1007608	998463	999653	1001908	0.50	cps
Dysprosium	156-1	54892	55040	54102	54678	0.92	cps
Dysprosium	156-2	17445	18229	17645	17773	2.29	cps
Erbium	164-1	40836	40926	41117	40960	0.35	cps
Erbium	164-2	13534	14031	13771	13778	1.80	cps
Gadolinium	160-1	49863	49649	49414	49642	0.45	cps
Gadolinium	160-2	20362	21137	20296	20598	2.27	cps
Holmium	165-1	30815998	31332101	31733125	31293741	1.47	cps
Holmium	165-2	10886502	11095581	10961957	10981347	0.96	cps
Indium	115-1	26622662	26190055	26143874	26318864	1.00	cps
Indium	115-2	2706786	2837492	2793775	2779351	2.39	cps
Iron	54-2	2900797	2859293	2896186	2885425	0.79	cps
Iron	56-2	51494631	51835121	51099196	51476316	0.72	cps
Iron	57-2	1259998	1281991	1262393	1268127	0.95	cps
Krypton	83-1	467	537	557	520	9.09	cps
Lead	206-1	1167413	1159701	1167195	1164770	0.38	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1019581	1022792	1020925	1021099	0.16	cps
Lead	208-1	4796878	4758208	4793534	4782873	0.45	cps
Lithium	6-1	10619973	10444191	10248616	10437593	1.78	cps
Magnesium	24-2	1158728	1167791	1138884	1155134	1.28	cps
Manganese	55-2	222989	220776	221150	221638	0.53	cps
Molybdenum	94-1	87494	89130	88472	88365	0.93	cps
Molybdenum	95-1	30597	31075	30467	30713	1.04	cps
Molybdenum	96-1	44277	45140	44615	44677	0.97	cps
Molybdenum	97-1	18950	18813	18786	18850	0.47	cps
Molybdenum	98-1	48672	48448	48324	48481	0.36	cps
Neodymium	150-1	88399	88902	89187	88829	0.45	cps
Neodymium	150-2	21961	22329	21905	22065	1.04	cps
Nickel	60-2	43981	44556	44299	44279	0.65	cps
Phosphorus	31-2	5054	5154	5058	5089	1.12	cps
Potassium	39-2	240001	241155	239855	240337	0.30	cps
Rhodium	103-1	24273869	24941607	24922160	24712545	1.54	cps
Rhodium	103-2	9631934	9563270	9573072	9589425	0.39	cps
Scandium	45-1	20403775	20438468	20361138	20401127	0.19	cps
Scandium	45-2	403607	403464	408017	405029	0.64	cps
Selenium	82-1	172	92	-24	80	123.15	cps
Selenium	77-2	83	107	117	102	16.74	cps
Selenium	78-2	77	83	67	76	11.10	cps
Silicon	28-1	13393508	13518226	13032435	13314723	1.89	cps
Silver	107-1	9483	9513	9040	9345	2.84	cps
Silver	109-1	8886	8393	8189	8489	4.22	cps
Sodium	23-2	4350911	4320252	4282895	4318019	0.79	cps
Strontium	86-1	227796	227282	230185	228421	0.68	cps
Strontium	88-1	2102740	2086839	2051278	2080286	1.27	cps
Sulfur	34-1	872944	872607	868614	871388	0.28	cps
Terbium	159-1	31664089	32270916	32331169	32088725	1.15	cps
Terbium	159-2	10639058	10861599	10749407	10750021	1.04	cps
Thallium	203-1	2844	2577	2807	2743	5.27	cps
Thallium	205-1	6405	6688	6625	6573	2.26	cps
Tin	118-1	69278	69536	69907	69574	0.45	cps
Titanium	47-1	3118421	3044894	3025029	3062781	1.61	cps
Uranium	238-1	111981	111242	113154	112126	0.86	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-05	Instrumnet Name :	P8
Client Sample ID :	MJNKM5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 18:58:33	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	201475	199332	202863	201223	0.88	cps
Ytterbium	172-1	9700	9890	10264	9952	2.88	cps
Ytterbium	172-2	3921	4311	3907	4046	5.66	cps
Ytterbium	176-1	9850	9440	9680	9657	2.13	cps
Ytterbium	176-2	3190	3344	3247	3260	2.38	cps
Yttrium	89-1	43672401	43289041	42714777	43225406	1.12	cps
Yttrium	89-2	3234855	3184300	3202594	3207249	0.80	cps
Zinc	66-2	91389	90936	91184	91170	0.25	cps
Zirconium	90-1	201251	199111	198044	199469	0.82	cps
Zirconium	91-1	45297	43832	44203	44444	1.71	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	682672	681104	689041	684272	0.61	cps
Antimony	121-1	45205	44526	43696	44475	1.70	cps
Arsenic	75-2	3430	3434	3217	3360	3.70	cps
Barium	135-1	60866	60782	60859	60836	0.08	cps
Barium	137-1	104208	103516	105686	104470	1.06	cps
Beryllium	9-1	2200	2211	2197	2203	0.33	cps
Bismuth	209-1	14990775	17572071	18187394	16916746	10.03	cps
Bismuth	209-2	7480038	7475248	7470793	7475360	0.06	cps
Bromine	81-1	26138	26672	26869	26560	1.42	cps
Cadmium	108-1	287	297	293	292	1.74	cps
Cadmium	106-1	10100	11889	12793	11594	11.82	cps
Cadmium	111-1	7943	9321	9860	9041	10.93	cps
Calcium	43-1	309741	311221	308884	309949	0.38	cps
Calcium	44-1	5187049	5137148	5155991	5160063	0.49	cps
Carbon	12-1	5202568	5037999	5170827	5137131	1.70	cps
Carbon	12-2	33421	33488	33742	33551	0.50	cps
Chlorine	35-1	199608630	205931390	209249837	204929953	2.39	cps
Chlorine	35-2	900208	896551	902928	899896	0.36	cps
Chromium	52-2	113651	114329	113852	113944	0.31	cps
Cobalt	59-2	52600	52995	53072	52889	0.48	cps
Copper	63-2	498051	498340	503480	499957	0.61	cps
Dysprosium	156-1	49478	50147	50515	50047	1.05	cps
Dysprosium	156-2	16290	16247	15883	16140	1.39	cps
Erbium	164-1	39104	40150	39211	39488	1.46	cps
Erbium	164-2	13200	12813	13247	13087	1.82	cps
Gadolinium	160-1	46461	46875	46547	46628	0.47	cps
Gadolinium	160-2	19558	19181	19461	19400	1.01	cps
Holmium	165-1	24765344	29735739	30816050	28439044	11.35	cps
Holmium	165-2	10681707	10656271	10525473	10621150	0.79	cps
Indium	115-1	21537956	25257390	25955819	24250388	9.79	cps
Indium	115-2	2649151	2680249	2684505	2671302	0.72	cps
Iron	54-2	3202661	3156925	3175197	3178261	0.72	cps
Iron	56-2	56998376	57791486	57940909	57576924	0.88	cps
Iron	57-2	1470964	1480740	1489111	1480271	0.61	cps
Krypton	83-1	527	423	537	496	12.66	cps
Lead	206-1	425843	424758	426191	425597	0.18	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	376166	373569	375879	375205	0.38	cps
Lead	208-1	1708845	1703123	1703993	1705321	0.18	cps
Lithium	6-1	9311796	9928695	10231380	9823957	4.77	cps
Magnesium	24-2	1395094	1393733	1372229	1387019	0.92	cps
Manganese	55-2	258498	259660	254156	257438	1.13	cps
Molybdenum	94-1	68769	69794	69747	69437	0.83	cps
Molybdenum	95-1	9156	8756	8643	8852	3.05	cps
Molybdenum	96-1	20492	20939	20332	20588	1.53	cps
Molybdenum	97-1	5471	5504	5558	5511	0.79	cps
Molybdenum	98-1	14031	13900	13907	13946	0.53	cps
Neodymium	150-1	78796	78632	78893	78774	0.17	cps
Neodymium	150-2	19437	19554	19658	19550	0.56	cps
Nickel	60-2	50415	49857	49957	50077	0.59	cps
Phosphorus	31-2	4974	4788	4884	4882	1.91	cps
Potassium	39-2	269612	268104	266310	268009	0.62	cps
Rhodium	103-1	19859397	23794450	24007482	22553776	10.36	cps
Rhodium	103-2	9416702	9324129	9333686	9358172	0.54	cps
Scandium	45-1	16806356	19758052	20301532	18955313	9.92	cps
Scandium	45-2	392211	389588	395144	392314	0.71	cps
Selenium	82-1	197	123	57	126	55.76	cps
Selenium	77-2	130	110	80	107	23.59	cps
Selenium	78-2	93	93	73	87	13.32	cps
Silicon	28-1	7889743	7427061	7145950	7487585	5.02	cps
Silver	107-1	4958	5188	5134	5093	2.36	cps
Silver	109-1	4811	4764	4818	4798	0.61	cps
Sodium	23-2	3926604	3802039	3866700	3865114	1.61	cps
Strontium	86-1	189008	190590	191929	190509	0.77	cps
Strontium	88-1	1680513	1666731	1739624	1695623	2.28	cps
Sulfur	34-1	724281	720275	724906	723154	0.35	cps
Terbium	159-1	25916590	30716600	31533681	29388957	10.33	cps
Terbium	159-2	10371242	10409473	10400221	10393646	0.19	cps
Thallium	203-1	2850	2884	2744	2826	2.59	cps
Thallium	205-1	7072	6548	6929	6850	3.95	cps
Tin	118-1	32742	32519	33177	32813	1.02	cps
Titanium	47-1	2549678	2645736	2583503	2592972	1.88	cps
Uranium	238-1	84925	83958	83951	84278	0.66	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-06	Instrumnet Name :	P8
Client Sample ID :	MJNKM6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:01:44	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	200471	203702	201900	202024	0.80	cps
Ytterbium	172-1	10204	10204	9967	10125	1.35	cps
Ytterbium	172-2	4267	4084	4114	4155	2.37	cps
Ytterbium	176-1	8840	9207	10074	9373	6.76	cps
Ytterbium	176-2	3204	3080	3357	3214	4.31	cps
Yttrium	89-1	34919566	40257906	42166453	39114642	9.60	cps
Yttrium	89-2	3156950	3115783	3113020	3128584	0.79	cps
Zinc	66-2	52647	53152	51925	52575	1.17	cps
Zirconium	90-1	177571	177589	177554	177571	0.01	cps
Zirconium	91-1	39546	39834	40994	40125	1.91	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	910451	896238	897244	901311	0.88	cps
Antimony	121-1	1413493	1410183	1435108	1419595	0.95	cps
Arsenic	75-2	65093	65300	64815	65069	0.37	cps
Barium	135-1	610649	614913	626614	617392	1.34	cps
Barium	137-1	1067219	1075098	1064021	1068779	0.53	cps
Beryllium	9-1	3524	3390	3419	3444	2.05	cps
Bismuth	209-1	17597928	18354539	18149125	18033864	2.17	cps
Bismuth	209-2	7582360	7612420	7554113	7582964	0.38	cps
Bromine	81-1	53599	56359	57002	55653	3.25	cps
Cadmium	108-1	953	977	967	966	1.21	cps
Cadmium	106-1	13240	14287	14134	13887	4.07	cps
Cadmium	111-1	16890	17200	17463	17184	1.67	cps
Calcium	43-1	2159701	2165722	2138497	2154640	0.66	cps
Calcium	44-1	34982727	35323944	34367311	34891328	1.39	cps
Carbon	12-1	7132679	7117977	7340882	7197180	1.73	cps
Carbon	12-2	46594	46018	45985	46199	0.74	cps
Chlorine	35-1	195924170	204429350	212710797	204354773	4.11	cps
Chlorine	35-2	901976	894924	907273	901391	0.69	cps
Chromium	52-2	159192	161651	162400	161081	1.04	cps
Cobalt	59-2	284726	282811	281802	283113	0.52	cps
Copper	63-2	8084610	8107998	7904825	8032478	1.38	cps
Dysprosium	156-1	50780	50555	50291	50542	0.48	cps
Dysprosium	156-2	16918	16864	16837	16873	0.24	cps
Erbium	164-1	40595	41250	41775	41207	1.43	cps
Erbium	164-2	13961	13877	14485	14108	2.33	cps
Gadolinium	160-1	46119	46380	46527	46342	0.45	cps
Gadolinium	160-2	19291	19361	19645	19432	0.96	cps
Holmium	165-1	30844939	30813386	31396233	31018186	1.06	cps
Holmium	165-2	10828426	10843647	10739172	10803748	0.52	cps
Indium	115-1	25522718	26426236	25980053	25976336	1.74	cps
Indium	115-2	2752993	2775612	2733133	2753913	0.77	cps
Iron	54-2	6909195	6881034	6835441	6875223	0.54	cps
Iron	56-2	124726728	125643325	124654091	125008048	0.44	cps
Iron	57-2	3147273	3174936	3194649	3172286	0.75	cps
Krypton	83-1	533	630	590	584	8.31	cps
Lead	206-1	5119990	5180012	5202065	5167356	0.82	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4447289	4406363	4479813	4444488	0.83	cps
Lead	208-1	20112418	20287949	20290217	20230195	0.50	cps
Lithium	6-1	10471881	10267458	10140327	10293222	1.63	cps
Magnesium	24-2	2012867	1999180	2018029	2010025	0.48	cps
Manganese	55-2	470238	471328	469442	470336	0.20	cps
Molybdenum	94-1	134404	131942	136431	134259	1.67	cps
Molybdenum	95-1	70812	69948	71760	70840	1.28	cps
Molybdenum	96-1	91139	92814	90777	91577	1.19	cps
Molybdenum	97-1	43083	44799	43458	43780	2.06	cps
Molybdenum	98-1	110294	111957	111309	111187	0.75	cps
Neodymium	150-1	78602	80741	78783	79375	1.49	cps
Neodymium	150-2	20042	19761	19371	19725	1.71	cps
Nickel	60-2	65443	67817	66501	66587	1.79	cps
Phosphorus	31-2	5805	5584	5434	5608	3.32	cps
Potassium	39-2	435552	437607	435563	436241	0.27	cps
Rhodium	103-1	23882144	24471295	24460050	24271163	1.39	cps
Rhodium	103-2	9333073	9584116	9291154	9402781	1.68	cps
Scandium	45-1	19770571	20444279	20403410	20206087	1.87	cps
Scandium	45-2	397618	394788	392954	395120	0.59	cps
Selenium	82-1	348	188	328	288	30.25	cps
Selenium	77-2	133	77	87	99	30.59	cps
Selenium	78-2	73	80	80	78	4.95	cps
Silicon	28-1	16826271	17204491	17725394	17252052	2.62	cps
Silver	107-1	77738	77915	80775	78809	2.16	cps
Silver	109-1	74543	75274	75144	74987	0.52	cps
Sodium	23-2	5626135	5621645	5540858	5596213	0.86	cps
Strontium	86-1	1744203	1761423	1735860	1747162	0.75	cps
Strontium	88-1	14871655	15037614	14965439	14958236	0.56	cps
Sulfur	34-1	1220330	1208292	1226033	1218218	0.74	cps
Terbium	159-1	30821785	31603985	31325757	31250509	1.27	cps
Terbium	159-2	10456938	10541337	10572615	10523630	0.57	cps
Thallium	203-1	6492	6745	6302	6513	3.42	cps
Thallium	205-1	15506	14939	15443	15296	2.03	cps
Tin	118-1	460880	464247	468426	464517	0.81	cps
Titanium	47-1	2284424	2250850	2202130	2245802	1.84	cps
Uranium	238-1	174670	174101	173316	174029	0.39	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-07	Instrumnet Name :	P8
Client Sample ID :	MJNKP8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:04:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	177993	177861	175604	177152	0.76	cps
Ytterbium	172-1	11578	11782	11732	11697	0.91	cps
Ytterbium	172-2	4888	4751	4651	4763	2.50	cps
Ytterbium	176-1	10798	10694	10765	10752	0.49	cps
Ytterbium	176-2	3734	3941	3684	3786	3.59	cps
Yttrium	89-1	41684975	43306521	43244893	42745463	2.15	cps
Yttrium	89-2	3187462	3239299	3193405	3206722	0.88	cps
Zinc	66-2	1099872	1103935	1099598	1101135	0.22	cps
Zirconium	90-1	259621	267874	267498	264998	1.76	cps
Zirconium	91-1	56494	58576	59091	58054	2.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	829184	800142	814859	814729	1.78	cps
Antimony	121-1	1121564	1143343	1133961	1132956	0.96	cps
Arsenic	75-2	55288	53862	53163	54104	2.00	cps
Barium	135-1	536299	551187	547255	544914	1.42	cps
Barium	137-1	937808	959198	943414	946807	1.17	cps
Beryllium	9-1	3206	3193	3182	3194	0.37	cps
Bismuth	209-1	18631956	16474171	18268406	17791511	6.49	cps
Bismuth	209-2	6802242	8081097	8605184	7829508	11.85	cps
Bromine	81-1	47179	49330	49761	48757	2.84	cps
Cadmium	108-1	920	973	913	936	3.52	cps
Cadmium	106-1	13090	12859	13607	13185	2.90	cps
Cadmium	111-1	15217	15309	15504	15343	0.95	cps
Calcium	43-1	2499104	2515894	2545996	2520331	0.94	cps
Calcium	44-1	41452453	41671774	41175154	41433127	0.60	cps
Carbon	12-1	6454201	6330376	6540156	6441577	1.64	cps
Carbon	12-2	41622	41696	42973	42097	1.80	cps
Chlorine	35-1	215933303	223495897	229958817	223129339	3.15	cps
Chlorine	35-2	985624	972598	980022	979415	0.67	cps
Chromium	52-2	153575	152227	153298	153033	0.47	cps
Cobalt	59-2	252363	249066	249430	250287	0.72	cps
Copper	63-2	6669127	6578982	6606887	6618332	0.70	cps
Dysprosium	156-1	47758	48742	49464	48655	1.76	cps
Dysprosium	156-2	16163	15820	15659	15881	1.62	cps
Erbium	164-1	39268	40124	40829	40074	1.95	cps
Erbium	164-2	13507	13340	13467	13438	0.65	cps
Gadolinium	160-1	44959	45002	45380	45114	0.51	cps
Gadolinium	160-2	18630	17879	18737	18415	2.54	cps
Holmium	165-1	30944411	27342160	30957635	29748069	7.00	cps
Holmium	165-2	9730825	11529701	12591135	11283887	12.81	cps
Indium	115-1	25959846	24102132	26237420	25433133	4.56	cps
Indium	115-2	2454502	2867449	3153203	2825051	12.43	cps
Iron	54-2	6126295	5963144	5911687	6000376	1.87	cps
Iron	56-2	110616632	109197928	108832405	109548988	0.86	cps
Iron	57-2	2832584	2818230	2762325	2804380	1.32	cps
Krypton	83-1	593	503	583	560	8.81	cps
Lead	206-1	4339317	4315434	4423968	4359573	1.31	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3812893	3710947	3703847	3742562	1.63	cps
Lead	208-1	17241577	17019241	17068432	17109750	0.68	cps
Lithium	6-1	10571802	9455026	10541984	10189604	6.24	cps
Magnesium	24-2	1825036	1818872	1804114	1816007	0.59	cps
Manganese	55-2	455812	442030	438450	445430	2.06	cps
Molybdenum	94-1	116292	117323	118009	117208	0.74	cps
Molybdenum	95-1	60243	60133	60725	60367	0.52	cps
Molybdenum	96-1	77666	80847	80743	79752	2.27	cps
Molybdenum	97-1	37019	38032	37688	37580	1.37	cps
Molybdenum	98-1	96127	97449	96684	96753	0.69	cps
Neodymium	150-1	74404	75997	74418	74940	1.22	cps
Neodymium	150-2	18516	18366	18042	18308	1.32	cps
Nickel	60-2	64492	62664	61884	63013	2.12	cps
Phosphorus	31-2	4431	4367	4521	4440	1.74	cps
Potassium	39-2	403852	396344	400236	400144	0.94	cps
Rhodium	103-1	23593288	21682964	24154595	23143616	5.60	cps
Rhodium	103-2	8528172	10018483	10929522	9825392	12.34	cps
Scandium	45-1	20258095	18622307	20396631	19759011	4.99	cps
Scandium	45-2	352378	421460	460042	411293	13.26	cps
Selenium	82-1	103	270	153	175	48.76	cps
Selenium	77-2	97	120	100	106	11.95	cps
Selenium	78-2	83	70	83	79	9.76	cps
Silicon	28-1	16394132	16114733	16323833	16277566	0.89	cps
Silver	107-1	56067	57201	57700	56989	1.47	cps
Silver	109-1	55729	56438	54347	55505	1.92	cps
Sodium	23-2	5240562	5155177	5262675	5219472	1.09	cps
Strontium	86-1	1962048	1970629	1959235	1963971	0.30	cps
Strontium	88-1	16416513	16857834	16760746	16678364	1.39	cps
Sulfur	34-1	1180244	1161170	1167110	1169508	0.83	cps
Terbium	159-1	30578520	28454374	31566937	30199943	5.27	cps
Terbium	159-2	9301274	11235969	12375829	10971024	14.17	cps
Thallium	203-1	5735	5601	5721	5686	1.29	cps
Thallium	205-1	13704	13561	13908	13724	1.27	cps
Tin	118-1	391222	406368	397405	398332	1.91	cps
Titanium	47-1	2203163	2228668	2217989	2216607	0.58	cps
Uranium	238-1	166120	165550	165121	165597	0.30	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-08	Instrumnet Name :	P8
Client Sample ID :	MJNKP9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:08:02	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	167346	162510	163071	164309	1.61	cps
Ytterbium	172-1	11191	11225	11111	11176	0.52	cps
Ytterbium	172-2	4561	4351	4487	4466	2.39	cps
Ytterbium	176-1	10494	10611	10601	10569	0.61	cps
Ytterbium	176-2	3357	3761	3697	3605	6.02	cps
Yttrium	89-1	42887849	40098729	42962157	41982912	3.89	cps
Yttrium	89-2	2855734	3385438	3689783	3310318	12.75	cps
Zinc	66-2	936585	916492	916252	923109	1.26	cps
Zirconium	90-1	235032	241439	238979	238483	1.36	cps
Zirconium	91-1	52148	53131	52532	52604	0.94	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	764064	757149	761821	761011	0.46	cps
Antimony	121-1	528550	531708	526997	529085	0.45	cps
Arsenic	75-2	26542	26488	26171	26400	0.76	cps
Barium	135-1	315558	320670	315841	317356	0.91	cps
Barium	137-1	542386	559892	554353	552210	1.62	cps
Beryllium	9-1	2883	2794	2803	2827	1.74	cps
Bismuth	209-1	18192651	18006704	18039030	18079462	0.55	cps
Bismuth	209-2	7404819	7347045	7250183	7334016	1.07	cps
Bromine	81-1	28803	30563	31232	30199	4.15	cps
Cadmium	108-1	597	660	650	636	5.36	cps
Cadmium	106-1	13330	13407	13150	13295	0.99	cps
Cadmium	111-1	12620	12643	12317	12527	1.45	cps
Calcium	43-1	3240697	3267167	3303527	3270464	0.96	cps
Calcium	44-1	53062978	52647941	53717739	53142886	1.01	cps
Carbon	12-1	5565437	5615027	5553825	5578096	0.58	cps
Carbon	12-2	35887	36201	35804	35964	0.58	cps
Chlorine	35-1	195571037	206424617	208320290	203438648	3.38	cps
Chlorine	35-2	887551	888472	893107	889710	0.33	cps
Chromium	52-2	146875	148457	147522	147618	0.54	cps
Cobalt	59-2	154219	152730	153390	153446	0.49	cps
Copper	63-2	3120201	3139853	3114380	3124811	0.43	cps
Dysprosium	156-1	46507	46102	46962	46524	0.92	cps
Dysprosium	156-2	14805	15065	15112	14994	1.10	cps
Erbium	164-1	38272	38930	39198	38800	1.23	cps
Erbium	164-2	12853	13070	12726	12883	1.35	cps
Gadolinium	160-1	42581	41705	43006	42431	1.56	cps
Gadolinium	160-2	17618	17308	17598	17508	0.99	cps
Holmium	165-1	30247454	30402446	30676707	30442202	0.71	cps
Holmium	165-2	10437697	10507279	10394621	10446532	0.54	cps
Indium	115-1	26439008	26309524	26386497	26378343	0.25	cps
Indium	115-2	2658740	2630262	2684542	2657848	1.02	cps
Iron	54-2	4544298	4500607	4500369	4515091	0.56	cps
Iron	56-2	83289407	82642829	82111112	82681116	0.71	cps
Iron	57-2	2100102	2123084	2093006	2105397	0.75	cps
Krypton	83-1	463	563	630	552	15.19	cps
Lead	206-1	2196791	2191836	2141012	2176546	1.42	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1851881	1887745	1839241	1859623	1.35	cps
Lead	208-1	8548209	8649181	8420765	8539385	1.34	cps
Lithium	6-1	10387120	10284455	10055513	10242363	1.66	cps
Magnesium	24-2	1758743	1782869	1788412	1776675	0.89	cps
Manganese	55-2	442459	443472	442556	442829	0.13	cps
Molybdenum	94-1	90294	87563	89058	88972	1.54	cps
Molybdenum	95-1	29775	29508	29962	29749	0.77	cps
Molybdenum	96-1	43511	44203	43879	43865	0.79	cps
Molybdenum	97-1	18055	18379	18072	18169	1.00	cps
Molybdenum	98-1	46635	47568	48173	47459	1.63	cps
Neodymium	150-1	67639	69549	70936	69375	2.39	cps
Neodymium	150-2	17291	17552	16897	17247	1.91	cps
Nickel	60-2	65885	65858	66093	65945	0.19	cps
Phosphorus	31-2	4174	4401	4064	4213	4.08	cps
Potassium	39-2	317734	316224	315913	316623	0.31	cps
Rhodium	103-1	24439387	23634927	23859917	23978077	1.73	cps
Rhodium	103-2	9171872	9150659	9027229	9116587	0.86	cps
Scandium	45-1	20387860	20481176	20596500	20488512	0.51	cps
Scandium	45-2	385473	386721	384558	385584	0.28	cps
Selenium	82-1	148	1	-30	40	239.02	cps
Selenium	77-2	80	67	103	83	22.27	cps
Selenium	78-2	70	70	97	79	19.52	cps
Silicon	28-1	10221150	11679807	10612753	10837903	6.97	cps
Silver	107-1	25654	26676	26449	26260	2.04	cps
Silver	109-1	24959	25220	25600	25260	1.28	cps
Sodium	23-2	3219226	3273784	3280410	3257807	1.03	cps
Strontium	86-1	2754488	2783568	2765183	2767747	0.53	cps
Strontium	88-1	23341632	23150826	23483295	23325251	0.72	cps
Sulfur	34-1	969124	978454	956932	968170	1.11	cps
Terbium	159-1	31292555	30985123	30806100	31027926	0.79	cps
Terbium	159-2	10313887	10350056	10323540	10329161	0.18	cps
Thallium	203-1	3914	3701	3761	3792	2.90	cps
Thallium	205-1	9000	9040	9133	9058	0.76	cps
Tin	118-1	198860	199614	199332	199268	0.19	cps
Titanium	47-1	2012400	2028452	2070543	2037132	1.47	cps
Uranium	238-1	138205	137915	135288	137136	1.17	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-09	Instrumnet Name :	P8
Client Sample ID :	MJNKQ0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:11:10	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	155764	154875	155212	155283	0.29	cps
Ytterbium	172-1	10921	11035	11021	10992	0.56	cps
Ytterbium	172-2	4494	4734	4544	4591	2.76	cps
Ytterbium	176-1	10481	10387	10738	10535	1.72	cps
Ytterbium	176-2	3470	3440	3450	3454	0.44	cps
Yttrium	89-1	43824361	42492707	42925231	43080766	1.58	cps
Yttrium	89-2	3135626	3093194	3039293	3089371	1.56	cps
Zinc	66-2	452640	449014	449637	450430	0.43	cps
Zirconium	90-1	206476	204956	204638	205357	0.48	cps
Zirconium	91-1	45190	44568	44166	44641	1.15	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	941873	926936	920689	929833	1.17	cps
Antimony	121-1	86957	87055	86686	86899	0.22	cps
Arsenic	75-2	4954	4768	4741	4821	2.41	cps
Barium	135-1	198688	201389	200945	200340	0.72	cps
Barium	137-1	347514	344678	344485	345559	0.49	cps
Beryllium	9-1	2614	2503	2504	2541	2.51	cps
Bismuth	209-1	17800958	18434105	18114336	18116466	1.75	cps
Bismuth	209-2	6160991	7390430	7568660	7040027	10.89	cps
Bromine	81-1	17307	17614	17965	17629	1.87	cps
Cadmium	108-1	393	353	380	376	5.42	cps
Cadmium	106-1	12779	13363	12996	13046	2.26	cps
Cadmium	111-1	10104	10470	10368	10314	1.83	cps
Calcium	43-1	1485659	1468024	1493545	1482410	0.88	cps
Calcium	44-1	24423456	24365644	24322401	24370500	0.21	cps
Carbon	12-1	4832744	4830399	4932543	4865229	1.20	cps
Carbon	12-2	31440	31714	31410	31522	0.53	cps
Chlorine	35-1	207679404	215132230	216473643	213095092	2.22	cps
Chlorine	35-2	946727	939843	954271	946947	0.76	cps
Chromium	52-2	182870	178262	179761	180298	1.30	cps
Cobalt	59-2	111637	109940	109406	110328	1.06	cps
Copper	63-2	565694	571673	560790	566052	0.96	cps
Dysprosium	156-1	52536	51489	52777	52267	1.31	cps
Dysprosium	156-2	18249	17775	17608	17878	1.86	cps
Erbium	164-1	46454	47240	45655	46450	1.71	cps
Erbium	164-2	15142	15659	15122	15308	1.99	cps
Gadolinium	160-1	49578	51214	50643	50478	1.64	cps
Gadolinium	160-2	21000	21434	21090	21175	1.08	cps
Holmium	165-1	29183322	31116867	30643630	30314606	3.32	cps
Holmium	165-2	8947887	10772494	10664214	10128198	10.11	cps
Indium	115-1	25095547	26312906	26776916	26061789	3.33	cps
Indium	115-2	2217095	2737722	2729784	2561534	11.65	cps
Iron	54-2	4303115	4315159	4070536	4229603	3.26	cps
Iron	56-2	78452619	78093692	78219434	78255248	0.23	cps
Iron	57-2	2015810	2014587	1994149	2008182	0.61	cps
Krypton	83-1	553	660	600	604	8.85	cps
Lead	206-1	355310	354933	350958	353733	0.68	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	304441	304012	301332	303262	0.56	cps
Lead	208-1	1400039	1397876	1394685	1397533	0.19	cps
Lithium	6-1	9690269	10209678	9892490	9930813	2.64	cps
Magnesium	24-2	1971958	1960551	1940249	1957586	0.82	cps
Manganese	55-2	766740	764075	747684	759500	1.36	cps
Molybdenum	94-1	72089	72853	73223	72722	0.80	cps
Molybdenum	95-1	8116	8056	7912	8028	1.30	cps
Molybdenum	96-1	20068	20482	20499	20350	1.20	cps
Molybdenum	97-1	4898	4864	4981	4914	1.22	cps
Molybdenum	98-1	12289	12506	12286	12360	1.02	cps
Neodymium	150-1	76603	76660	77000	76754	0.28	cps
Neodymium	150-2	19851	19725	19484	19687	0.95	cps
Nickel	60-2	90770	91569	89224	90521	1.32	cps
Phosphorus	31-2	4864	4664	4437	4655	4.59	cps
Potassium	39-2	256563	254252	252415	254410	0.82	cps
Rhodium	103-1	23434772	24842824	24641001	24306199	3.13	cps
Rhodium	103-2	7765294	9581123	9600341	8982253	11.73	cps
Scandium	45-1	19816183	20539981	20589791	20315319	2.13	cps
Scandium	45-2	328261	400382	401247	376630	11.12	cps
Selenium	82-1	-85	-122	-15	-74	-72.98	cps
Selenium	77-2	147	113	130	130	12.82	cps
Selenium	78-2	77	73	93	81	13.21	cps
Silicon	28-1	8216726	7906271	8643716	8255571	4.48	cps
Silver	107-1	4514	4688	4447	4550	2.72	cps
Silver	109-1	4204	3957	3974	4045	3.41	cps
Sodium	23-2	760956	768249	759139	762781	0.63	cps
Strontium	86-1	1125494	1123924	1124243	1124554	0.07	cps
Strontium	88-1	10209230	9964238	10154978	10109482	1.27	cps
Sulfur	34-1	747397	743550	735142	742030	0.84	cps
Terbium	159-1	29500090	31724439	31605980	30943503	4.04	cps
Terbium	159-2	8683488	10505789	10654478	9947918	11.03	cps
Thallium	203-1	1987	1690	1894	1857	8.17	cps
Thallium	205-1	3997	4384	4354	4245	5.07	cps
Tin	118-1	39988	40750	40677	40472	1.04	cps
Titanium	47-1	2327295	2264657	2270939	2287630	1.51	cps
Uranium	238-1	74557	74359	73182	74033	1.00	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-10	Instrumnet Name :	P8
Client Sample ID :	MJNKQ1	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:14:15	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	193622	198470	194937	195676	1.28	cps
Ytterbium	172-1	12573	12436	12453	12487	0.60	cps
Ytterbium	172-2	5148	5074	5071	5098	0.85	cps
Ytterbium	176-1	11448	11325	11225	11333	0.99	cps
Ytterbium	176-2	3894	3907	3724	3842	2.66	cps
Yttrium	89-1	42055433	43969304	43668949	43231229	2.38	cps
Yttrium	89-2	2615011	3224168	3227480	3022220	11.67	cps
Zinc	66-2	103028	100892	100479	101466	1.35	cps
Zirconium	90-1	194027	190788	192578	192464	0.84	cps
Zirconium	91-1	41508	41736	41983	41742	0.57	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1132208	1124035	1109819	1122020	1.01	cps
Antimony	121-1	10407	10487	10778	10558	1.85	cps
Arsenic	75-2	1143	1133	1037	1105	5.33	cps
Barium	135-1	213645	215500	217963	215703	1.00	cps
Barium	137-1	362464	374681	371952	369699	1.73	cps
Beryllium	9-1	2235	2244	2318	2266	1.99	cps
Bismuth	209-1	18568025	18140193	17774436	18160884	2.19	cps
Bismuth	209-2	7445878	7360883	7446174	7417645	0.66	cps
Bromine	81-1	15389	15569	15866	15608	1.54	cps
Cadmium	108-1	420	377	310	369	15.02	cps
Cadmium	106-1	13613	13030	13307	13317	2.19	cps
Cadmium	111-1	9605	9210	9378	9398	2.11	cps
Calcium	43-1	506965	521930	509850	512915	1.55	cps
Calcium	44-1	8460403	8587142	8379516	8475687	1.23	cps
Carbon	12-1	4942148	4847628	4965283	4918353	1.27	cps
Carbon	12-2	32533	32175	32012	32240	0.83	cps
Chlorine	35-1	198144404	202461077	205150750	201918744	1.75	cps
Chlorine	35-2	880097	879692	879303	879697	0.05	cps
Chromium	52-2	160304	162276	161321	161300	0.61	cps
Cobalt	59-2	102163	103153	101264	102193	0.92	cps
Copper	63-2	269560	270931	268315	269602	0.49	cps
Dysprosium	156-1	50779	49796	51017	50531	1.28	cps
Dysprosium	156-2	16684	16914	16894	16831	0.76	cps
Erbium	164-1	43508	44655	44718	44294	1.54	cps
Erbium	164-2	14718	14578	15099	14798	1.82	cps
Gadolinium	160-1	48341	48541	48254	48379	0.31	cps
Gadolinium	160-2	20162	19364	20032	19853	2.16	cps
Holmium	165-1	31250426	31118666	30541864	30970319	1.22	cps
Holmium	165-2	10513338	10571283	10605844	10563488	0.44	cps
Indium	115-1	26714669	25780162	26639814	26378215	1.97	cps
Indium	115-2	2624535	2635524	2643712	2634590	0.37	cps
Iron	54-2	5146616	5199087	5201163	5182289	0.60	cps
Iron	56-2	95023065	92909132	93939349	93957182	1.13	cps
Iron	57-2	2445834	2394080	2386388	2408767	1.34	cps
Krypton	83-1	607	577	537	573	6.13	cps
Lead	206-1	111666	115324	112950	113314	1.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	95015	94841	94505	94787	0.27	cps
Lead	208-1	437424	441936	438295	439218	0.54	cps
Lithium	6-1	10665317	10002657	10149540	10272505	3.39	cps
Magnesium	24-2	2616418	2638376	2600079	2618291	0.73	cps
Manganese	55-2	722015	717724	718369	719370	0.32	cps
Molybdenum	94-1	99460	91327	89550	93446	5.65	cps
Molybdenum	95-1	3097	3307	3277	3227	3.52	cps
Molybdenum	96-1	19526	18546	18262	18778	3.53	cps
Molybdenum	97-1	1850	2117	1877	1948	7.54	cps
Molybdenum	98-1	4968	4681	5018	4889	3.72	cps
Neodymium	150-1	74495	75333	75055	74961	0.57	cps
Neodymium	150-2	19107	18563	19224	18965	1.86	cps
Nickel	60-2	99962	101075	100468	100502	0.55	cps
Phosphorus	31-2	4641	4554	4311	4502	3.80	cps
Potassium	39-2	303000	302606	299506	301704	0.63	cps
Rhodium	103-1	25745650	24313024	24452300	24836991	3.18	cps
Rhodium	103-2	9358470	9304509	9285675	9316218	0.41	cps
Scandium	45-1	20980531	20722293	20231976	20644933	1.84	cps
Scandium	45-2	395564	397790	391398	394918	0.82	cps
Selenium	82-1	-211	-71	-77	-120	-66.07	cps
Selenium	77-2	93	113	120	109	12.75	cps
Selenium	78-2	83	77	100	87	13.87	cps
Silicon	28-1	7476238	7926793	7603461	7668831	3.03	cps
Silver	107-1	1667	1603	1690	1653	2.71	cps
Silver	109-1	1150	1250	1120	1173	5.80	cps
Sodium	23-2	447089	445801	447489	446793	0.20	cps
Strontium	86-1	359288	356331	360155	358591	0.56	cps
Strontium	88-1	3237902	3194648	3198369	3210307	0.75	cps
Sulfur	34-1	638291	620293	624098	627561	1.51	cps
Terbium	159-1	32169279	31937387	31531145	31879270	1.01	cps
Terbium	159-2	10513179	10231696	10270620	10338498	1.48	cps
Thallium	203-1	1320	1283	1363	1322	3.03	cps
Thallium	205-1	3137	3364	3367	3289	4.01	cps
Tin	118-1	19073	18710	19551	19111	2.21	cps
Titanium	47-1	2226071	2232130	2242544	2233582	0.37	cps
Uranium	238-1	30156	30076	30269	30167	0.32	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-11	Instrumnet Name :	P8
Client Sample ID :	MJNKQ2	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:17:28	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	211023	207639	205886	208183	1.25	cps
Ytterbium	172-1	12322	12499	12196	12339	1.24	cps
Ytterbium	172-2	5385	4941	5221	5182	4.33	cps
Ytterbium	176-1	11388	11622	11752	11587	1.59	cps
Ytterbium	176-2	4014	3994	4247	4085	3.45	cps
Yttrium	89-1	45232893	42897516	42617098	43582502	3.30	cps
Yttrium	89-2	3130099	3132962	3098587	3120550	0.61	cps
Zinc	66-2	44232	45459	44697	44796	1.38	cps
Zirconium	90-1	246532	249935	250712	249059	0.89	cps
Zirconium	91-1	57069	53686	56617	55791	3.29	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	698863	693608	692873	695115	0.47	cps
Antimony	121-1	334655	335629	340201	336829	0.88	cps
Arsenic	75-2	21827	22047	22201	22025	0.85	cps
Barium	135-1	194337	198979	197212	196843	1.19	cps
Barium	137-1	333761	342315	339761	338612	1.30	cps
Beryllium	9-1	2347	2443	2517	2436	3.49	cps
Bismuth	209-1	17879292	17804827	18284588	17989569	1.44	cps
Bismuth	209-2	7441719	7367387	7433006	7414037	0.55	cps
Bromine	81-1	43002	45039	45340	44460	2.86	cps
Cadmium	108-1	550	580	610	580	5.17	cps
Cadmium	106-1	13316	13317	13006	13213	1.36	cps
Cadmium	111-1	12467	12449	12331	12416	0.59	cps
Calcium	43-1	1417302	1396063	1418321	1410562	0.89	cps
Calcium	44-1	23329096	23043728	23344653	23239159	0.73	cps
Carbon	12-1	7032831	7100715	7271413	7134986	1.72	cps
Carbon	12-2	46263	46584	45667	46171	1.01	cps
Chlorine	35-1	201268850	209478924	213953683	208233819	3.09	cps
Chlorine	35-2	916365	922637	921841	920281	0.37	cps
Chromium	52-2	137341	137379	140472	138397	1.30	cps
Cobalt	59-2	84616	84706	83443	84255	0.84	cps
Copper	63-2	6046890	6054101	6067532	6056174	0.17	cps
Dysprosium	156-1	45992	47243	46631	46622	1.34	cps
Dysprosium	156-2	14648	14748	15115	14837	1.66	cps
Erbium	164-1	35765	36450	35968	36061	0.98	cps
Erbium	164-2	11919	11815	11915	11883	0.49	cps
Gadolinium	160-1	41488	42615	43223	42442	2.07	cps
Gadolinium	160-2	17391	17255	17278	17308	0.42	cps
Holmium	165-1	31517049	30961341	30591231	31023207	1.50	cps
Holmium	165-2	10666504	10603331	10428221	10566019	1.17	cps
Indium	115-1	26190550	26180613	26114129	26161764	0.16	cps
Indium	115-2	2729627	2658799	2668650	2685692	1.43	cps
Iron	54-2	3507298	3387856	3492877	3462677	1.88	cps
Iron	56-2	62447059	61561636	62209919	62072871	0.74	cps
Iron	57-2	1604212	1601058	1560247	1588506	1.54	cps
Krypton	83-1	417	523	590	510	17.14	cps
Lead	206-1	2674928	2707187	2703193	2695103	0.65	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2326407	2340849	2262169	2309809	1.81	cps
Lead	208-1	10474517	10576812	10467321	10506217	0.58	cps
Lithium	6-1	10454509	10311008	10405410	10390309	0.70	cps
Magnesium	24-2	1288394	1286627	1301105	1292042	0.61	cps
Manganese	55-2	271566	270513	268240	270106	0.63	cps
Molybdenum	94-1	97727	99379	98301	98469	0.85	cps
Molybdenum	95-1	59989	60374	60481	60281	0.43	cps
Molybdenum	96-1	75045	74512	73986	74514	0.71	cps
Molybdenum	97-1	36475	36882	36892	36750	0.65	cps
Molybdenum	98-1	95472	95113	95640	95408	0.28	cps
Neodymium	150-1	73473	74187	73087	73582	0.76	cps
Neodymium	150-2	18029	17855	17929	17938	0.49	cps
Nickel	60-2	53443	51975	53236	52885	1.50	cps
Phosphorus	31-2	4888	4981	4874	4914	1.18	cps
Potassium	39-2	269257	267355	265941	267518	0.62	cps
Rhodium	103-1	25130951	24383096	24370044	24628030	1.77	cps
Rhodium	103-2	9372787	9345203	9212216	9310069	0.92	cps
Scandium	45-1	20274881	20119867	20548585	20314444	1.07	cps
Scandium	45-2	389333	388867	387188	388463	0.29	cps
Selenium	82-1	244	141	101	162	45.46	cps
Selenium	77-2	103	77	113	98	19.38	cps
Selenium	78-2	70	77	103	83	21.16	cps
Silicon	28-1	10359830	10331469	11379279	10690192	5.58	cps
Silver	107-1	42278	42599	42850	42576	0.67	cps
Silver	109-1	39169	39958	40382	39836	1.55	cps
Sodium	23-2	5325646	5372225	5389461	5362444	0.62	cps
Strontium	86-1	1335078	1320667	1329400	1328382	0.55	cps
Strontium	88-1	11884435	11992371	11900572	11925792	0.49	cps
Sulfur	34-1	1294488	1295119	1299897	1296501	0.23	cps
Terbium	159-1	31520173	31754431	31282438	31519014	0.75	cps
Terbium	159-2	10522121	10222608	10258959	10334563	1.58	cps
Thallium	203-1	5385	4931	5304	5207	4.65	cps
Thallium	205-1	12593	12686	12559	12613	0.52	cps
Tin	118-1	183776	187725	187929	186476	1.26	cps
Titanium	47-1	2498459	2489398	2518798	2502218	0.60	cps
Uranium	238-1	119747	122665	122190	121534	1.29	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-12	Instrumnet Name :	P8
Client Sample ID :	MJNKQ8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:20:40	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	154127	155939	157119	155728	0.97	cps
Ytterbium	172-1	9220	8980	9037	9079	1.38	cps
Ytterbium	172-2	3704	3767	3637	3703	1.76	cps
Ytterbium	176-1	9217	9150	9243	9203	0.52	cps
Ytterbium	176-2	2860	3017	3200	3026	5.63	cps
Yttrium	89-1	42726569	42606142	42416014	42582908	0.37	cps
Yttrium	89-2	3144015	3116183	3057837	3106012	1.42	cps
Zinc	66-2	300103	306559	304884	303849	1.10	cps
Zirconium	90-1	179569	184934	182216	182239	1.47	cps
Zirconium	91-1	39998	39958	40465	40140	0.70	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1082547	1076717	1069737	1076334	0.60	cps
Antimony	121-1	909341	919978	919348	916222	0.65	cps
Arsenic	75-2	66844	66908	66466	66739	0.36	cps
Barium	135-1	258488	260988	263935	261137	1.04	cps
Barium	137-1	447090	451882	449349	449440	0.53	cps
Beryllium	9-1	3414	3364	3369	3382	0.81	cps
Bismuth	209-1	18570136	18672999	16179283	17807473	7.92	cps
Bismuth	209-2	7562116	7381008	7510926	7484683	1.25	cps
Bromine	81-1	43303	44150	45437	44297	2.43	cps
Cadmium	108-1	793	807	823	808	1.86	cps
Cadmium	106-1	13286	13430	11618	12778	7.88	cps
Cadmium	111-1	13766	13914	12461	13380	5.98	cps
Calcium	43-1	483150	481069	485019	483079	0.41	cps
Calcium	44-1	7946493	7914392	7681224	7847370	1.84	cps
Carbon	12-1	8335623	8287801	8443589	8355671	0.96	cps
Carbon	12-2	53801	54805	55036	54547	1.20	cps
Chlorine	35-1	213798163	223229270	227527877	221518437	3.17	cps
Chlorine	35-2	969989	971913	971981	971294	0.12	cps
Chromium	52-2	179005	177213	177766	177995	0.52	cps
Cobalt	59-2	116105	117469	116249	116608	0.64	cps
Copper	63-2	15314568	15530130	15517219	15453972	0.78	cps
Dysprosium	156-1	54732	54594	55779	55035	1.18	cps
Dysprosium	156-2	17575	18116	17745	17812	1.55	cps
Erbium	164-1	46270	45267	46136	45891	1.19	cps
Erbium	164-2	14845	15536	15025	15135	2.37	cps
Gadolinium	160-1	51599	50612	51506	51239	1.06	cps
Gadolinium	160-2	20953	20790	20960	20901	0.46	cps
Holmium	165-1	31114996	31501857	26695931	29770928	8.97	cps
Holmium	165-2	10632572	10492262	10734665	10619833	1.15	cps
Indium	115-1	26617980	26474533	23119820	25404111	7.79	cps
Indium	115-2	2679464	2646487	2750204	2692052	1.97	cps
Iron	54-2	5888027	5914968	6016899	5939965	1.14	cps
Iron	56-2	108708315	109309275	111450578	109822723	1.31	cps
Iron	57-2	2805324	2734082	2777757	2772388	1.30	cps
Krypton	83-1	543	613	563	573	6.29	cps
Lead	206-1	4536615	4524536	4602144	4554431	0.92	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3879807	3828435	3888716	3865653	0.84	cps
Lead	208-1	17742951	17517008	17737487	17665815	0.73	cps
Lithium	6-1	10518602	10297173	9423621	10079799	5.74	cps
Magnesium	24-2	1671495	1663058	1690523	1675025	0.84	cps
Manganese	55-2	372361	371424	373376	372387	0.26	cps
Molybdenum	94-1	165188	166466	169439	167031	1.31	cps
Molybdenum	95-1	115239	115764	118648	116551	1.57	cps
Molybdenum	96-1	140946	142102	142324	141791	0.52	cps
Molybdenum	97-1	71640	71215	70742	71199	0.63	cps
Molybdenum	98-1	183156	186992	187091	185746	1.21	cps
Neodymium	150-1	84585	85691	84229	84835	0.90	cps
Neodymium	150-2	20796	20509	20522	20609	0.79	cps
Nickel	60-2	91146	90183	90539	90623	0.54	cps
Phosphorus	31-2	4581	4604	4584	4590	0.28	cps
Potassium	39-2	281338	282265	281025	281543	0.23	cps
Rhodium	103-1	24204873	25005788	21555280	23588647	7.66	cps
Rhodium	103-2	9396818	9259334	9490896	9382349	1.24	cps
Scandium	45-1	20460278	20552459	17933441	19648726	7.56	cps
Scandium	45-2	385231	391187	400445	392288	1.95	cps
Selenium	82-1	485	355	325	388	21.85	cps
Selenium	77-2	130	150	97	126	21.46	cps
Selenium	78-2	87	107	103	99	10.83	cps
Silicon	28-1	12532328	12401618	13116766	12683571	3.00	cps
Silver	107-1	83219	85016	84829	84355	1.17	cps
Silver	109-1	81043	80906	82750	81566	1.26	cps
Sodium	23-2	1601822	1630211	1621798	1617944	0.90	cps
Strontium	86-1	410577	421108	424496	418727	1.73	cps
Strontium	88-1	3771623	3735127	3733258	3746669	0.58	cps
Sulfur	34-1	2251880	2277054	2258385	2262440	0.58	cps
Terbium	159-1	32032398	31592923	27529835	30385052	8.17	cps
Terbium	159-2	10169358	10331606	10655372	10385446	2.38	cps
Thallium	203-1	4988	4911	5014	4971	1.08	cps
Thallium	205-1	11762	11362	11769	11631	2.00	cps
Tin	118-1	555722	560634	571254	562537	1.41	cps
Titanium	47-1	2966006	2972707	2921055	2953256	0.95	cps
Uranium	238-1	156882	159561	158185	158209	0.85	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-13	Instrumnet Name :	P8
Client Sample ID :	MJNL17	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:23:48	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	244465	244408	244363	244412	0.02	cps
Ytterbium	172-1	11822	11969	12056	11949	0.99	cps
Ytterbium	172-2	5021	4824	4858	4901	2.15	cps
Ytterbium	176-1	11605	11182	11031	11273	2.64	cps
Ytterbium	176-2	3837	3854	3847	3846	0.22	cps
Yttrium	89-1	42503676	43269894	37117529	40963700	8.18	cps
Yttrium	89-2	3093494	3034699	3207688	3111960	2.83	cps
Zinc	66-2	262944	261464	259740	261383	0.61	cps
Zirconium	90-1	282993	282089	288423	284502	1.20	cps
Zirconium	91-1	62212	62680	64499	63130	1.91	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	944143	930132	935314	936530	0.76	cps
Antimony	121-1	162342	164053	164179	163525	0.63	cps
Arsenic	75-2	14297	14147	15028	14491	3.25	cps
Barium	135-1	127708	129950	130108	129255	1.04	cps
Barium	137-1	222845	224220	223308	223458	0.31	cps
Beryllium	9-1	2516	2588	2459	2521	2.56	cps
Bismuth	209-1	18151881	18264966	18168142	18194996	0.34	cps
Bismuth	209-2	7442843	7502410	7524605	7489953	0.56	cps
Bromine	81-1	18823	19257	20298	19459	3.90	cps
Cadmium	108-1	543	453	583	527	12.64	cps
Cadmium	106-1	12923	12919	12379	12740	2.46	cps
Cadmium	111-1	10346	10406	10117	10290	1.48	cps
Calcium	43-1	337989	334458	341067	337838	0.98	cps
Calcium	44-1	5670917	5550567	5689463	5636982	1.34	cps
Carbon	12-1	5915695	6018161	5924606	5952821	0.95	cps
Carbon	12-2	37655	38012	38043	37903	0.57	cps
Chlorine	35-1	216581537	221776163	219137150	219164950	1.19	cps
Chlorine	35-2	946627	952252	949662	949513	0.30	cps
Chromium	52-2	129241	131941	129853	130345	1.09	cps
Cobalt	59-2	88889	89177	88902	88989	0.18	cps
Copper	63-2	2979546	2958990	2967313	2968616	0.35	cps
Dysprosium	156-1	57898	58612	59170	58560	1.09	cps
Dysprosium	156-2	19277	19424	19311	19337	0.40	cps
Erbium	164-1	48501	48836	48803	48713	0.38	cps
Erbium	164-2	16564	16961	16514	16679	1.47	cps
Gadolinium	160-1	54280	55933	54179	54798	1.80	cps
Gadolinium	160-2	22205	22539	22432	22392	0.76	cps
Holmium	165-1	30972125	30899068	30336070	30735755	1.13	cps
Holmium	165-2	10568420	10620824	10622154	10603799	0.29	cps
Indium	115-1	26239092	25841338	25592593	25891008	1.26	cps
Indium	115-2	2665854	2664363	2718689	2682969	1.15	cps
Iron	54-2	4444522	4619415	4484585	4516174	2.03	cps
Iron	56-2	82639815	82371419	83790187	82933807	0.91	cps
Iron	57-2	2119993	2140655	2144614	2135087	0.62	cps
Krypton	83-1	663	560	617	613	8.44	cps
Lead	206-1	1332805	1338131	1337949	1336295	0.23	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1153057	1157688	1150397	1153714	0.32	cps
Lead	208-1	5416458	5449665	5405632	5423918	0.42	cps
Lithium	6-1	10519907	10386984	10317497	10408129	0.99	cps
Magnesium	24-2	1547785	1546256	1607709	1567250	2.24	cps
Manganese	55-2	349891	351320	350990	350734	0.21	cps
Molybdenum	94-1	132535	134402	133256	133398	0.71	cps
Molybdenum	95-1	34546	34439	34242	34409	0.45	cps
Molybdenum	96-1	55330	56354	55326	55670	1.06	cps
Molybdenum	97-1	20896	21156	21243	21098	0.86	cps
Molybdenum	98-1	54299	54319	54443	54354	0.14	cps
Neodymium	150-1	88026	87781	88452	88087	0.39	cps
Neodymium	150-2	22042	21908	22185	22045	0.63	cps
Nickel	60-2	74959	74326	73659	74315	0.87	cps
Phosphorus	31-2	4561	4604	4734	4633	1.95	cps
Potassium	39-2	201451	202028	202128	201869	0.18	cps
Rhodium	103-1	24715262	24284610	24458243	24486038	0.88	cps
Rhodium	103-2	9430721	9569204	9399881	9466602	0.95	cps
Scandium	45-1	20317728	20208763	20217281	20247924	0.30	cps
Scandium	45-2	390103	399761	399074	396313	1.36	cps
Selenium	82-1	59	53	-31	27	186.52	cps
Selenium	77-2	110	143	123	126	13.36	cps
Selenium	78-2	97	97	80	91	10.56	cps
Silicon	28-1	9296030	9338474	9558129	9397544	1.50	cps
Silver	107-1	14745	14544	14678	14656	0.70	cps
Silver	109-1	13957	13577	13714	13749	1.40	cps
Sodium	23-2	1171191	1147283	1160624	1159699	1.03	cps
Strontium	86-1	269496	276391	272120	272669	1.28	cps
Strontium	88-1	2426816	2462328	2444555	2444566	0.73	cps
Sulfur	34-1	1006986	1020364	988009	1005120	1.62	cps
Terbium	159-1	31836115	31046265	31395442	31425941	1.26	cps
Terbium	159-2	10305274	10291496	10285437	10294069	0.10	cps
Thallium	203-1	1750	1637	1677	1688	3.41	cps
Thallium	205-1	4121	3991	4124	4078	1.87	cps
Tin	118-1	104968	106252	109178	106799	2.02	cps
Titanium	47-1	2551716	2568258	2544987	2554987	0.47	cps
Uranium	238-1	78762	80274	78507	79181	1.21	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-14	Instrumnet Name :	P8
Client Sample ID :	MJNL18	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:26:53	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	253816	254796	255488	254700	0.33	cps
Ytterbium	172-1	13043	13053	13534	13210	2.12	cps
Ytterbium	172-2	5488	5475	5381	5448	1.07	cps
Ytterbium	176-1	11946	11889	11915	11917	0.24	cps
Ytterbium	176-2	4171	4191	4171	4177	0.28	cps
Yttrium	89-1	42719134	42410903	42316109	42482049	0.50	cps
Yttrium	89-2	3176759	3157898	3162626	3165761	0.31	cps
Zinc	66-2	78432	79253	79079	78921	0.55	cps
Zirconium	90-1	317157	322941	318784	319627	0.93	cps
Zirconium	91-1	71690	72112	70212	71338	1.40	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	852091	862505	857860	857485	0.61	cps
Antimony	121-1	15696	15863	15722	15760	0.57	cps
Arsenic	75-2	3330	3657	3460	3483	4.72	cps
Barium	135-1	94450	94658	93577	94228	0.61	cps
Barium	137-1	162368	164562	162376	163102	0.78	cps
Beryllium	9-1	1821	1847	1856	1841	1.00	cps
Bismuth	209-1	18063754	18173068	18012743	18083188	0.45	cps
Bismuth	209-2	7453073	7041262	7359996	7284777	2.96	cps
Bromine	81-1	15365	15405	16133	15634	2.76	cps
Cadmium	108-1	440	533	403	459	14.61	cps
Cadmium	106-1	12946	12639	12876	12820	1.25	cps
Cadmium	111-1	9274	9061	9304	9213	1.44	cps
Calcium	43-1	303600	298290	298073	299987	1.04	cps
Calcium	44-1	5070394	4964924	5038265	5024528	1.08	cps
Carbon	12-1	4823180	4859571	4761821	4814857	1.03	cps
Carbon	12-2	30559	31577	30979	31038	1.65	cps
Chlorine	35-1	219819477	224410383	228007783	224079214	1.83	cps
Chlorine	35-2	978657	983660	981813	981377	0.26	cps
Chromium	52-2	137045	140003	136080	137709	1.48	cps
Cobalt	59-2	80791	83573	82839	82401	1.75	cps
Copper	63-2	421967	422974	416467	420470	0.83	cps
Dysprosium	156-1	51696	52640	52352	52229	0.93	cps
Dysprosium	156-2	18019	18212	17855	18029	0.99	cps
Erbium	164-1	46705	47421	47394	47173	0.86	cps
Erbium	164-2	15786	16250	15926	15987	1.49	cps
Gadolinium	160-1	50532	50077	50803	50471	0.73	cps
Gadolinium	160-2	20693	21220	21184	21032	1.40	cps
Holmium	165-1	31519341	31258122	30947588	31241684	0.92	cps
Holmium	165-2	10555453	10112910	10388821	10352395	2.16	cps
Indium	115-1	26001272	26550901	26106644	26219606	1.11	cps
Indium	115-2	2651393	2516098	2672103	2613198	3.24	cps
Iron	54-2	4308249	4333383	4340309	4327314	0.39	cps
Iron	56-2	78774457	78079234	76982912	77945534	1.16	cps
Iron	57-2	2033428	1993345	2006690	2011155	1.01	cps
Krypton	83-1	547	590	550	562	4.29	cps
Lead	206-1	172403	171816	170337	171519	0.62	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	145565	147082	145830	146159	0.55	cps
Lead	208-1	669910	677536	668397	671948	0.73	cps
Lithium	6-1	10290517	10147787	10147995	10195433	0.81	cps
Magnesium	24-2	1820230	1804254	1779542	1801342	1.14	cps
Manganese	55-2	397448	397938	398138	397842	0.09	cps
Molybdenum	94-1	109879	108076	111244	109733	1.45	cps
Molybdenum	95-1	4031	4094	4027	4051	0.93	cps
Molybdenum	96-1	22265	23387	22171	22607	2.99	cps
Molybdenum	97-1	2554	2577	2454	2528	2.59	cps
Molybdenum	98-1	6045	6271	6752	6356	5.68	cps
Neodymium	150-1	72169	74757	73345	73424	1.76	cps
Neodymium	150-2	18560	18747	18016	18441	2.06	cps
Nickel	60-2	75436	77563	76192	76397	1.41	cps
Phosphorus	31-2	4804	4858	4808	4823	0.62	cps
Potassium	39-2	204316	202960	200143	202473	1.05	cps
Rhodium	103-1	24909178	24805911	24351049	24688713	1.20	cps
Rhodium	103-2	9392303	8885667	9391935	9223302	3.17	cps
Scandium	45-1	20628372	20494903	20147965	20423747	1.21	cps
Scandium	45-2	397106	374611	393168	388295	3.09	cps
Selenium	82-1	15	-85	8	-21	-271.08	cps
Selenium	77-2	117	110	110	112	3.43	cps
Selenium	78-2	80	60	77	72	14.84	cps
Silicon	28-1	8941081	8866869	8946030	8917993	0.50	cps
Silver	107-1	2724	2300	2710	2578	9.34	cps
Silver	109-1	2140	2000	2044	2061	3.48	cps
Sodium	23-2	1194165	1198343	1212111	1201540	0.78	cps
Strontium	86-1	160414	158813	159094	159440	0.54	cps
Strontium	88-1	1369951	1387597	1377418	1378322	0.64	cps
Sulfur	34-1	604290	606708	606729	605909	0.23	cps
Terbium	159-1	31923424	31605199	31693104	31740575	0.52	cps
Terbium	159-2	10338431	9769897	10327245	10145191	3.20	cps
Thallium	203-1	1193	1203	1200	1199	0.42	cps
Thallium	205-1	2770	2674	2784	2743	2.19	cps
Tin	118-1	25594	25387	25945	25642	1.10	cps
Titanium	47-1	2057603	2038352	2063047	2053000	0.63	cps
Uranium	238-1	24327	24858	24968	24717	1.39	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-15	Instrumnet Name :	P8
Client Sample ID :	MJNL19	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:30:04	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	230860	229283	227572	229238	0.72	cps
Ytterbium	172-1	12706	12509	13153	12790	2.58	cps
Ytterbium	172-2	5388	5328	5645	5453	3.09	cps
Ytterbium	176-1	11842	12106	11685	11878	1.79	cps
Ytterbium	176-2	4327	4294	4421	4347	1.51	cps
Yttrium	89-1	42499419	43363346	42995611	42952792	1.01	cps
Yttrium	89-2	3172148	3008747	3139637	3106844	2.78	cps
Zinc	66-2	37052	37931	37222	37401	1.25	cps
Zirconium	90-1	297353	303638	301615	300869	1.07	cps
Zirconium	91-1	66290	66374	66813	66492	0.42	cps

700

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	744699	751235	735142	743692	1.09	cps
Antimony	121-1	108799	111662	111749	110737	1.52	cps
Arsenic	75-2	10124	10220	9880	10075	1.74	cps
Barium	135-1	79029	78851	79072	78984	0.15	cps
Barium	137-1	136373	134613	135884	135623	0.67	cps
Beryllium	9-1	1986	1882	1913	1927	2.78	cps
Bismuth	209-1	17819779	15795524	16955360	16856888	6.03	cps
Bismuth	209-2	7439531	7373025	7362322	7391626	0.57	cps
Bromine	81-1	26028	26378	27878	26761	3.67	cps
Cadmium	108-1	420	387	393	400	4.41	cps
Cadmium	106-1	12909	11365	11949	12074	6.46	cps
Cadmium	111-1	9519	8538	8915	8991	5.51	cps
Calcium	43-1	713849	719638	725615	719701	0.82	cps
Calcium	44-1	11866870	11910170	12160024	11979021	1.32	cps
Carbon	12-1	5041377	5265563	5089587	5132176	2.30	cps
Carbon	12-2	33318	33562	32650	33176	1.42	cps
Chlorine	35-1	204119844	205838944	212221217	207393335	2.06	cps
Chlorine	35-2	898464	904719	901757	901647	0.35	cps
Chromium	52-2	111554	111796	111984	111778	0.19	cps
Cobalt	59-2	71237	70956	70999	71064	0.21	cps
Copper	63-2	2582514	2561455	2601306	2581758	0.77	cps
Dysprosium	156-1	49220	48280	48575	48692	0.99	cps
Dysprosium	156-2	15846	16086	15809	15914	0.95	cps
Erbium	164-1	39064	39311	39281	39219	0.34	cps
Erbium	164-2	13210	13016	13230	13152	0.90	cps
Gadolinium	160-1	45096	45227	45133	45152	0.15	cps
Gadolinium	160-2	18496	18720	18540	18585	0.64	cps
Holmium	165-1	30023646	26470781	28374573	28289667	6.28	cps
Holmium	165-2	10549320	10577416	10596977	10574571	0.23	cps
Indium	115-1	25256383	22812841	23861688	23976971	5.11	cps
Indium	115-2	2699344	2733428	2703989	2712254	0.68	cps
Iron	54-2	3732381	3650513	3741272	3708055	1.35	cps
Iron	56-2	66422194	67226852	67642726	67097257	0.92	cps
Iron	57-2	1710250	1702267	1738329	1716949	1.10	cps
Krypton	83-1	510	587	597	564	8.40	cps
Lead	206-1	2842889	2806396	2803937	2817741	0.77	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2352292	2309942	2355670	2339302	1.09	cps
Lead	208-1	11015520	10678871	10943679	10879357	1.63	cps
Lithium	6-1	9843871	9107988	9452501	9468120	3.89	cps
Magnesium	24-2	1376196	1370752	1364827	1370592	0.41	cps
Manganese	55-2	252109	253867	255140	253705	0.60	cps
Molybdenum	94-1	97724	96643	99508	97958	1.48	cps
Molybdenum	95-1	16653	16974	17261	16963	1.79	cps
Molybdenum	96-1	32942	33654	33938	33512	1.53	cps
Molybdenum	97-1	10404	10714	10894	10671	2.32	cps
Molybdenum	98-1	27431	27915	27838	27728	0.94	cps
Neodymium	150-1	74555	74998	75326	74960	0.52	cps
Neodymium	150-2	19134	18336	18129	18533	2.86	cps
Nickel	60-2	50653	51259	50707	50873	0.66	cps
Phosphorus	31-2	4664	4721	4587	4657	1.44	cps
Potassium	39-2	275507	277062	275260	275943	0.35	cps
Rhodium	103-1	24224773	21195324	22322774	22580957	6.78	cps
Rhodium	103-2	9632844	9348685	9330500	9437343	1.80	cps
Scandium	45-1	20252382	17984808	18866357	19034516	6.01	cps
Scandium	45-2	397549	395498	391923	394990	0.72	cps
Selenium	82-1	64	-13	-126	-25	-379.46	cps
Selenium	77-2	140	87	67	98	38.77	cps
Selenium	78-2	87	97	113	99	13.62	cps
Silicon	28-1	7413150	7551657	7334182	7432996	1.48	cps
Silver	107-1	18746	19177	19337	19087	1.60	cps
Silver	109-1	18095	17925	18349	18123	1.18	cps
Sodium	23-2	4423574	4517794	4497492	4479620	1.11	cps
Strontium	86-1	550595	544667	554545	549936	0.90	cps
Strontium	88-1	4904547	4959599	4906566	4923571	0.63	cps
Sulfur	34-1	958895	951195	962545	957545	0.61	cps
Terbium	159-1	30917903	27685756	29184441	29262700	5.53	cps
Terbium	159-2	10407959	10564111	10446609	10472893	0.78	cps
Thallium	203-1	2604	2554	2464	2540	2.79	cps
Thallium	205-1	5798	5908	6078	5928	2.38	cps
Tin	118-1	77488	77870	77685	77681	0.25	cps
Titanium	47-1	2168263	2197677	2209864	2191935	0.98	cps
Uranium	238-1	52371	50825	52575	51923	1.84	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-16	Instrumnet Name :	P8
Client Sample ID :	MJNL49	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:33:16	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	188484	189123	188694	188767	0.17	cps
Ytterbium	172-1	10187	9934	9840	9987	1.80	cps
Ytterbium	172-2	4167	4071	4164	4134	1.33	cps
Ytterbium	176-1	9840	9544	9820	9735	1.70	cps
Ytterbium	176-2	3357	3354	3290	3334	1.13	cps
Yttrium	89-1	41553569	37814567	39512639	39626925	4.72	cps
Yttrium	89-2	3202045	3133045	3143682	3159591	1.18	cps
Zinc	66-2	82522	82522	82911	82651	0.27	cps
Zirconium	90-1	247671	248833	250337	248947	0.54	cps
Zirconium	91-1	54396	54105	54643	54381	0.50	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1269239	1266324	1288904	1274822	0.96	cps
Antimony	121-1	847628	851101	847390	848706	0.24	cps
Arsenic	75-2	102117	99968	100562	100882	1.10	cps
Barium	135-1	319061	318454	318200	318572	0.14	cps
Barium	137-1	550387	549514	548436	549445	0.18	cps
Beryllium	9-1	3021	3015	3047	3028	0.56	cps
Bismuth	209-1	18024137	18748695	18450816	18407883	1.98	cps
Bismuth	209-2	7577432	7583601	7432711	7531248	1.13	cps
Bromine	81-1	82182	86605	88983	85924	4.02	cps
Cadmium	108-1	803	847	880	843	4.56	cps
Cadmium	106-1	13100	13403	13754	13419	2.44	cps
Cadmium	111-1	16113	16765	16570	16483	2.03	cps
Calcium	43-1	1575743	1600371	1530613	1568909	2.25	cps
Calcium	44-1	24785607	25825765	25676320	25429231	2.21	cps
Carbon	12-1	8212607	8323002	8265822	8267144	0.67	cps
Carbon	12-2	55150	54588	53597	54445	1.44	cps
Chlorine	35-1	207058124	212788357	217336043	212394175	2.42	cps
Chlorine	35-2	939317	927541	933227	933362	0.63	cps
Chromium	52-2	231799	226753	232736	230430	1.40	cps
Cobalt	59-2	120673	121110	118995	120259	0.93	cps
Copper	63-2	26327518	26224116	25903763	26151799	0.84	cps
Dysprosium	156-1	45966	46253	45761	45993	0.54	cps
Dysprosium	156-2	15159	14952	15062	15057	0.69	cps
Erbium	164-1	39241	39405	38937	39194	0.61	cps
Erbium	164-2	12933	12836	13173	12981	1.34	cps
Gadolinium	160-1	43099	42625	42009	42578	1.28	cps
Gadolinium	160-2	17882	17358	18376	17872	2.85	cps
Holmium	165-1	31281556	31611319	30157571	31016815	2.46	cps
Holmium	165-2	10769096	10841800	10531532	10714143	1.51	cps
Indium	115-1	26405575	26081089	25968962	26151875	0.87	cps
Indium	115-2	2717116	2728410	2694773	2713433	0.63	cps
Iron	54-2	5843923	5878788	5964460	5895724	1.05	cps
Iron	56-2	108708288	108814372	108181925	108568195	0.31	cps
Iron	57-2	2724572	2776920	2760039	2753844	0.97	cps
Krypton	83-1	580	557	553	563	2.58	cps
Lead	206-1	8487906	8728917	8362925	8526583	2.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7354397	7422517	7270697	7349203	1.03	cps
Lead	208-1	33389827	34249932	33646982	33762247	1.31	cps
Lithium	6-1	9880231	10071643	9774092	9908655	1.52	cps
Magnesium	24-2	2205652	2255075	2243427	2234718	1.16	cps
Manganese	55-2	429825	430671	430847	430448	0.13	cps
Molybdenum	94-1	118274	119643	118779	118899	0.58	cps
Molybdenum	95-1	82848	83046	85169	83688	1.54	cps
Molybdenum	96-1	100520	102071	102921	101837	1.20	cps
Molybdenum	97-1	50461	51047	51713	51074	1.23	cps
Molybdenum	98-1	132027	130998	132398	131808	0.55	cps
Neodymium	150-1	66504	69097	67662	67754	1.92	cps
Neodymium	150-2	16881	17064	17331	17092	1.33	cps
Nickel	60-2	107351	104893	104806	105683	1.37	cps
Phosphorus	31-2	4778	4971	5141	4963	3.66	cps
Potassium	39-2	472259	473813	466156	470743	0.86	cps
Rhodium	103-1	24341004	24085792	24539143	24321980	0.93	cps
Rhodium	103-2	9531958	9467145	9252088	9417063	1.56	cps
Scandium	45-1	19922258	20595420	20266586	20261421	1.66	cps
Scandium	45-2	402253	399016	388764	396678	1.78	cps
Selenium	82-1	498	441	561	500	12.02	cps
Selenium	77-2	103	83	87	91	11.77	cps
Selenium	78-2	93	87	110	97	12.43	cps
Silicon	28-1	12112263	11861338	11672558	11882053	1.86	cps
Silver	107-1	212230	214598	216845	214557	1.08	cps
Silver	109-1	201013	201945	204498	202486	0.89	cps
Sodium	23-2	9418132	9358710	9399157	9392000	0.32	cps
Strontium	86-1	1337468	1362402	1369768	1356546	1.25	cps
Strontium	88-1	12055666	12228667	12125988	12136774	0.72	cps
Sulfur	34-1	2013835	2035441	2026856	2025377	0.54	cps
Terbium	159-1	31146990	31698091	30705430	31183503	1.59	cps
Terbium	159-2	10513180	10544239	10363231	10473550	0.92	cps
Thallium	203-1	8226	8076	7993	8098	1.46	cps
Thallium	205-1	19501	19445	19341	19429	0.42	cps
Tin	118-1	477251	481797	480322	479790	0.48	cps
Titanium	47-1	2199394	2216369	2238454	2218072	0.88	cps
Uranium	238-1	120828	121911	122187	121642	0.59	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-17	Instrumnet Name :	P8
Client Sample ID :	MJNL62	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:36:25	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	194707	195945	194357	195003	0.43	cps
Ytterbium	172-1	10945	11232	10851	11009	1.80	cps
Ytterbium	172-2	4301	4451	4481	4411	2.19	cps
Ytterbium	176-1	10327	10654	10684	10555	1.88	cps
Ytterbium	176-2	3354	3634	3661	3549	4.79	cps
Yttrium	89-1	41636278	43233433	42697193	42522301	1.91	cps
Yttrium	89-2	3204275	3199215	3131597	3178362	1.28	cps
Zinc	66-2	375040	371873	372389	373101	0.46	cps
Zirconium	90-1	200024	198283	201039	199782	0.70	cps
Zirconium	91-1	44752	44541	45494	44929	1.11	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1193590	1179271	1180884	1184582	0.66	cps
Antimony	121-1	53169	53129	52892	53063	0.28	cps
Arsenic	75-2	6301	6872	6842	6672	4.81	cps
Barium	135-1	306197	311801	311278	309759	1.00	cps
Barium	137-1	529653	533425	535408	532829	0.55	cps
Beryllium	9-1	2306	2433	2436	2392	3.09	cps
Bismuth	209-1	18068328	17948520	17916544	17977797	0.45	cps
Bismuth	209-2	7359877	7296821	7304311	7320336	0.47	cps
Bromine	81-1	26375	27751	27761	27296	2.92	cps
Cadmium	108-1	560	540	420	507	14.95	cps
Cadmium	106-1	12996	13186	13593	13259	2.30	cps
Cadmium	111-1	10389	10553	10935	10625	2.64	cps
Calcium	43-1	3193037	3196027	3249302	3212789	0.99	cps
Calcium	44-1	51974334	52125249	52087711	52062431	0.15	cps
Carbon	12-1	5106891	5180895	5169084	5152290	0.77	cps
Carbon	12-2	33024	33478	33565	33356	0.87	cps
Chlorine	35-1	210743044	216605857	221728177	216359026	2.54	cps
Chlorine	35-2	946597	953696	953241	951178	0.42	cps
Chromium	52-2	172777	170165	174939	172627	1.38	cps
Cobalt	59-2	115434	114821	116432	115562	0.70	cps
Copper	63-2	1624400	1625254	1639506	1629720	0.52	cps
Dysprosium	156-1	47795	48293	47290	47793	1.05	cps
Dysprosium	156-2	16627	16380	16163	16390	1.42	cps
Erbium	164-1	45635	46357	46558	46183	1.05	cps
Erbium	164-2	15416	15759	15499	15558	1.15	cps
Gadolinium	160-1	45390	46497	46320	46069	1.29	cps
Gadolinium	160-2	19361	19077	19167	19202	0.75	cps
Holmium	165-1	31102101	31155270	30263028	30840133	1.62	cps
Holmium	165-2	10639093	10749294	10639019	10675802	0.60	cps
Indium	115-1	26221801	26500842	26296416	26339686	0.55	cps
Indium	115-2	2675369	2708914	2716210	2700164	0.81	cps
Iron	54-2	4988410	4950962	5028235	4989202	0.77	cps
Iron	56-2	90983075	91069725	92485099	91512633	0.92	cps
Iron	57-2	2296399	2345835	2311944	2318059	1.09	cps
Krypton	83-1	640	580	623	614	5.04	cps
Lead	206-1	435861	433918	438440	436073	0.52	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	377992	376269	375334	376532	0.36	cps
Lead	208-1	1716217	1713495	1725298	1718336	0.36	cps
Lithium	6-1	10038142	9909404	9893409	9946985	0.80	cps
Magnesium	24-2	3080582	3098718	3064741	3081347	0.55	cps
Manganese	55-2	1649860	1629991	1657554	1645801	0.86	cps
Molybdenum	94-1	101154	104549	104113	103272	1.79	cps
Molybdenum	95-1	12429	12569	11818	12272	3.25	cps
Molybdenum	96-1	29244	29431	29742	29472	0.85	cps
Molybdenum	97-1	7242	7652	7419	7438	2.77	cps
Molybdenum	98-1	19140	19781	18723	19214	2.77	cps
Neodymium	150-1	66752	67445	68149	67448	1.04	cps
Neodymium	150-2	16864	16941	16764	16856	0.53	cps
Nickel	60-2	108859	109937	110535	109777	0.77	cps
Phosphorus	31-2	4377	4204	4527	4370	3.70	cps
Potassium	39-2	504538	509543	510734	508272	0.65	cps
Rhodium	103-1	24290952	24597362	24004963	24297759	1.22	cps
Rhodium	103-2	9338902	9370704	9420342	9376649	0.44	cps
Scandium	45-1	20732734	20411087	20485078	20542967	0.82	cps
Scandium	45-2	394978	396982	401328	397762	0.82	cps
Selenium	82-1	-124	-70	-44	-79	-51.48	cps
Selenium	77-2	83	93	97	91	7.62	cps
Selenium	78-2	90	90	77	86	9.00	cps
Silicon	28-1	10692602	11268848	10992959	10984803	2.62	cps
Silver	107-1	11398	11655	10821	11291	3.78	cps
Silver	109-1	10444	10040	10007	10164	2.39	cps
Sodium	23-2	6026277	6114691	6194319	6111762	1.38	cps
Strontium	86-1	2663162	2692126	2708568	2687952	0.86	cps
Strontium	88-1	22637065	22943215	22738007	22772762	0.69	cps
Sulfur	34-1	883391	891643	897157	890730	0.78	cps
Terbium	159-1	31954375	31340155	30784196	31359575	1.87	cps
Terbium	159-2	10364326	10373962	10415696	10384661	0.26	cps
Thallium	203-1	3747	3607	3747	3701	2.18	cps
Thallium	205-1	8600	8823	8776	8733	1.35	cps
Tin	118-1	50125	50262	56709	52365	7.18	cps
Titanium	47-1	2335127	2349296	2309929	2331451	0.86	cps
Uranium	238-1	48760	48934	48696	48797	0.25	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-18	Instrumnet Name :	P8
Client Sample ID :	MJNL63	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:39:30	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	197187	199846	198082	198372	0.68	cps
Ytterbium	172-1	14952	15029	14899	14960	0.44	cps
Ytterbium	172-2	6268	6215	6178	6220	0.73	cps
Ytterbium	176-1	13110	12920	13143	13058	0.92	cps
Ytterbium	176-2	4628	4594	4814	4679	2.54	cps
Yttrium	89-1	43598508	43406076	43434171	43479585	0.24	cps
Yttrium	89-2	3150424	3153537	3212382	3172115	1.10	cps
Zinc	66-2	61034	60646	61717	61132	0.89	cps
Zirconium	90-1	271590	272119	272654	272121	0.20	cps
Zirconium	91-1	58532	59640	60082	59418	1.34	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	683646	671285	678746	677892	0.92	cps
Antimony	121-1	488476	507216	466283	487325	4.20	cps
Arsenic	75-2	48463	48597	47747	48269	0.95	cps
Barium	135-1	267125	273195	252805	264375	3.96	cps
Barium	137-1	450386	472311	433290	451996	4.33	cps
Beryllium	9-1	2819	2903	2656	2793	4.50	cps
Bismuth	209-1	18202580	18309098	16133705	17548461	6.99	cps
Bismuth	209-2	6563616	7079404	6422601	6688540	5.17	cps
Bromine	81-1	58505	63118	59499	60374	4.02	cps
Cadmium	108-1	610	697	613	640	7.67	cps
Cadmium	106-1	13190	13503	11518	12737	8.38	cps
Cadmium	111-1	13620	13946	11744	13103	9.07	cps
Calcium	43-1	681475	696314	642656	673481	4.11	cps
Calcium	44-1	11321734	11615875	10449723	11129111	5.45	cps
Carbon	12-1	6900746	7003758	6849678	6918061	1.13	cps
Carbon	12-2	44367	45099	43411	44292	1.91	cps
Chlorine	35-1	204093070	215020177	206315997	208476415	2.77	cps
Chlorine	35-2	883708	882442	887086	884412	0.27	cps
Chromium	52-2	136423	138066	134495	136328	1.31	cps
Cobalt	59-2	122303	122307	121016	121875	0.61	cps
Copper	63-2	15109919	15190403	15021095	15107139	0.56	cps
Dysprosium	156-1	52760	55645	50826	53077	4.57	cps
Dysprosium	156-2	17171	16971	16981	17041	0.66	cps
Erbium	164-1	42949	45136	41916	43334	3.79	cps
Erbium	164-2	13881	13577	13614	13690	1.21	cps
Gadolinium	160-1	51285	52935	49237	51152	3.62	cps
Gadolinium	160-2	20072	19608	19828	19836	1.17	cps
Holmium	165-1	30421824	30766352	28210967	29799714	4.65	cps
Holmium	165-2	9289668	10189235	8977904	9485602	6.63	cps
Indium	115-1	26384534	26422247	23281589	25362790	7.11	cps
Indium	115-2	2320741	2590924	2280225	2397297	7.05	cps
Iron	54-2	3651892	3715741	3695187	3687607	0.88	cps
Iron	56-2	67072552	66498637	66047514	66539568	0.77	cps
Iron	57-2	1748093	1711004	1669384	1709494	2.30	cps
Krypton	83-1	620	587	543	583	6.59	cps
Lead	206-1	2803681	2873539	2588816	2755345	5.39	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2355433	2485075	2287942	2376150	4.22	cps
Lead	208-1	10861264	11329154	10379481	10856633	4.37	cps
Lithium	6-1	9695831	9922320	8816290	9478147	6.16	cps
Magnesium	24-2	1620568	1586258	1582271	1596366	1.32	cps
Manganese	55-2	288974	291728	288675	289793	0.58	cps
Molybdenum	94-1	107355	107427	98371	104384	4.99	cps
Molybdenum	95-1	60457	62024	58533	60338	2.90	cps
Molybdenum	96-1	76801	78101	72143	75682	4.14	cps
Molybdenum	97-1	37434	38410	35713	37185	3.67	cps
Molybdenum	98-1	95657	98255	92429	95447	3.06	cps
Neodymium	150-1	73838	77338	70065	73747	4.93	cps
Neodymium	150-2	17458	17031	17421	17303	1.37	cps
Nickel	60-2	56816	56324	56170	56437	0.60	cps
Phosphorus	31-2	4197	4251	4217	4222	0.64	cps
Potassium	39-2	327654	330655	326959	328422	0.60	cps
Rhodium	103-1	24151468	24676871	22059394	23629244	5.86	cps
Rhodium	103-2	8135846	8950479	7954500	8346942	6.36	cps
Scandium	45-1	20538171	20695373	17969286	19734277	7.76	cps
Scandium	45-2	339839	370995	343059	351298	4.88	cps
Selenium	82-1	165	229	223	205	17.27	cps
Selenium	77-2	120	107	103	110	8.01	cps
Selenium	78-2	103	100	107	103	3.23	cps
Silicon	28-1	20710281	16097983	14046754	16951672	20.13	cps
Silver	107-1	92887	97660	88757	93101	4.79	cps
Silver	109-1	85792	90746	84587	87042	3.75	cps
Sodium	23-2	6844484	6632144	6556331	6677653	2.24	cps
Strontium	86-1	383073	397214	365034	381774	4.22	cps
Strontium	88-1	3409618	3600942	3316100	3442220	4.22	cps
Sulfur	34-1	1399455	1398369	1302896	1366907	4.06	cps
Terbium	159-1	31386466	31876732	28651636	30638278	5.67	cps
Terbium	159-2	9084810	9830629	8924752	9280063	5.21	cps
Thallium	203-1	9267	9754	8780	9267	5.26	cps
Thallium	205-1	22172	22787	21805	22255	2.23	cps
Tin	118-1	199304	206304	191255	198954	3.79	cps
Titanium	47-1	2045485	2146932	1923210	2038542	5.50	cps
Uranium	238-1	156660	162193	146716	155190	5.05	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5158-19	Instrumnet Name :	P8
Client Sample ID :	MJNL71	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:42:39	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	117383	118213	116872	117490	0.58	cps
Ytterbium	172-1	10067	10795	9423	10095	6.79	cps
Ytterbium	172-2	3661	3791	3821	3757	2.26	cps
Ytterbium	176-1	10508	10287	9120	9972	7.48	cps
Ytterbium	176-2	3000	3010	3154	3055	2.81	cps
Yttrium	89-1	42638478	43735466	38928308	41767417	6.03	cps
Yttrium	89-2	2770887	2999009	2757137	2842344	4.78	cps
Zinc	66-2	284608	283334	282664	283536	0.35	cps
Zirconium	90-1	194241	199297	181738	191759	4.71	cps
Zirconium	91-1	43197	44404	41900	43167	2.90	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1798127	1805692	1779593	1794471	0.75	cps
Antimony	121-1	138107	137746	137991	137948	0.13	cps
Arsenic	75-2	11905	11872	11958	11912	0.37	cps
Barium	135-1	1693977	1698215	1679815	1690669	0.57	cps
Barium	137-1	2888209	2856662	2811474	2852115	1.35	cps
Beryllium	9-1	11203	11148	10923	11091	1.34	cps
Bismuth	209-1	18074113	17670361	17852693	17865722	1.13	cps
Bismuth	209-2	6935728	7306105	7154110	7131981	2.61	cps
Bromine	81-1	24064	24886	25647	24865	3.18	cps
Cadmium	108-1	1900	1837	1893	1877	1.85	cps
Cadmium	106-1	14818	14831	15225	14958	1.55	cps
Cadmium	111-1	29698	29849	30352	29966	1.14	cps
Calcium	43-1	6040987	6011164	6070209	6040787	0.49	cps
Calcium	44-1	98772335	97529149	97765172	98022219	0.67	cps
Carbon	12-1	22852265	23394299	23158970	23135178	1.17	cps
Carbon	12-2	153614	152364	148287	151422	1.84	cps
Chlorine	35-1	257038816	264792509	274432663	265421329	3.28	cps
Chlorine	35-2	1177070	1173979	1183134	1178061	0.40	cps
Chromium	52-2	2731640	2735230	2737064	2734645	0.10	cps
Cobalt	59-2	200316	201842	200745	200968	0.39	cps
Copper	63-2	3191006	3228624	3173005	3197545	0.89	cps
Dysprosium	156-1	131863	133385	134071	133107	0.85	cps
Dysprosium	156-2	44601	44109	43802	44170	0.91	cps
Erbium	164-1	115832	114027	115156	115005	0.79	cps
Erbium	164-2	38853	38760	38980	38864	0.28	cps
Gadolinium	160-1	124228	124895	124979	124701	0.33	cps
Gadolinium	160-2	50502	51516	51392	51137	1.08	cps
Holmium	165-1	30606345	30377651	31049245	30677747	1.11	cps
Holmium	165-2	10254070	10375521	10540842	10390145	1.39	cps
Indium	115-1	25710463	25860702	26047960	25873042	0.65	cps
Indium	115-2	2474931	2603817	2642267	2573672	3.41	cps
Iron	54-2	24649804	24249924	24837138	24578955	1.22	cps
Iron	56-2	447205353	455791700	443831660	448942904	1.37	cps
Iron	57-2	11374624	11165534	11330418	11290192	0.98	cps
Krypton	83-1	730	767	860	786	8.53	cps
Lead	206-1	7266031	7219072	7162730	7215945	0.72	cps

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On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5985312	5873562	5946584	5935153	0.96	cps
Lead	208-1	28190964	27501865	27590038	27760956	1.35	cps
Lithium	6-1	10076443	9657122	10021980	9918515	2.30	cps
Magnesium	24-2	5474036	5474100	5415488	5454542	0.62	cps
Manganese	55-2	7381101	7534934	7373407	7429814	1.23	cps
Molybdenum	94-1	355474	352417	353711	353867	0.43	cps
Molybdenum	95-1	544228	550703	550075	548335	0.65	cps
Molybdenum	96-1	584622	599500	599808	594643	1.46	cps
Molybdenum	97-1	340237	346464	345361	344021	0.97	cps
Molybdenum	98-1	868903	883612	881607	878041	0.91	cps
Neodymium	150-1	189072	191320	191537	190643	0.72	cps
Neodymium	150-2	48347	48076	48126	48183	0.30	cps
Nickel	60-2	469811	468330	470032	469391	0.20	cps
Phosphorus	31-2	8563	8606	8363	8510	1.53	cps
Potassium	39-2	998824	994124	980181	991043	0.98	cps
Rhodium	103-1	24065754	23794554	24312364	24057557	1.08	cps
Rhodium	103-2	8681286	9089627	9177071	8982661	2.95	cps
Scandium	45-1	20138308	20322598	20403593	20288167	0.67	cps
Scandium	45-2	377284	391822	390962	386689	2.11	cps
Selenium	82-1	409	305	195	303	35.22	cps
Selenium	77-2	230	240	310	260	16.77	cps
Selenium	78-2	203	160	157	173	15.02	cps
Silicon	28-1	61906177	62175496	62776989	62286221	0.72	cps
Silver	107-1	33805	34039	34095	33980	0.45	cps
Silver	109-1	31783	32528	32619	32310	1.42	cps
Sodium	23-2	450978	454046	457000	454008	0.66	cps
Strontium	86-1	1369138	1414609	1406956	1396901	1.74	cps
Strontium	88-1	12350204	12687611	12541076	12526297	1.35	cps
Sulfur	34-1	859106	853725	862825	858552	0.53	cps
Terbium	159-1	31585721	31905618	32100522	31863954	0.82	cps
Terbium	159-2	9894754	10266277	10336004	10165678	2.33	cps
Thallium	203-1	11398	11318	11839	11519	2.43	cps
Thallium	205-1	27042	27616	27259	27305	1.06	cps
Tin	118-1	430409	429267	433264	430980	0.48	cps
Titanium	47-1	1340864	1324406	1293735	1319668	1.81	cps
Uranium	238-1	144053	142111	143506	143223	0.70	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-01	Instrumnet Name :	P8
Client Sample ID :	ME28R5	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:52:38	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	318894	315941	315932	316922	0.54	cps
Ytterbium	172-1	32901	33543	33165	33203	0.97	cps
Ytterbium	172-2	13967	13944	13454	13788	2.10	cps
Ytterbium	176-1	23391	24172	24112	23892	1.82	cps
Ytterbium	176-2	9634	9217	9213	9354	2.58	cps
Yttrium	89-1	43459334	44032144	44375399	43955626	1.05	cps
Yttrium	89-2	3077730	3168419	3158631	3134926	1.59	cps
Zinc	66-2	1261789	1264817	1258408	1261671	0.25	cps
Zirconium	90-1	113626	115305	111737	113556	1.57	cps
Zirconium	91-1	23613	24271	24932	24272	2.72	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1549163	1583644	1579323	1570710	1.20	cps
Antimony	121-1	132748	132925	131438	132371	0.61	cps
Arsenic	75-2	10484	10591	10127	10401	2.33	cps
Barium	135-1	1565713	1491870	1522525	1526703	2.43	cps
Barium	137-1	2726853	2638661	2666886	2677467	1.68	cps
Beryllium	9-1	9691	9744	9449	9628	1.63	cps
Bismuth	209-1	13895691	17079859	17439382	16138311	12.09	cps
Bismuth	209-2	7214999	7154504	7178099	7182534	0.42	cps
Bromine	81-1	23396	24264	24485	24048	2.39	cps
Cadmium	108-1	1863	1697	1687	1749	5.67	cps
Cadmium	106-1	12189	14348	15025	13854	10.69	cps
Cadmium	111-1	26515	28576	28717	27936	4.41	cps
Calcium	43-1	6221053	6317085	6288604	6275581	0.79	cps
Calcium	44-1	102176225	102489298	102801798	102489107	0.31	cps
Carbon	12-1	21181451	21852346	21655756	21563184	1.60	cps
Carbon	12-2	142597	139664	138540	140267	1.49	cps
Chlorine	35-1	282103102	290641322	292262756	288335727	1.89	cps
Chlorine	35-2	1294173	1293117	1291315	1292869	0.11	cps
Chromium	52-2	1949848	1931006	1946238	1942364	0.51	cps
Cobalt	59-2	188599	186316	184658	186524	1.06	cps
Copper	63-2	2452214	2466098	2445368	2454560	0.43	cps
Dysprosium	156-1	116726	116038	116680	116482	0.33	cps
Dysprosium	156-2	38057	38204	38519	38260	0.62	cps
Erbium	164-1	100574	103035	100398	101336	1.46	cps
Erbium	164-2	34378	34261	33856	34165	0.80	cps
Gadolinium	160-1	108155	108789	108665	108536	0.31	cps
Gadolinium	160-2	45250	44778	44521	44850	0.82	cps
Holmium	165-1	23918080	29816384	30357210	28030558	12.74	cps
Holmium	165-2	10473421	10392201	10511601	10459074	0.58	cps
Indium	115-1	20051459	23825333	25432514	23103102	11.96	cps
Indium	115-2	2607447	2609839	2570636	2595974	0.85	cps
Iron	54-2	21933726	21778451	21798736	21836971	0.39	cps
Iron	56-2	401027861	405510821	397992487	401510390	0.94	cps
Iron	57-2	10141923	9990911	9997863	10043566	0.85	cps
Krypton	83-1	827	817	777	807	3.28	cps
Lead	206-1	7187478	7292570	7131588	7203879	1.13	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6018282	6195721	6021998	6078667	1.67	cps
Lead	208-1	27962265	28292941	28044472	28099893	0.61	cps
Lithium	6-1	8136280	9551661	9456904	9048282	8.74	cps
Magnesium	24-2	4881038	4961315	5033869	4958741	1.54	cps
Manganese	55-2	7265043	7265328	7204360	7244911	0.48	cps
Molybdenum	94-1	301090	304176	303776	303014	0.55	cps
Molybdenum	95-1	468366	480179	475186	474577	1.25	cps
Molybdenum	96-1	500041	509222	518145	509136	1.78	cps
Molybdenum	97-1	285379	292489	290298	289389	1.26	cps
Molybdenum	98-1	746349	747386	751109	748281	0.33	cps
Neodymium	150-1	166761	168288	168679	167910	0.60	cps
Neodymium	150-2	41363	41210	41698	41424	0.60	cps
Nickel	60-2	427227	424873	427098	426400	0.31	cps
Phosphorus	31-2	7419	7435	7449	7434	0.20	cps
Potassium	39-2	902710	891952	887539	894067	0.87	cps
Rhodium	103-1	18420671	22709666	23481505	21537281	12.66	cps
Rhodium	103-2	8954557	9110770	9066068	9043798	0.89	cps
Scandium	45-1	15704786	19255918	19914076	18291593	12.38	cps
Scandium	45-2	389266	383410	388627	387101	0.83	cps
Selenium	82-1	289	279	205	258	17.68	cps
Selenium	77-2	230	220	247	232	5.80	cps
Selenium	78-2	147	147	193	162	16.61	cps
Silicon	28-1	62826437	64154522	62322091	63101017	1.50	cps
Silver	107-1	29412	29946	30307	29888	1.51	cps
Silver	109-1	28563	28703	28773	28680	0.37	cps
Sodium	23-2	446750	455169	447796	449905	1.02	cps
Strontium	86-1	1303792	1302741	1312054	1306196	0.39	cps
Strontium	88-1	11688521	11384657	11660136	11577771	1.45	cps
Sulfur	34-1	819783	832013	827958	826585	0.75	cps
Terbium	159-1	24509619	30856998	30885827	28750815	12.78	cps
Terbium	159-2	10237498	10228739	10107861	10191366	0.71	cps
Thallium	203-1	10271	10144	10611	10342	2.34	cps
Thallium	205-1	24363	24163	24844	24456	1.43	cps
Tin	118-1	324610	325979	329765	326785	0.82	cps
Titanium	47-1	1237191	1251144	1256770	1248368	0.81	cps
Uranium	238-1	128620	126025	127182	127276	1.02	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-02	Instrumnet Name :	P8
Client Sample ID :	ME28R6	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:55:43	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	281879	283329	282716	282641	0.26	cps
Ytterbium	172-1	29857	29403	29947	29736	0.98	cps
Ytterbium	172-2	12266	12179	12222	12222	0.35	cps
Ytterbium	176-1	21394	21614	21488	21499	0.51	cps
Ytterbium	176-2	8319	8193	8283	8265	0.79	cps
Yttrium	89-1	35055049	41435275	43177546	39889290	10.72	cps
Yttrium	89-2	3167304	3202261	3131581	3167048	1.12	cps
Zinc	66-2	1112599	1115269	1108997	1112288	0.28	cps
Zirconium	90-1	100601	103463	102395	102153	1.42	cps
Zirconium	91-1	22542	22218	22415	22391	0.73	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1369134	1402644	1391864	1387881	1.23	cps
Antimony	121-1	11388	11111	10901	11133	2.19	cps
Arsenic	75-2	5968	5675	5511	5718	4.05	cps
Barium	135-1	943453	961695	960809	955319	1.08	cps
Barium	137-1	1725283	1679765	1713674	1706241	1.39	cps
Beryllium	9-1	6766	6998	6865	6876	1.69	cps
Bismuth	209-1	17465826	17701788	17572657	17580090	0.67	cps
Bismuth	209-2	7249829	7172757	7082617	7168401	1.17	cps
Bromine	81-1	18646	18736	19370	18917	2.09	cps
Cadmium	108-1	420	467	453	447	5.38	cps
Cadmium	106-1	13123	13827	13750	13567	2.85	cps
Cadmium	111-1	12363	12846	12835	12681	2.18	cps
Calcium	43-1	10673615	10552622	10870639	10698959	1.50	cps
Calcium	44-1	173025011	177301004	176431304	175585773	1.29	cps
Carbon	12-1	8712112	8555249	8794805	8687388	1.40	cps
Carbon	12-2	57074	56501	57546	57040	0.92	cps
Chlorine	35-1	247838890	253331583	256159810	252443427	1.68	cps
Chlorine	35-2	1086173	1100060	1088754	1091662	0.68	cps
Chromium	52-2	155063	155021	158198	156094	1.17	cps
Cobalt	59-2	157349	157534	159549	158144	0.77	cps
Copper	63-2	275367	279033	274117	276172	0.93	cps
Dysprosium	156-1	97613	99197	98144	98318	0.82	cps
Dysprosium	156-2	32179	32286	32135	32200	0.24	cps
Erbium	164-1	80012	81611	80478	80701	1.02	cps
Erbium	164-2	26860	26456	26597	26638	0.77	cps
Gadolinium	160-1	90917	90779	93354	91683	1.58	cps
Gadolinium	160-2	37793	37122	38151	37689	1.39	cps
Holmium	165-1	31172149	31255696	31244128	31223991	0.14	cps
Holmium	165-2	10623170	10577545	10629265	10609994	0.27	cps
Indium	115-1	25892309	25478455	26135225	25835330	1.29	cps
Indium	115-2	2648432	2604504	2628265	2627067	0.84	cps
Iron	54-2	7285352	7385572	7188809	7286578	1.35	cps
Iron	56-2	134152211	130932811	134048995	133044672	1.38	cps
Iron	57-2	3387003	3412815	3344728	3381515	1.02	cps
Krypton	83-1	717	767	827	770	7.15	cps
Lead	206-1	414333	417288	425789	419136	1.42	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	343482	345362	342520	343788	0.42	cps
Lead	208-1	1587341	1609974	1603471	1600262	0.73	cps
Lithium	6-1	9699336	9769115	10139044	9869165	2.39	cps
Magnesium	24-2	12549754	12879171	12515573	12648166	1.59	cps
Manganese	55-2	1851308	1796919	1848953	1832393	1.68	cps
Molybdenum	94-1	65909	65996	67081	66328	0.98	cps
Molybdenum	95-1	54978	55119	55336	55144	0.33	cps
Molybdenum	96-1	65185	65477	65601	65421	0.33	cps
Molybdenum	97-1	33337	34266	34089	33897	1.45	cps
Molybdenum	98-1	87470	87034	87228	87244	0.25	cps
Neodymium	150-1	140823	142805	142804	142144	0.80	cps
Neodymium	150-2	34658	34745	35320	34907	1.03	cps
Nickel	60-2	121698	119786	123073	121519	1.36	cps
Phosphorus	31-2	3677	3484	3454	3538	3.43	cps
Potassium	39-2	423501	428140	429164	426935	0.71	cps
Rhodium	103-1	23864765	23783501	24029050	23892439	0.52	cps
Rhodium	103-2	9194416	8863035	9182269	9079907	2.07	cps
Scandium	45-1	20181732	20333321	20075699	20196917	0.64	cps
Scandium	45-2	387336	387680	388797	387938	0.20	cps
Selenium	82-1	51	105	-89	22	447.45	cps
Selenium	77-2	207	227	217	217	4.62	cps
Selenium	78-2	163	137	137	146	10.58	cps
Silicon	28-1	26118822	24788534	24782561	25229972	3.05	cps
Silver	107-1	2814	2600	2817	2744	4.53	cps
Silver	109-1	2434	2354	2570	2452	4.47	cps
Sodium	23-2	298644	294811	296592	296683	0.65	cps
Strontium	86-1	2375052	2357115	2424277	2385481	1.46	cps
Strontium	88-1	20616241	20144548	20612169	20457653	1.33	cps
Sulfur	34-1	770433	774718	787880	777677	1.17	cps
Terbium	159-1	31880214	31635551	32356098	31957288	1.15	cps
Terbium	159-2	10364527	10116474	10321679	10267560	1.29	cps
Thallium	203-1	6568	6452	6565	6528	1.02	cps
Thallium	205-1	14902	15049	15459	15137	1.91	cps
Tin	118-1	23841	24292	23784	23972	1.16	cps
Titanium	47-1	531594	520692	530358	527548	1.13	cps
Uranium	238-1	105692	106787	105829	106103	0.56	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-03	Instrumnet Name :	P8
Client Sample ID :	ME28R7	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 19:58:50	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	150977	151559	150798	151111	0.26	cps
Ytterbium	172-1	21992	21771	22362	22042	1.35	cps
Ytterbium	172-2	8626	9153	8990	8923	3.02	cps
Ytterbium	176-1	16878	17642	17448	17323	2.29	cps
Ytterbium	176-2	6105	6285	6368	6253	2.15	cps
Yttrium	89-1	42693886	42714708	43280701	42896432	0.78	cps
Yttrium	89-2	3223269	3106078	3157649	3162332	1.86	cps
Zinc	66-2	117774	116799	115980	116851	0.77	cps
Zirconium	90-1	98232	99113	100311	99219	1.05	cps
Zirconium	91-1	21687	21924	21684	21765	0.63	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2243489	2262845	2215795	2240709	1.06	cps
Antimony	121-1	8096	8156	8059	8104	0.60	cps
Arsenic	75-2	2704	2714	2590	2669	2.57	cps
Barium	135-1	1124308	1143034	1136838	1134727	0.84	cps
Barium	137-1	1984369	1955393	2047377	1995713	2.36	cps
Beryllium	9-1	23816	23794	23754	23788	0.13	cps
Bismuth	209-1	17718343	17345353	17372246	17478647	1.19	cps
Bismuth	209-2	7093773	7109464	7050960	7084732	0.43	cps
Bromine	81-1	16059	16800	16603	16488	2.33	cps
Cadmium	108-1	2227	2140	1923	2097	7.45	cps
Cadmium	106-1	18372	18259	18059	18230	0.87	cps
Cadmium	111-1	12799	12933	12935	12889	0.61	cps
Calcium	43-1	24106470	23995320	24215545	24105779	0.46	cps
Calcium	44-1	397060727	404599287	397963261	399874425	1.03	cps
Carbon	12-1	5166350	5231088	5155431	5184290	0.79	cps
Carbon	12-2	34718	35165	34130	34671	1.50	cps
Chlorine	35-1	201349817	208475410	212822190	207549139	2.79	cps
Chlorine	35-2	926955	937737	925326	930006	0.73	cps
Chromium	52-2	146629	147960	146465	147018	0.56	cps
Cobalt	59-2	43673	43118	42995	43262	0.84	cps
Copper	63-2	151839	153247	151030	152039	0.74	cps
Dysprosium	156-1	106739	107343	109242	107774	1.21	cps
Dysprosium	156-2	33890	34250	34274	34138	0.63	cps
Erbium	164-1	104933	104086	105504	104841	0.68	cps
Erbium	164-2	35470	35060	34702	35077	1.10	cps
Gadolinium	160-1	98484	96317	97120	97307	1.13	cps
Gadolinium	160-2	40605	39010	40468	40028	2.21	cps
Holmium	165-1	31178120	30597678	31366075	31047291	1.29	cps
Holmium	165-2	10688208	10419576	10443275	10517020	1.41	cps
Indium	115-1	25548745	25127902	26477216	25717954	2.68	cps
Indium	115-2	2651847	2554489	2588671	2598336	1.90	cps
Iron	54-2	3195704	3154564	3061571	3137280	2.19	cps
Iron	56-2	57417756	58151279	57526159	57698398	0.69	cps
Iron	57-2	1467874	1486116	1446550	1466847	1.35	cps
Krypton	83-1	880	883	897	887	0.99	cps
Lead	206-1	638807	641292	632935	637678	0.67	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	525693	525081	524730	525168	0.09	cps
Lead	208-1	2447306	2458125	2437435	2447622	0.42	cps
Lithium	6-1	9885031	9361709	9813259	9686666	2.93	cps
Magnesium	24-2	11134842	11242839	11175739	11184473	0.49	cps
Manganese	55-2	4314341	4226405	4217258	4252668	1.26	cps
Molybdenum	94-1	525997	534303	534757	531685	0.93	cps
Molybdenum	95-1	25350	25574	25814	25579	0.91	cps
Molybdenum	96-1	112941	114272	113113	113442	0.64	cps
Molybdenum	97-1	15178	15882	15706	15589	2.35	cps
Molybdenum	98-1	40305	39994	40018	40106	0.43	cps
Neodymium	150-1	140166	140601	140614	140461	0.18	cps
Neodymium	150-2	35116	35617	35129	35287	0.81	cps
Nickel	60-2	36403	37115	37295	36938	1.28	cps
Phosphorus	31-2	1570	1500	1553	1541	2.37	cps
Potassium	39-2	363615	364445	360815	362958	0.52	cps
Rhodium	103-1	23151146	23191675	23555105	23299309	0.95	cps
Rhodium	103-2	8907440	8798765	8701694	8802633	1.17	cps
Scandium	45-1	20344478	20572191	20853265	20589978	1.24	cps
Scandium	45-2	389973	392590	388314	390292	0.55	cps
Selenium	82-1	756	943	903	867	11.36	cps
Selenium	77-2	190	187	200	192	3.61	cps
Selenium	78-2	233	207	203	214	7.67	cps
Silicon	28-1	414850994	423483247	413849847	417394696	1.27	cps
Silver	107-1	2764	3057	3124	2981	6.43	cps
Silver	109-1	1513	1557	1593	1555	2.58	cps
Sodium	23-2	708746	715124	707860	710577	0.56	cps
Strontium	86-1	4030159	4048129	4099629	4059306	0.89	cps
Strontium	88-1	35521705	35723694	35638451	35627950	0.28	cps
Sulfur	34-1	1135034	1129034	1144128	1136066	0.67	cps
Terbium	159-1	31300918	31827610	32315589	31814705	1.60	cps
Terbium	159-2	10316259	10134832	10112934	10188008	1.10	cps
Thallium	203-1	1950	1947	1984	1960	1.03	cps
Thallium	205-1	4674	4731	4604	4670	1.36	cps
Tin	118-1	47315	48723	47652	47897	1.53	cps
Titanium	47-1	1773433	1825113	1783261	1793936	1.53	cps
Uranium	238-1	211871	214444	212694	213003	0.62	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-04	Instrumnet Name :	P8
Client Sample ID :	ME28R8	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:02:00	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	77773	77703	78048	77841	0.23	cps
Ytterbium	172-1	39074	39439	38466	38993	1.26	cps
Ytterbium	172-2	16183	15806	16107	16032	1.24	cps
Ytterbium	176-1	30094	30652	30078	30275	1.08	cps
Ytterbium	176-2	11505	11852	11699	11685	1.49	cps
Yttrium	89-1	44014388	43720696	44967063	44234049	1.47	cps
Yttrium	89-2	3283262	3262654	3194387	3246768	1.43	cps
Zinc	66-2	47105	46757	46436	46766	0.72	cps
Zirconium	90-1	1480261	1545815	1537978	1521351	2.35	cps
Zirconium	91-1	318941	325811	320209	321653	1.14	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1271675	1286613	1284603	1280964	0.63	cps
Antimony	121-1	23417	24379	24171	23989	2.11	cps
Arsenic	75-2	6265	6031	5948	6081	2.70	cps
Barium	135-1	722472	721574	731339	725128	0.74	cps
Barium	137-1	1245162	1263839	1259012	1256004	0.77	cps
Beryllium	9-1	7496	7288	7408	7397	1.41	cps
Bismuth	209-1	18409166	17897528	17779713	18028802	1.86	cps
Bismuth	209-2	7316630	7182337	7261340	7253436	0.93	cps
Bromine	81-1	16196	17174	17788	17053	4.71	cps
Cadmium	108-1	7779	8092	7802	7891	2.21	cps
Cadmium	106-1	24896	24672	24518	24695	0.77	cps
Cadmium	111-1	124783	126756	125433	125657	0.80	cps
Calcium	43-1	11202876	11303644	11236316	11247612	0.46	cps
Calcium	44-1	182881764	183003917	182886177	182923953	0.04	cps
Carbon	12-1	6256041	6385094	6300815	6313983	1.04	cps
Carbon	12-2	42508	42505	41863	42292	0.88	cps
Chlorine	35-1	241797756	248206310	251577236	247193767	2.01	cps
Chlorine	35-2	1102256	1094672	1104571	1100500	0.47	cps
Chromium	52-2	343694	336730	341622	340682	1.05	cps
Cobalt	59-2	164333	161710	162624	162889	0.82	cps
Copper	63-2	572198	574826	573283	573436	0.23	cps
Dysprosium	156-1	87078	87732	87602	87471	0.40	cps
Dysprosium	156-2	28404	28213	28039	28219	0.65	cps
Erbium	164-1	73756	74490	74380	74209	0.53	cps
Erbium	164-2	25164	25281	24920	25122	0.73	cps
Gadolinium	160-1	79847	79347	79552	79582	0.32	cps
Gadolinium	160-2	32710	32857	32874	32814	0.27	cps
Holmium	165-1	31058243	31351973	30865878	31092031	0.79	cps
Holmium	165-2	10918531	10719610	10566444	10734862	1.64	cps
Indium	115-1	26033823	26133314	25771019	25979385	0.72	cps
Indium	115-2	2677754	2648757	2634367	2653626	0.83	cps
Iron	54-2	12159517	12030359	12025827	12071901	0.63	cps
Iron	56-2	227369630	225765870	221968317	225034606	1.23	cps
Iron	57-2	5668259	5576322	5579203	5607928	0.93	cps
Krypton	83-1	677	750	813	747	9.16	cps
Lead	206-1	567175	561635	559762	562857	0.68	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	464766	465486	462268	464173	0.36	cps
Lead	208-1	2182057	2171362	2150801	2168073	0.73	cps
Lithium	6-1	9838998	9736469	9624090	9733186	1.10	cps
Magnesium	24-2	8016498	7860124	8095768	7990797	1.50	cps
Manganese	55-2	2311106	2299419	2279998	2296841	0.68	cps
Molybdenum	94-1	162893	166496	170316	166569	2.23	cps
Molybdenum	95-1	128427	131431	131943	130600	1.45	cps
Molybdenum	96-1	156005	156662	156113	156260	0.23	cps
Molybdenum	97-1	81498	81789	81404	81563	0.25	cps
Molybdenum	98-1	205939	208015	209488	207814	0.86	cps
Neodymium	150-1	122204	121632	122911	122249	0.52	cps
Neodymium	150-2	30191	30258	30167	30205	0.16	cps
Nickel	60-2	135801	135615	134196	135204	0.65	cps
Phosphorus	31-2	3210	3167	3300	3226	2.11	cps
Potassium	39-2	508780	511671	511962	510804	0.34	cps
Rhodium	103-1	24067215	24052998	23761047	23960420	0.72	cps
Rhodium	103-2	9273809	9111313	9010829	9131983	1.45	cps
Scandium	45-1	20383130	20625636	19984249	20331005	1.59	cps
Scandium	45-2	396211	394086	395301	395200	0.27	cps
Selenium	82-1	140	23	27	63	104.95	cps
Selenium	77-2	203	160	150	171	16.57	cps
Selenium	78-2	127	150	120	132	11.91	cps
Silicon	28-1	162505651	170036497	163373834	165305328	2.49	cps
Silver	107-1	320276	320658	319406	320113	0.20	cps
Silver	109-1	303043	307638	309282	306654	1.05	cps
Sodium	23-2	599984	596684	597416	598028	0.29	cps
Strontium	86-1	1939968	1931796	1964909	1945558	0.89	cps
Strontium	88-1	17009459	16785010	16656582	16817017	1.06	cps
Sulfur	34-1	844209	847195	847361	846255	0.21	cps
Terbium	159-1	31915027	31706125	31421842	31680998	0.78	cps
Terbium	159-2	10392502	10528344	10433142	10451329	0.67	cps
Thallium	203-1	5831	5815	5715	5787	1.09	cps
Thallium	205-1	13277	13921	13961	13720	2.80	cps
Tin	118-1	152597	151545	155620	153254	1.38	cps
Titanium	47-1	860315	861183	857555	859684	0.22	cps
Uranium	238-1	118560	116481	117077	117372	0.91	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-05	Instrumnet Name :	P8
Client Sample ID :	ME28R9	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:05:12	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	128279	127492	128729	128167	0.49	cps
Ytterbium	172-1	21775	21381	21167	21441	1.44	cps
Ytterbium	172-2	8576	8616	8823	8672	1.53	cps
Ytterbium	176-1	17208	17362	17285	17285	0.44	cps
Ytterbium	176-2	6025	6272	6125	6140	2.02	cps
Yttrium	89-1	44392113	43644524	43845361	43960666	0.88	cps
Yttrium	89-2	3224268	3136325	3178790	3179794	1.38	cps
Zinc	66-2	80939	80936	80812	80896	0.09	cps
Zirconium	90-1	247847	256301	256713	253620	1.97	cps
Zirconium	91-1	55847	55383	55150	55460	0.64	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1270449	1274842	1437595	1327629	7.18	cps
Antimony	121-1	21584	21340	21030	21318	1.30	cps
Arsenic	75-2	6618	6718	7142	6826	4.07	cps
Barium	135-1	781696	771104	766303	773034	1.02	cps
Barium	137-1	1348175	1336075	1309286	1331178	1.50	cps
Beryllium	9-1	7002	6745	6805	6851	1.96	cps
Bismuth	209-1	16678002	15831232	16176859	16228698	2.62	cps
Bismuth	209-2	6610214	6701064	7123045	6811441	4.02	cps
Bromine	81-1	17655	17558	17655	17622	0.32	cps
Cadmium	108-1	610	687	560	619	10.31	cps
Cadmium	106-1	13627	12666	12379	12891	5.07	cps
Cadmium	111-1	12776	11976	11547	12100	5.15	cps
Calcium	43-1	14940092	14941097	14559706	14813632	1.48	cps
Calcium	44-1	244807910	245059083	239720636	243195876	1.24	cps
Carbon	12-1	6384301	6359680	6310561	6351514	0.59	cps
Carbon	12-2	43066	42057	43782	42968	2.02	cps
Chlorine	35-1	299763376	307576122	305135269	304158255	1.31	cps
Chlorine	35-2	1353713	1391136	1495962	1413604	5.22	cps
Chromium	52-2	268546	274773	292162	278494	4.39	cps
Cobalt	59-2	142438	144491	156429	147786	5.11	cps
Copper	63-2	468968	482283	504526	485259	3.70	cps
Dysprosium	156-1	94947	93004	93356	93769	1.10	cps
Dysprosium	156-2	30151	31133	32910	31398	4.46	cps
Erbium	164-1	80961	80465	79328	80251	1.04	cps
Erbium	164-2	26243	26657	29082	27327	5.61	cps
Gadolinium	160-1	88947	87957	86059	87654	1.67	cps
Gadolinium	160-2	35878	36092	38435	36802	3.85	cps
Holmium	165-1	30114005	28508352	27756150	28792836	4.18	cps
Holmium	165-2	9758957	9793240	10505099	10019099	4.20	cps
Indium	115-1	24939353	23748821	23649606	24112593	2.98	cps
Indium	115-2	2420417	2435518	2586653	2480863	3.71	cps
Iron	54-2	8644802	8816938	9554768	9005503	5.37	cps
Iron	56-2	159793768	157074944	172510397	163126370	5.05	cps
Iron	57-2	4053007	4145909	4311903	4170273	3.15	cps
Krypton	83-1	763	887	813	821	7.55	cps
Lead	206-1	1481973	1455989	1456147	1464703	1.02	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1207221	1183293	1179576	1190030	1.26	cps
Lead	208-1	5803787	5754110	5691213	5749703	0.98	cps
Lithium	6-1	9359768	8743183	8748389	8950447	3.96	cps
Magnesium	24-2	12733987	12810122	13846524	13130211	4.73	cps
Manganese	55-2	2090239	2140321	2348707	2193089	6.25	cps
Molybdenum	94-1	131479	130993	129251	130574	0.90	cps
Molybdenum	95-1	80035	79690	78302	79342	1.16	cps
Molybdenum	96-1	101476	99409	98684	99856	1.45	cps
Molybdenum	97-1	48675	47912	47922	48170	0.91	cps
Molybdenum	98-1	125962	124174	123857	124664	0.91	cps
Neodymium	150-1	134416	132675	132224	133105	0.87	cps
Neodymium	150-2	32997	33117	34564	33560	2.60	cps
Nickel	60-2	126594	126483	134236	129104	3.44	cps
Phosphorus	31-2	3731	3731	3921	3794	2.89	cps
Potassium	39-2	463487	466543	500801	476944	4.34	cps
Rhodium	103-1	23110827	21556670	21530341	22065946	4.10	cps
Rhodium	103-2	8324474	8369281	8962521	8552092	4.16	cps
Scandium	45-1	19840463	18748591	18841754	19143603	3.16	cps
Scandium	45-2	359262	363406	391676	371448	4.75	cps
Selenium	82-1	54	24	10	30	76.26	cps
Selenium	77-2	233	207	247	229	8.90	cps
Selenium	78-2	123	110	137	123	10.81	cps
Silicon	28-1	114779645	112332378	109968182	112360068	2.14	cps
Silver	107-1	4931	3651	3834	4138	16.73	cps
Silver	109-1	4517	3454	3287	3753	17.79	cps
Sodium	23-2	631708	651614	682059	655127	3.87	cps
Strontium	86-1	5970139	6049707	6037982	6019276	0.71	cps
Strontium	88-1	51784459	51137894	51153483	51358612	0.72	cps
Sulfur	34-1	994151	998169	960500	984273	2.10	cps
Terbium	159-1	30895349	28948792	28836970	29560370	3.92	cps
Terbium	159-2	9693071	9565039	10254068	9837393	3.73	cps
Thallium	203-1	7889	7552	7462	7635	2.95	cps
Thallium	205-1	17872	17986	17535	17798	1.32	cps
Tin	118-1	88014	87913	86699	87542	0.84	cps
Titanium	47-1	1035280	1033239	1015587	1028036	1.05	cps
Uranium	238-1	121859	119718	118473	120017	1.43	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	P5233-06	Instrumnet Name :	P8
Client Sample ID :	ME28S0	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:08:25	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	169723	172941	183686	175450	4.17	cps
Ytterbium	172-1	22880	23134	22686	22900	0.98	cps
Ytterbium	172-2	9107	9700	9854	9554	4.13	cps
Ytterbium	176-1	18092	18426	17966	18161	1.31	cps
Ytterbium	176-2	6318	6572	6802	6564	3.68	cps
Yttrium	89-1	42069639	40084402	41000028	41051356	2.42	cps
Yttrium	89-2	2920904	2988871	3195103	3034959	4.70	cps
Zinc	66-2	95811	99103	104421	99778	4.35	cps
Zirconium	90-1	244794	239562	237788	240714	1.51	cps
Zirconium	91-1	52441	53676	52409	52842	1.37	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4548972	4518561	4498990	4522174	0.56	cps
Antimony	121-1	9499407	9551136	9465341	9505295	0.45	cps
Arsenic	75-2	200726	200438	198596	199920	0.58	cps
Barium	135-1	12781241	12524869	12940164	12748758	1.64	cps
Barium	137-1	21541651	21352283	21749830	21547921	0.92	cps
Beryllium	9-1	3001216	3047937	2999732	3016295	0.91	cps
Bismuth	209-1	16101769	16478999	16440849	16340539	1.27	cps
Bismuth	209-2	6546822	6628999	6664538	6613453	0.91	cps
Bromine	81-1	13036	12703	12883	12874	1.30	cps
Cadmium	108-1	190145	186247	186475	187622	1.17	cps
Cadmium	106-1	283808	282153	278162	281374	1.03	cps
Cadmium	111-1	2377367	2412426	2357957	2382583	1.16	cps
Calcium	43-1	18985701	18934689	18743518	18887969	0.68	cps
Calcium	44-1	316285189	310954595	311409509	312883098	0.94	cps
Carbon	12-1	5507498	5696556	5703923	5635992	1.98	cps
Carbon	12-2	44173	44637	43695	44168	1.07	cps
Chlorine	35-1	18627275	17087085	16053671	17256010	7.51	cps
Chlorine	35-2	58759	56915	53622	56432	4.61	cps
Chromium	52-2	2444170	2421838	2468164	2444724	0.95	cps
Cobalt	59-2	4340349	4364284	4351119	4351917	0.28	cps
Copper	63-2	34374530	34476556	34058867	34303318	0.63	cps
Dysprosium	156-1	740	690	767	732	5.32	cps
Dysprosium	156-2	153	220	137	170	25.94	cps
Erbium	164-1	700	747	697	714	3.91	cps
Erbium	164-2	247	227	180	218	15.71	cps
Gadolinium	160-1	613	613	610	612	0.31	cps
Gadolinium	160-2	200	200	170	190	9.12	cps
Holmium	165-1	29740605	30704438	30281193	30242078	1.60	cps
Holmium	165-2	10173534	10206820	10446397	10275584	1.45	cps
Indium	115-1	23860813	24437031	24138087	24145310	1.19	cps
Indium	115-2	2468931	2459631	2450020	2459528	0.38	cps
Iron	54-2	23766367	24519870	24106914	24131050	1.56	cps
Iron	56-2	448738833	441365460	443798780	444634358	0.84	cps
Iron	57-2	11154945	11115020	11131322	11133762	0.18	cps
Krypton	83-1	463	570	487	507	11.07	cps
Lead	206-1	36910703	37106894	36451204	36822933	0.91	cps

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	31961728	31377789	31706115	31681877	0.92	cps
Lead	208-1	146935398	145303483	145917343	146052074	0.56	cps
Lithium	6-1	9334843	9689539	9772871	9599084	2.42	cps
Magnesium	24-2	74435901	73452237	73405732	73764623	0.79	cps
Manganese	55-2	10035656	10098061	10093606	10075775	0.35	cps
Molybdenum	94-1	38653980	38572844	38434009	38553611	0.29	cps
Molybdenum	95-1	56043508	54946278	56009321	55666369	1.12	cps
Molybdenum	96-1	60297984	59542476	60112262	59984241	0.66	cps
Molybdenum	97-1	33565258	33822370	33725165	33704264	0.39	cps
Molybdenum	98-1	89331452	88273909	87740135	88448499	0.92	cps
Neodymium	150-1	1280	1493	1347	1373	7.95	cps
Neodymium	150-2	100	113	163	126	26.59	cps
Nickel	60-2	1201051	1208366	1202841	1204086	0.32	cps
Phosphorus	31-2	43050	41894	41559	42168	1.86	cps
Potassium	39-2	25489089	25565714	25492547	25515783	0.17	cps
Rhodium	103-1	21172368	21241240	21174348	21195985	0.18	cps
Rhodium	103-2	7952224	8063700	8096185	8037370	0.94	cps
Scandium	45-1	18848055	18661141	19320730	18943309	1.79	cps
Scandium	45-2	355450	363507	361384	360114	1.16	cps
Selenium	82-1	156534	153958	153363	154618	1.09	cps
Selenium	77-2	2757	2784	2857	2799	1.85	cps
Selenium	78-2	9280	9373	9320	9324	0.50	cps
Silicon	28-1	146702894	144673265	141791051	144389070	1.71	cps
Silver	107-1	12203975	12319986	11943130	12155697	1.59	cps
Silver	109-1	11653660	11530950	11461975	11548862	0.84	cps
Sodium	23-2	161289761	161858218	158605058	160584345	1.08	cps
Strontium	86-1	3679703	3695663	3647385	3674251	0.67	cps
Strontium	88-1	32144727	31489806	31609438	31747990	1.10	cps
Sulfur	34-1	1616825	1575299	1584597	1592240	1.37	cps
Terbium	159-1	29499237	30620497	31040607	30386780	2.62	cps
Terbium	159-2	9854370	9955230	10016016	9941872	0.82	cps
Thallium	203-1	9202087	9233966	8984130	9140061	1.49	cps
Thallium	205-1	21851865	21891220	21511889	21751658	0.96	cps
Tin	118-1	8251328	8469724	8329913	8350322	1.32	cps
Titanium	47-1	17826748	17405841	17588828	17607139	1.20	cps
Uranium	238-1	31320190	30658255	30725039	30901161	1.18	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:11:37	DataFile Name :	121CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1903930	1936662	1891036	1910543	1.23	cps
Ytterbium	172-1	820	697	660	726	11.55	cps
Ytterbium	172-2	333	320	313	322	3.16	cps
Ytterbium	176-1	48278	49104	48623	48668	0.85	cps
Ytterbium	176-2	16460	16637	16694	16597	0.73	cps
Yttrium	89-1	39119640	39640054	40556648	39772114	1.83	cps
Yttrium	89-2	2890108	2910234	2932557	2910966	0.73	cps
Zinc	66-2	3351048	3356861	3344632	3350847	0.18	cps
Zirconium	90-1	19732367	20036269	20015701	19928112	0.85	cps
Zirconium	91-1	4506417	4434582	4411654	4450884	1.11	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	233	247	187	222	14.18	cps
Antimony	121-1	2364	2337	1917	2206	11.36	cps
Arsenic	75-2	10	3	23	12	83.33	cps
Barium	135-1	290	313	317	307	4.74	cps
Barium	137-1	490	510	480	493	3.10	cps
Beryllium	9-1	966	911	789	889	10.20	cps
Bismuth	209-1	16914316	18762181	18402599	18026366	5.43	cps
Bismuth	209-2	7904286	7726568	7776537	7802464	1.17	cps
Bromine	81-1	13160	13570	13650	13460	1.95	cps
Cadmium	108-1	60	50	43	51	16.42	cps
Cadmium	106-1	10918	12159	12402	11826	6.73	cps
Cadmium	111-1	7804	8643	8765	8404	6.23	cps
Calcium	43-1	1417	1533	1407	1452	4.85	cps
Calcium	44-1	36533	37399	36357	36763	1.52	cps
Carbon	12-1	4581798	4655158	4666350	4634435	0.99	cps
Carbon	12-2	29109	28965	29309	29128	0.59	cps
Chlorine	35-1	9187243	8462453	8070617	8573438	6.61	cps
Chlorine	35-2	30569	28531	28047	29049	4.61	cps
Chromium	52-2	2140	2200	2217	2186	1.85	cps
Cobalt	59-2	193	193	203	197	2.94	cps
Copper	63-2	5338	5198	5201	5245	1.52	cps
Dysprosium	156-1	13	10	13	12	15.73	cps
Dysprosium	156-2	10	10	7	9	21.63	cps
Erbium	164-1	117	107	107	110	5.25	cps
Erbium	164-2	57	27	50	44	35.44	cps
Gadolinium	160-1	167	173	173	171	2.25	cps
Gadolinium	160-2	33	30	40	34	14.78	cps
Holmium	165-1	28586665	31622908	31053193	30420922	5.31	cps
Holmium	165-2	11006363	10951244	10753395	10903667	1.22	cps
Indium	115-1	23318575	26776289	26410587	25501817	7.45	cps
Indium	115-2	2787000	2725142	2749399	2753847	1.13	cps
Iron	54-2	1300	1240	1227	1256	3.11	cps
Iron	56-2	19167	19027	21404	19866	6.71	cps
Iron	57-2	540	517	467	508	7.38	cps
Krypton	83-1	383	320	280	328	15.90	cps
Lead	206-1	3377	3377	3284	3346	1.61	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3054	2870	2617	2847	7.70	cps
Lead	208-1	13670	13243	12463	13125	4.66	cps
Lithium	6-1	9820406	10406307	10873475	10366729	5.09	cps
Magnesium	24-2	2154	1507	1997	1886	17.89	cps
Manganese	55-2	547	470	543	520	8.34	cps
Molybdenum	94-1	2527	2240	2054	2274	10.49	cps
Molybdenum	95-1	3270	2460	2434	2721	17.48	cps
Molybdenum	96-1	3911	2897	2717	3175	20.27	cps
Molybdenum	97-1	1883	1560	1367	1603	16.28	cps
Molybdenum	98-1	5128	4391	3254	4258	22.18	cps
Neodymium	150-1	30	10	27	22	48.22	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	873	927	920	907	3.21	cps
Phosphorus	31-2	107	80	83	90	16.15	cps
Potassium	39-2	19897	19189	18862	19316	2.74	cps
Rhodium	103-1	22373017	24423241	24532886	23776382	5.12	cps
Rhodium	103-2	9561275	9477874	9558597	9532582	0.50	cps
Scandium	45-1	17493621	20049174	19858035	19133610	7.44	cps
Scandium	45-2	380919	378085	376804	378602	0.56	cps
Selenium	82-1	-50	13	10	-9	-405.49	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	27	20	22	17.33	cps
Silicon	28-1	1101236	894425	918436	971366	11.64	cps
Silver	107-1	2410	1997	1913	2107	12.63	cps
Silver	109-1	2204	1850	1687	1913	13.80	cps
Sodium	23-2	128594	123870	123591	125352	2.24	cps
Strontium	86-1	743	727	640	703	7.89	cps
Strontium	88-1	1433	1473	1353	1420	4.30	cps
Sulfur	34-1	643299	649393	651068	647920	0.63	cps
Terbium	159-1	28664256	31879309	31667482	30737016	5.85	cps
Terbium	159-2	10843259	10622525	10551100	10672295	1.43	cps
Thallium	203-1	1650	1363	1303	1439	12.88	cps
Thallium	205-1	3681	3414	3100	3398	8.55	cps
Tin	118-1	4988	4521	4938	4815	5.32	cps
Titanium	47-1	820	800	750	790	4.56	cps
Uranium	238-1	513	590	420	508	16.77	cps

Reviewed By:Mohan
On:12/16/2024 6:59:38 AM
Inst Id :P8

LB Number :	LB133950	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2024-12-13 20:14:18	DataFile Name :	122CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	60	40	52	20.52	cps
Ytterbium	172-1	197	147	140	161	19.22	cps
Ytterbium	172-2	97	67	97	87	19.98	cps
Ytterbium	176-1	2890	3270	3667	3276	11.86	cps
Ytterbium	176-2	557	593	600	583	4.00	cps
Yttrium	89-1	37255054	41535891	41058758	39949901	5.87	cps
Yttrium	89-2	3081309	3094476	3093311	3089698	0.24	cps
Zinc	66-2	913	983	913	937	4.32	cps
Zirconium	90-1	2240	2277	2057	2191	5.38	cps
Zirconium	91-1	413	537	463	471	13.17	cps

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Prep Standard - Chemical Standard Summary

Order ID : P5158

Test : Metals CLP4 MS

Prepbatch ID : PB165563,

Sequence ID/Qc Batch ID: LB133950,

Standard ID :
MP82128,MP83014,MP83016,MP83032,MP83033,MP83034,MP83035,MP83036,MP83037,MP83038,MP83039,MP830
41,MP83042,MP83043,MP83044,MP83046,MP83047,MP83048,MP83049,MP83050,MP83498,

Chemical ID :
M5192,M5288,M5289,M5294,M5304,M5390,M5476,M5498,M5513,M5515,M5519,M5658,M5698,M5739,M5751,M5769
,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5961,M596
2,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6040,M6055,M60
95,M6115,M6126,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
641	1:4 HCL	MP82128	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83014	11/02/2024	12/14/2024	Sarabjit Jaswal	None	None	Mohan Bera 11/04/2024

FROM 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP83016	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5769 + 5.00000ml of M5806 + 79.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP83032	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.40000ml of M5513 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6115 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6095 + 50.00000ml of M5304 + 832.80000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5751 + 9.90000ml of M5769 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP83033	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 48.50000ml of W3112 + 50.00000ml of MP83032 = 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)	MP83034	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 86.00000ml of W3112 + 12.50000ml of MP83032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP83035	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 73.50000ml of W3112 + 25.00000ml of MP83032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP83036	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 48.50000ml of W3112 + 10.00000ml of MP83033 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP83037	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6095 + 226.25000ml of W3112 + 5.00000ml of M6115 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP83038	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 0.50000ml of MP83037 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP83039	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83038 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP83041	11/02/2024	12/13/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M5294 + 98.00000ml of MP83014 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP83042	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5476 + 10.00000ml of M6115 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5769 + 24.95000ml of M5806 + 25.00000ml of M5304 + 4.50000ml of M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6095 + 823.45000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP83043	11/02/2024	12/13/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP83044	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3964	CONC.LCSS SPIKE	MP83046	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5982 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.25000ml of M5192 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5769 + 12.50000ml of M5806 + 12.52000ml of M5519 + 156.23000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5818 + 5.00000ml of M5515 + 5.00000ml of M6095 + 5.00000ml of M6115 + 6.25000ml of M5816 + 6.25000ml of M5820 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP83047	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83014 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP83048	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.01000ml of M5769 + 9.99000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP83049	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP83048 + 98.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP83050	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 5.00000ml of M6115 + 75.00000ml of M5739 + 30.00000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83498	12/09/2024	12/28/2024	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

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 #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	01/01/2025	12/13/2023 / bin	04/20/2021 / bin	M5294

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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CHEMICAL RECEIPT LOG BOOK

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	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

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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)	24B1362001	05/04/2025	11/02/2024 / Janvi	09/29/2024 / Eman	M6115

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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	V2-MEB742036
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

758

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	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)

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

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

R 8/15/24

M6028

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762

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

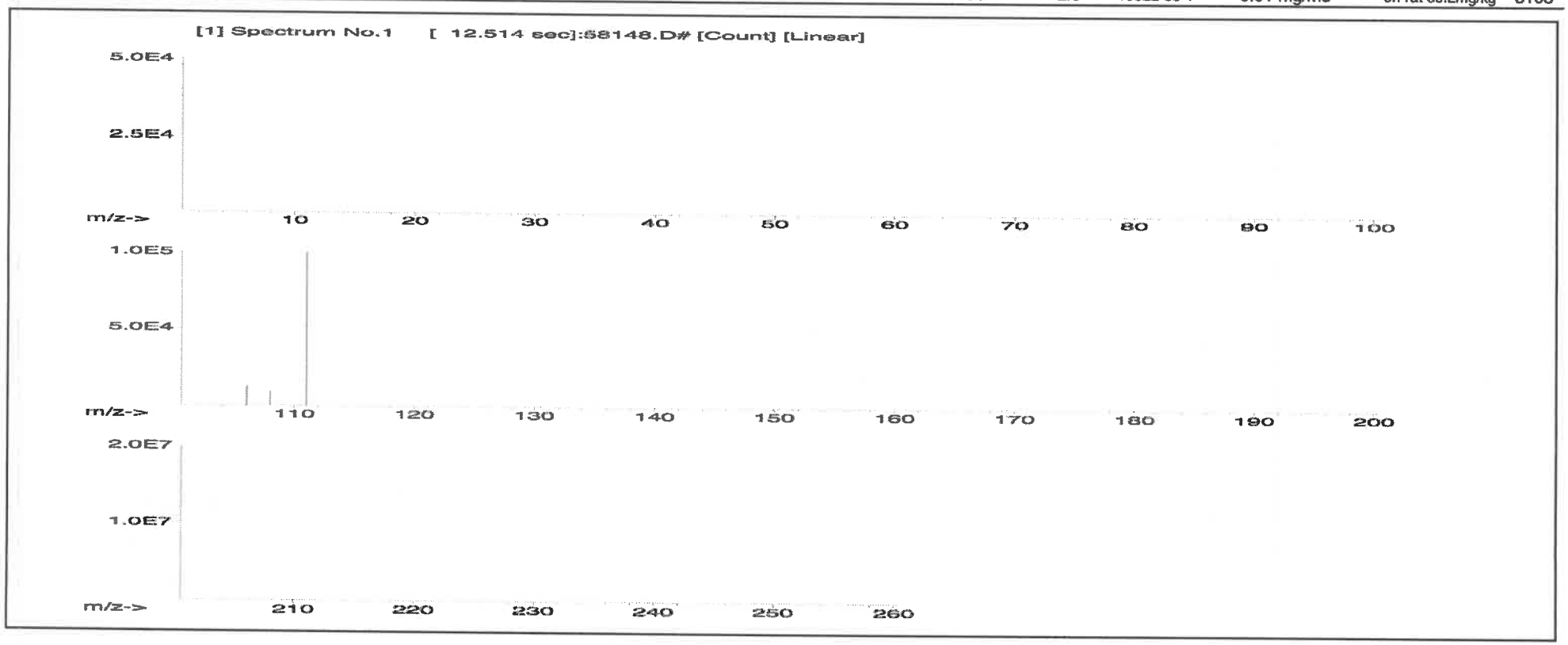
Aleah O'Brady

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



763

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/5/24 M6025

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764

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

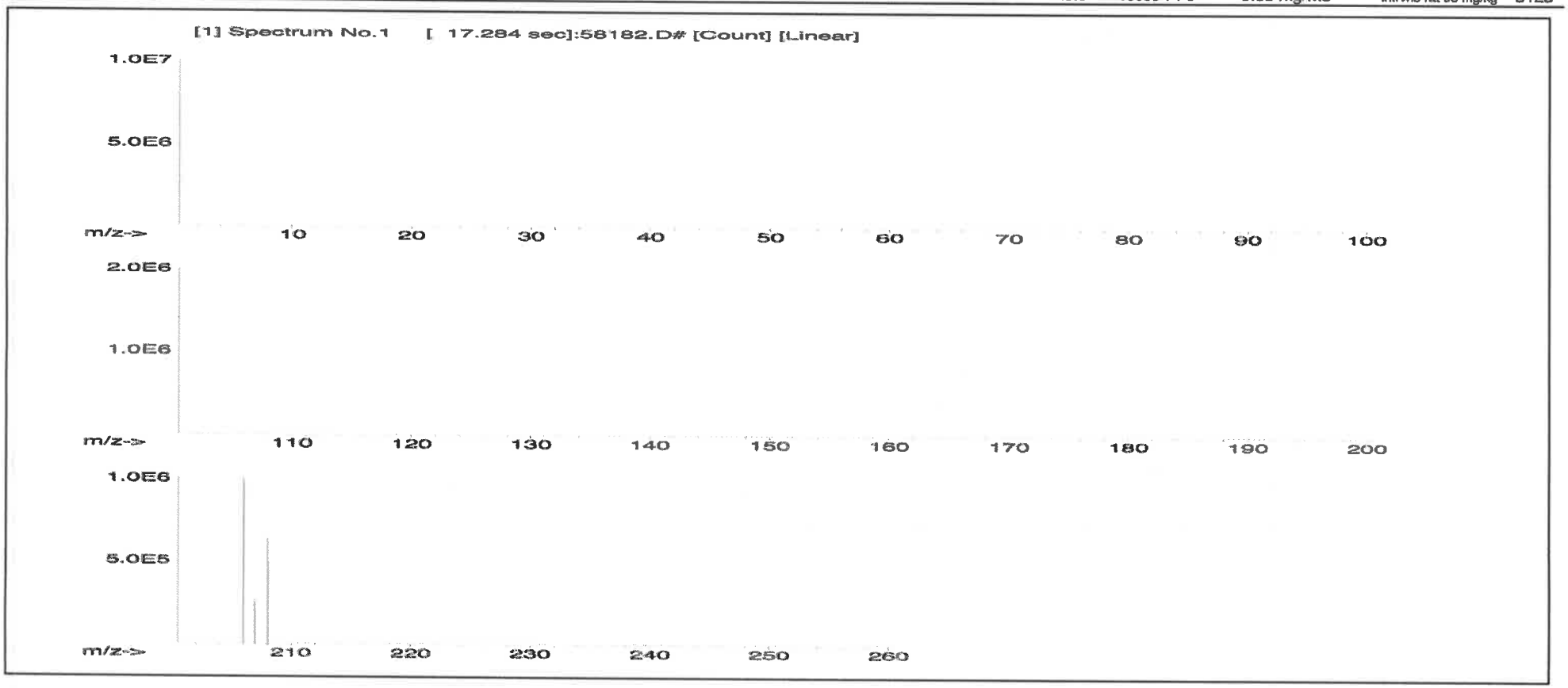
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 ± 0.058 Flask Uncertainty

		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



765

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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

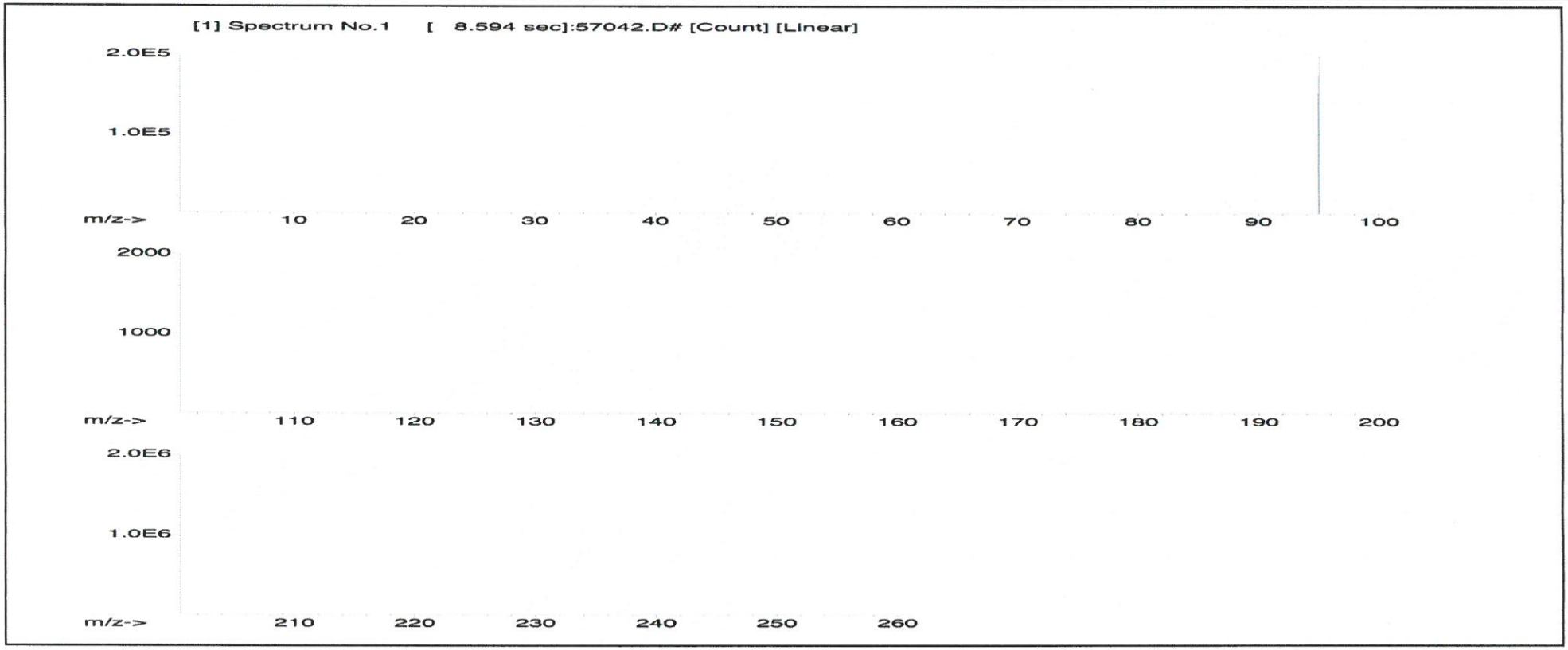
Lot #	Solvent:			
MKBQ8597V	Ammonium hydroxide	0.5%	15.0 (mL)	Ammonium hydroxide

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 051722
Reviewed By: Pedro L. Rentas 051722

7997

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



797

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5288 R: 07/21/2022

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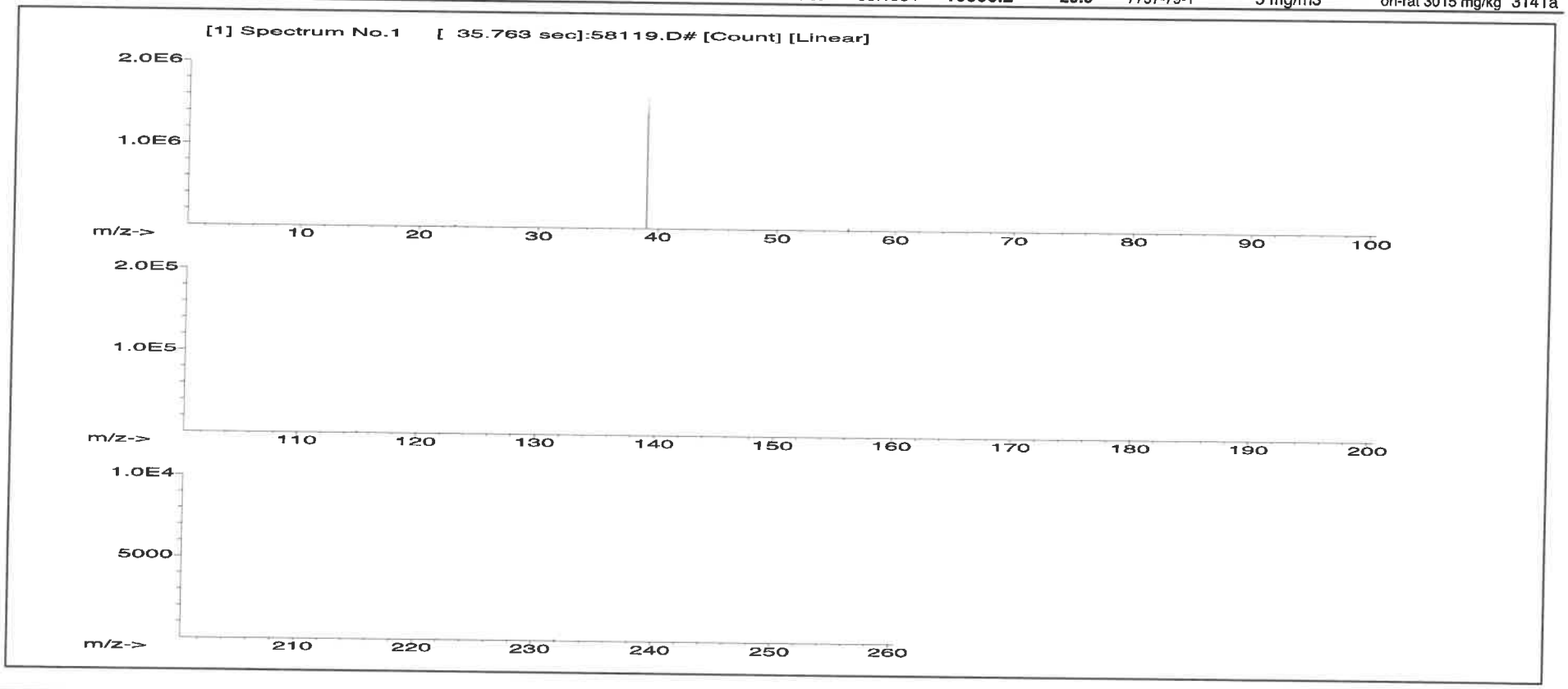
7688

CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**58119**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**071122**			
Description:	**Potassium (K)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	071125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5289 R: 07/12/22 BH

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

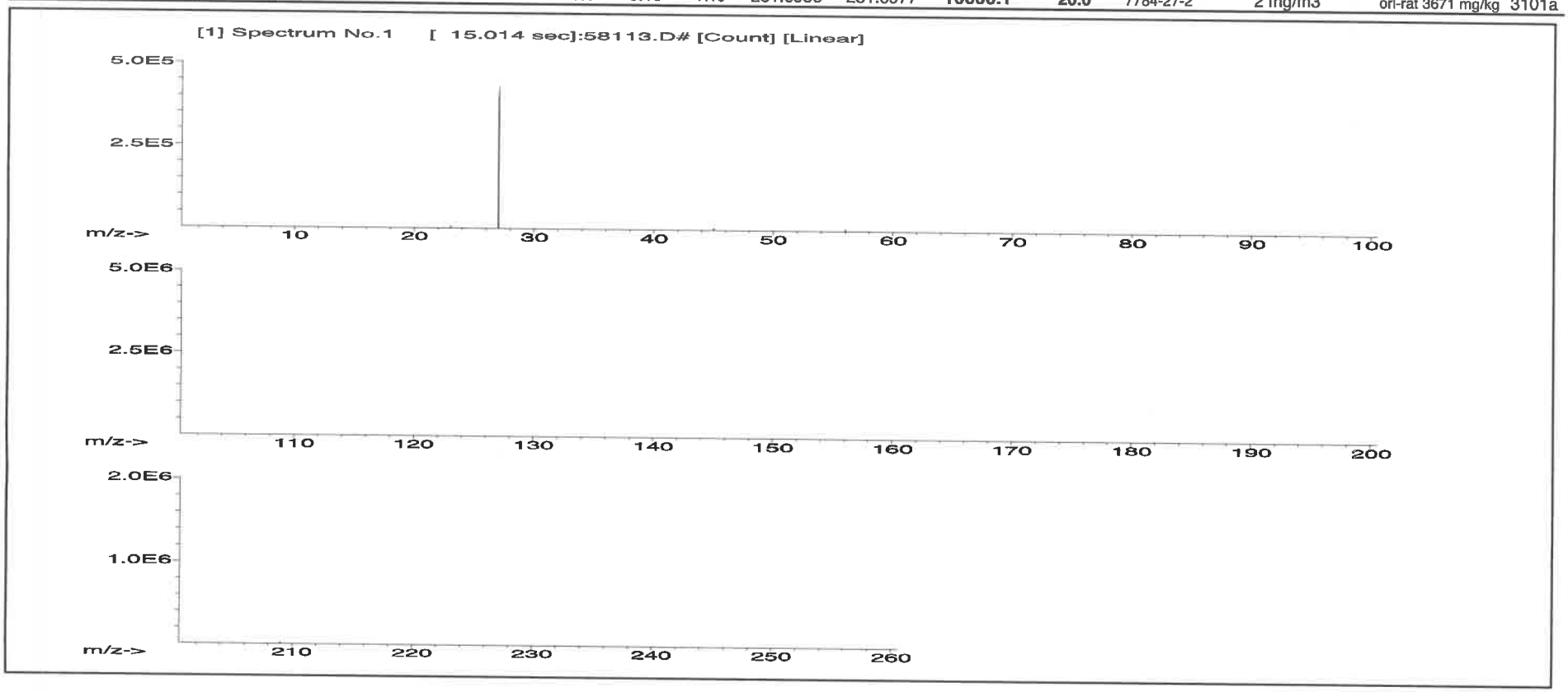
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
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:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

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	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



070

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (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	<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:

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QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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
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R:09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

778

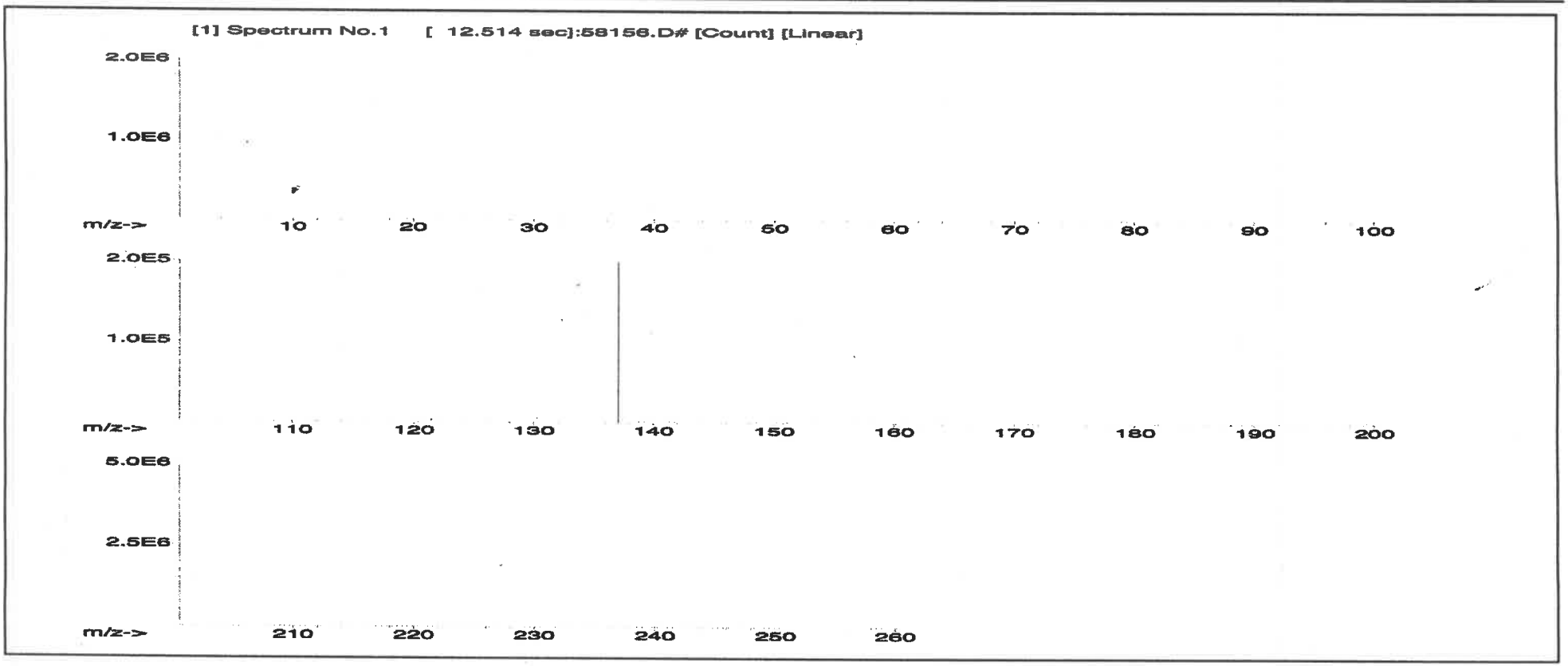
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

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	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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).

6179

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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

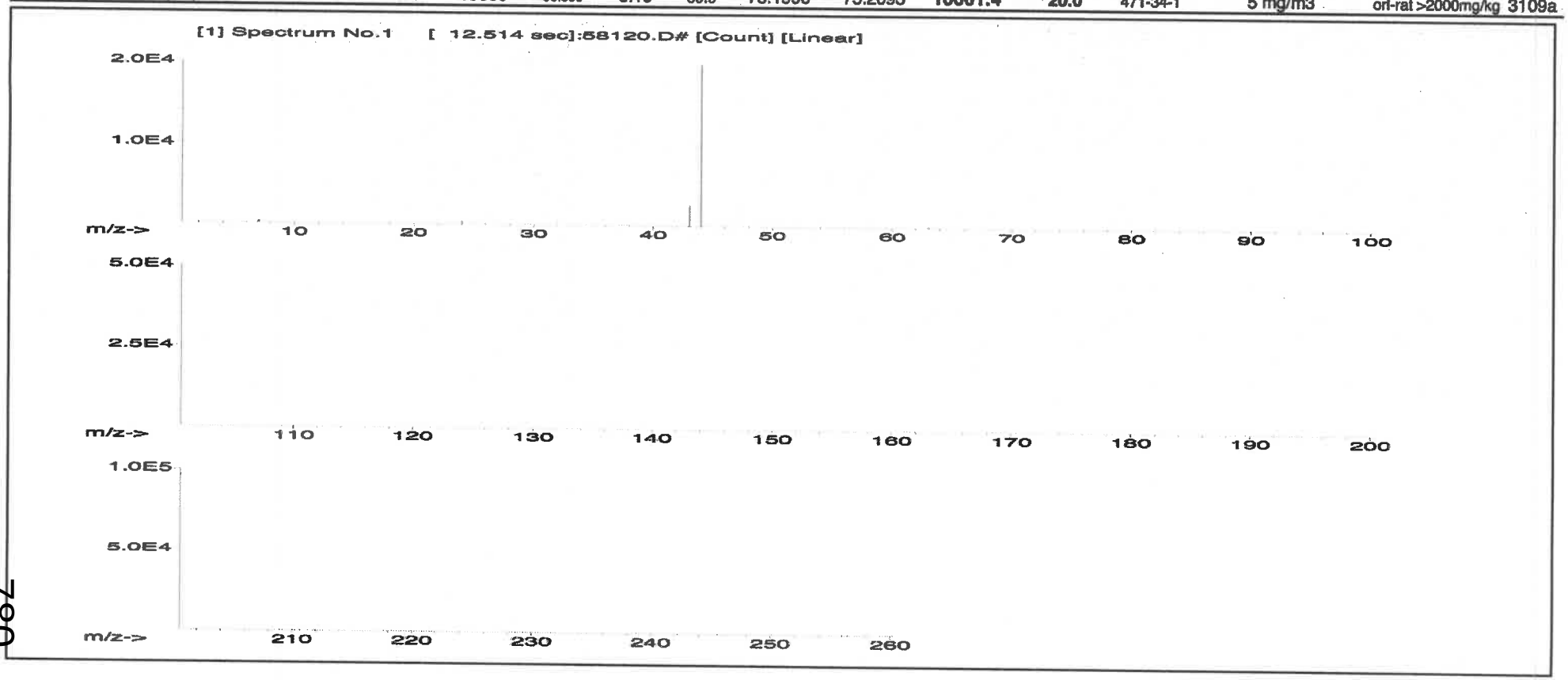
5E-05 Balance Uncertainty

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



780

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).

T84

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Certified Reference Material CRM

MS513 R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

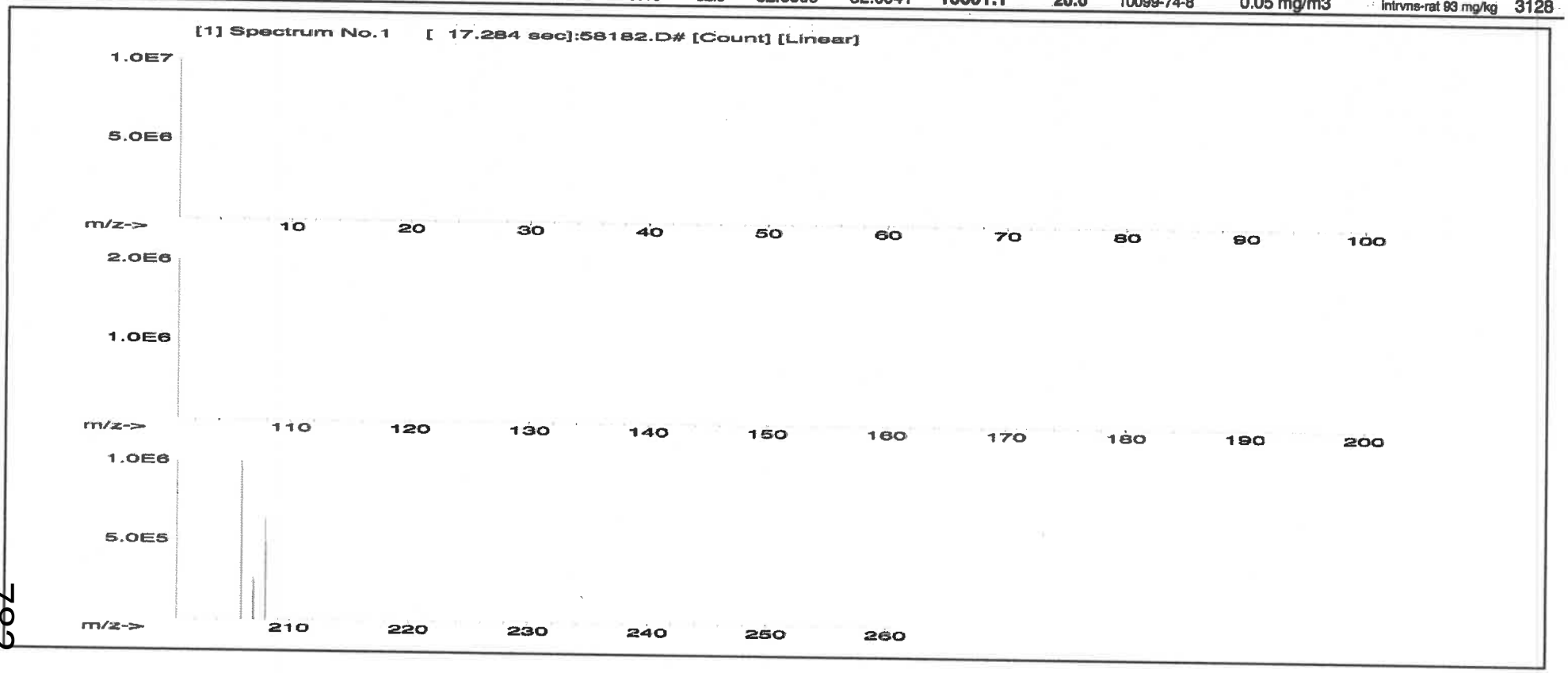
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



782

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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5514 , M5515 R: 03/17/23

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784

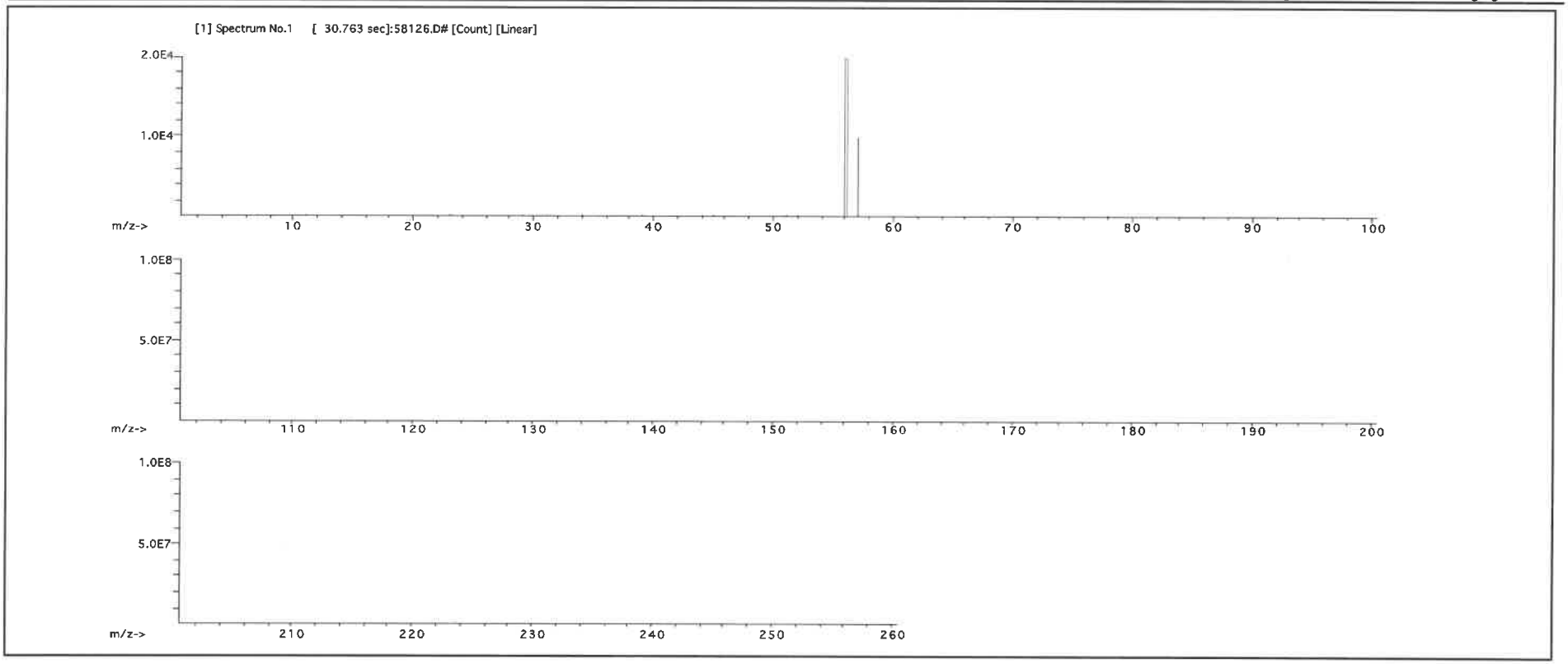
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**		**Solvent:**	20510011	Nitric Acid
Description:	**Iron (Fe)**		7.0%	350.0 (mL)	Nitric Acid
Expiration Date:	092125				
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):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

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	2224912-500	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



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	<0.05
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:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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785

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M5519. M5520 (BH) R:03/17/23

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786

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

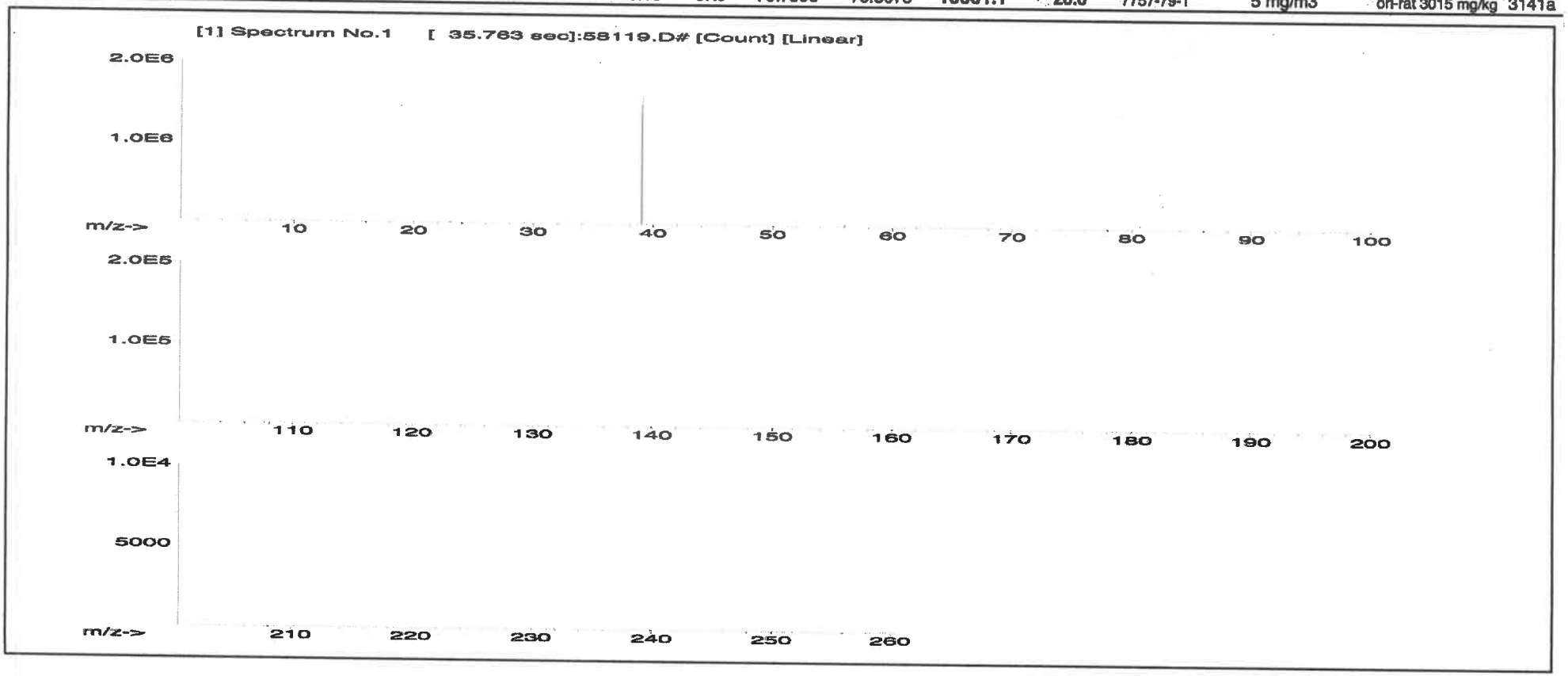
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
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



787

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:



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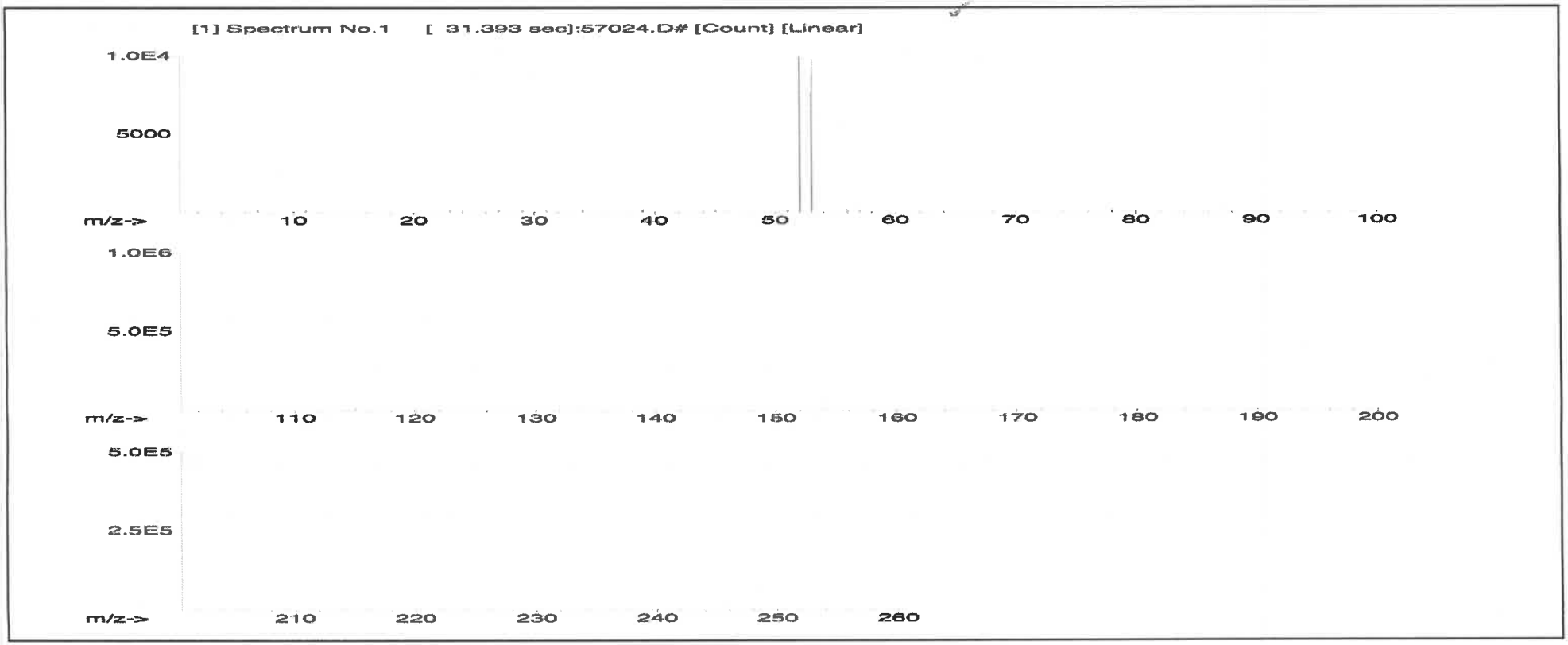
788

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



789

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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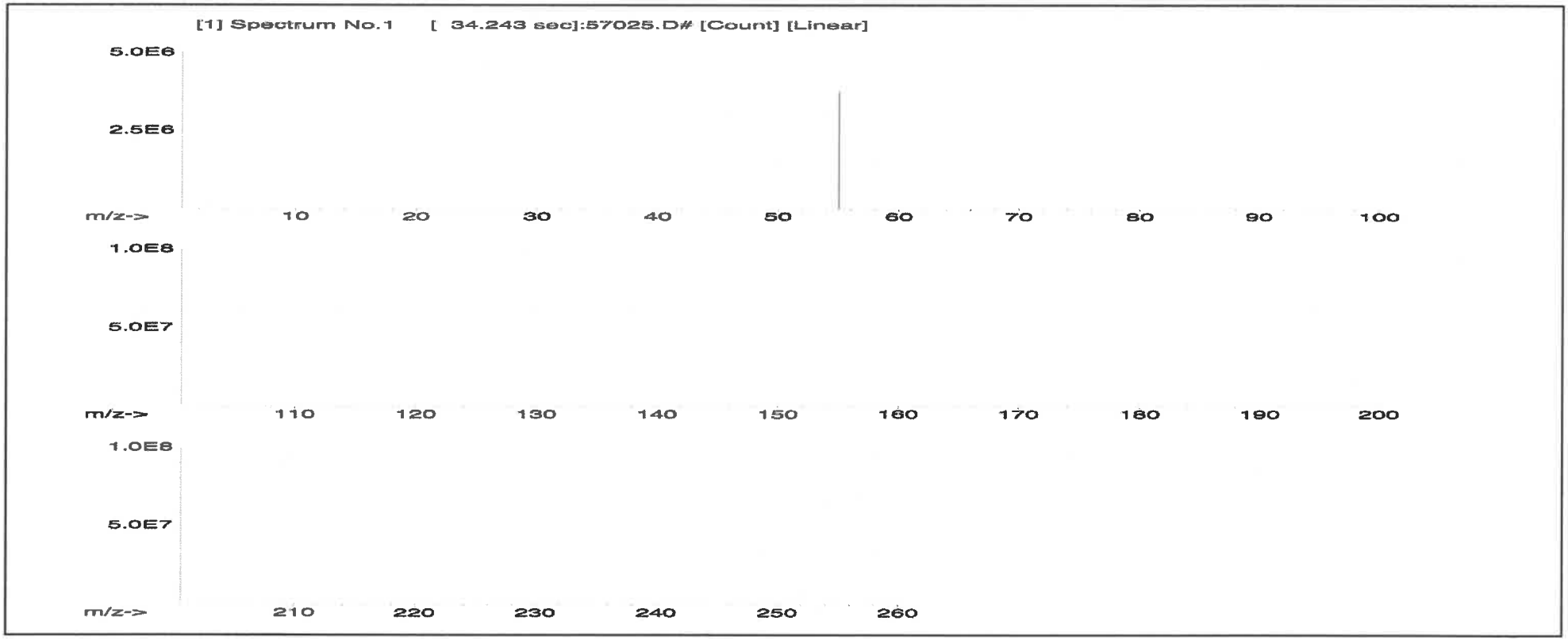
790

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
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:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

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. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



791

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:

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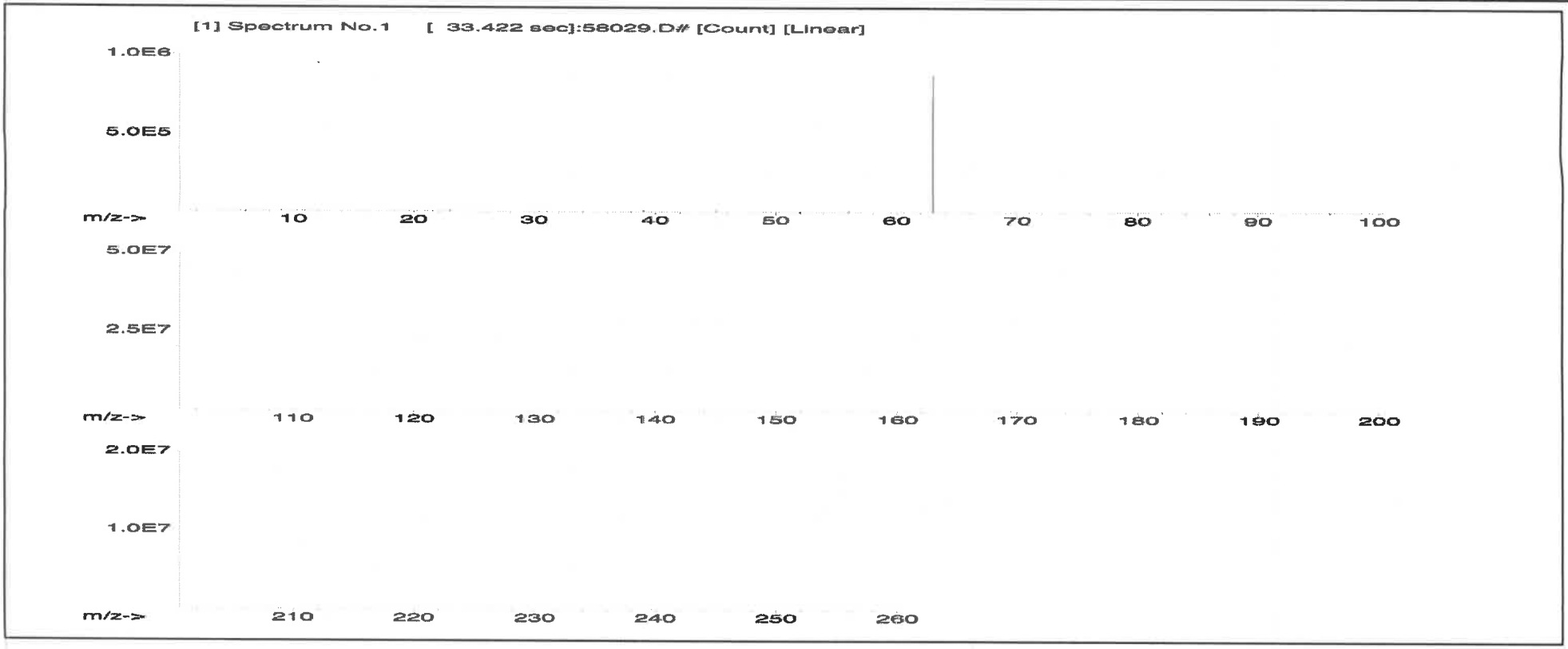
792

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



793

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5768 M5769 (BP) R:1/3/24

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794

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
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

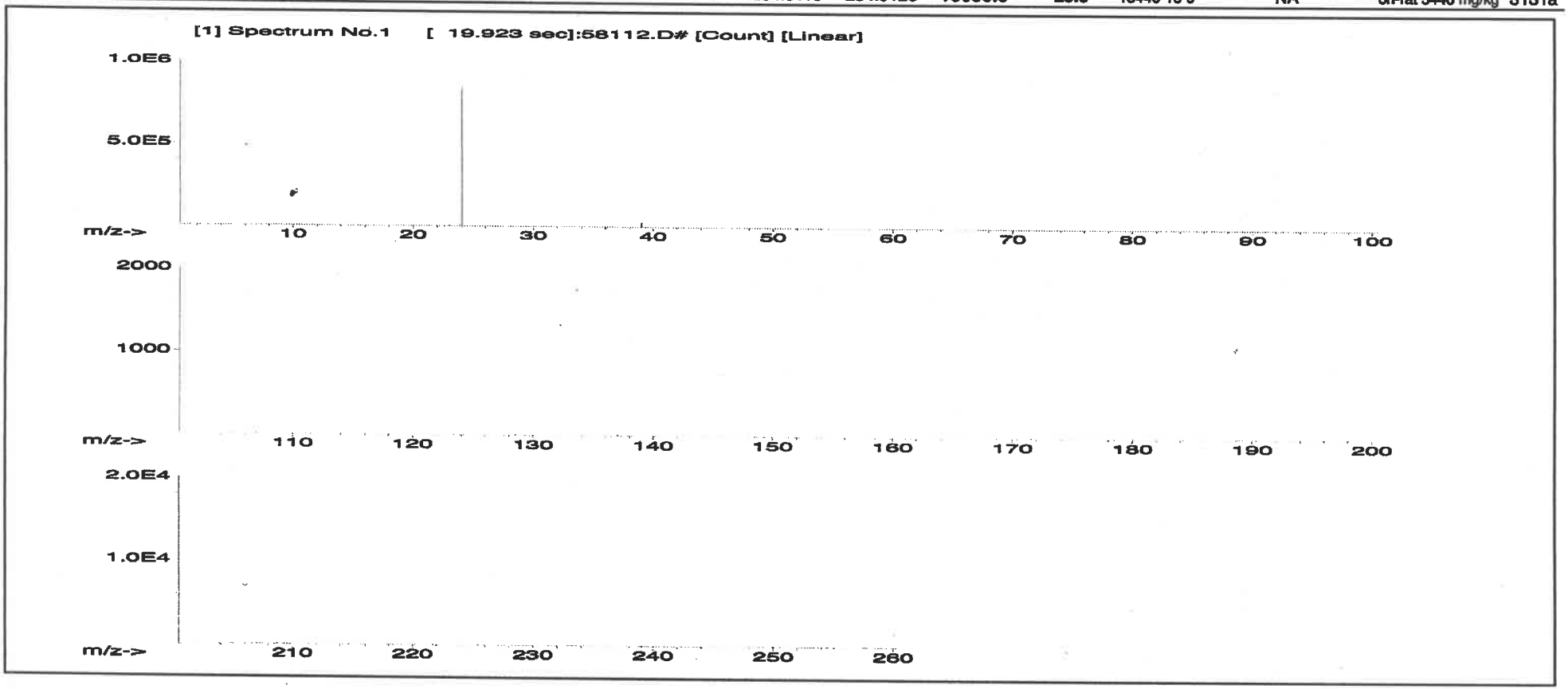
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

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	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



795

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.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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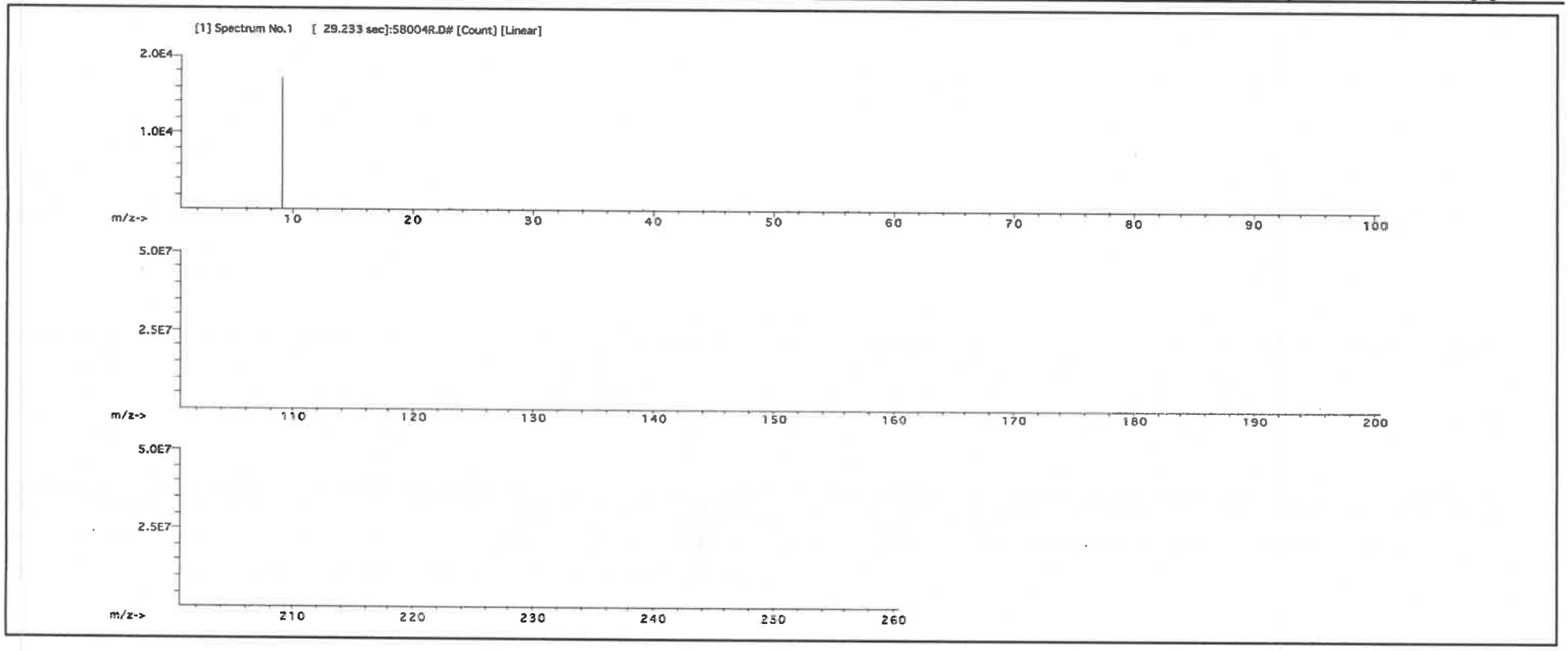
796

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

797

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798

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

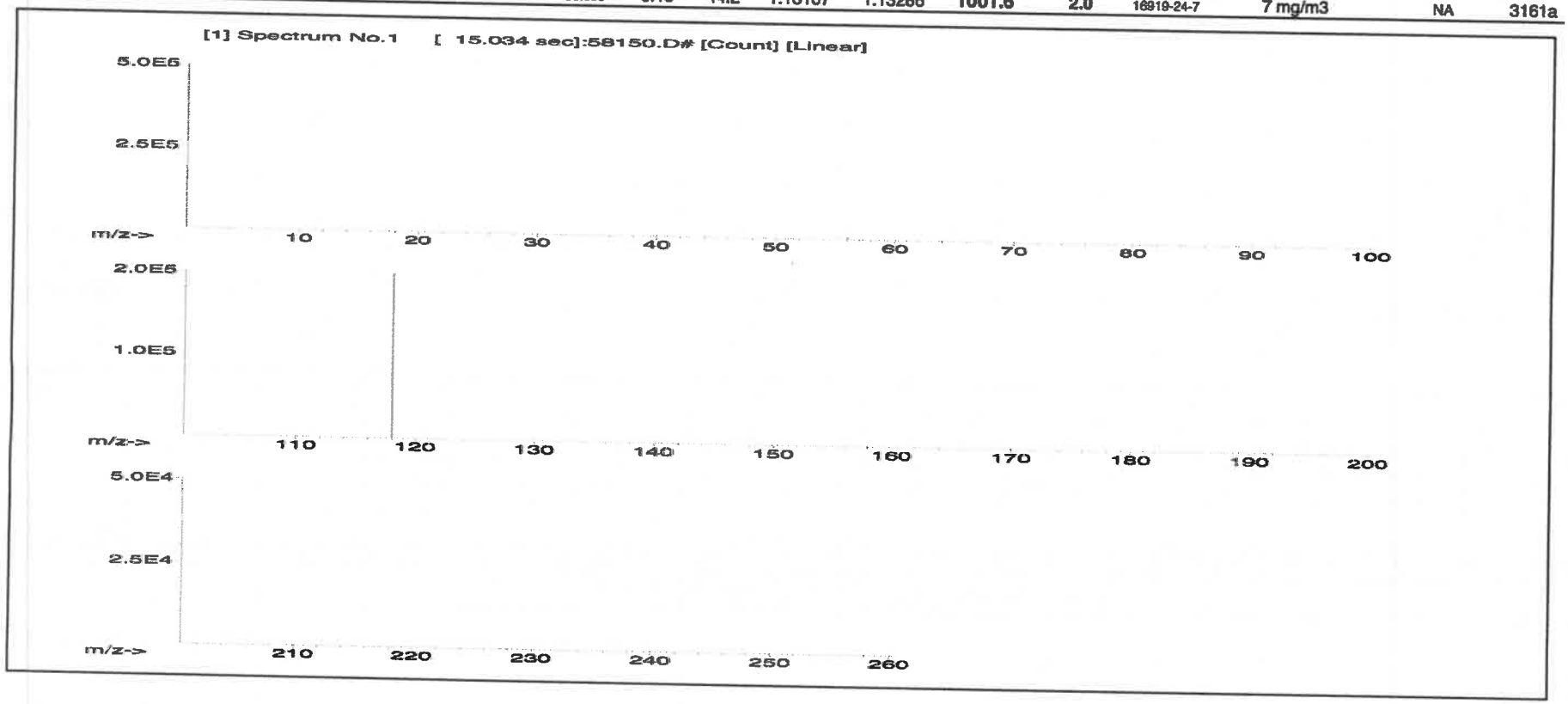
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



799

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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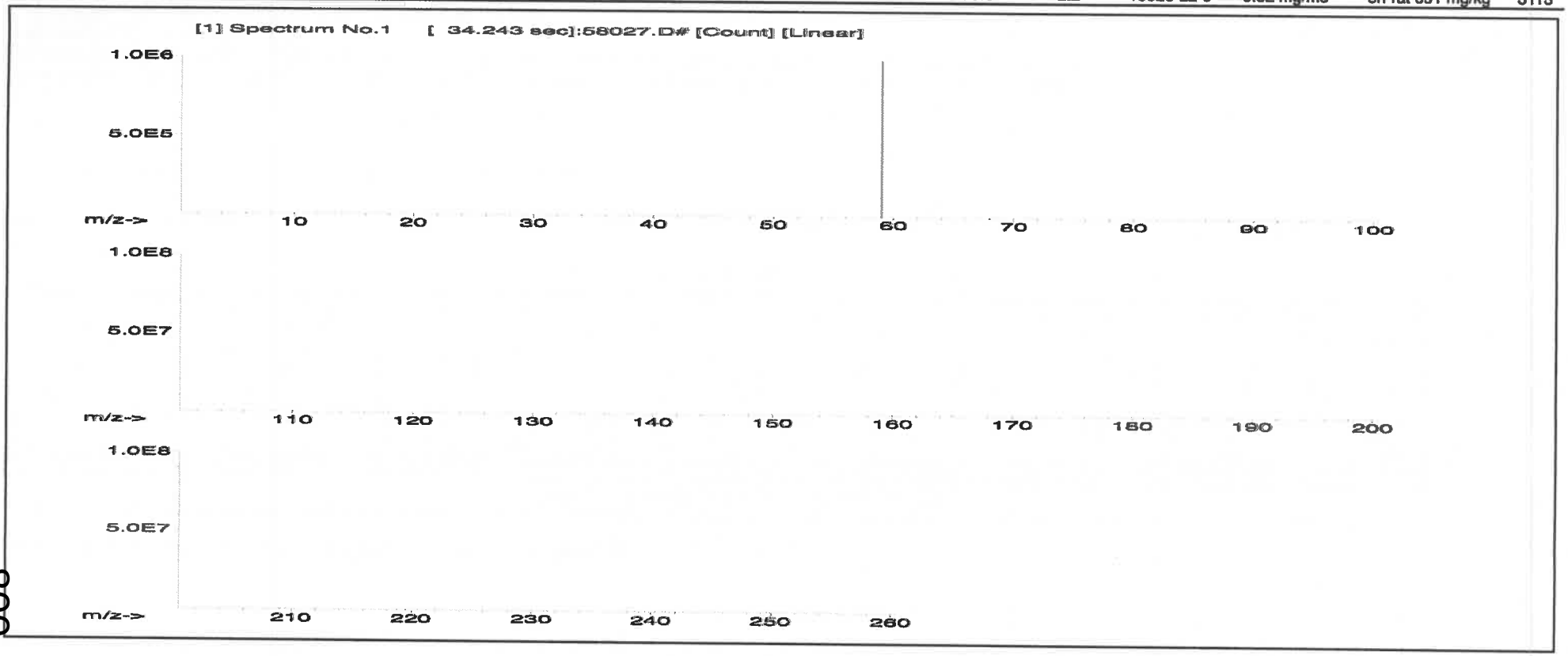
CERTIFIED WEIGHT REPORT:

		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



008

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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).

801

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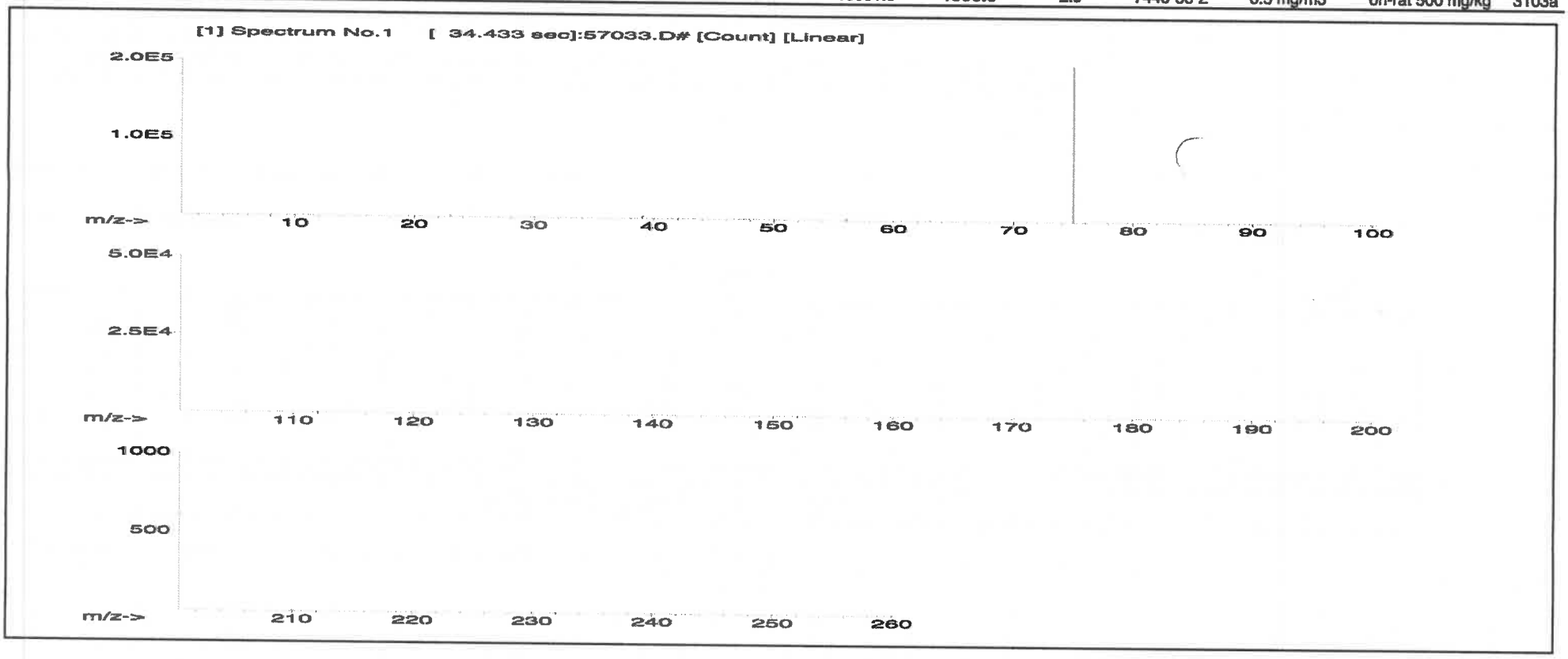
802

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



803

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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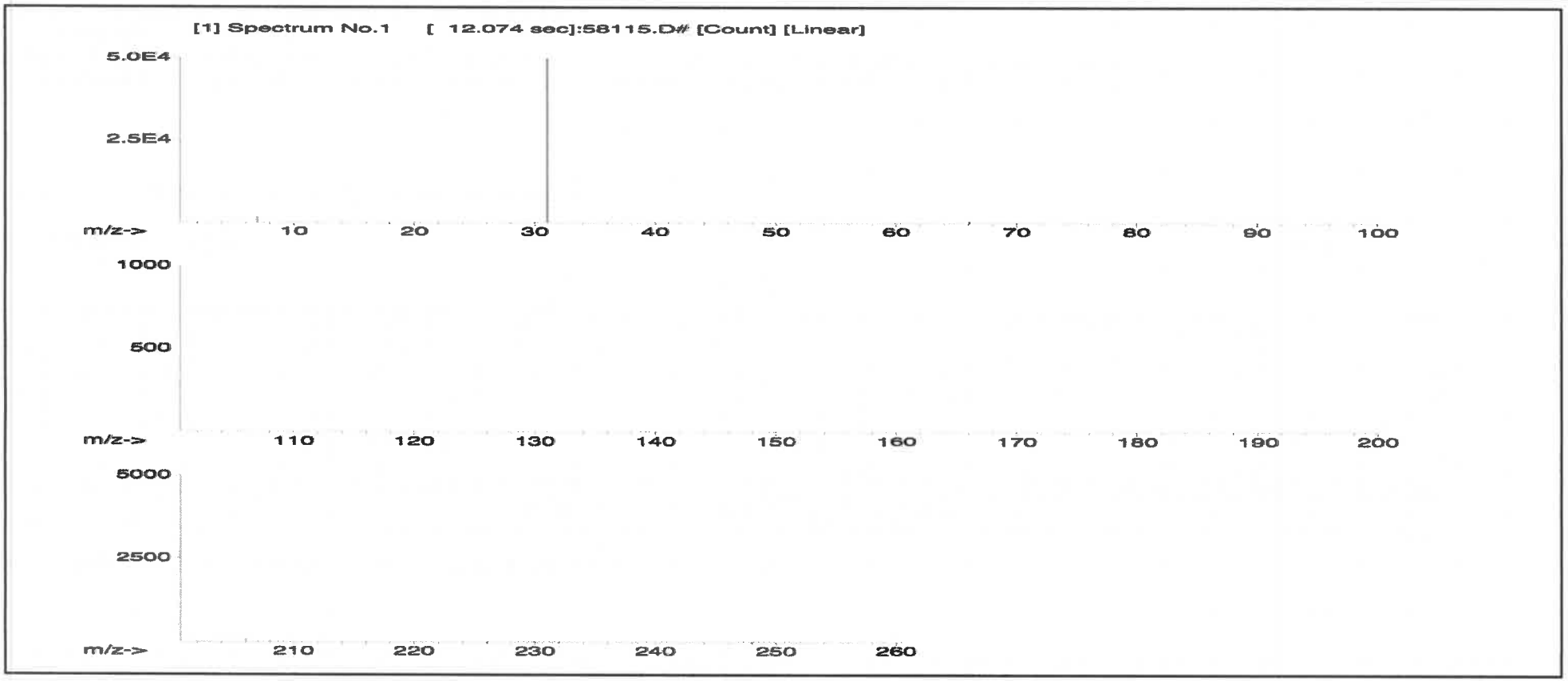
804

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



805

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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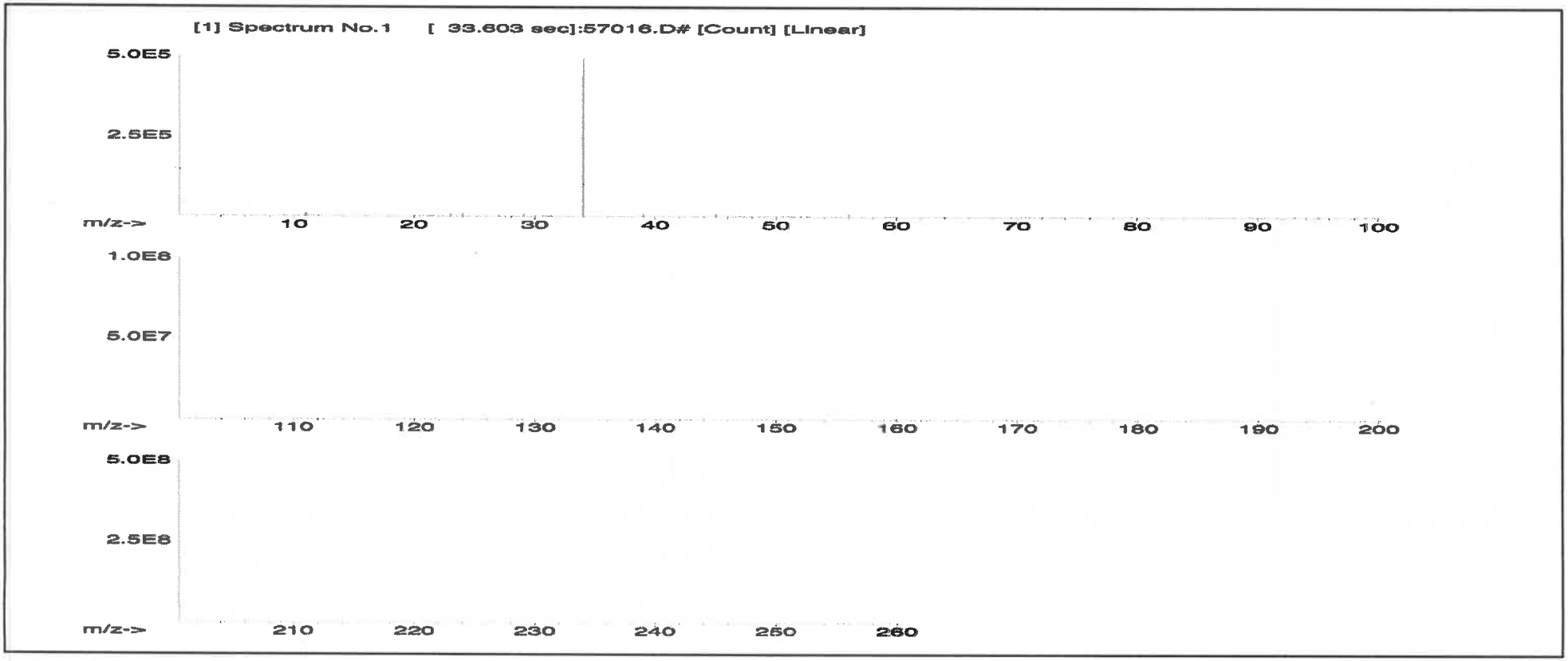
806

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



807

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).

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808

CERTIFIED WEIGHT REPORT:

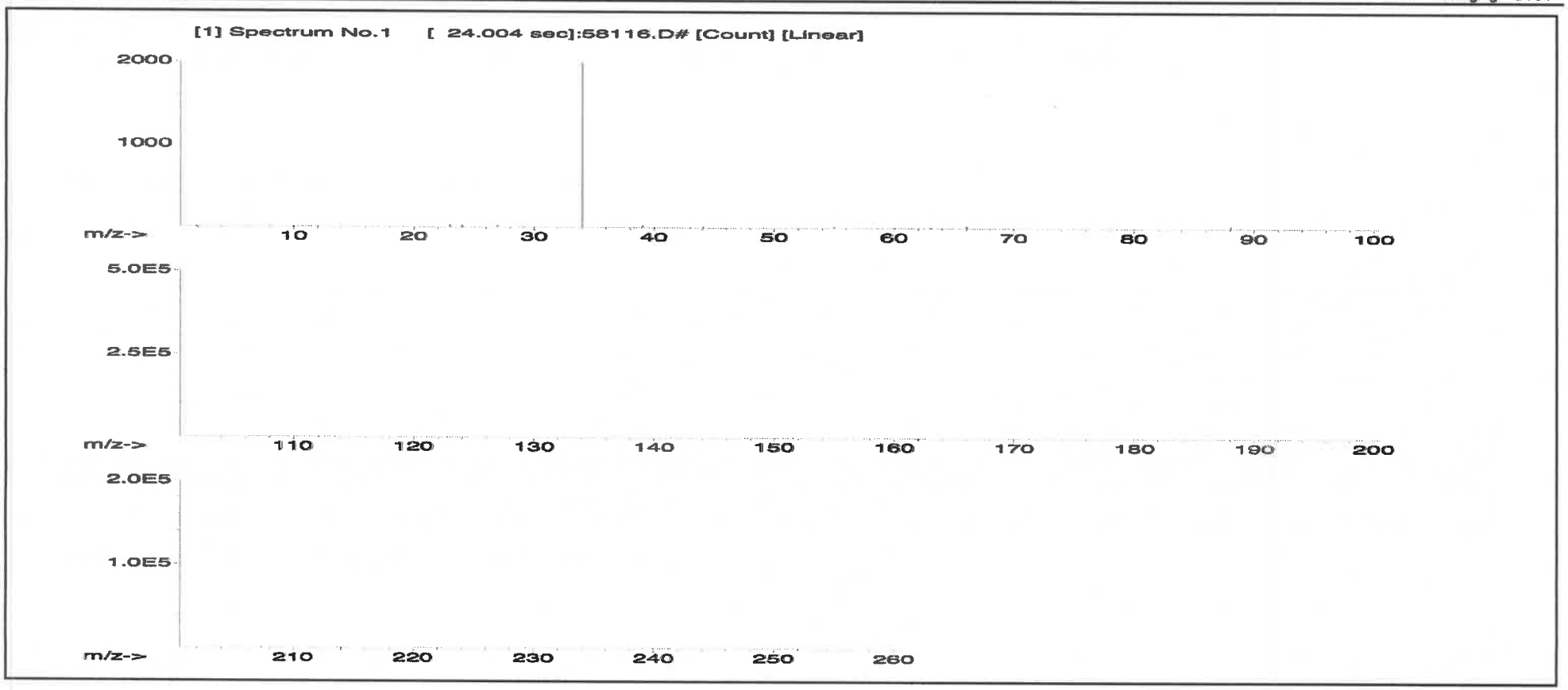
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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	orl-rat 4250mg/kg	3181



809

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:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Lot #

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

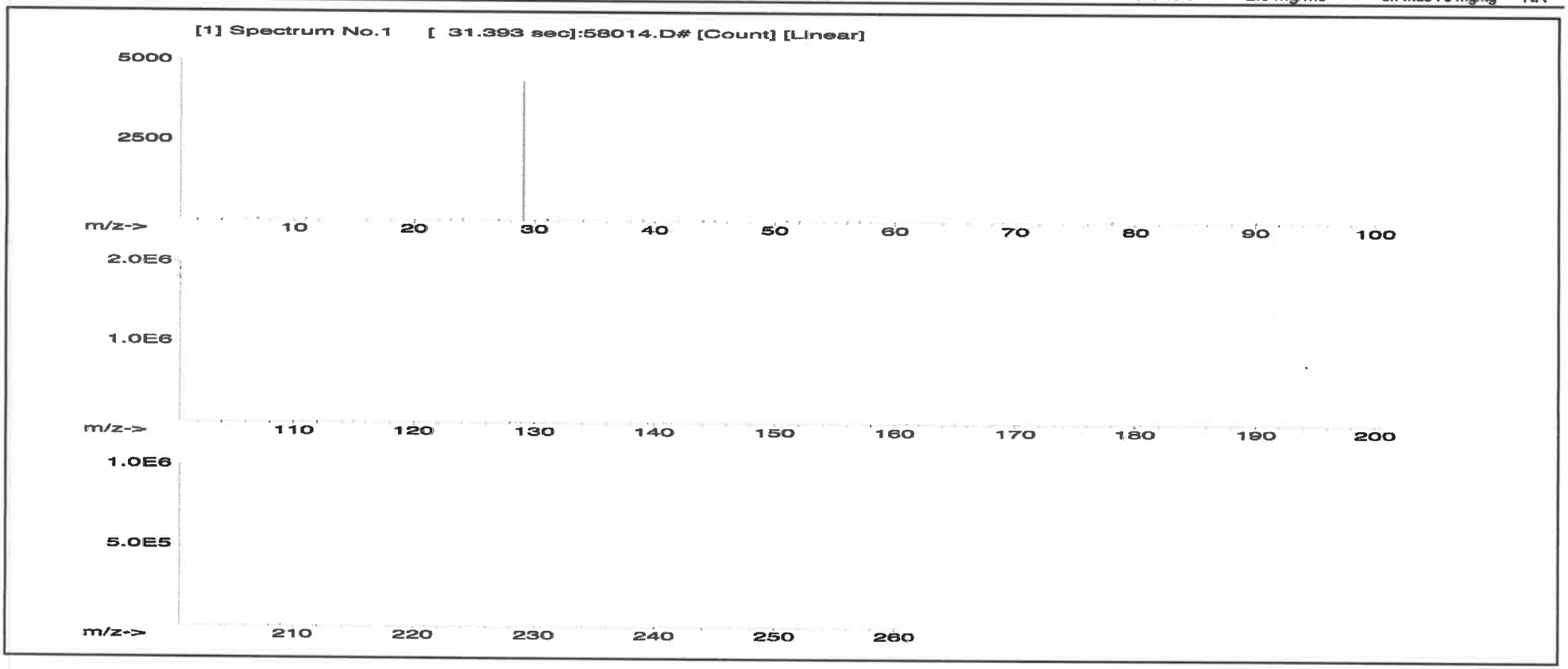
5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122023

Pedro Rentas
Reviewed By: Pedro L. Rentas 122023

810

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 hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



811

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	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.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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812

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

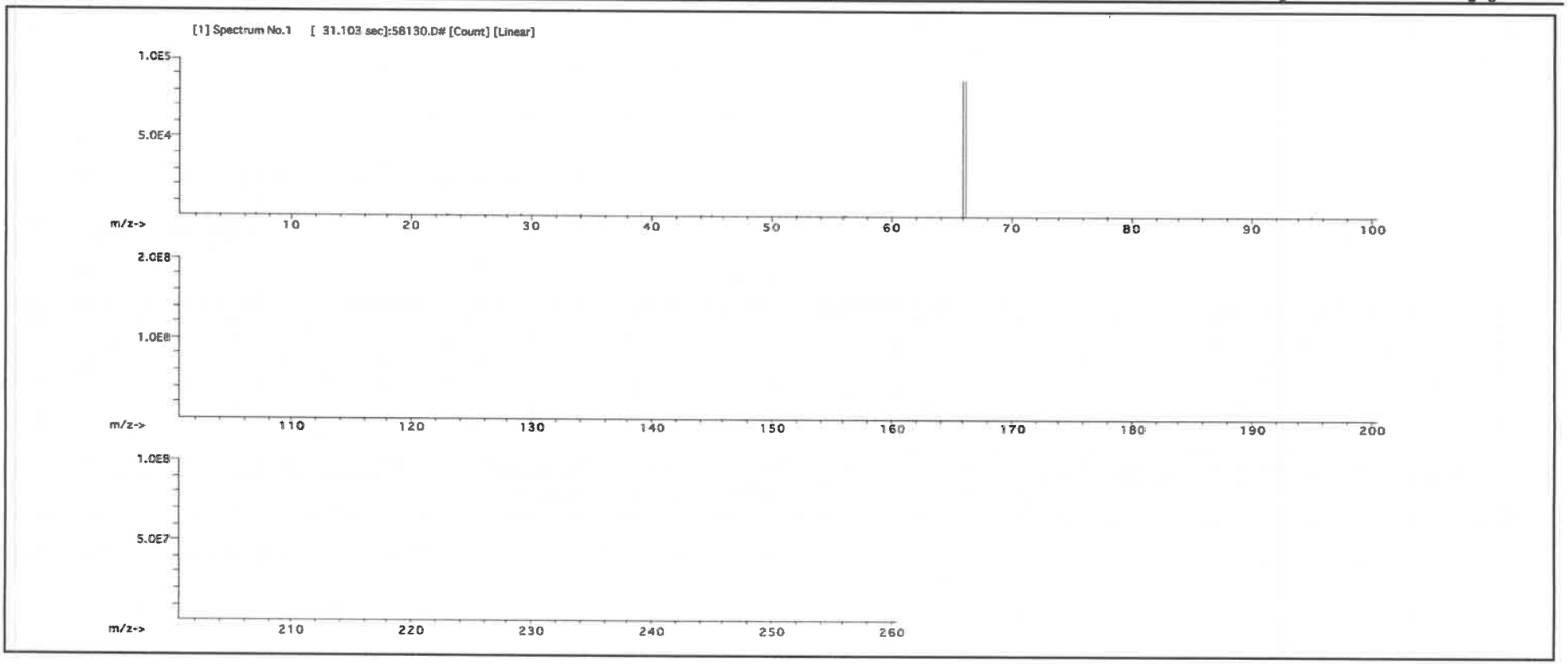
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



813

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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814

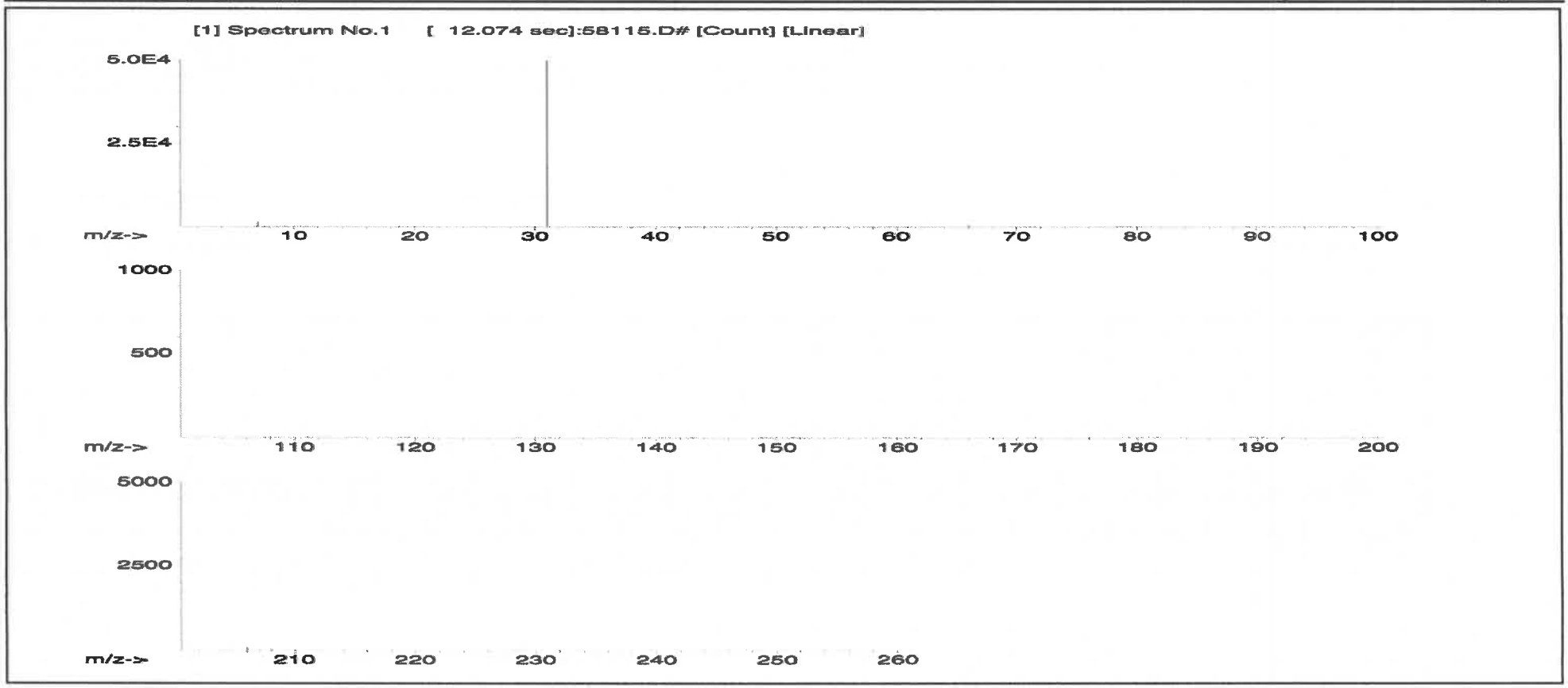
CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Solvent:**	24002546	Nitric Acid
Lot Number:	**091123**				
Description:	**Phosphorous (P)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



815

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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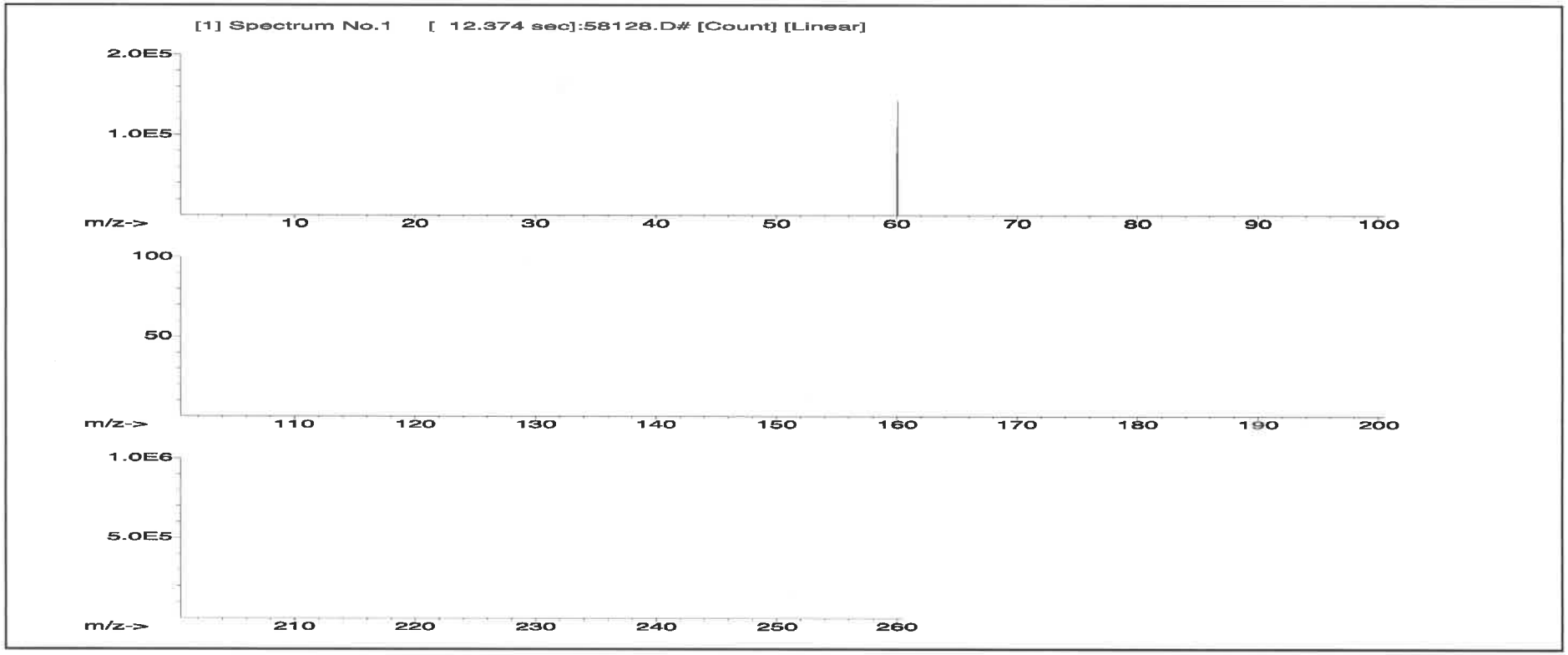
816

CERTIFIED WEIGHT REPORT:

Part Number:	**57028**		**Lot #**		
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Nickel (Ni)**				
		2%	5.0 (mL)	Nitric Acid	
Expiration Date:	041127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty		

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



817

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:

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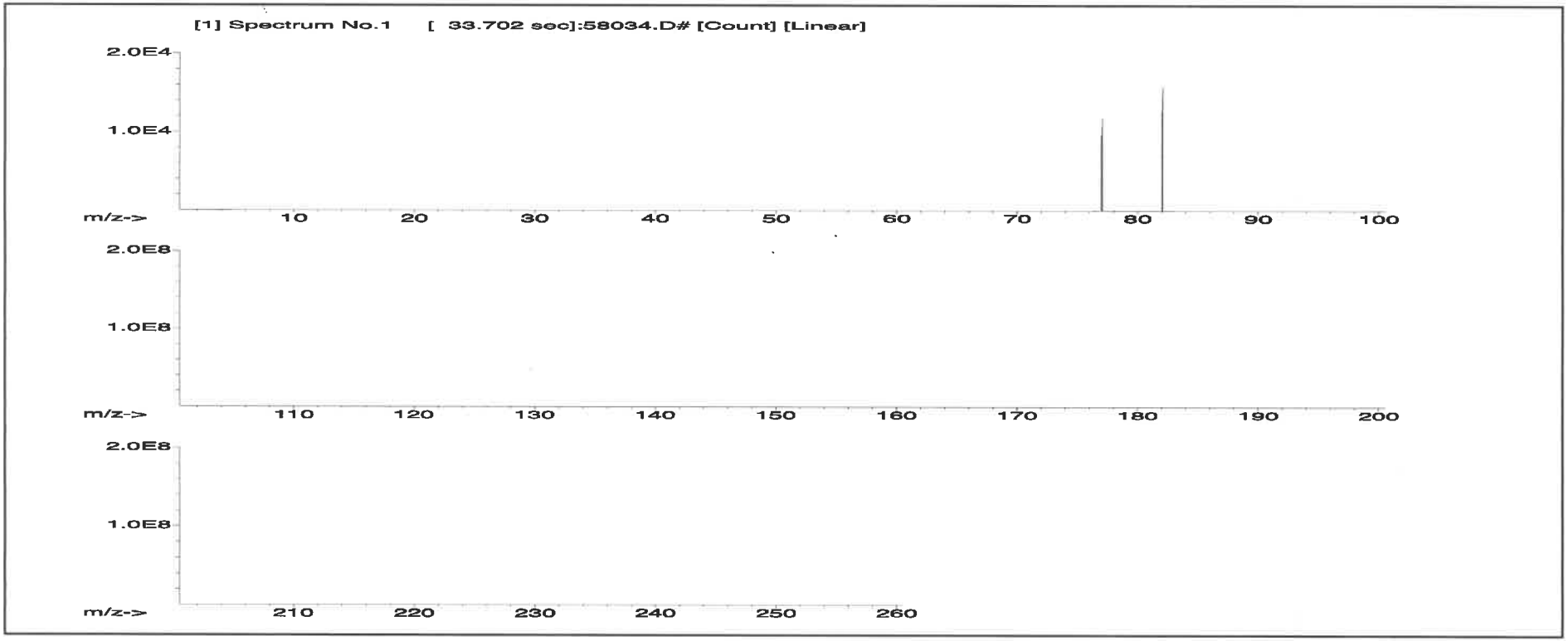
818

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



819

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

820

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

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



824

M5978, M5979

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	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 (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	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

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57092**	24002546	Nitric Acid		
Lot Number:	**060724**				
Description:	**Uranium (U)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	060727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

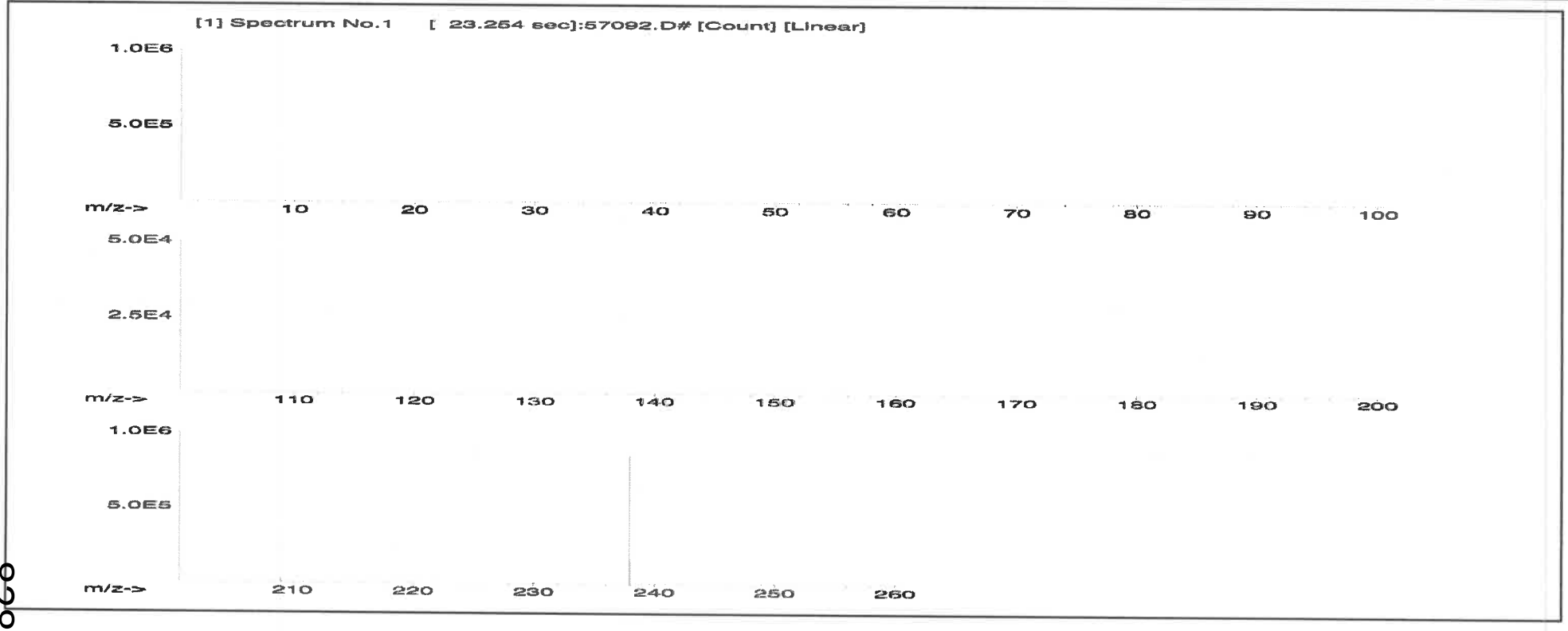
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



828

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).

829

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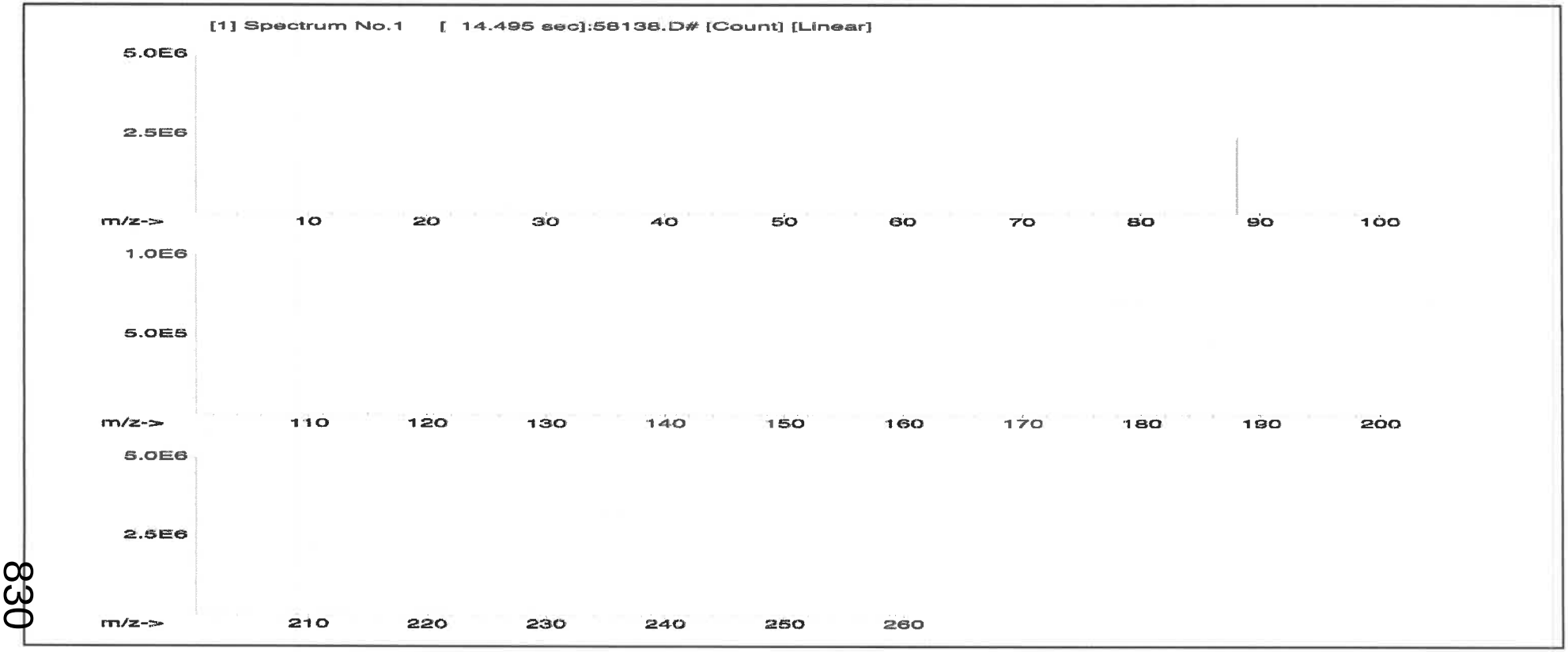
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



830

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

831

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Certified Reference Material CRM

M5983 R: 6/11/24

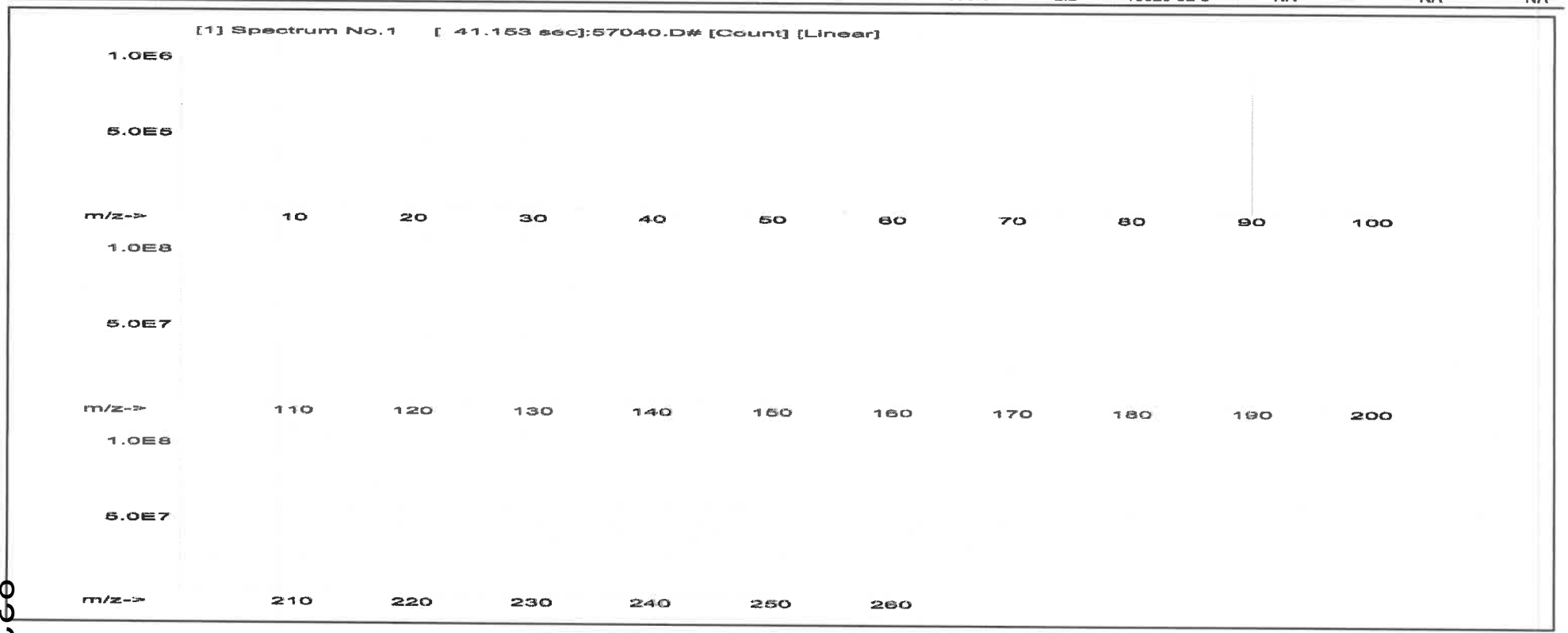
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



832

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).

833

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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

R: 2/22/2024
M5999

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

834

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
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
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- 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**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 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 27, 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: 01/03/24 M6033

ANAB ISO 17034 Accredited
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838

CERTIFIED WEIGHT REPORT:

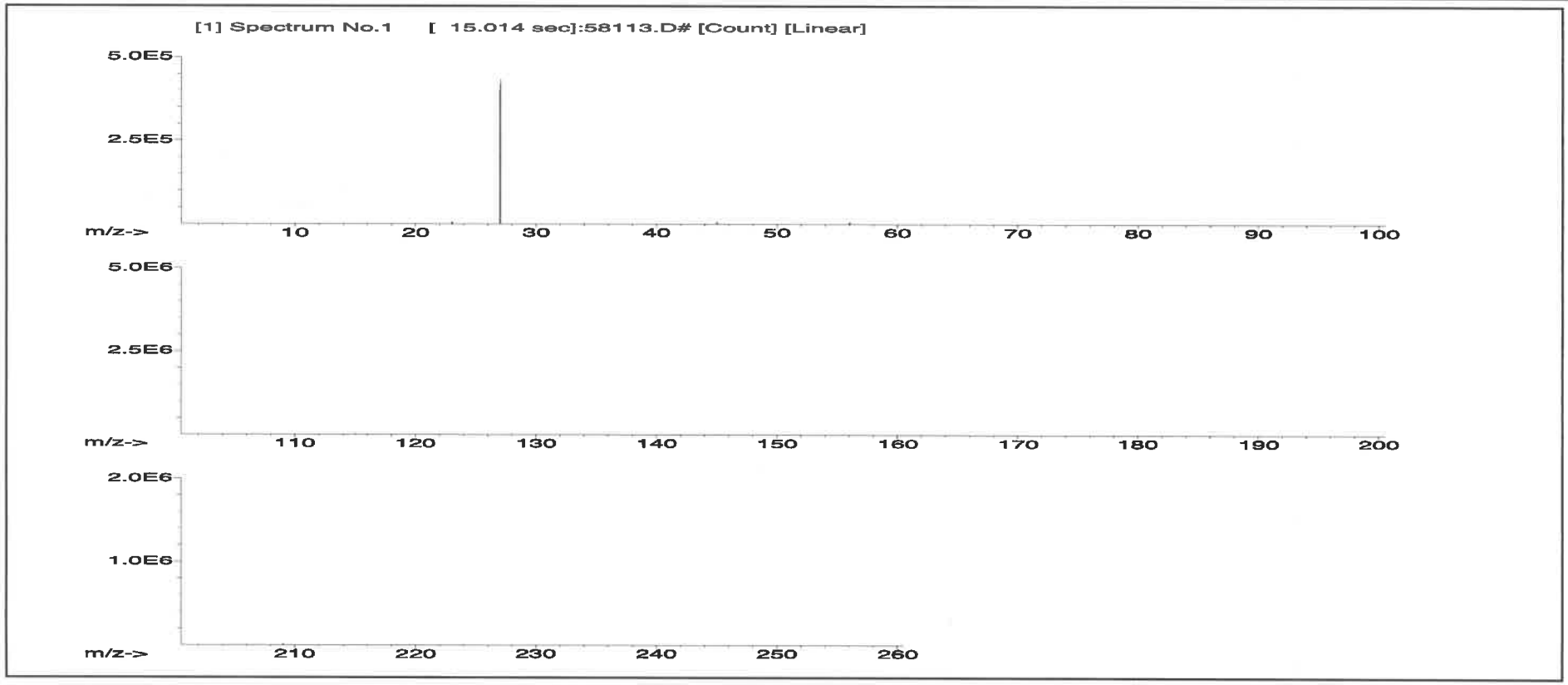
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R 8/19/24, 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:

842

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
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	< 0.2 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	< 50 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.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 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	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

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

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

854

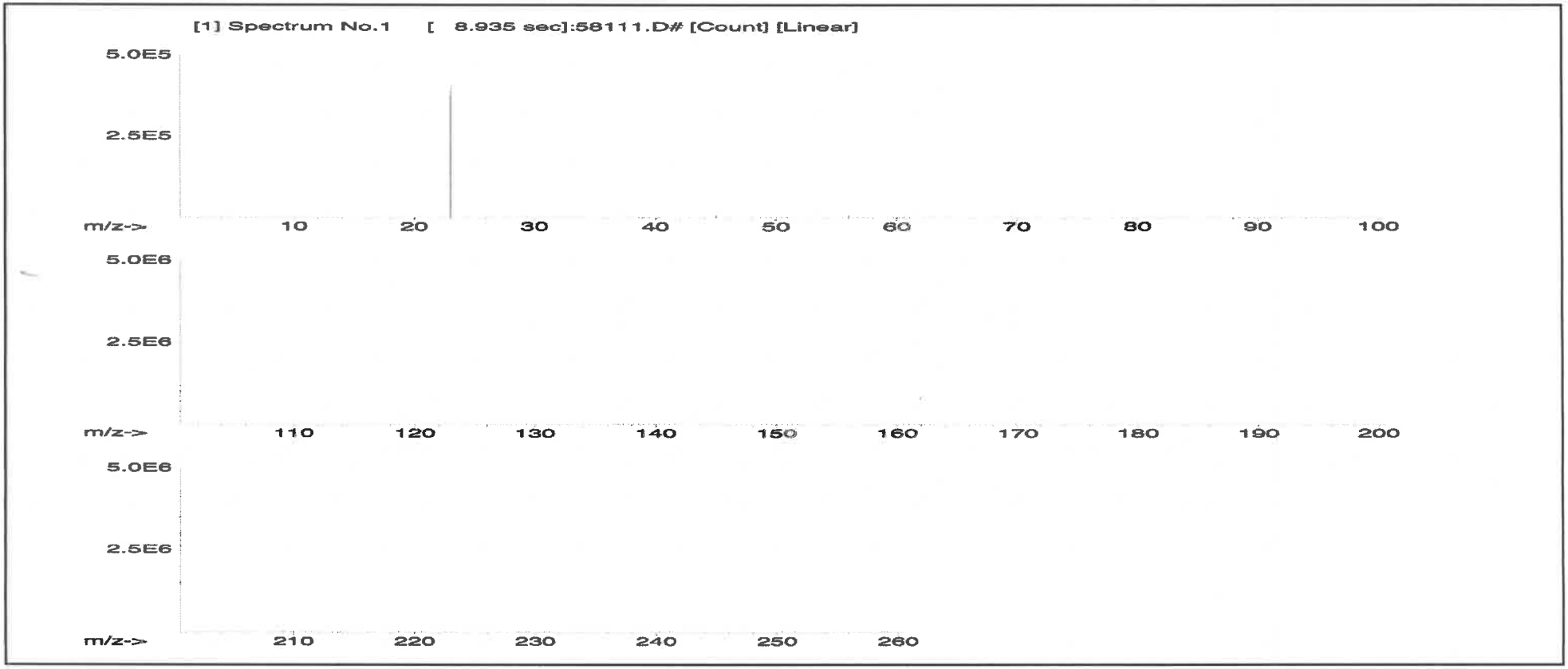
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**122223**			
Description:	**Sodium (Na)**			
		2%	60.0 (mL)	Nitric Acid
Expiration Date:	122226			
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):	3000.4	0.06	Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



855

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* 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.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

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
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2700 Chandler Avenue - Building C
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(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

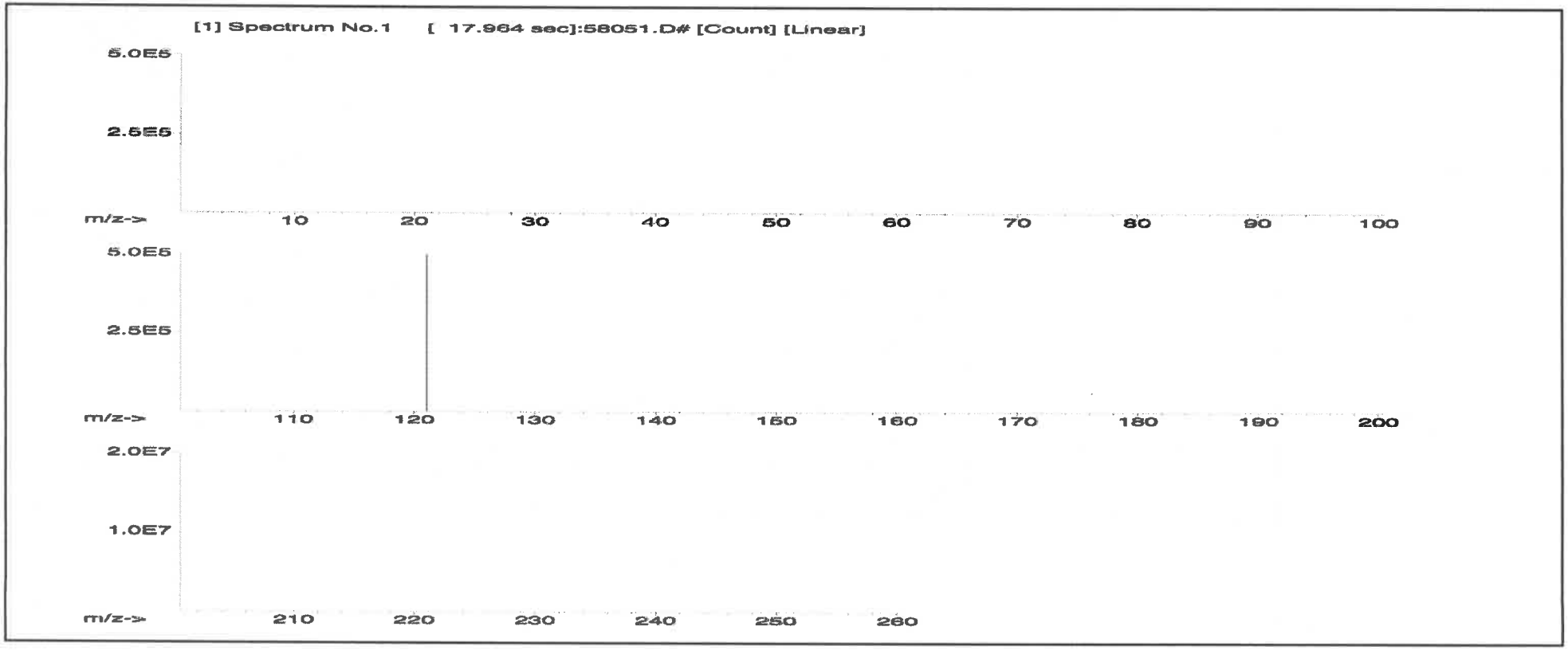
CERTIFIED WEIGHT REPORT:

		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

864

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



865

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6030

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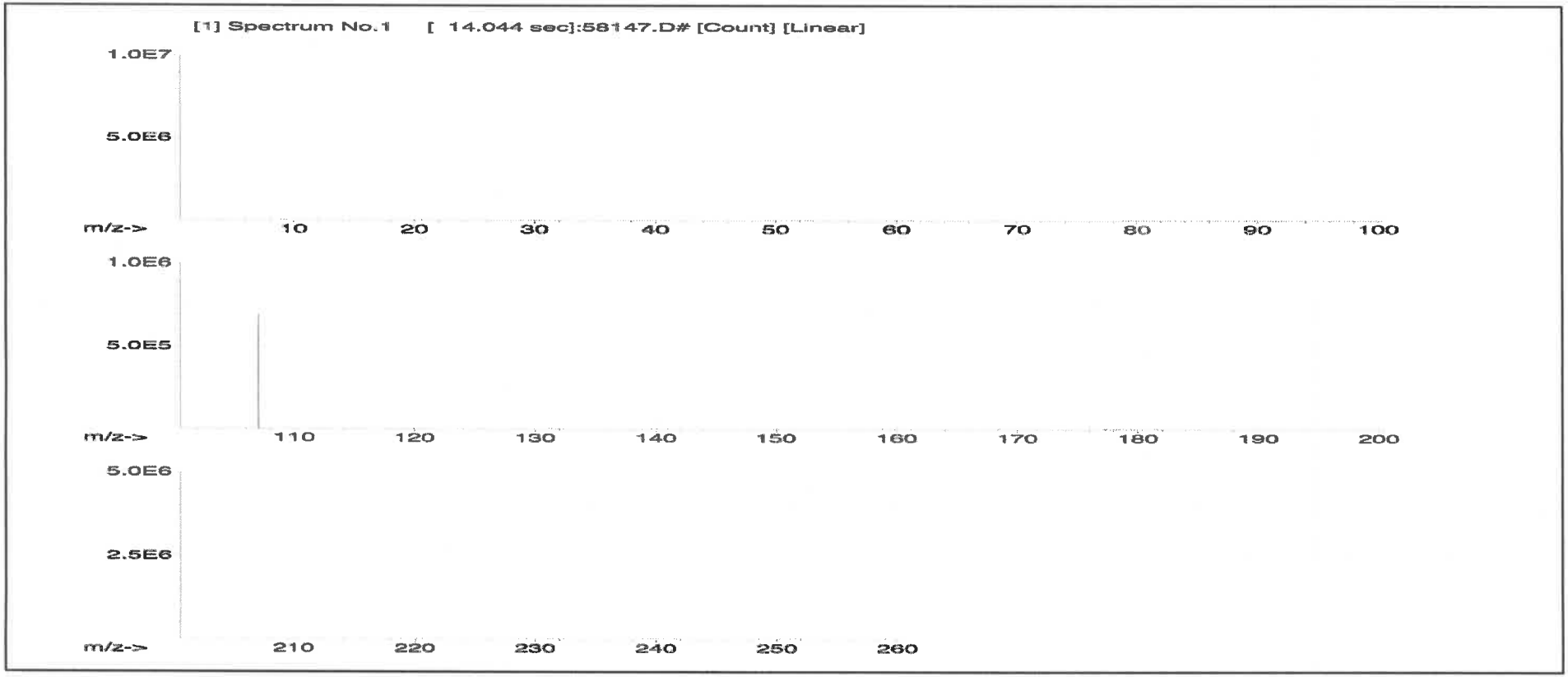
868

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



867

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 03/16/23 M5473, M5474, M5475, M5476

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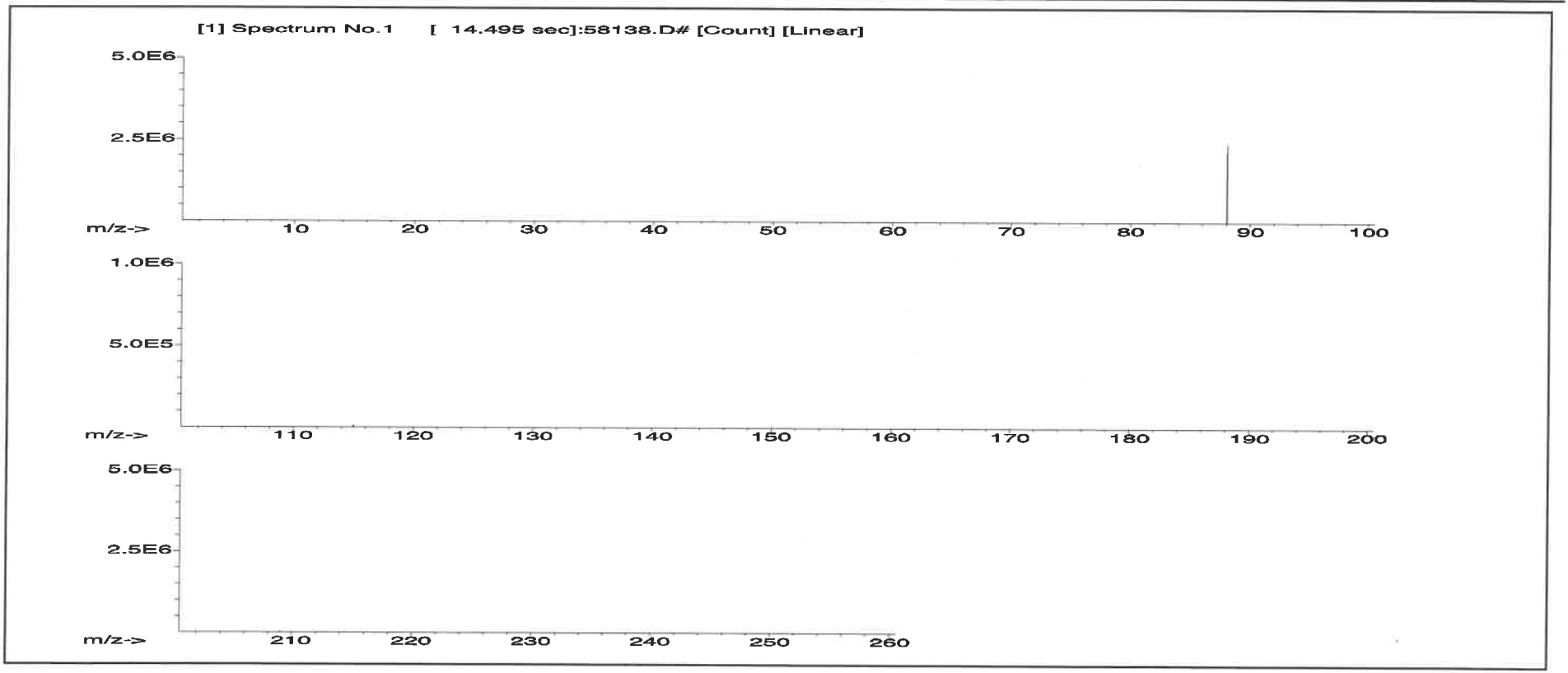
898

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



698

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.

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870

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

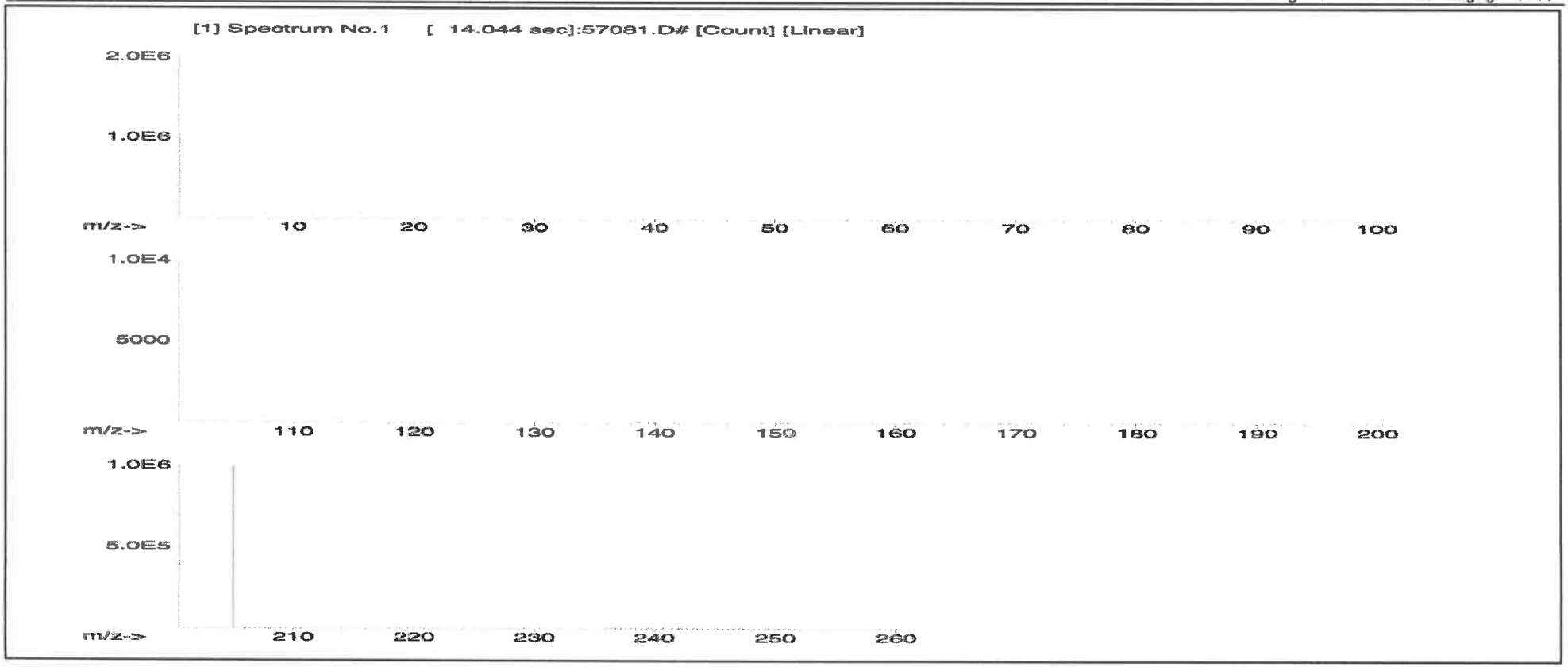
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



871

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:

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Rc. 8/5/24

872

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
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	

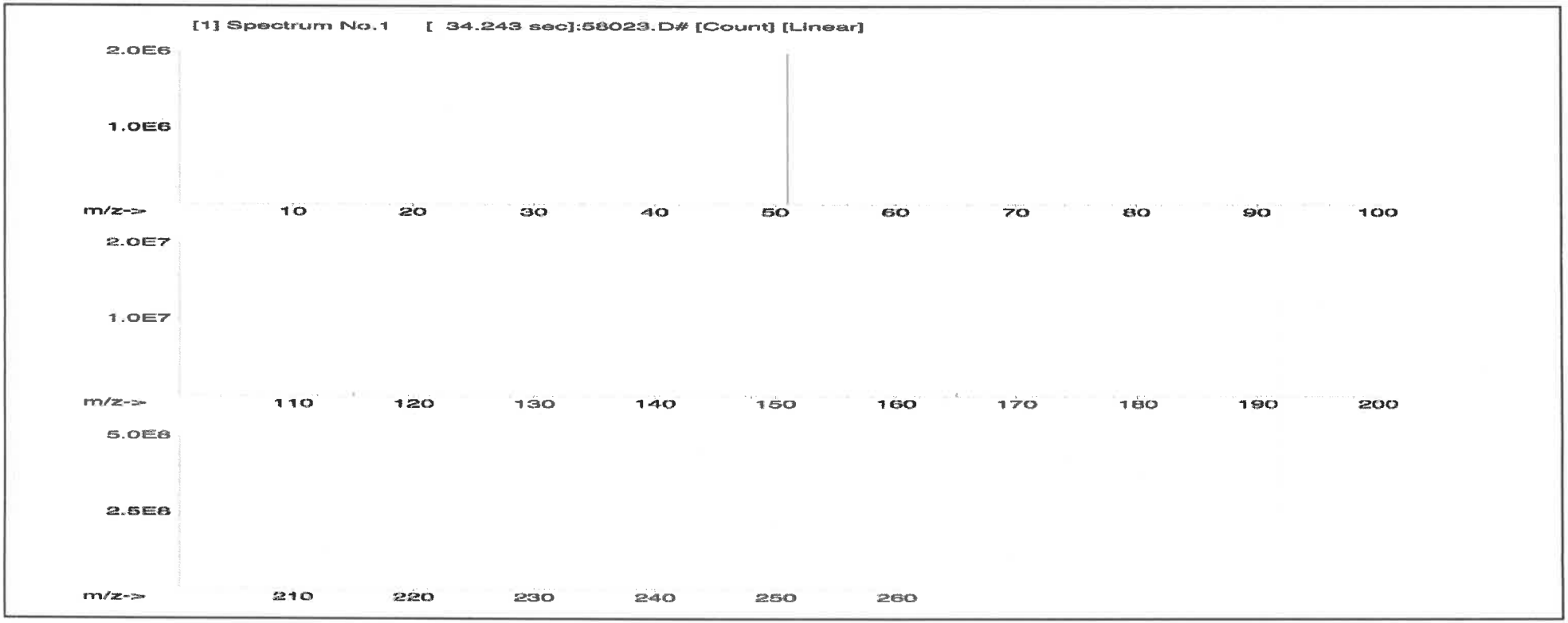
Aleah O'Brady

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



873

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Soil/Sludge Metals Preparation Sheet

PB165563

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : MJNKL4

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 12/12/2024 **Time :** 09:05 **Temp :** 96 °C

End Digest Date: 12/12/2024 **Time :** 09:40 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SKS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83046
Spike Sol. B	1.00	MP83047
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP83498
1:4 HCl Solution	10.00	MP82128
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#2 CELL#34 Temp:96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/12/24 10:30	SKS. met digestion	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165563

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5158-01	MJNKL4	N/A	1.28	500	Black	Yellow	Medium	N/A	N/A	1
P5158-02	MJNKL4D	N/A	1.31	500	Black	Yellow	Medium	N/A	N/A	2
P5158-03	MJNKL4S	N/A	1.35	500	Black	Yellow	Medium	N/A	MP83047	3
P5158-04	MJNKL5	N/A	1.37	500	Black	Yellow	Medium	N/A	N/A	4
P5158-05	MJNKM5	N/A	1.42	500	Black	Yellow	Medium	N/A	N/A	5
P5158-06	MJNKM6	N/A	1.44	500	Black	Yellow	Medium	N/A	N/A	6
P5158-07	MJNKP8	N/A	1.26	500	Black	Yellow	Medium	N/A	N/A	7
P5158-08	MJNKP9	N/A	1.32	500	Black	Yellow	Medium	N/A	N/A	8
P5158-09	MJNKQ0	N/A	1.21	500	Gray	Yellow	Medium	N/A	N/A	9
P5158-10	MJNKQ1	N/A	1.35	500	Gray	Yellow	Medium	N/A	N/A	10
P5158-11	MJNKQ2	N/A	1.33	500	Gray	Yellow	Medium	N/A	N/A	11
P5158-12	MJNKQ8	N/A	1.29	500	Black	Yellow	Medium	N/A	N/A	12
P5158-13	MJNL17	N/A	1.38	500	Black	Yellow	Medium	N/A	N/A	13
P5158-14	MJNL18	N/A	1.30	500	Black	Yellow	Medium	N/A	N/A	14
P5158-15	MJNL19	N/A	1.19	500	Black	Yellow	Medium	N/A	N/A	15
P5158-16	MJNL49	N/A	1.43	500	Black	Yellow	Medium	N/A	N/A	16
P5158-17	MJNL62	N/A	1.31	500	Black	Yellow	Medium	N/A	N/A	17
P5158-18	MJNL63	N/A	1.15	500	Gray	Yellow	Medium	N/A	N/A	18
P5158-19	MJNL71	N/A	1.45	500	Black	Yellow	Medium	N/A	N/A	19
PB165563BL	PBS563	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	20
PB165563BS	LCS563	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP83046	21

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

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB133950

Review By	Sarabjit Jaswal	Review On	12/16/2024 6:53:37 AM
Supervise By	Mohan Bera	Supervise On	12/16/2024 6:59:38 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	12/13/24 11:23		Jaswal	OK
2	S00	S0	CAL1	12/13/24 12:46		Jaswal	OK
3	S02	S02	CAL3	12/13/24 12:52		Jaswal	OK
4	S03	S03	CAL4	12/13/24 12:56		Jaswal	OK
5	S04	S04	CAL5	12/13/24 12:59		Jaswal	OK
6	S05	S05	CAL6	12/13/24 13:01		Jaswal	OK
7	S06	S06	CAL7	12/13/24 13:04		Jaswal	OK
8	S07	S07	CAL8	12/13/24 13:07		Jaswal	OK
9	S08	S08	CAL9	12/13/24 13:10		Jaswal	OK
10	ICV001	ICV001	ICV	12/13/24 13:58	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	12/13/24 14:14	Inst. paused for review	Jaswal	OK
12	ICSA001	ICSA001	ICSA	12/13/24 14:30	Inst. paused for review	Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	12/13/24 14:38	Inst. paused for review	Jaswal	OK
14	CCV001	CCV001	CCV	12/13/24 14:41		Jaswal	OK
15	CCB001	CCB001	CCB	12/13/24 14:55	Inst. paused for review	Jaswal	OK
16	PB165564BL	PBS564	MB	12/13/24 14:58		Jaswal	OK
17	PB165564BS	LCS564	LCS	12/13/24 15:01		Jaswal	OK
18	PB165532BL	PBS532	MB	12/13/24 15:15		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB133950

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Supervise By	Mohan Bera	Supervise On	12/16/2024 6:59:38 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

19	PB165532BS	LCS532	LCS	12/13/24 15:18		Jaswal	OK
20	PB165606BL	PBS606	MB	12/13/24 15:22		Jaswal	OK
21	PB165606BS	LCS606	LCS	12/13/24 15:25		Jaswal	OK
22	PB165563BL	PBS563	MB	12/13/24 15:28		Jaswal	OK
23	PB165563BS	LCS563	LCS	12/13/24 15:32		Jaswal	OK
24	P5163-01	MJNKP7	SAM	12/13/24 15:35		Jaswal	OK
25	P5163-02	MJNKP7D	DUP	12/13/24 15:38		Jaswal	OK
26	P5163-01L	MJNKP7L	SD	12/13/24 15:41		Jaswal	OK
27	P5163-03	MJNKP7S	MS	12/13/24 15:44		Jaswal	OK
28	P5165-01	MJNKR9	SAM	12/13/24 15:47		Jaswal	OK
29	P5165-02	MJNKR9D	DUP	12/13/24 15:51		Jaswal	OK
30	P5165-01L	MJNKR9L	SD	12/13/24 15:54		Jaswal	OK
31	P5165-03	MJNKR9S	MS	12/13/24 15:57		Jaswal	OK
32	CCV002	CCV002	CCV	12/13/24 16:00		Jaswal	OK
33	CCB002	CCB002	CCB	12/13/24 16:03		Jaswal	OK
34	P5167-01	MJNL16	SAM	12/13/24 16:06		Jaswal	OK
35	P5167-02	MJNL16D	DUP	12/13/24 16:09		Jaswal	OK
36	P5167-01L	MJNL16L	SD	12/13/24 16:12		Jaswal	OK
37	P5167-03	MJNL16S	MS	12/13/24 16:16		Jaswal	OK
38	P5168-01	MJNL60	SAM	12/13/24 16:19		Jaswal	OK

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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

39	P5168-02	MJNL60D	DUP	12/13/24 16:22		Jaswal	OK
40	P5168-01L	MJNL60L	SD	12/13/24 16:25		Jaswal	OK
41	P5168-03	MJNL60S	MS	12/13/24 16:28		Jaswal	OK
42	P5154-01	ME28N9	SAM	12/13/24 16:31		Jaswal	OK
43	P5154-02	ME28P0	SAM	12/13/24 16:35		Jaswal	OK
44	P5154-03	ME28P1	SAM	12/13/24 16:38		Jaswal	OK
45	P5154-04	ME28P2	SAM	12/13/24 16:41		Jaswal	OK
46	P5154-05	ME28P3	SAM	12/13/24 16:44		Jaswal	OK
47	P5154-06	ME28P4	SAM	12/13/24 16:47		Jaswal	OK
48	P5154-07	ME28P5	SAM	12/13/24 16:51		Jaswal	OK
49	P5154-08	ME28P6	SAM	12/13/24 16:54		Jaswal	OK
50	P5154-09	ME28P7	SAM	12/13/24 16:57		Jaswal	OK
51	P5154-10	ME28P8	SAM	12/13/24 17:00		Jaswal	OK
52	P5154-11	ME28P9	SAM	12/13/24 17:03		Jaswal	OK
53	P5154-12	ME28Q0	SAM	12/13/24 17:06		Jaswal	OK
54	P5154-13	ME28Q1	SAM	12/13/24 17:10		Jaswal	OK
55	P5154-14	ME28Q2	SAM	12/13/24 17:13		Jaswal	OK
56	P5154-15	ME28Q3	SAM	12/13/24 17:16	Mn High	Jaswal	Dilution
57	P5154-16	ME28Q4	SAM	12/13/24 17:19	Cr,Mn High	Jaswal	Dilution
58	P5154-17	ME28Q4D	DUP	12/13/24 17:22	Cr,Mn High	Jaswal	Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

59	P5154-16L	ME28Q4L	SD	12/13/24 17:25	Cr,Mn High	Jaswal	OK
60	CCV003	CCV003	CCV	12/13/24 17:28		Jaswal	OK
61	CCB003	CCB003	CCB	12/13/24 17:31		Jaswal	OK
62	P5154-18	ME28Q4S	MS	12/13/24 17:34	Cr,Mn High	Jaswal	Dilution
63	P5154-19	ME28Q5	SAM	12/13/24 17:37		Jaswal	OK
64	P5154-20	ME28R3	SAM	12/13/24 17:41		Jaswal	OK
65	P5154-21	ME28R4	SAM	12/13/24 17:44		Jaswal	OK
66	P5158-01RE	MJNKL4	SAM	12/13/24 17:47	Not Use	Jaswal	Not Ok
67	P5158-02RE	MJNKL4D	DUP	12/13/24 17:50	Not Use	Jaswal	Not Ok
68	P5158-01LRE	MJNKL4L	SD	12/13/24 17:53	Not Use	Jaswal	Not Ok
69	P5158-03RE	MJNKL4S	MS	12/13/24 17:57	Not Use	Jaswal	Not Ok
70	P5158-04RE	MJNKL5	SAM	12/13/24 18:00	Not Use	Jaswal	Not Ok
71	P5158-05RE	MJNKM5	SAM	12/13/24 18:03	Not Use	Jaswal	Not Ok
72	P5158-06RE	MJNKM6	SAM	12/13/24 18:07	Not Use	Jaswal	Not Ok
73	P5158-07RE	MJNKP8	SAM	12/13/24 18:10	Not Use	Jaswal	Not Ok
74	P5158-08RE	MJNKP9	SAM	12/13/24 18:13	Not Use	Jaswal	Not Ok
75	P5158-09RE	MJNKQ0	SAM	12/13/24 18:17	Not Use	Jaswal	Not Ok
76	P5158-10RE	MJNKQ1	SAM	12/13/24 18:20	Not Use	Jaswal	Not Ok
77	P5158-11RE	MJNKQ2	SAM	12/13/24 18:23	Not Use	Jaswal	Not Ok
78	P5158-12RE	MJNKQ8	SAM	12/13/24 18:26	Not Use	Jaswal	Not Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P8

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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

79	P5158-13RE	MJNL17	SAM	12/13/24 18:30	Not Use	Jaswal	Not Ok
80	P5158-14RE	MJNL18	SAM	12/13/24 18:33	Not Use	Jaswal	Not Ok
81	CCV004	CCV004	CCV	12/13/24 18:36		Jaswal	OK
82	CCB004	CCB004	CCB	12/13/24 18:39		Jaswal	OK
83	P5158-01	MJNKL4	SAM	12/13/24 18:42		Jaswal	OK
84	P5158-02	MJNKL4D	DUP	12/13/24 18:46		Jaswal	OK
85	P5158-01L	MJNKL4L	SD	12/13/24 18:49		Jaswal	OK
86	P5158-03	MJNKL4S	MS	12/13/24 18:52		Jaswal	OK
87	P5158-04	MJNKL5	SAM	12/13/24 18:55		Jaswal	OK
88	P5158-05	MJNKM5	SAM	12/13/24 18:58		Jaswal	OK
89	P5158-06	MJNKM6	SAM	12/13/24 19:01		Jaswal	OK
90	P5158-07	MJNKP8	SAM	12/13/24 19:04		Jaswal	OK
91	P5158-08	MJNKP9	SAM	12/13/24 19:08		Jaswal	OK
92	P5158-09	MJNKQ0	SAM	12/13/24 19:11		Jaswal	OK
93	P5158-10	MJNKQ1	SAM	12/13/24 19:14		Jaswal	OK
94	P5158-11	MJNKQ2	SAM	12/13/24 19:17		Jaswal	OK
95	P5158-12	MJNKQ8	SAM	12/13/24 19:20		Jaswal	OK
96	P5158-13	MJNL17	SAM	12/13/24 19:23		Jaswal	OK
97	P5158-14	MJNL18	SAM	12/13/24 19:26		Jaswal	OK
98	P5158-15	MJNL19	SAM	12/13/24 19:30		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

99	P5158-16	MJNL49	SAM	12/13/24 19:33		Jaswal	OK
100	P5158-17	MJNL62	SAM	12/13/24 19:36		Jaswal	OK
101	P5158-18	MJNL63	SAM	12/13/24 19:39		Jaswal	OK
102	P5158-19	MJNL71	SAM	12/13/24 19:42		Jaswal	OK
103	P5233-01	ME28R5	SAM	12/13/24 19:52		Jaswal	OK
104	P5233-02	ME28R6	SAM	12/13/24 19:55		Jaswal	OK
105	P5233-03	ME28R7	SAM	12/13/24 19:58		Jaswal	OK
106	P5233-04	ME28R8	SAM	12/13/24 20:02		Jaswal	OK
107	P5233-05	ME28R9	SAM	12/13/24 20:05		Jaswal	OK
108	P5233-06	ME28S0	SAM	12/13/24 20:08		Jaswal	OK
109	CCV005	CCV005	CCV	12/13/24 20:11		Jaswal	OK
110	CCB005	CCB005	CCB	12/13/24 20:14		Jaswal	OK
111	P5233-07	ME28S1	SAM	12/13/24 20:17		Jaswal	OK
112	P5233-08	ME28S2	SAM	12/13/24 20:20		Jaswal	OK
113	P5233-09	ME28S3	SAM	12/13/24 20:23		Jaswal	OK
114	P5233-10	ME28S4	SAM	12/13/24 20:27		Jaswal	OK
115	P5233-11	ME28S5	SAM	12/13/24 20:30		Jaswal	OK
116	P5233-12	ME28S6	SAM	12/13/24 20:33		Jaswal	OK
117	P5233-13	ME28S7	SAM	12/13/24 20:36		Jaswal	OK
118	P5233-20	ME28S7D	DUP	12/13/24 20:39		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

119	P5233-13L	ME28S7L	SD	12/13/24 20:43		Jaswal	OK
120	P5233-21	ME28S7S	MS	12/13/24 20:46		Jaswal	OK
121	P5233-14	ME28S8	SAM	12/13/24 20:49		Jaswal	OK
122	P5233-15	ME28S9	SAM	12/13/24 20:52		Jaswal	OK
123	P5233-16	ME28T0	SAM	12/13/24 20:55		Jaswal	OK
124	P5233-17	ME28T1	SAM	12/13/24 20:59	Cr,Mn High	Jaswal	Dilution
125	P5233-18	ME28T2	SAM	12/13/24 21:02		Jaswal	OK
126	P5233-19	ME28T3	SAM	12/13/24 21:05		Jaswal	OK
127	P5233-17DL	ME28T1	SAM	12/13/24 21:08	2X For Cr,Mn	Jaswal	Confirms
128	P5154-15DL	ME28Q3	SAM	12/13/24 21:11	2X For Cr,Mn	Jaswal	Confirms
129	P5154-16DL	ME28Q4	SAM	12/13/24 21:14	2X For Cr,Mn	Jaswal	Confirms
130	P5154-17DL	ME28Q4D	DUP	12/13/24 21:17	2X For Cr,Mn	Jaswal	Confirms
131	P5154-16LDL	ME28Q4L	SD	12/13/24 21:21	10X For Cr,Mn	Jaswal	Confirms
132	P5154-18DL	ME28Q4S	MS	12/13/24 21:24	2X For Cr,Mn	Jaswal	Confirms
133	CCV006	CCV006	CCV	12/13/24 21:30		Jaswal	OK
134	CCB006	CCB006	CCB	12/13/24 21:33		Jaswal	OK
135	PB165603BL	PBS603	MB	12/13/24 22:18		Jaswal	OK
136	PB165603BS	LCS603	LCS	12/13/24 22:22		Jaswal	OK
137	PB165603BSD	LCSD603	LCSD	12/13/24 22:25		Jaswal	OK
138	P5181-01	MYCYX9	SAM	12/13/24 22:28		Jaswal	OK

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ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

139	P5181-02	MYCYY0	SAM	12/13/24 22:31		Jaswal	OK
140	P5181-03	MYCYY1	SAM	12/13/24 22:34		Jaswal	OK
141	P5181-04	MYCYY2	SAM	12/13/24 22:38		Jaswal	OK
142	P5181-05	MYCYY3	SAM	12/13/24 22:41		Jaswal	OK
143	P5181-06	MYCYY4	SAM	12/13/24 22:44		Jaswal	OK
144	P5181-07	MYCYY5	SAM	12/13/24 22:47		Jaswal	OK
145	P5181-08	MYCYY6	SAM	12/13/24 22:50		Jaswal	OK
146	P5181-09	MYCYY7	SAM	12/13/24 22:53		Jaswal	OK
147	P5181-10	MYCYY8	SAM	12/13/24 22:56		Jaswal	OK
148	P5181-11	MYCYY9	SAM	12/13/24 23:00		Jaswal	OK
149	CCV007	CCV007	CCV	12/13/24 23:03		Jaswal	OK
150	CCB007	CCB007	CCB	12/13/24 23:05		Jaswal	OK
151	P5181-12	MYCYZ0	SAM	12/13/24 23:09		Jaswal	OK
152	P5181-13	MYCYZ1	SAM	12/13/24 23:12		Jaswal	OK
153	P5181-14	MYCYZ2	SAM	12/13/24 23:15		Jaswal	OK
154	P5181-15	MYCYZ3	SAM	12/13/24 23:18		Jaswal	OK
155	P5181-16	MYCYZ4	SAM	12/13/24 23:21		Jaswal	OK
156	P5181-17	MYCYZ5	SAM	12/13/24 23:24		Jaswal	OK
157	P5181-18	MYCYZ6	SAM	12/13/24 23:28		Jaswal	OK
158	P5181-19	MYCYZ7	SAM	12/13/24 23:31		Jaswal	OK

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CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

159	P5181-20	MYCYZ8	SAM	12/13/24 23:34	Ba,Co,Ni,V High in MSRE	Jaswal	Dilution
160	P5181-21	MYCYZ8D	DUP	12/13/24 23:37	Ba,Co,Ni,V High in MSRE	Jaswal	Dilution
161	P5181-20L	MYCYZ8L	SD	12/13/24 23:40	Ba,Co,Ni,V High in MSRE	Jaswal	Dilution
162	P5181-22	MYCYZ8S	MS	12/13/24 23:44	Ba,Co,Ni,V High in MSRE	Jaswal	Dilution
163	P5181-20MS	MYCYZ8SRE	MS	12/13/24 23:47	Ba,Co,Ni,V High	Jaswal	Dilution
164	P5181-20DL	MYCYZ8	SAM	12/13/24 23:50	4X For Ba,Co,Ni,V	Jaswal	Confirms
165	P5181-21DL	MYCYZ8D	DUP	12/13/24 23:53	4X For Ba,Co,Ni,V	Jaswal	Confirms
166	P5181-20LDL	MYCYZ8L	SD	12/13/24 23:56	20X For Ba,Co,Ni,V	Jaswal	Confirms
167	P5181-22DL	MYCYZ8S	MS	12/14/24	4X For Ba,Co,Ni,V	Jaswal	Confirms
168	P5181-20MSDL	MYCYZ8SRE	MS	12/14/24 00:03	4X For Ba,Co,Ni,V	Jaswal	Confirms
169	P5181-01DL	MYCYX9	SAM	12/14/24 00:06	Not Required	Jaswal	Not Ok
170	CCV008	CCV008	CCV	12/14/24 00:09		Jaswal	OK
171	CCB008	CCB008	CCB	12/14/24 00:12		Jaswal	OK
172	P5181-03DL	MYCYY1	SAM	12/14/24 00:15	Not Required	Jaswal	Not Ok
173	P5181-04DL	MYCYY2	SAM	12/14/24 00:19	Not Required	Jaswal	Not Ok
174	P5181-05DL	MYCYY3	SAM	12/14/24 00:22	Not Required	Jaswal	Not Ok
175	P5181-06DL	MYCYY4	SAM	12/14/24 00:25	Not Required	Jaswal	Not Ok
176	P5181-07DL	MYCYY5	SAM	12/14/24 00:28	Not Required	Jaswal	Not Ok
177	P5181-08DL	MYCYY6	SAM	12/14/24 00:31	Not Required	Jaswal	Not Ok
178	P5181-09DL	MYCYY7	SAM	12/14/24 00:35	Not Required	Jaswal	Not Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

179	P5181-10DL	MYCYY8	SAM	12/14/24 00:38	Not Required	Jaswal	Not Ok
180	P5181-11DL	MYCYY9	SAM	12/14/24 00:41	Not Required	Jaswal	Not Ok
181	P5181-12DL	MYCYZ0	SAM	12/14/24 00:44	Not Required	Jaswal	Not Ok
182	P5181-13DL	MYCYZ1	SAM	12/14/24 00:48	Not Required	Jaswal	Not Ok
183	P5181-14DL	MYCYZ2	SAM	12/14/24 00:51	Not Required	Jaswal	Not Ok
184	CCV009	CCV009	CCV	12/14/24 00:57		Jaswal	OK
185	CCB009	CCB009	CCB	12/14/24 01:00		Jaswal	OK
186	P5181-02DL	MYCYY0	SAM	12/14/24 01:06	Not Required	Jaswal	Not Ok
187	CCV010	CCV010	CCV	12/14/24 01:09		Jaswal	OK
188	CCB010	CCB010	CCB	12/14/24 01:12		Jaswal	OK

ORIGIN ID:BVUA (425) 941-1406
ATTN: CANDICE SCHWARTZ
CH2MHILL
1100 112TH AVE NE
SUITE 500
BELLEVUE, WA 98004
UNITED STATES US

SHIP DATE: 05DEC24
ACTWGT: 41.00 LB
CAD: 105505917/INET4535
DIMS: 24x13x14 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL (CLP LAB)
284 SHEFFIELD STREET MOUNTAINSIDE

12-6-24
1010
2.1

MOUNTAINSIDE NJ 07092
(908) 728-3151
INV:
PO: ASARCO COOLER #3

REF: D3856100.B.PN.ODC.01-6-2
DEPT:

58CJ4/EB78/C6C4

J24402405001uv

FedEx Express

TRK# 0201 **7705 3089 3078**

FRI - 06 DEC 12:00P
PRIORITY OVERNIGHT

XE KBCA

NJ-US **EWR** **07092**

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ORIGIN ID:BVUA (425) 941-1406
ATTN: CANDICE SCHWARTZ
CH2MHILL
1100 112TH AVE NE
SUITE 500
BELLEVUE, WA 98004
UNITED STATES US

SHIP DATE: 05DEC24
ACTWGT: 41.00 LB
CAD: 105509317/INET4535
DIMS: 24x13x14 IN

BILL SENDER

TO **MOHAMMAD AHMED**
ALLIANCE TECHNICAL (CLP LAB)
284 SHEFFIELD STREET MOUNTAINSIDE

12-6-24
1010
2-3.-

MOUNTAINSIDE NJ 07092
(908) 728-3151
REF: D3856100.B.PN.ODC.01-6-2
INV:
PO: ASARCO COOLER #4
DEPT:

58CJ4/EB78/C6C4

J244024091001uv

FedEx Express

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PRIORITY OVERNIGHT

TRK# 0201 **7705 3093 7563**

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NJ-US **EWR** 07092

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

Login Summary Report

Order ID :	P5158	Order Date :	12/6/2024 10:10:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51821	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	12/6/2024 10:10:00 AM	EDD Type :	EPA CLP
Date Sign Off :	12/10/2024 4:18:36 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P5158-01	MJNKL4	Solid	12/03/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-02	MJNKL4D	Solid	12/03/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-03	MJNKL4S	Solid	12/03/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-04	MJNKL5	Solid	12/03/2024		FD				
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-05	MJNKM5	Solid	12/03/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-06	MJNKM6	Solid	12/03/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-07	MJNKP8	Solid	12/04/2024		FD				
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-08	MJNKP9	Solid	12/04/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-09	MJNKQ0	Solid	12/04/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-10	MJNKQ1	Solid	12/04/2024						
				Metals CLP4 MS		SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids		Chemtech -SOP	15	12/27/2024	12/27/2024

P5158-11	MJNKQ2	Solid	12/04/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-12	MJNKQ8	Solid	12/03/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-13	MJNL17	Solid	12/04/2024		FD			
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-14	MJNL18	Solid	12/04/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-15	MJNL19	Solid	12/04/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-16	MJNL49	Solid	12/04/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-17	MJNL62	Solid	12/02/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-18	MJNL63	Solid	12/02/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024
P5158-19	MJNL71	Solid	12/03/2024					
				Metals CLP4 MS	SFAM_MS	15	12/27/2024	12/27/2024
				Percent Solids	Chemtech -SOP	15	12/27/2024	12/27/2024

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB165563 **WorkList ID :** 186234 **Department :** Digestion **Date :** 12-11-2024 13:48:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5158-01	MJNKL4	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-02	MJNKL4D	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-03	MJNKL4S	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-04	MJNKL5	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-05	MJNKM5	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-06	MJNKM6	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-07	MJNKP8	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-08	MJNKP9	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-09	MJNKQ0	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-10	MJNKQ1	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-11	MJNKQ2	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-12	MJNKQ8	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS
P5158-13	MJNL17	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-14	MJNL18	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-15	MJNL19	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-16	MJNL49	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/04/2024	SFAM_MS
P5158-17	MJNL62	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/02/2024	SFAM_MS
P5158-18	MJNL63	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/02/2024	SFAM_MS
P5158-19	MJNL71	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	Q31	12/03/2024	SFAM_MS

Date/Time 12/12/24 8:30

Raw Sample Received by: 5629. met. digestion

Raw Sample Relinquished by: SM

Date/Time 12/12/24 9:30

Raw Sample Received by: SM

Raw Sample Relinquished by: 5629. met. digestion

868