SDG COVER PAGE

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

Lab Code: ACE Case No.: 51955 MA No.: 3152.0 SDG No.: YE8G3

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
YE8G3	Q1105-01	X	X	X	
YE8G5	Q1105-02	X	X	X	
YE8G6	Q1105-03	X	X	X	
YE8G6D	Q1105-04	X	X	X	
YE8G6S	Q1105-05	X	X	X	
YE8H0	Q1105-06	X	X	X	
YE8H1	Q1105-07	X	X	X	
YE8H2	Q1105-08	X	X	X	
YE8H3	Q1105-09	X	X	X	
YE8H4	Q1105-10	X	X	X	
YE8H5	Q1105-11	X	X	X	
YE8H6	Q1105-12	X	X	X	
YE8E9	Q1105-13	X	X	X	
YE8F0	Q1105-14	X	X	X	
YE8F1	Q1105-15	X	X	X	
YE8F2	Q1105-16	X	X	X	
YE8F3	Q1105-17	X	X	X	
YE8F4	Q1105-18	X	X	X	
YE8F6	Q1105-19	X	X	X	
YE8G0	Q1105-20	X	X	X	
YE8G1	Q1105-21	X	X	X	
YE8G2	Q1105-22	X	X	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 # YE8G3

USEPA CLP COC (LAB COPY)

DateShipped: 1/15/2025

CarrierName: FedEx

AirbillNo: 7714 3444 6883

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011425-221848-0002

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-29-SO-39-40	YE8G3	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	388 (Wet Ice), 389 (Wet Ice) (3)	29	01/13/2025 16:45	SDG
MW-29-SO-41-42	YE8G5	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	396 (Wet Ice), 397 (Wet Ice) (3)	29	01/13/2025 16:40	
MW-29-SO-43-44	YE8G6	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	400 (Wet Ice), 401 (Wet Ice) (3)	29	01/13/2025 16:35	
MW-30-SO-8-10	YE8H0	Soil/ EAEST	Grab	SPLP ICP-AES(21)	417 (Wet Ice) (2)	30	01/13/2025 14:10	

Sample(s) to be used for Lab QC: MW-29-SO-43-44 Tag 400, MW-29-SO-43-44 Tag 401

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Myf EA	01/15/25 1500		9:32 1-16-25	IR-Gun #1 2.1° C Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # YE8G3

USEPA CLP COC (LAB COPY)

DateShipped: 1/15/2025

CarrierName: FedEx

AirbillNo: 7714 2444 8680

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011425-222734-0003

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-30-SO-8-10	YE8H0	Soil/ EAEST	Grab	ICP-AES/MS(21)	416 (Wet Ice) (1)	30	01/13/2025 14:10	
MW-30-SO-17-18	YE8H1	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	420 (Wet Ice), 421 (Wet Ice) (3)	30	01/13/2025 14:05	
MW-30-SO-18-19.5	YE8H2	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	424 (Wet Ice), 425 (Wet Ice) (3)	30	01/13/2025 14:00	
MW-30-SO-19.5-20	YE8H3	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	428 (Wet Ice), 429 (Wet Ice) (3)	30	01/13/2025 13:55	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Myf EA	01/15/25 1500		9:32 1-16-25	IP Cont 1 2.0° C Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # YE8G3

USEPA CLP COC (LAB COPY)

DateShipped: 1/15/2025

CarrierName: FedEx

AirbillNo: 7714 3443 1891

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011425-223134-0004

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-930-SO-8-10	YE8H4	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	432 (Wet Ice), 433 (Wet Ice) (3)	930	01/13/2025 14:10	
MW-30-SO-20-21	YE8H5	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	436 (Wet Ice), 437 (Wet Ice) (3)	30	01/13/2025 13:50	
MW-30-SO-21-21.5	YE8H6	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	440 (Wet Ice), 441 (Wet Ice) (3)	30	01/13/2025 13:45	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Myg EA	01/15/25 1500		9:32 1-16-25	IR Gun #1 1.9°C
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # YE8G3

USEPA CLP COC (LAB COPY)

DateShipped: 1/17/2025

CarrierName: FedEx

AirbillNo: 7714 8859 5553

CHAIN OF CUSTODY RECORD

Case #: 51955

MA 3152.0

No: 9-011625-150417-0007

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

5

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
AX-HA6-SO-0.5-0.7	YE8E9	Soil/ EAEST	Grab	ICP-AES/MS(21)	290 (Wet Ice) (1)	AX	01/15/2025 10:00	
AX-HA6-SO-3.0-3.2	YE8F0	Soil/ EAEST	Grab	ICP-AES/MS(21)	297 (Wet Ice) (1)	AX	01/15/2025 10:05	
AX-HA8-SO-4.5-4.7	YE8F1	Soil/ EAEST	Grab	ICP-AES/MS(21)	304 (Wet Ice) (1)	AX	01/15/2025 10:25	
AX-HA7-SO-0.5-0.7	YE8F2	Soil/ EAEST	Grab	ICP-AES/MS(21)	311 (Wet Ice) (1)	AX	01/15/2025 10:10	
AX-HA7-SO-3.0-3.2	YE8F3	Soil/ EAEST	Grab	ICP-AES/MS(21)	318 (Wet Ice) (1)	AX	01/15/2025 10:15	
AX-HA8-SO-0.6-0.8	YE8F4	Soil/ EAEST	Grab	ICP-AES/MS(21)	325 (Wet Ice) (1)	AX	01/15/2025 10:20	
MW-28-SO-0-1	YE8F6	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	339 (Wet Ice), 343 (Wet Ice) (3)	28	01/15/2025 09:00	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Allison Thurston 01/17/25 1600			1/18/25 10:54	2.5° IR gun #1 Top blank Custody seal

68HERH20D0011

SDG # YE8G3

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 9-011625-152322-0009

DateShipped: 1/17/2025
CarrierName: FedEx
AirbillNo: 7714 8857 3310

Case #: 51955
MA 3152.0

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-928-SO-8-10	YE8F9	Soil/ EAEST	Grab	SPLP ICP-AES(21)	364 (Wet Ice) (2)	928	01/15/2025 09:10	
MW-28-SO-20-22	YE8G0	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	367 (Wet Ice), 371 (Wet Ice) (3)	28	01/15/2025 12:10	✓
MW-28-SO-38-40	YE8G1	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	374 (Wet Ice), 378 (Wet Ice) (3)	28	01/15/2025 12:10	✓
MW-28-SO-18.5-19.5	YE8G2	Soil/ EAEST	Grab	ICP-AES/MS(21), SPLP ICP-AES(21)	381 (Wet Ice), 385 (Wet Ice) (3)	28	01/15/2025 12:15	✓

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH, ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		1/17/2025 1500		1/18/25 10.54	1.8°C Ice melt Trip blank Custody

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FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 5
Received By (Print Name) Cassanova Rene		Log-in Date 1/16/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8G3	MA No. 3152.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771434446883 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	01/16/2025
12. Time Received	09:32

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8G3	N/A	388	Q1105-01	Intact
2	YE8G5	N/A	396	Q1105-02	Intact
3	YE8G6	N/A	400	Q1105-03	Intact
4	YE8G6D	N/A	400	Q1105-04	Intact
5	YE8G6S	N/A	400	Q1105-05	Intact
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
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 1/20/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 5
Received By (Print Name) Cazzanova Reta		Log-in Date 1/16/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8G3	MA No. 3152.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771434448680 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 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	01/16/2025
12.Time Received	09:32

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8H0	N/A	416	Q1105-06	Intact
2	YE8H1	N/A	420	Q1105-07	Intact
3	YE8H2	N/A	424	Q1105-08	Intact
4	YE8H3	N/A	428	Q1105-09	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
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 1/20/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 3 of 5
Received By (Print Name) Cassandra Reina		Log-in Date **1/16/2025**
Received By (Signature)		
Case Number 51955	SDG No. YE8G3	MA No. 3152.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771434431891 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.9 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	01/16/2025
12.Time Received	09:32

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8H4	N/A	432	Q1105-10	Intact
2	YE8H5	N/A	436	Q1105-11	Intact
3	YE8H6	N/A	440	Q1105-12	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
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	1/20/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 4 of 5
Received By (Print Name) Sasanova Peri		Log-in Date 1/18/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8G3	MA No. 3152.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771488595553 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.5 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	01/18/2025
12.Time Received	10:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8E9	N/A	290	Q1105-13	Intact
2	YE8F0	N/A	297	Q1105-14	Intact
3	YE8F1	N/A	304	Q1105-15	Intact
4	YE8F2	N/A	311	Q1105-16	Intact
5	YE8F3	N/A	318	Q1105-17	Intact
6	YE8F4	N/A	325	Q1105-18	Intact
7	YE8F6	N/A	339	Q1105-19	Intact
8	N/A	N/A	N/A	N/A	N/A
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 1/20/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 5 of 5
Received By (Print Name) Cassandra Rose		Log-in Date 1/18/2025
Received By (Signature)		
Case Number 51955	SDG No. YE8G3	MA No. 3152.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771488573310 5
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.8 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	01/18/2025
12.Time Received	10:54

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	YE8G0	N/A	367	Q1105-20	Intact
2	YE8G1	N/A	374	Q1105-21	Intact
3	YE8G2	N/A	381	Q1105-22	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
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 1/28/25	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.	**51955**	SDG NO.	**YE8G3**
MA NO.	**3152.0**	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	6	✓	
3 . Sample Log-In Sheet (DC-1)	7	11	✓	
4 . CSF Inventory Sheet (DC-2)	12	14	✓	
5 . SDG Narrative	15	21	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	22	24	✓	
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	25	44	✓	
9 . Instrument raw data by instrument in analysis order	45	472	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	473	632	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	633	634	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	635	647	✓	
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	648	667	✓	
18 . Instrument raw data by instrument in analysis order	668	1511	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1512	1644	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1645	1648	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1649	1655	✓	
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	1656	1675	✓	
27. Instrument raw data by instrument in analysis order	1676	1677	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1678	1702	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1703	1704	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1705	1707	✓	
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 5)	1708	1712	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1713	1716	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1717	1722	✓	
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 # YE8G3
CASE # 51955
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1105
MODIFIED ANALYSIS # 3152.0

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 01/16/2025, 01/18/2025

B. Parameters

Test requested for Metals CLP12= Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium & Mercury.

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.1^{o}C, 2.0^{o}C, 1.9^{o}C, 2.5^{o}C, 1.8^{o}C

D. Analytical Techniques:

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

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

E. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

Where,

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

Example Calculation For Sample YE8G3 For Aluminum:

If C = 120.6874 ppm
Vf = 100 ml
W = 1.15 g
S = 0.649(64.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 120.6874 \times \frac{100}{1.15 \times 0.649} \times 1$$

= 16170.3490 mg/kg

= 16000 mg/kg (Reported Result with Signification)

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

284 Sheffield Street
Mountainside, NJ 07092

Example Calculation For Sample YE8G3 For Arsenic :

If C = 70.89 ppb
Vf = 500 ml
W = 1.19 g
S = 0.649(64.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 70.89 \times \frac{500}{1.19 \times 0.649} \times 1 / 1000$$

$$= 45.8947 \text{ mg/kg}$$

= 46 mg/kg (Reported Result with Signification)

Calculation for Hg 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 response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) 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 YE8G6 :

If C = 0.1183 ppb
Vf = 100 mL
W = 0.57g
S = 0.768(76.8/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1183 \times \frac{100}{0.57 \times 0.768} \times 1 / 1000$$

$$= 0.027023 \text{ mg/kg}$$

= 0.027 mg/kg (Reported Result with Signification)

F. 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 except for Manganese. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

As per scheduling, pH analysis is required for soil samples and the pH analysis data is provided with hardcopy.

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.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Molybdenum	89Y
Nickel	45Sc
Selenium	89Y
Silver	159Tb

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Strontium	89Y
Thallium	209Bi
Vanadium	45Sc
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

Date: 04/13/2022	**MA:** 3152.0	**Title:** ICP-MS Analysis Plus Molybdenum and Strontium
Method Source: SFAM01.1	**Method:** ICP-MS	
Matrix: Aqueous/Water and Soil/Sediment		

Summary of Modification

The purpose of this modified analysis is to analyze aqueous/water and soil/sediment samples by ICP-MS with the addition of the non-routine analytes Molybdenum (Mo) and Strontium (Sr). Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	CRQL (µg/L)	CRQL (mg/kg)	Spike Added (µg/L)	Spike Added (mg/kg)
Molybdenum (Mo)	7439-98-7	10.0	2.0	200	50
Strontium (Sr)	7440-24-6	2.0	96.0	100	1000

II. Calibration and QC Requirements **Not applicable** ☐

The Laboratory shall:

- Ensure Method Detection Limits have been determined for Molybdenum and Strontium in aqueous/water and soil/sediment matrices by the preparation methods used for the samples that meet all applicable SOW requirements.
- Perform the Initial Calibration with at least one non-blank standard at or below the modified CRQLs, converted to µg/L as necessary.
- Add Mo and Sr to the ICV and CCV at appropriate mid-range concentrations.
- Evaluate the ICB and CCB against the modified CRQLs converted to µg/L as necessary.
- Evaluate the Preparation Blanks using the modified CRQLs.
- Perform the Matrix Spike at the levels specified above. Post-digestion spike requirements are per the SOW.
- Flag the Duplicates based on the modified CRQLs.
- Add Mo and Sr to the LCS at 2 times the appropriate modified CRQLs.
- Not add Sr to the ICS. Use a true value of 0 (zero) and acceptance windows of ±2x the aqueous CRQL, unless a non-zero concentration for Sr has been determined.
- If mass 97 is monitored for Mo, ensure that isobaric interference correction is applied if necessary for levels of Calcium found in samples.

III. Preparation and Method Modifications **Not applicable** ☒

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- Add Molybdenum and Strontium to Form 1.
- Report the "J" and "U" qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQLs.
- Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective action taken. These problems may include

problems encountered during analysis, dilutions, re-analyses or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analysis including a copy of the approved modification with the SDG Narrative.

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
In Date: 01/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:55
Out Date: 01/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134343

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
Q1105-01	YE8G3	1	1.15	8.45	9.6	6.63	64.9	
Q1105-02	YE8G5	2	1.19	8.47	9.66	9.22	94.8	
Q1105-03	YE8G6	3	1.14	8.68	9.82	7.81	76.8	
Q1105-04	YE8G6D	4	1.14	8.68	9.82	7.81	76.8	
Q1105-05	YE8G6S	5	1.14	8.68	9.82	7.81	76.8	
Q1105-06	YE8H0	6	1.16	8.63	9.79	8.75	87.9	
Q1105-07	YE8H1	7	1.18	8.72	9.9	7.81	76.0	
Q1105-08	YE8H2	8	1.15	8.43	9.58	6.41	62.4	
Q1105-09	YE8H3	9	1.15	8.81	9.96	8.44	82.7	
Q1105-10	YE8H4	10	1.19	8.38	9.57	9.05	93.8	
Q1105-11	YE8H5	11	1.19	8.61	9.8	8.36	83.3	
Q1105-12	YE8H6	12	1.18	8.48	9.66	9.31	95.9	
Q1105-13	YE8E9	13	1.18	8.50	9.68	9.02	92.2	
Q1105-14	YE8F0	14	1.19	8.52	9.71	9.48	97.3	
Q1105-15	YE8F1	15	1.19	8.72	9.91	9.21	92.0	
Q1105-16	YE8F2	16	1.14	8.40	9.54	7.93	80.8	
Q1105-17	YE8F3	17	1.18	8.56	9.74	8.84	89.5	
Q1105-18	YE8F4	18	1.15	8.47	9.62	8.95	92.1	
Q1105-19	YE8F6	19	1.19	8.72	9.91	9.11	90.8	
Q1105-20	YE8G0	20	1.17	8.55	9.72	9.13	93.1	
Q1105-21	YE8G1	21	1.15	8.84	9.99	8.25	80.3	
Q1105-22	YE8G2	22	1.12	8.67	9.79	9.35	94.9	

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

WORKLIST(Hardcopy Internal Chain)

NB 134343

WorkList Name : %1-q1105 **WorkList ID :** 187020 **Department :** Wet-Chemistry **Date :** 01-20-2025 11:08:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-01	YE8G3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-02	YE8G5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-03	YE8G6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-04	YE8G6D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-05	YE8G6S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-06	YE8H0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-07	YE8H1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-08	YE8H2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-09	YE8H3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-10	YE8H4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-11	YE8H5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-12	YE8H6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-13	YE8E9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/13/2025	Chemtech -SO
Q1105-14	YE8F0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-15	YE8F1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-16	YE8F2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-17	YE8F3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-18	YE8F4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-19	YE8F6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-20	YE8G0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO
Q1105-21	YE8G1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO

NO3

Date/Time 01/20/25 12:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 01/20/25 13:30

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 134343

WorkList Name : %1-q1105 **WorkList ID :** 187020 **Department :** Wet-Chemistry **Date :** 01-20-2025 11:08:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-22	YE8G2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/15/2025	Chemtech -SO

24

Date/Time 01/20/25 12:30

Raw Sample Received by: JB WC

Raw Sample Relinquished by: SM

Date/Time 01/20/25 13:30

Raw Sample Received by: SM

Raw Sample Relinquished by: JB WC

EPA SAMPLE NO.

YE8E9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-13

% Solids: 92.2 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	940		01/24/2025	2043
7440-70-2	Calcium	8600		01/24/2025	2043
7439-89-6	Iron	13000		01/24/2025	2043
7439-95-4	Magnesium	2300		01/24/2025	2043
7440-09-7	Potassium	220	J	01/24/2025	2043
7440-23-5	Sodium	420	U	01/24/2025	2043

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

Comments:

EPA SAMPLE NO.

YE8F0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-14

% Solids: 97.3 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	1200		01/24/2025	2100
7440-70-2	Calcium	10000		01/24/2025	2100
7439-89-6	Iron	15000		01/24/2025	2100
7439-95-4	Magnesium	2900		01/24/2025	2100
7440-09-7	Potassium	280	J	01/24/2025	2100
7440-23-5	Sodium	420	U	01/24/2025	2100

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

Comments:

EPA SAMPLE NO.

YE8F1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-15

% Solids: 92 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	1400		01/24/2025	2104
7440-70-2	Calcium	3800		01/24/2025	2104
7439-89-6	Iron	16000		01/24/2025	2104
7439-95-4	Magnesium	1200		01/24/2025	2104
7440-09-7	Potassium	290	J	01/24/2025	2104
7440-23-5	Sodium	450	U	01/24/2025	2104

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

Comments:

EPA SAMPLE NO.

YE8F2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-16

% Solids: 80.8 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	1400		01/24/2025	2108
7440-70-2	Calcium	1800		01/24/2025	2108
7439-89-6	Iron	19000		01/24/2025	2108
7439-95-4	Magnesium	760		01/24/2025	2108
7440-09-7	Potassium	360	J	01/24/2025	2108
7440-23-5	Sodium	530	U	01/24/2025	2108

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

Comments:

EPA SAMPLE NO.

YE8F3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-17

% Solids: 89.5 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	1500		01/24/2025	2112
7440-70-2	Calcium	16000		01/24/2025	2112
7439-89-6	Iron	16000		01/24/2025	2112
7439-95-4	Magnesium	2900		01/24/2025	2112
7440-09-7	Potassium	330	J	01/24/2025	2112
7440-23-5	Sodium	400	U	01/24/2025	2112

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

Comments:

EPA SAMPLE NO.

YE8F4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-18

% Solids: 92.1 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	580		01/24/2025	2116
7440-70-2	Calcium	1900		01/24/2025	2116
7439-89-6	Iron	10000		01/24/2025	2116
7439-95-4	Magnesium	460		01/24/2025	2116
7440-09-7	Potassium	49	J	01/24/2025	2116
7440-23-5	Sodium	400	U	01/24/2025	2116

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

Comments:

EPA SAMPLE NO.

YE8F6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-19

% Solids: 90.8 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	7900		01/24/2025	2120
7440-70-2	Calcium	7900		01/24/2025	2120
7439-89-6	Iron	32000		01/24/2025	2120
7439-95-4	Magnesium	7900		01/24/2025	2120
7440-09-7	Potassium	510		01/24/2025	2120
7440-23-5	Sodium	380	U	01/24/2025	2120

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

Comments:

EPA SAMPLE NO.

YE8G0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-20

% Solids: 93.1 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	17000		01/24/2025	2124
7440-70-2	Calcium	4300		01/24/2025	2124
7439-89-6	Iron	41000		01/24/2025	2124
7439-95-4	Magnesium	9900		01/24/2025	2124
7440-09-7	Potassium	2100		01/24/2025	2124
7440-23-5	Sodium	480	U	01/24/2025	2124

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

Comments:

EPA SAMPLE NO.

YE8G1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-21

% Solids: 80.3 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	15000		01/24/2025	2128
7440-70-2	Calcium	6600		01/24/2025	2128
7439-89-6	Iron	34000		01/24/2025	2128
7439-95-4	Magnesium	8700		01/24/2025	2128
7440-09-7	Potassium	2400		01/24/2025	2128
7440-23-5	Sodium	100	J	01/24/2025	2128

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

Comments:

EPA SAMPLE NO.

YE8G2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-22

% Solids: 94.9 Date Received: 01/18/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	15000		01/24/2025	2132
7440-70-2	Calcium	3500		01/24/2025	2132
7439-89-6	Iron	48000		01/24/2025	2132
7439-95-4	Magnesium	8700		01/24/2025	2132
7440-09-7	Potassium	1200		01/24/2025	2132
7440-23-5	Sodium	66	J	01/24/2025	2132

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

Comments:

EPA SAMPLE NO.

YE8G3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-01

% Solids: 64.9 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	16000		01/24/2025	1951
7440-70-2	Calcium	370000	D	01/27/2025	1700
7439-89-6	Iron	20000		01/24/2025	1951
7439-95-4	Magnesium	4500		01/24/2025	1951
7440-09-7	Potassium	4400		01/24/2025	1951
7440-23-5	Sodium	270	J	01/24/2025	1951

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

Comments:

EPA SAMPLE NO.

YE8G5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-02

% Solids: 94.8 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	16000		01/24/2025	1955
7440-70-2	Calcium	4500		01/24/2025	1955
7439-89-6	Iron	47000		01/24/2025	1955
7439-95-4	Magnesium	9100		01/24/2025	1955
7440-09-7	Potassium	440	J	01/24/2025	1955
7440-23-5	Sodium	170	J	01/24/2025	1955

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

Comments:

EPA SAMPLE NO.

YE8G6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-03

% Solids: 76.8 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	5800		01/24/2025	1959
7440-70-2	Calcium	20000		01/24/2025	1959
7439-89-6	Iron	12000		01/24/2025	1959
7439-95-4	Magnesium	4300		01/24/2025	1959
7440-09-7	Potassium	650		01/24/2025	1959
7440-23-5	Sodium	110	J	01/24/2025	1959

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

Comments:

EPA SAMPLE NO.

YE8H0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-06

% Solids: 87.9 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	15000		01/24/2025	2015
7440-70-2	Calcium	13000		01/24/2025	2015
7439-89-6	Iron	39000		01/24/2025	2015
7439-95-4	Magnesium	6700		01/24/2025	2015
7440-09-7	Potassium	1100		01/24/2025	2015
7440-23-5	Sodium	190	J	01/24/2025	2015

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

Comments:

EPA SAMPLE NO.

YE8H1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-07

% Solids: 76 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	20000		01/24/2025	2019
7440-70-2	Calcium	4600		01/24/2025	2019
7439-89-6	Iron	51000		01/24/2025	2019
7439-95-4	Magnesium	7300		01/24/2025	2019
7440-09-7	Potassium	3100		01/24/2025	2019
7440-23-5	Sodium	110	J	01/24/2025	2019

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

Comments:

EPA SAMPLE NO.

YE8H2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-08

% Solids: 62.4 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	12000		01/24/2025	2023
7440-70-2	Calcium	6600		01/24/2025	2023
7439-89-6	Iron	57000		01/24/2025	2023
7439-95-4	Magnesium	5400		01/24/2025	2023
7440-09-7	Potassium	1500		01/24/2025	2023
7440-23-5	Sodium	150	J	01/24/2025	2023

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

Comments:

EPA SAMPLE NO.

YE8H3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-09

% Solids: 82.7 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	13000		01/24/2025	2027
7440-70-2	Calcium	4200		01/24/2025	2027
7439-89-6	Iron	41000		01/24/2025	2027
7439-95-4	Magnesium	7700		01/24/2025	2027
7440-09-7	Potassium	940		01/24/2025	2027
7440-23-5	Sodium	120	J	01/24/2025	2027

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

Comments:

EPA SAMPLE NO.

YE8H4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-10

% Solids: 93.8 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	6800		01/24/2025	2031
7440-70-2	Calcium	3600		01/24/2025	2031
7439-89-6	Iron	18000		01/24/2025	2031
7439-95-4	Magnesium	5700		01/24/2025	2031
7440-09-7	Potassium	340	J	01/24/2025	2031
7440-23-5	Sodium	150	J	01/24/2025	2031

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

Comments:

EPA SAMPLE NO.

YE8H5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-11

% Solids: 83.3 Date Received: 01/16/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	13000		01/24/2025	2035
7440-70-2	Calcium	3300		01/24/2025	2035
7439-89-6	Iron	56000		01/24/2025	2035
7439-95-4	Magnesium	6600		01/24/2025	2035
7440-09-7	Potassium	1200		01/24/2025	2035
7440-23-5	Sodium	110	J	01/24/2025	2035

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

Comments:

EPA SAMPLE NO.

YE8H6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-12

% Solids: 95.9 Date Received: 01/16/2025

Analytical Method: ICP_AES

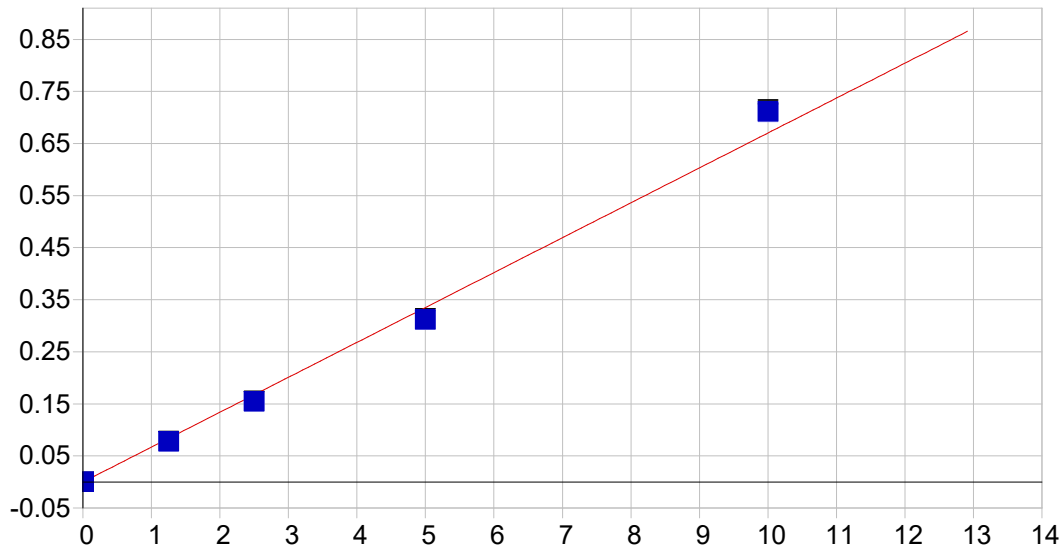
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12000		01/24/2025	2039
7440-70-2	Calcium	6900		01/24/2025	2039
7439-89-6	Iron	39000		01/24/2025	2039
7439-95-4	Magnesium	6600		01/24/2025	2039
7440-09-7	Potassium	1000		01/24/2025	2039
7440-23-5	Sodium	330	J	01/24/2025	2039

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

Comments:

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

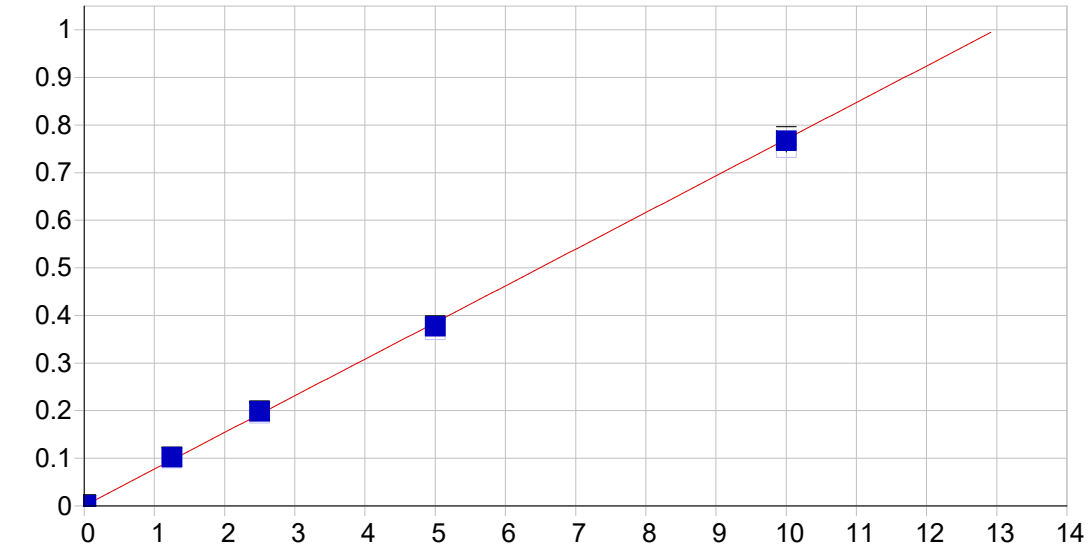


As 189.042 {479}

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Correlation:	0.997810	Status:	OK.
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Predicted MQL:	0.008660		

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S1	.01000	.01208	.002	20.8	.00069	.000	1
S3	2.5000	2.3130	-.187	-7.48	.15463	.000	1
S4	5.0000	4.6579	-.342	-6.84	.31151	.002	1
S5	10.000	10.616	.616	6.16	.71031	.004	1
S2	1.2500	1.1609	-.089	-7.13	.07755	.001	1



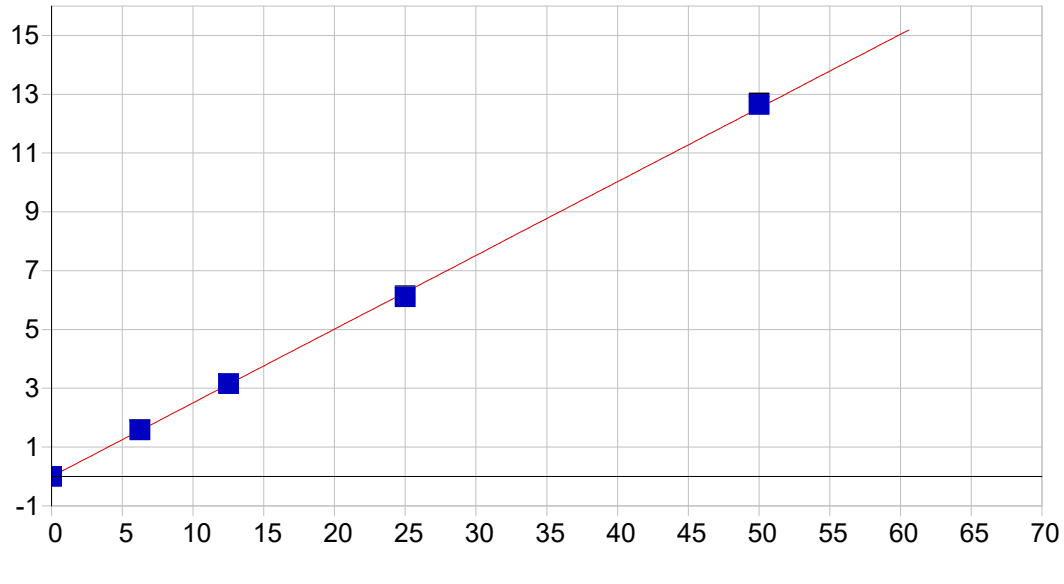
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n (Exponent):	1.000000		
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Std Error of Est:	0.000044		
Predicted MDL:	0.002042		
Predicted MQL:	0.006807		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00025	.000	1
S1	.02500	.02632	.001	5.29	.00220	.000	1
S3	2.5000	2.5708	.071	2.83	.19448	.002	1
S4	5.0000	4.8958	-.104	-2.08	.36979	.002	1
S5	10.000	9.9589	-.041	-.411	.75220	.008	1
S2	1.2500	1.3232	.073	5.85	.10027	.001	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



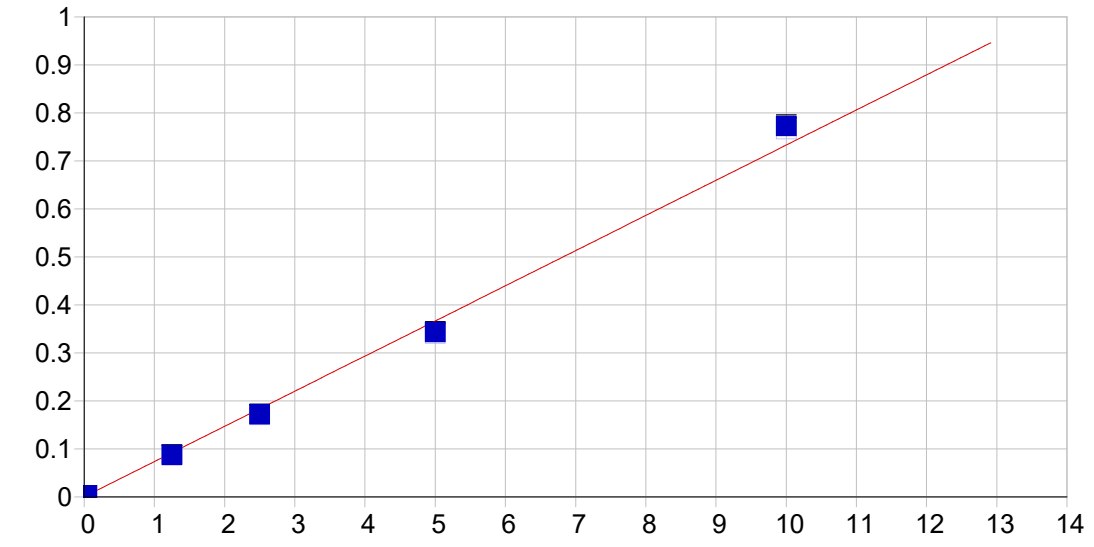
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n (Exponent):	1.000000		
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S1	.01000	.00884	-.001	-11.6	.00222	.000	1
S3	12.500	12.591	.091	.730	3.1534	.002	1
S4	25.000	24.381	-.619	-2.48	6.1058	.032	1
S5	50.000	50.460	.460	.920	12.637	.055	1
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Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



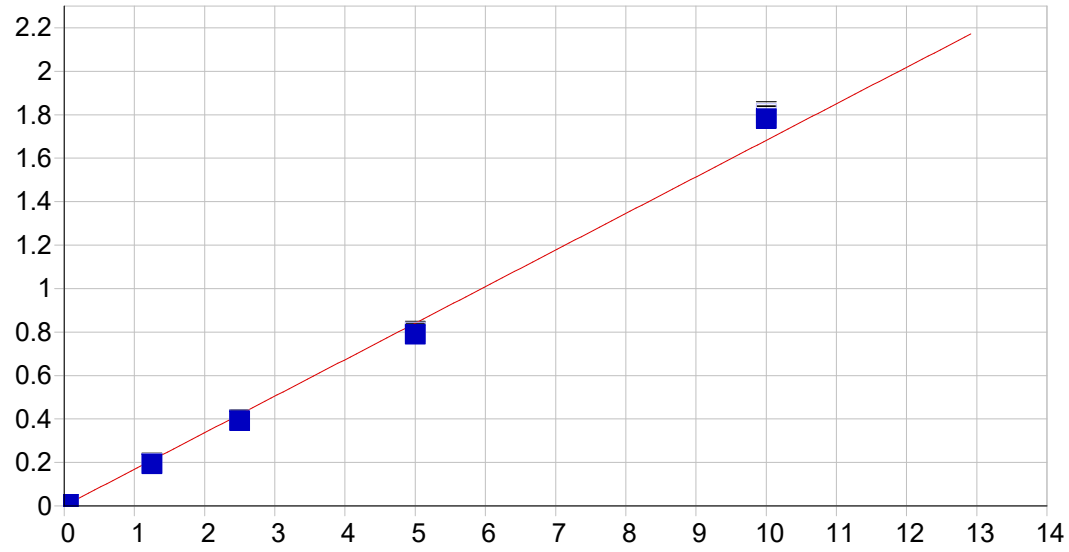
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n (Exponent):	1.000000		
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Std Error of Est:	0.000133		
Predicted MDL:	0.002980		
Predicted MQL:	0.009933		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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S1	.03500	.03081	-.004	-12.0	.00271	.000	1
S3	2.5000	2.3430	-.157	-6.28	.17036	.000	1
S4	5.0000	4.6814	-.319	-6.37	.33992	.002	1
S5	10.000	10.541	.541	5.41	.76569	.003	1
S2	1.2500	1.1885	-.061	-4.92	.08666	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

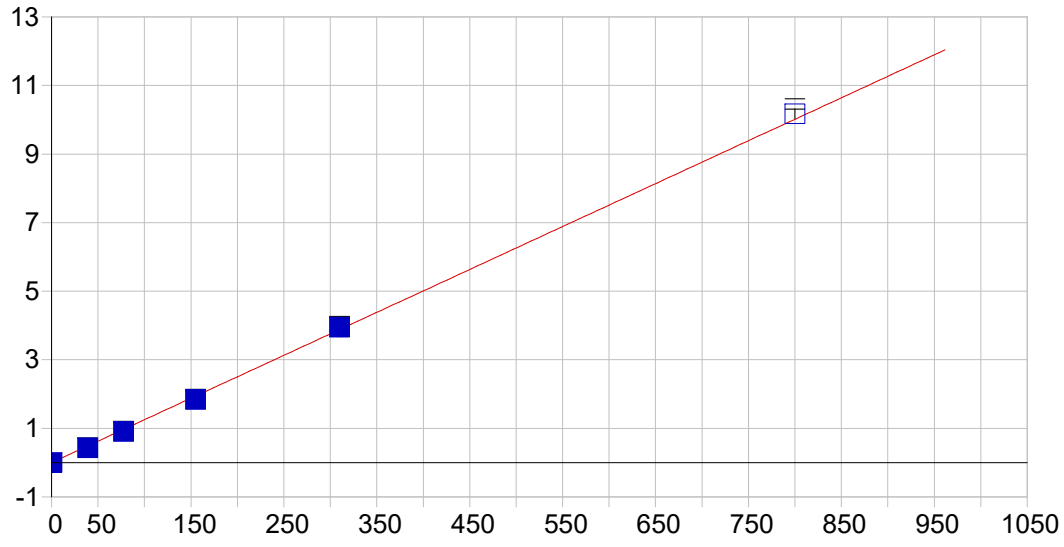


Sb 206.833 {463}

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n (Exponent):	1.000000		
Correlation:	0.998011	Status:	OK.
Std Error of Est:	0.000443		
Predicted MDL:	0.001646		
Predicted MQL:	0.005486		

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S1	.06000	.05240	-.008	-12.7	.00903	.000	1
S3	2.5000	2.3242	-.176	-7.03	.39667	.001	1
S4	5.0000	4.6895	-.311	-6.21	.80003	.004	1
S5	10.000	10.598	.598	5.98	1.8048	.010	1
S2	1.2500	1.1458	-.104	-8.33	.19572	.001	1



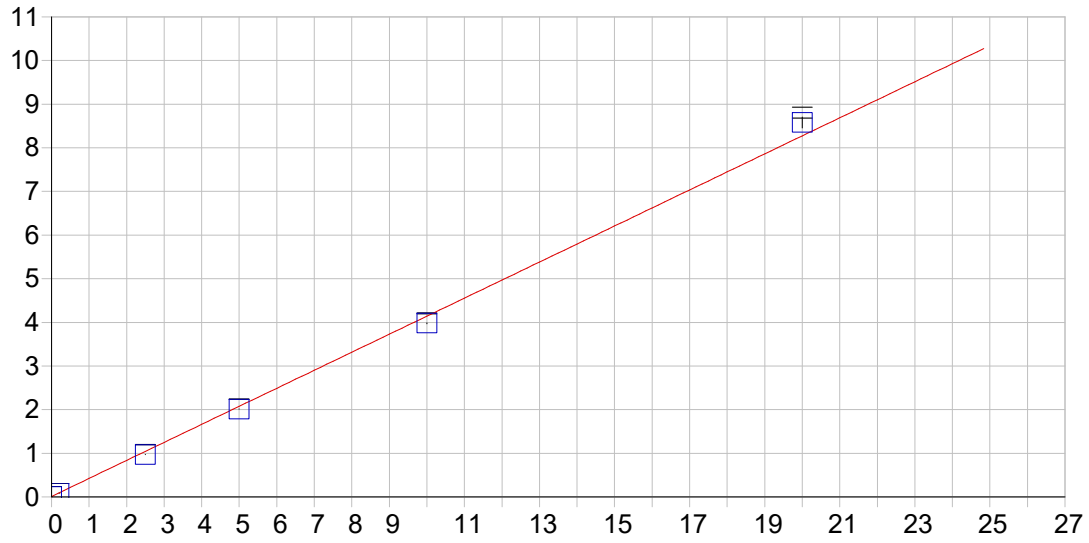
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n (Exponent):	1.000000		
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Predicted MDL:	0.009836		
Predicted MQL:	0.032786		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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S1	.20000	.18622	-.014	-6.89	.00234	.000	1
S3	77.500	72.460	-5.04	-6.50	.90825	.003	1
S4	155.00	146.71	-8.29	-5.35	1.8389	.007	1
S5	310.00	315.06	5.06	1.63	3.9487	.029	1
S2	38.750	34.377	-4.37	-11.3	.43093	.002	1
S6	800.00	812.67	12.7	1.58	10.174	.147	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



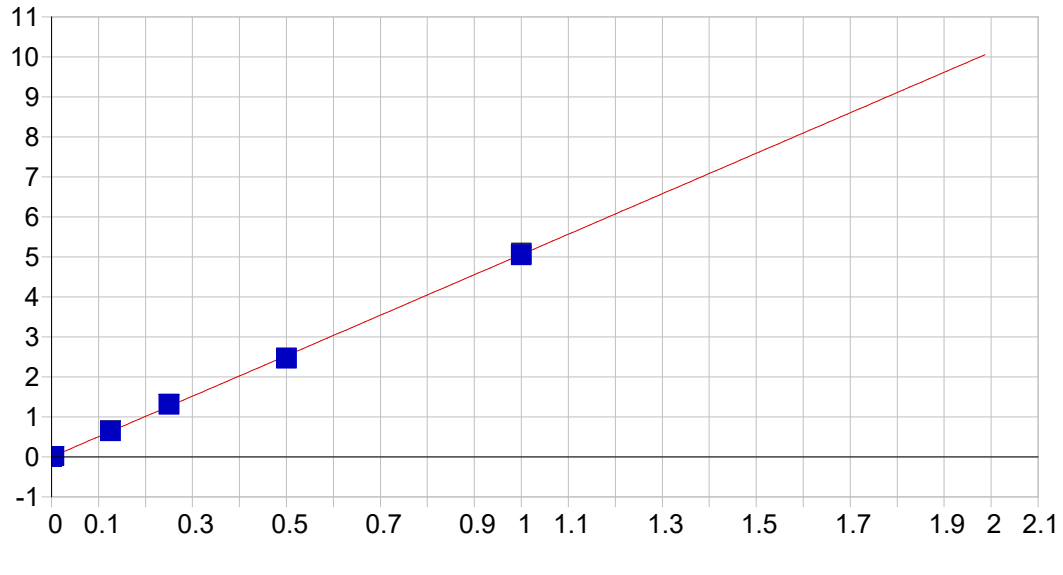
Ba 493.409 { 68}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010406	Re-Slope:	1.000000
A1 (Gain):	0.413204	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999177	Status:	OK.
Std Error of Est:	0.001782		
Predicted MDL:	0.000985		
Predicted MQL:	0.003282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.01042	.000	1
S1	.20000	.18075	-.019	-9.63	.08509	.000	1
S3	5.0000	4.8460	-.154	-3.08	2.0128	.007	1
S4	10.000	9.6068	-.393	-3.93	3.9800	.011	1
S5	20.000	20.743	.743	3.71	8.5814	.126	1
S2	2.5000	2.3236	-.176	-7.05	.97055	.004	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



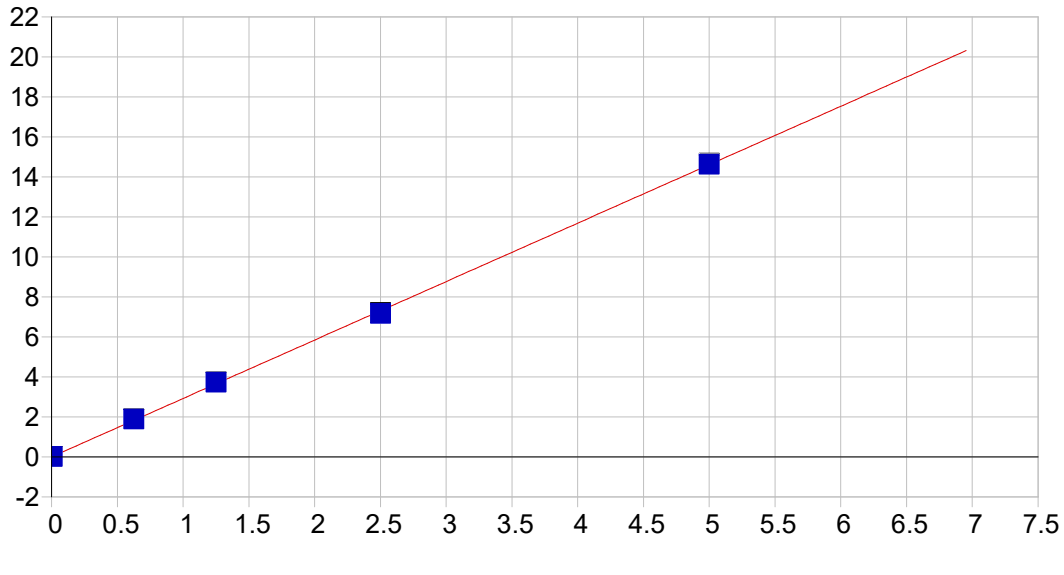
Be 234.861 {144}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	5.060700	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999779	Status:	OK.
Std Error of Est:	0.000397		
Predicted MDL:	0.000076		
Predicted MQL:	0.000254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00000	.000	1
S1	.00500	.00533	.000	6.69	.02697	.001	1
S3	.25000	.25950	.009	3.80	1.3075	.005	1
S4	.50000	.48723	-.013	-2.55	2.4543	.004	1
S5	1.0000	.99920	-.001	-.080	5.0339	.038	1
S2	.12500	.12874	.004	3.00	.64870	.005	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



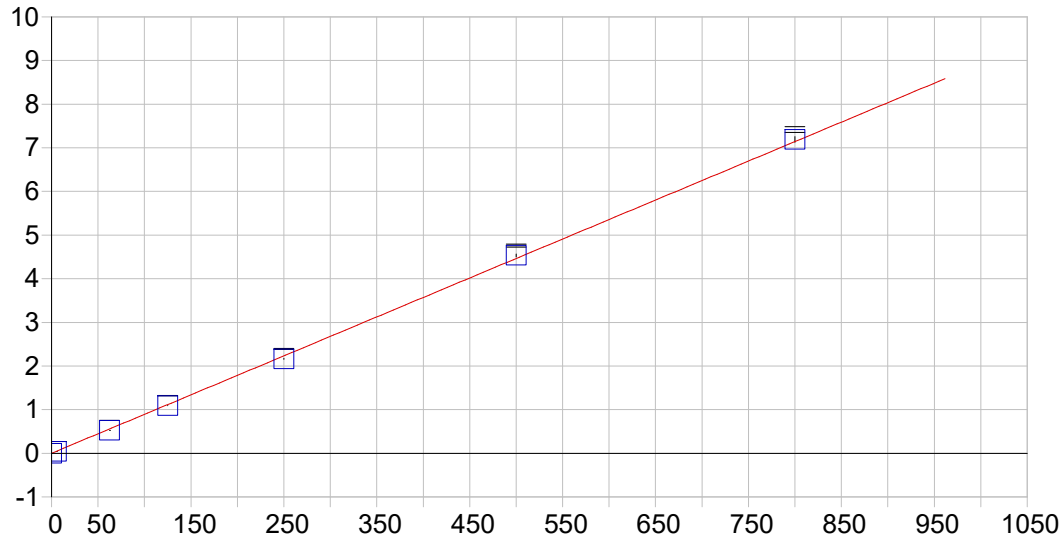
Cd 214.438 {457}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000018	Re-Slope:	1.000000
A1 (Gain):	2.922093	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000368		
Predicted MDL:	0.000085		
Predicted MQL:	0.000282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.00500	.00503	.000	.622	.01469	.000	1
S3	1.2500	1.2767	.027	2.13	3.7378	.008	1
S4	2.5000	2.4508	-.049	-1.97	7.1758	.040	1
S5	5.0000	5.0036	.004	.071	14.650	.044	1
S2	.62500	.64395	.019	3.03	1.8853	.005	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



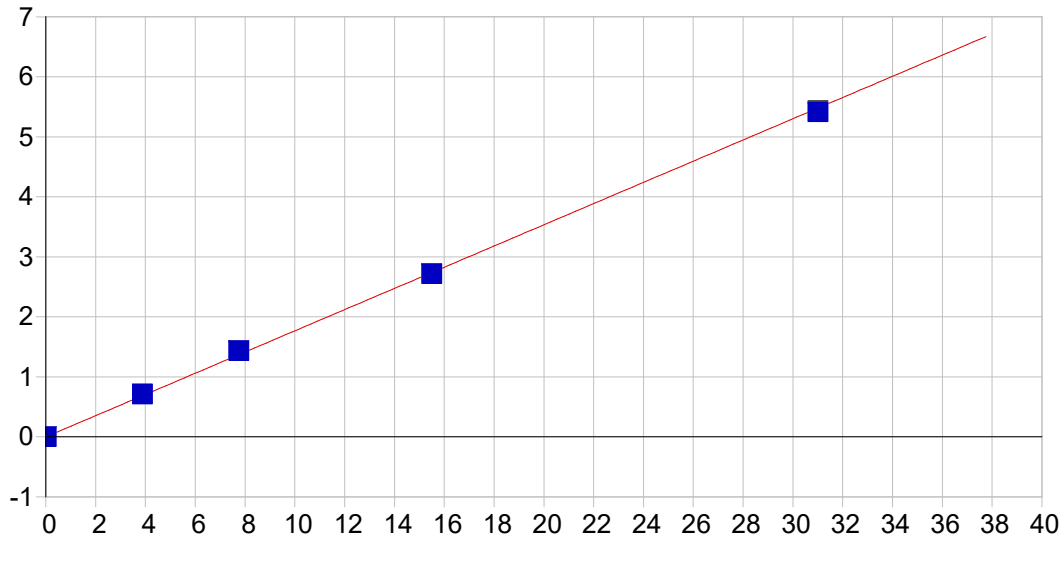
Ca 373.690 { 90}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.008927	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999808	Status:	OK.
Std Error of Est:	0.000610		
Predicted MDL:	0.010719		
Predicted MQL:	0.035731		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00068	.001	.000	.00004	.000	1
S2	62.500	58.971	-3.53	-5.65	.52649	.002	1
S3	125.00	122.49	-2.51	-2.01	1.0936	.002	1
S4	250.00	242.39	-7.61	-3.04	2.1640	.008	1
S5	500.00	508.07	8.07	1.61	4.5358	.032	1
S1	5.0000	4.7379	-.262	-5.24	.04233	.000	1
S6	800.00	805.84	5.84	.729	7.1941	.067	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



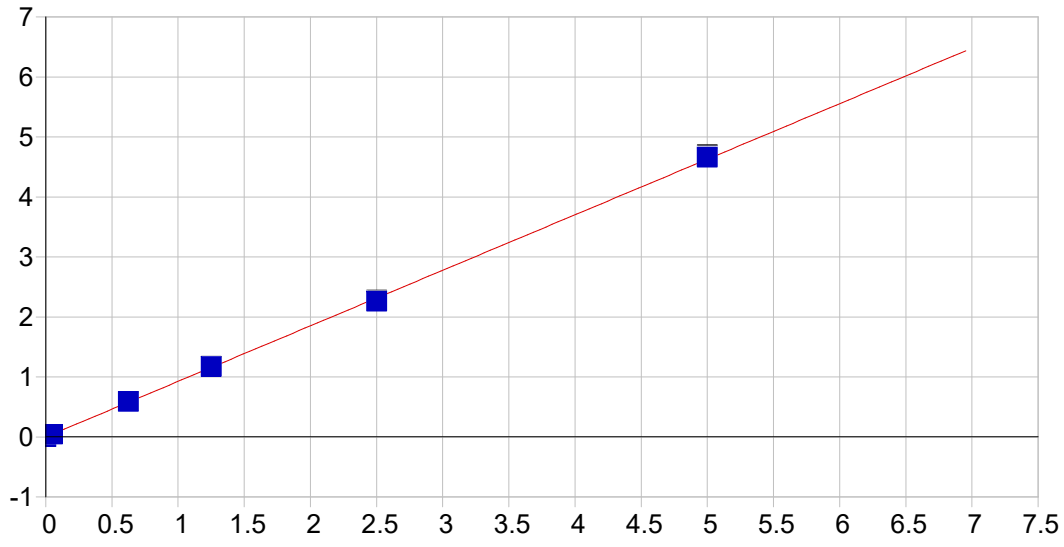
Cr 267.716 {126}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000041	Re-Slope:	1.000000
A1 (Gain):	0.176694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999757	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.000451		
Predicted MQL:	0.001505		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01000	.01101	.001	10.1	.00191	.000	1
S3	7.7500	8.1193	.369	4.77	1.4349	.003	1
S4	15.500	15.361	-.139	-.898	2.7148	.006	1
S5	31.000	30.631	-.369	-1.19	5.4136	.017	1
S2	3.8750	4.0129	.138	3.56	.70919	.001	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



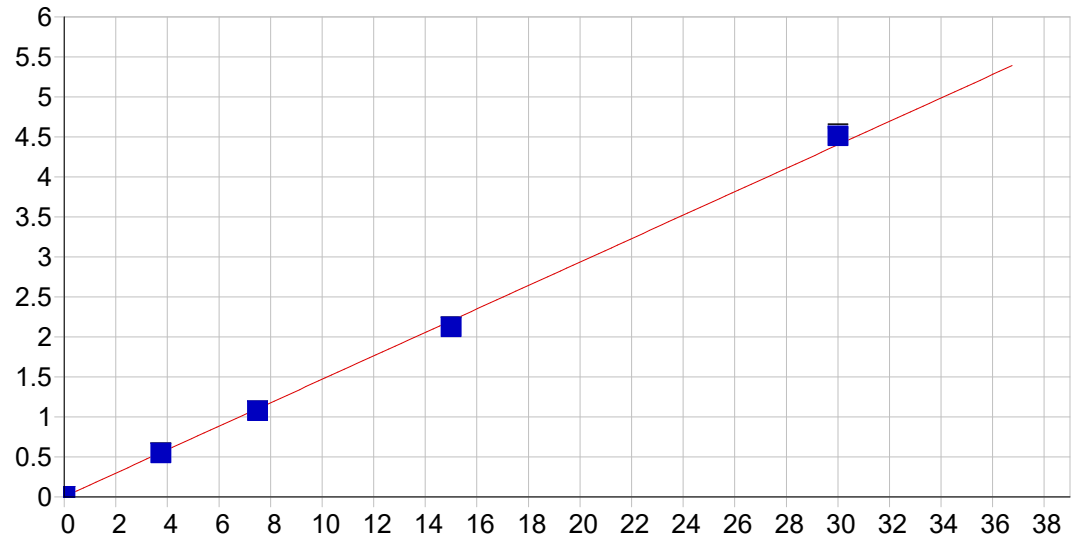
Co 228.616 {448}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000081	Re-Slope:	1.000000
A1 (Gain):	0.925586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000361		
Predicted MDL:	0.000296		
Predicted MQL:	0.000985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00008	.000	1
S1	.05000	.04888	-.001	-2.25	.04533	.000	1
S3	1.2500	1.2649	.015	1.19	1.1751	.002	1
S4	2.5000	2.4405	-.059	-2.38	2.2676	.011	1
S5	5.0000	5.0360	.036	.721	4.6788	.022	1
S2	.62500	.63473	.010	1.56	.58961	.001	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



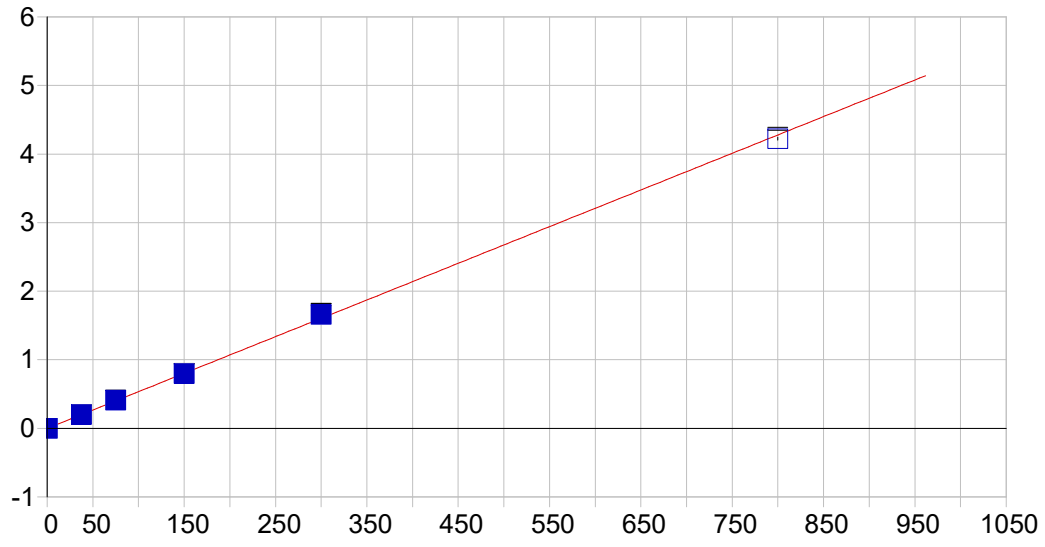
Cu 324.754 {104}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004396	Re-Slope:	1.000000
A1 (Gain):	0.146548	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999617	Status:	OK.
Std Error of Est:	0.000186		
Predicted MDL:	0.002889		
Predicted MQL:	0.009630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00440	.000	1
S1	.02500	.02470	-.000	-1.21	.00802	.000	1
S3	7.5000	7.3249	-.175	-2.33	1.0777	.001	1
S4	15.000	14.458	-.542	-3.62	2.1229	.006	1
S5	30.000	30.756	.756	2.52	4.5112	.023	1
S2	3.7500	3.7116	-.038	-1.02	.54827	.002	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



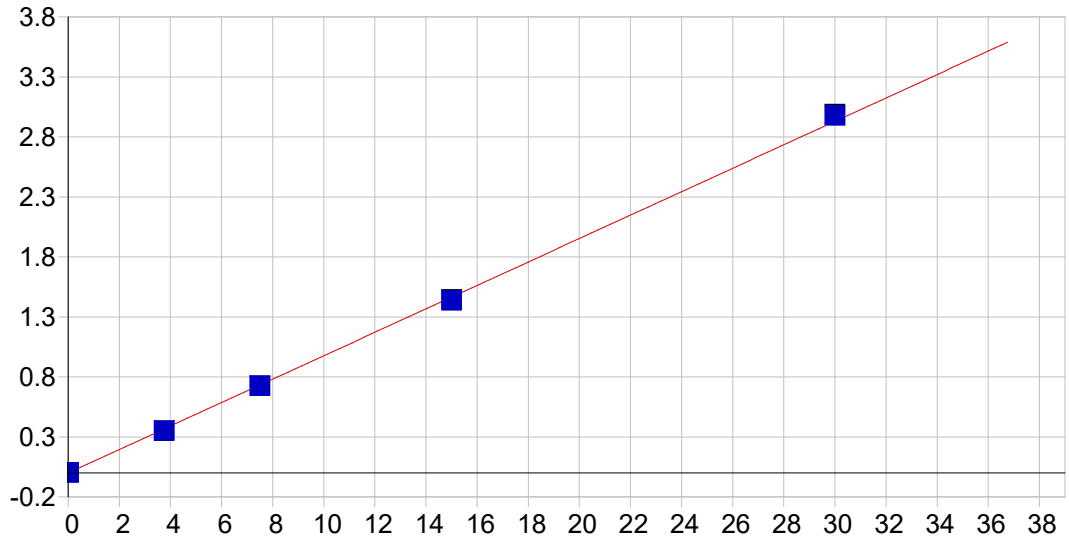
Fe 259.837 {130}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000005	Re-Slope:	1.000000
A1 (Gain):	0.005348	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.007495		
Predicted MQL:	0.024985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.10000	.09590	-.004	-4.10	.00050	.000	1
S3	75.000	76.204	1.20	1.60	.40714	.001	1
S4	150.00	149.14	-.863	-.575	.79679	.003	1
S5	300.00	310.53	10.5	3.51	1.6592	.016	1
S2	37.500	36.995	-.505	-1.35	.19765	.001	1
S6	800.00	789.65	-10.4	-1.29	4.2232	.022	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

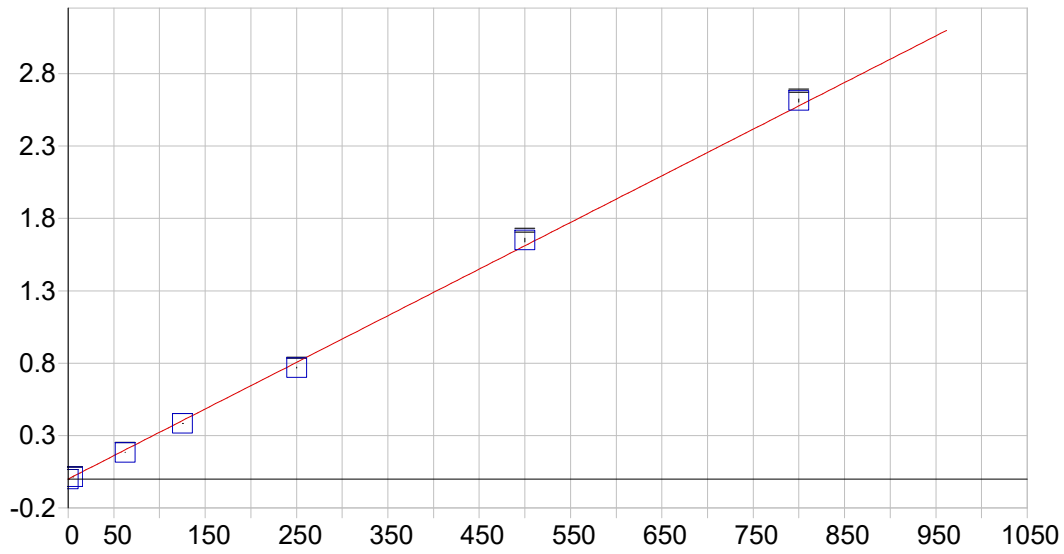


Mn 257.610 {131}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.097646	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.000390		
Predicted MQL:	0.001300		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.01500	.01425	-.001	-4.98	.00142	.000	1
S3	7.5000	7.4260	-.074	-.987	.72464	.001	1
S4	15.000	14.717	-.283	-1.88	1.4361	.006	1
S5	30.000	30.510	.510	1.70	2.9772	.010	1
S2	3.7500	3.5977	-.152	-4.06	.35107	.001	1



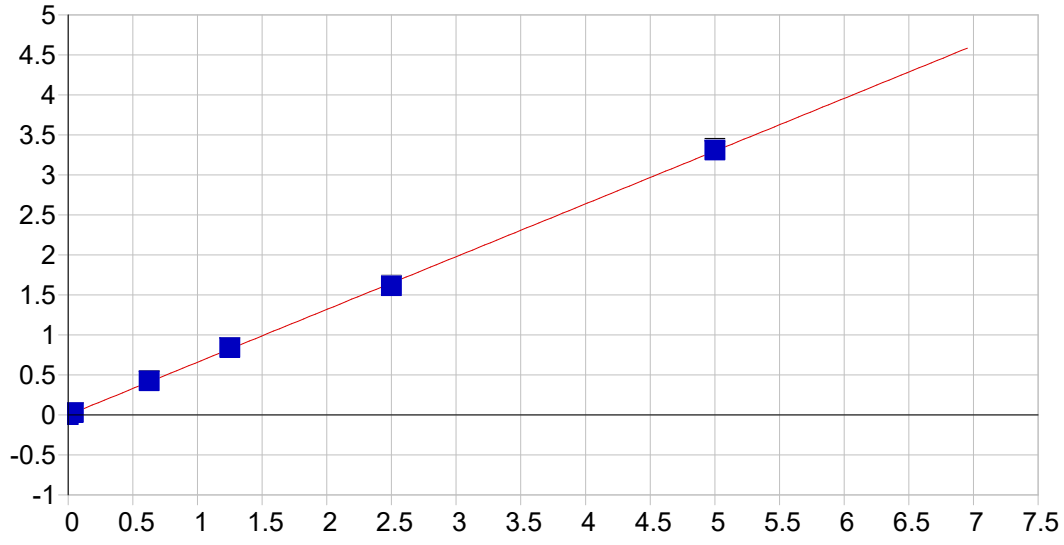
Mg 279.079 {121}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.003222	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999465	Status:	OK.
Std Error of Est:	0.000368		
Predicted MDL:	0.016099		
Predicted MQL:	0.053664		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00141	.001	.000	.00001	.000	1
S2	62.500	56.813	-5.69	-9.10	.18307	.001	1
S3	125.00	119.05	-5.95	-4.76	.38360	.000	1
S4	250.00	238.70	-11.3	-4.52	.76914	.004	1
S5	500.00	512.15	12.1	2.43	1.6503	.013	1
S1	5.0000	4.3146	-.685	-13.7	.01391	.000	1
S6	800.00	811.48	11.5	1.43	2.6147	.012	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



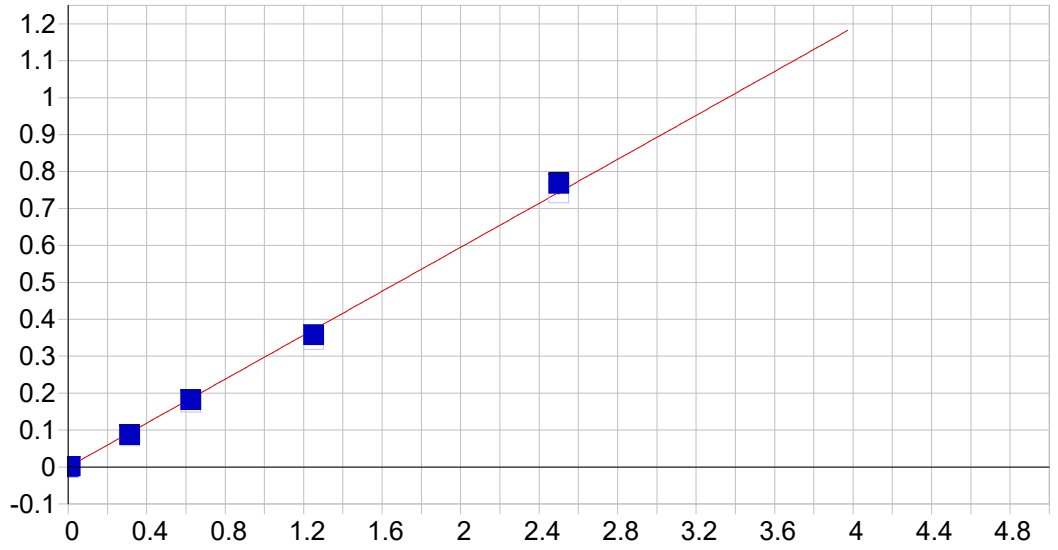
Ni 231.604 {446}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000319	Re-Slope:	1.000000
A1 (Gain):	0.659446	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.000463		
Predicted MQL:	0.001543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00032	.000	1
S1	.04000	.03999	-.000	-.022	.02608	.000	1
S3	1.2500	1.2717	.022	1.73	.84021	.001	1
S4	2.5000	2.4425	-.058	-2.30	1.6142	.008	1
S5	5.0000	5.0175	.018	.351	3.3162	.015	1
S2	.62500	.64330	.018	2.93	.42487	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



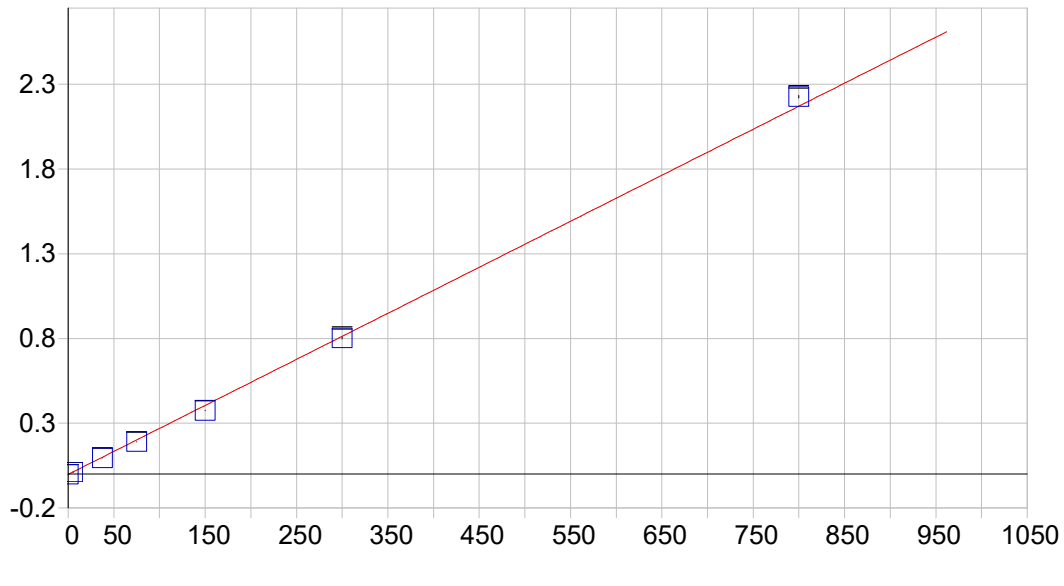
Ag 328.068 {103}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000285	Re-Slope:	1.000000
A1 (Gain):	0.297588	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999328	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.000431		
Predicted MQL:	0.001438		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.01000	.00962	-.000	-3.75	.00256	.000	1
S3	.62500	.61116	-.014	-2.21	.17503	.001	1
S4	1.2500	1.2013	-.049	-3.89	.34411	.000	1
S5	2.5000	2.5810	.081	3.24	.74156	.003	1
S2	.31250	.29442	-.018	-5.79	.08405	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



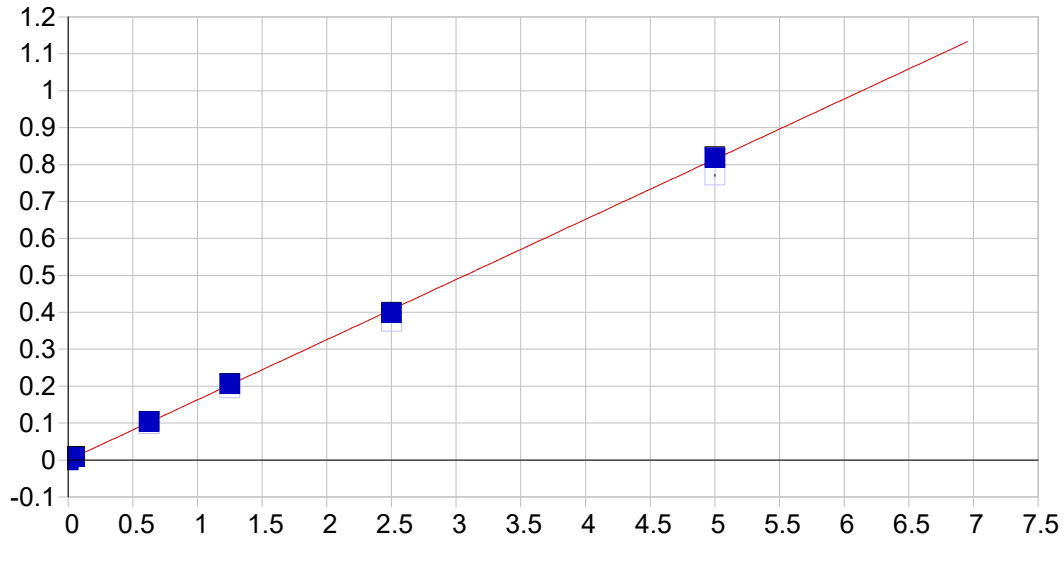
Na 818.326 { 41}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002328	Re-Slope:	1.000000
A1 (Gain):	0.002717	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999371	Status:	OK.
Std Error of Est:	0.000298		
Predicted MDL:	0.460897		
Predicted MQL:	1.536325		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00080	.001	.000	-.00233	.001	1
S2	37.500	36.017	-1.48	-3.95	.09552	.000	1
S3	75.000	70.854	-4.15	-5.53	.19015	.002	1
S4	150.00	138.64	-11.4	-7.57	.37431	.001	1
S5	300.00	296.42	-3.58	-1.19	.80293	.007	1
S1	5.0000	4.9824	-.018	-.351	.01121	.000	1
S6	800.00	820.58	20.6	2.57	2.2269	.008	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



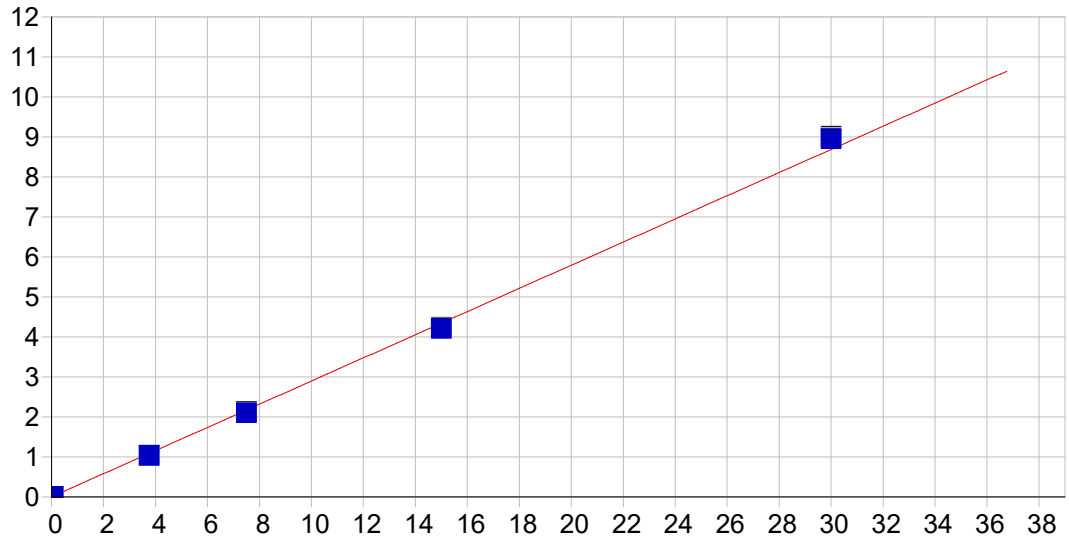
V 292.402 {115}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000082	Re-Slope:	1.000000
A1 (Gain):	0.162948	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999885	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.002254		
Predicted MQL:	0.007513		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00008	.000	1
S1	.05000	.05263	.003	5.26	.00848	.000	1
S3	1.2500	1.2666	.017	1.33	.19440	.001	1
S4	2.5000	2.4451	-.055	-2.19	.37453	.002	1
S5	5.0000	5.0230	.023	.460	.77076	.003	1
S2	.62500	.63747	.012	2.00	.09784	.001	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



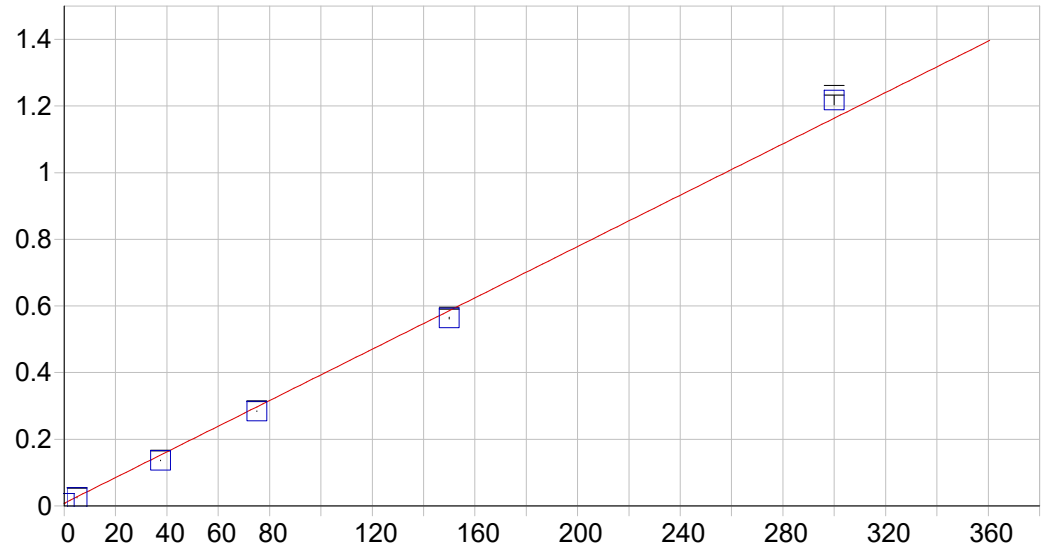
Zn 213.856 {158}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000605	Re-Slope:	1.000000
A1 (Gain):	0.289570	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999456	Status:	OK.
Std Error of Est:	0.000682		
Predicted MDL:	0.001857		
Predicted MQL:	0.006191		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00061	.000	1
S1	.06000	.05663	-.003	-5.61	.01711	.000	1
S3	7.5000	7.2651	-.235	-3.13	2.1125	.014	1
S4	15.000	14.522	-.478	-3.19	4.2220	.016	1
S5	30.000	30.918	.918	3.06	8.9863	.031	1
S2	3.7500	3.5485	-.201	-5.37	1.0322	.008	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



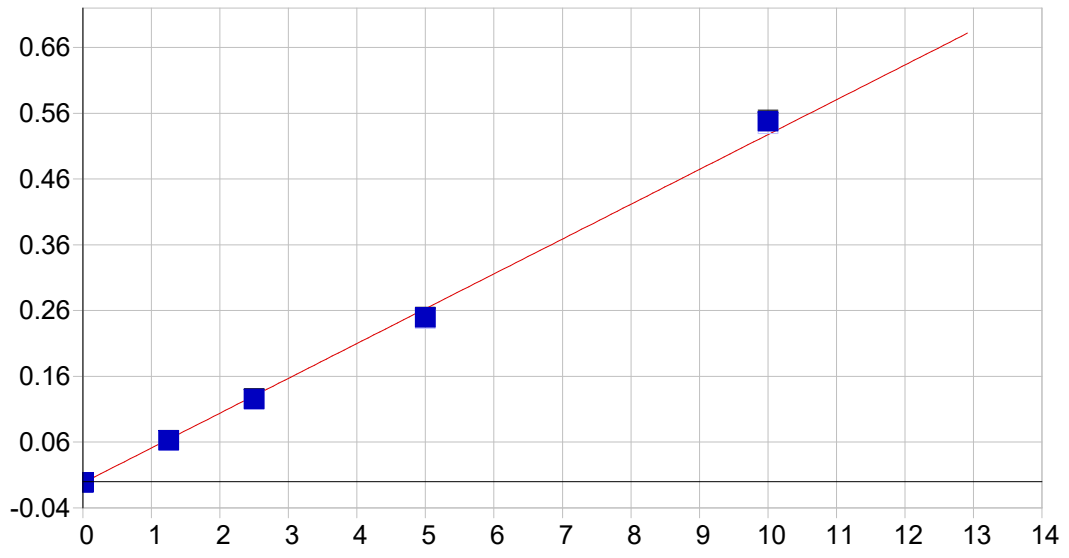
K 769.896 { 44}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008091	Re-Slope:	1.000000
A1 (Gain):	0.003851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998606	Status:	OK.
Std Error of Est:	0.000420		
Predicted MDL:	0.059530		
Predicted MQL:	0.198432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00146	.001	.000	.00810	.000	1
S2	37.500	33.374	-4.13	-11.0	.13663	.001	1
S3	75.000	71.602	-3.40	-4.53	.28386	.001	1
S4	150.00	144.25	-5.75	-3.83	.56368	.003	1
S5	300.00	313.99	14.0	4.66	1.2174	.015	1
S1	5.0000	4.2772	-.723	-14.5	.02456	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



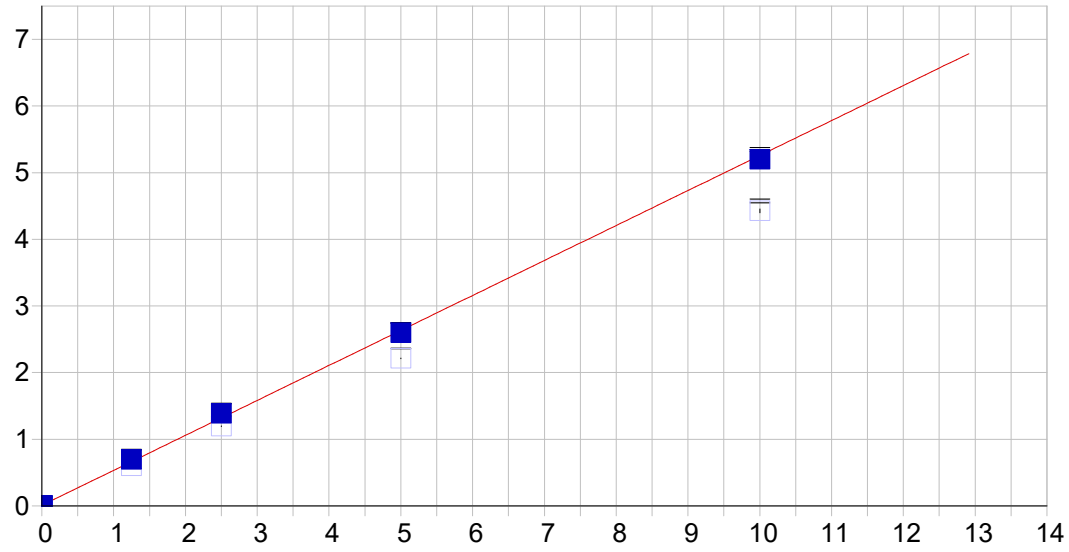
P 177.495 {490}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001840	Re-Slope:	1.000000
A1 (Gain):	0.052943	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999136	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.002412		
Predicted MQL:	0.008041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00184	.000	1
S1	.01000	.01060	.001	5.96	-.00128	.000	1
S3	2.5000	2.4064	-.094	-3.74	.12462	.000	1
S4	5.0000	4.7445	-.256	-5.11	.24746	.001	1
S5	10.000	10.381	.381	3.81	.54399	.002	1
S2	1.2500	1.2173	-.033	-2.61	.06214	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



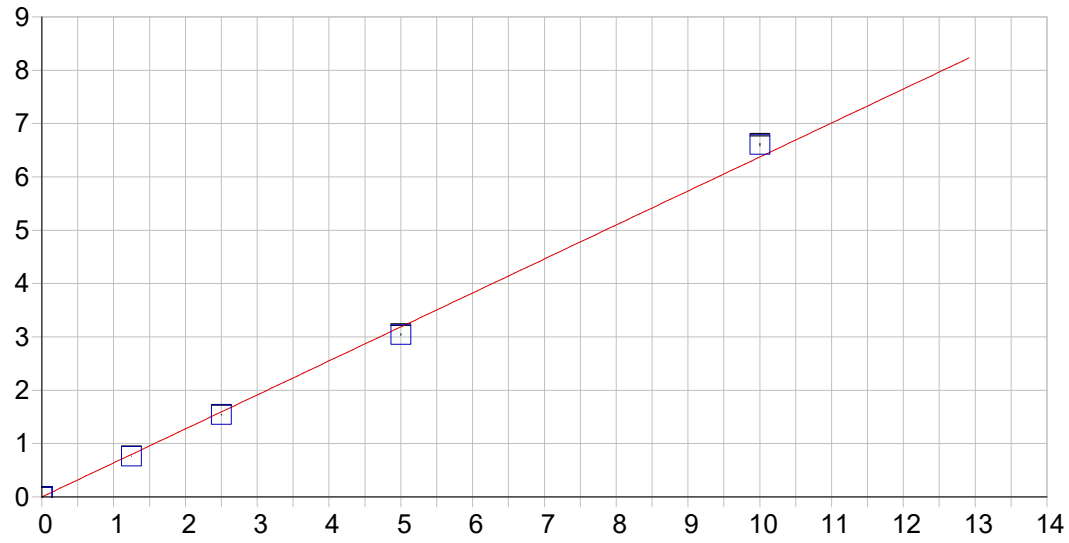
B 249.678 {135}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008330	Re-Slope:	1.000000
A1 (Gain):	0.524895	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999031	Status:	OK.
Std Error of Est:	0.000331		
Predicted MDL:	0.000782		
Predicted MQL:	0.002607		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00834	.000	1
S1	.01000	-.00227	-.012	-123.	.00687	.000	1
S3	2.5000	2.6288	.129	5.15	1.1951	.005	1
S4	5.0000	4.9363	-.064	-1.27	2.2133	.004	1
S5	10.000	9.8899	-.110	-1.10	4.4274	.028	1
S2	1.2500	1.3087	.059	4.69	.59874	.005	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

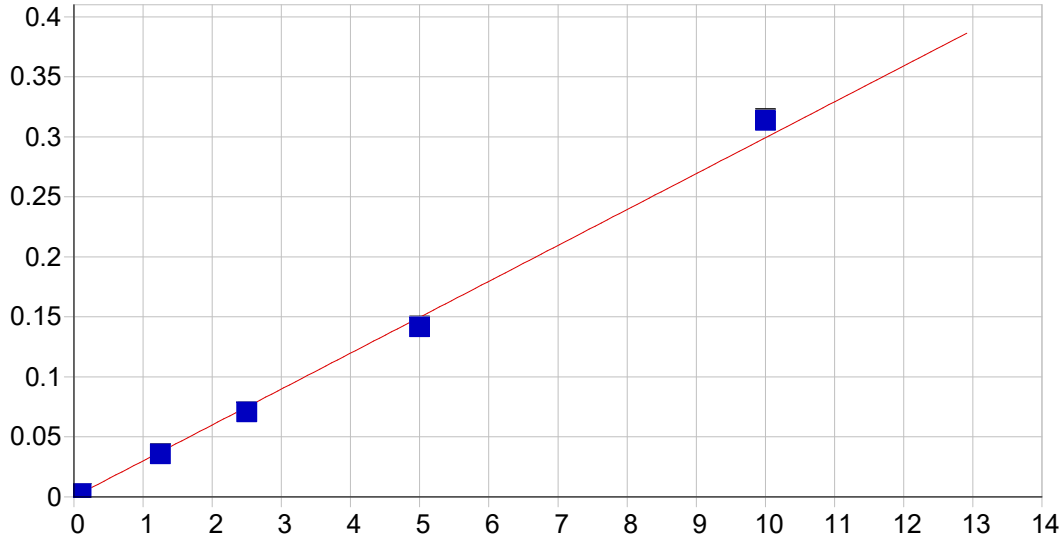


Mo 202.030 {467}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000464	Re-Slope:	1.000000
A1 (Gain):	0.637279	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999249	Status:	OK.
Std Error of Est:	0.000414		
Predicted MDL:	0.000367		
Predicted MQL:	0.001225		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00046	.000	1
S1	.01000	.00935	-.001	-6.51	.00642	.000	1
S3	2.5000	2.4176	-.082	-3.30	1.5412	.004	1
S4	5.0000	4.7750	-.225	-4.50	3.0435	.015	1
S5	10.000	10.361	.361	3.61	6.6034	.024	1
S2	1.2500	1.1968	-.053	-4.25	.76318	.002	1



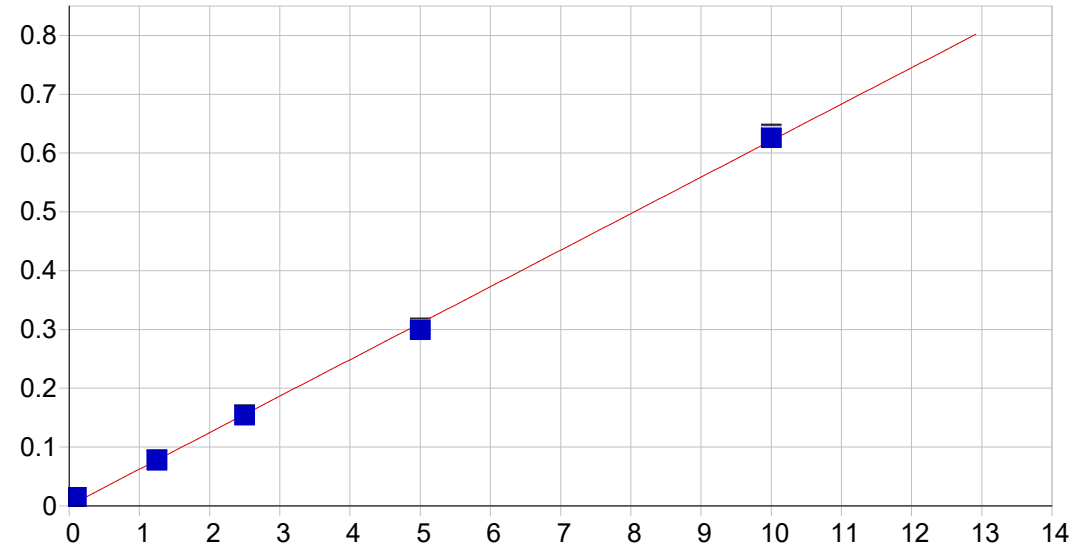
S 182.034 {485}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000125	Re-Slope:	1.000000
A1 (Gain):	0.029906	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998680	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.004263		
Predicted MQL:	0.014211		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00013	.000	1
S1	.10000	.08672	-.013	-13.3	.00272	.000	1
S3	2.5000	2.3603	-.140	-5.59	.07081	.000	1
S4	5.0000	4.7328	-.267	-5.34	.14185	.000	1
S5	10.000	10.481	.481	4.81	.31396	.001	1
S2	1.2500	1.1891	-.061	-4.88	.03573	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

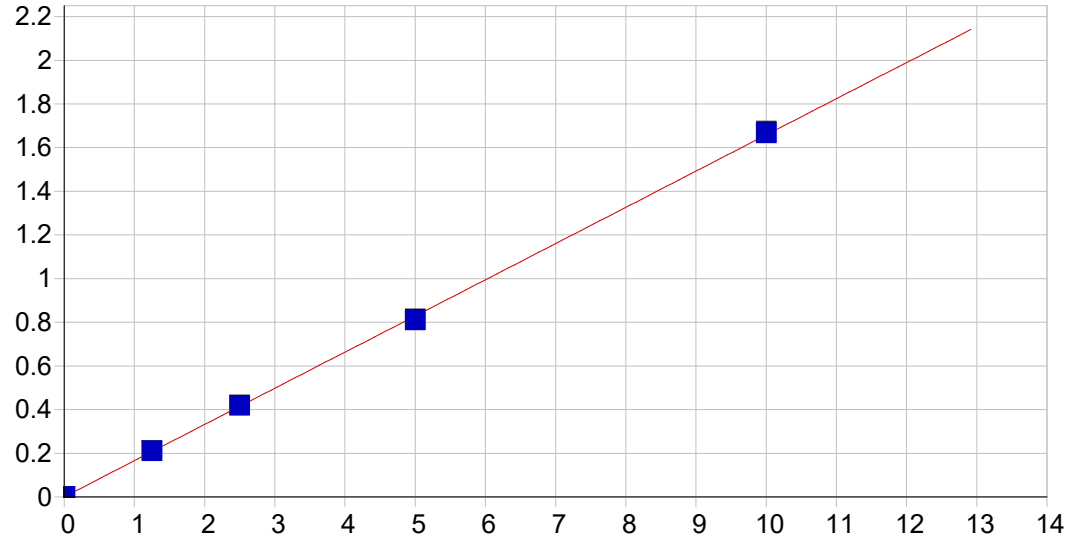


Si 251.611 {134}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000430	Re-Slope:	1.000000
A1 (Gain):	0.062062	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994843	Status:	OK.
Std Error of Est:	0.000337		
Predicted MDL:	0.003676		
Predicted MQL:	0.012252		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00013	-.000	.000	.00042	.000	1
S1	.10000	.23752	.138	138.	.01517	.000	1
S3	2.5000	2.4749	-.025	-1.00	.15449	.001	1
S4	5.0000	4.8150	-.185	-3.70	.30019	.002	1
S5	10.000	10.081	.081	.806	.62791	.004	1
S2	1.2500	1.2424	-.008	-.609	.07777	.001	1



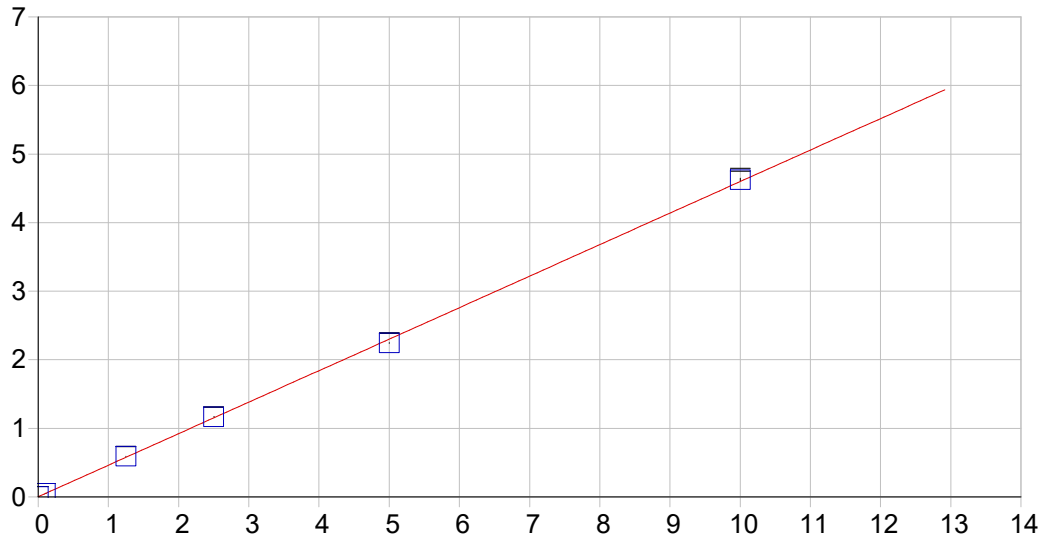
Sn 189.989 {478}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.165786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.000892		
Predicted MQL:	0.002974		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.00700	.00687	-.000	-1.91	.00121	.000	1
S3	2.5000	2.5302	.030	1.21	.41831	.001	1
S4	5.0000	4.8901	-.110	-2.20	.80826	.004	1
S5	10.000	10.062	.062	.617	1.6631	.007	1
S2	1.2500	1.2681	.018	1.45	.20971	.000	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

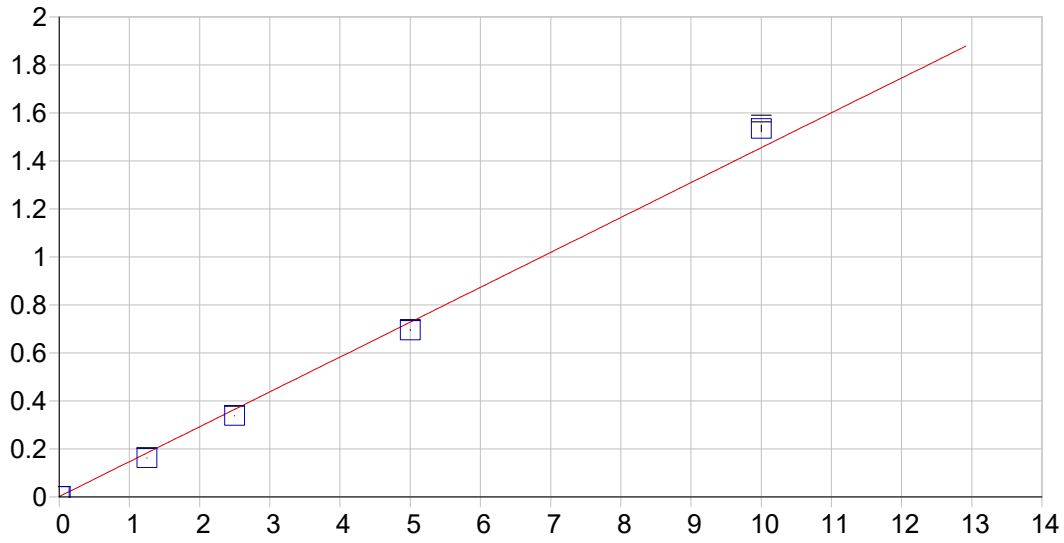


Ti 336.121 {100}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002861	Re-Slope:	1.000000
A1 (Gain):	0.459536	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000386		
Predicted MDL:	0.001064		
Predicted MQL:	0.003545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00286	.000	1
S1	.10000	.10467	.005	4.67	.05096	.000	1
S3	2.5000	2.5295	.029	1.18	1.1652	.001	1
S4	5.0000	4.8759	-.124	-2.48	2.2435	.005	1
S5	10.000	10.060	.060	.603	4.6259	.021	1
S2	1.2500	1.2796	.030	2.37	.59088	.002	1



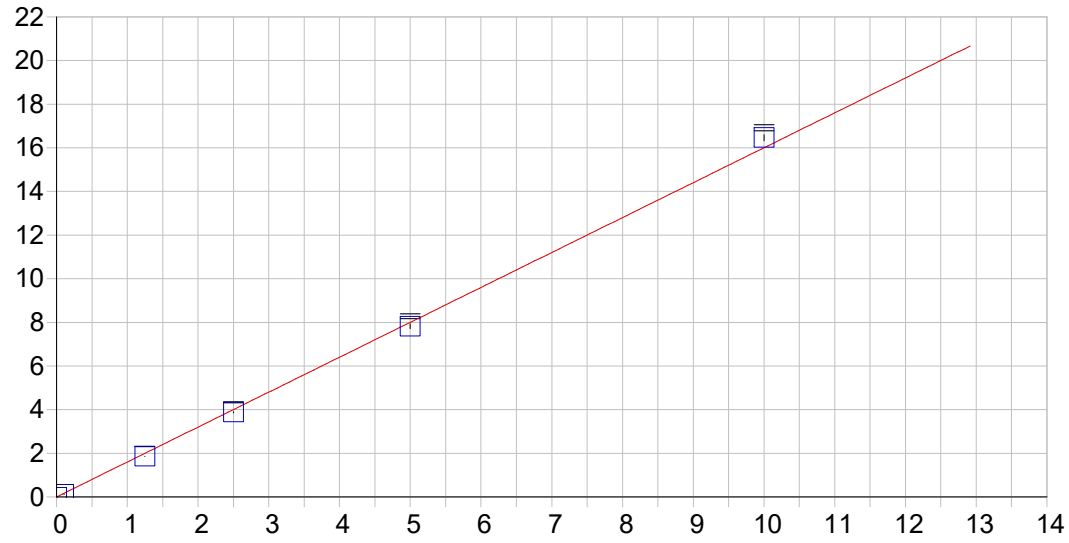
Li 670.784 { 50}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001420	Re-Slope:	1.000000
A1 (Gain):	0.145332	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998111	Status:	OK.
Std Error of Est:	0.000184		
Predicted MDL:	0.001581		
Predicted MQL:	0.005271		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00142	.000	1
S5	10.000	10.554	.554	5.54	1.5353	.014	1
S4	5.0000	4.7745	-.225	-4.51	.69531	.003	1
S3	2.5000	2.3168	-.183	-7.33	.33812	.001	1
S1	.01500	.01337	-.002	-10.9	.00336	.000	1
S2	1.2500	1.1060	-.144	-11.5	.16216	.001	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4



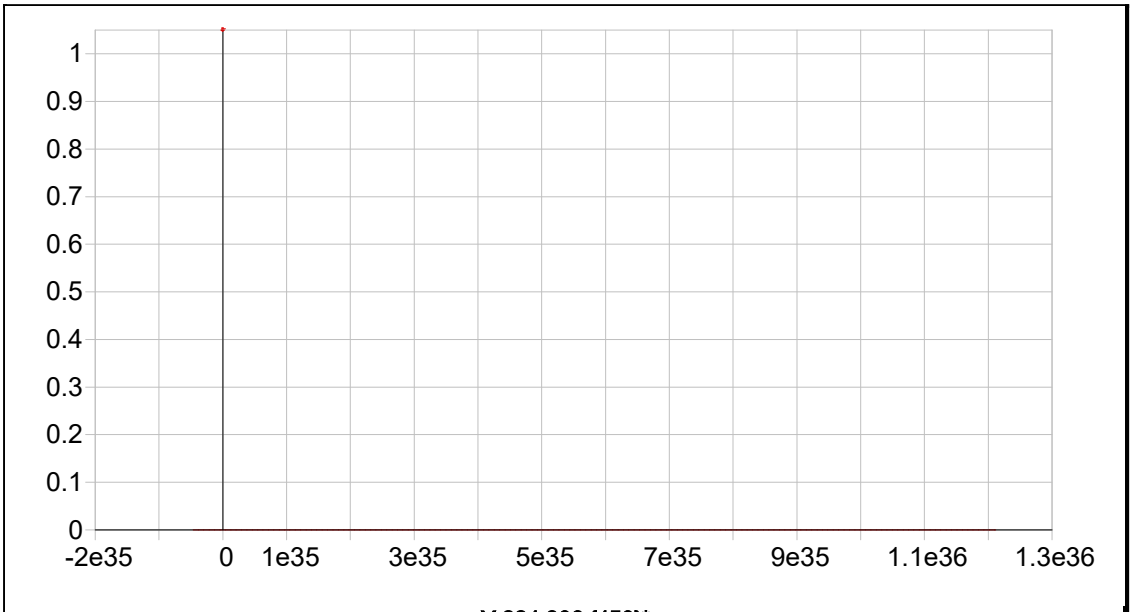
Sr 407.771 { 83}

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	1.600215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999425	Status:	OK.
Std Error of Est:	0.002885		
Predicted MDL:	0.000077		
Predicted MQL:	0.000256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00007	.000	1
S1	.10000	.08369	-.016	-16.3	.13395	.001	1
S3	2.5000	2.4256	-.074	-2.98	3.8815	.026	1
S4	5.0000	4.8897	-.110	-2.21	7.8246	.108	1
S5	10.000	10.288	.288	2.88	16.463	.143	1
S2	1.2500	1.1629	-.087	-6.97	1.8609	.008	1

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

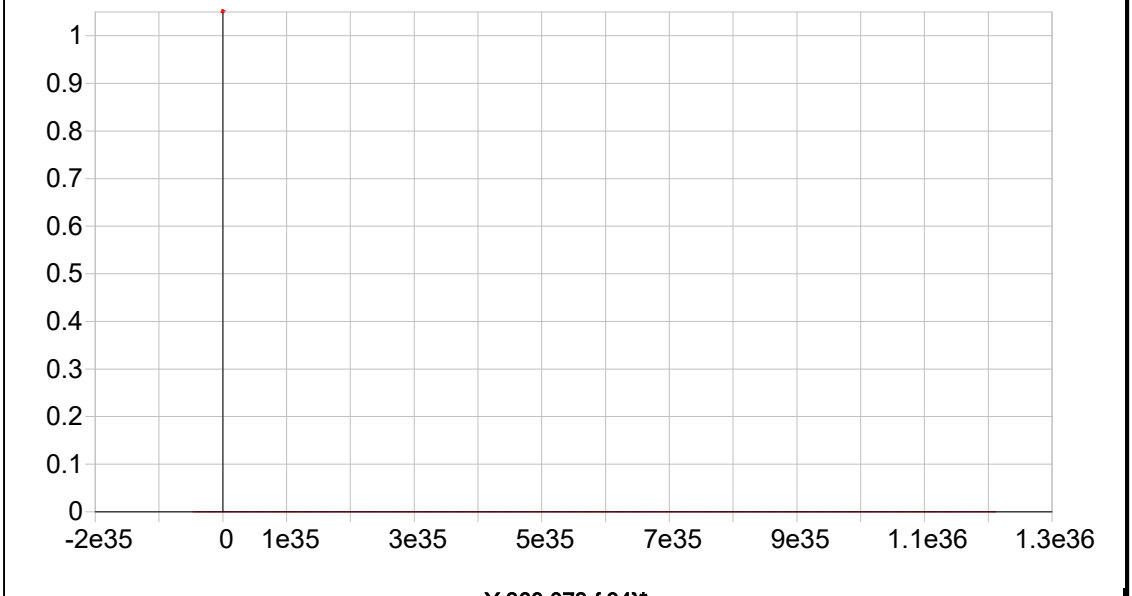


Y 224.306 {450}*

Date of Fit:	1/24/2025 17:06:08	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

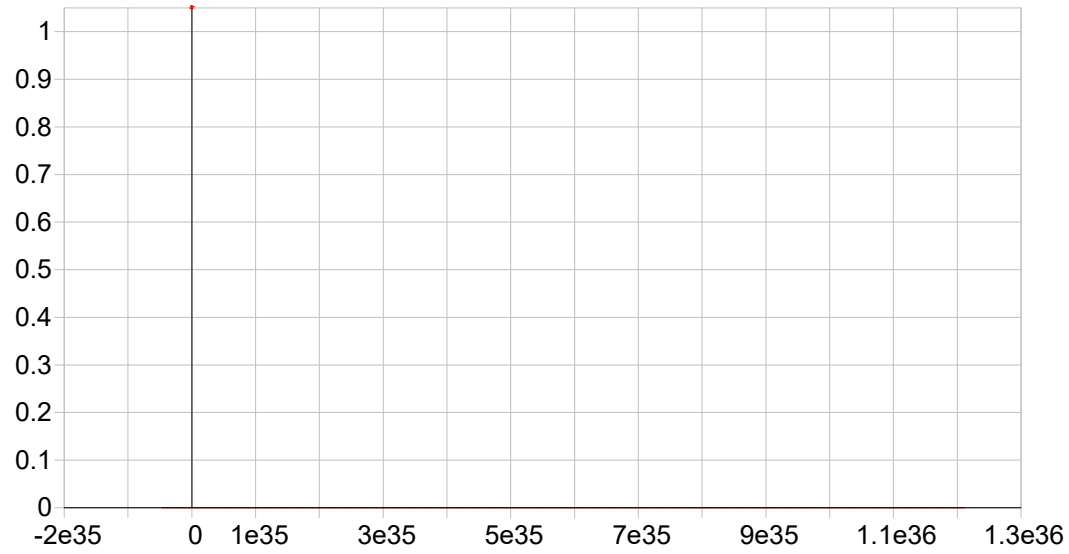
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

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

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

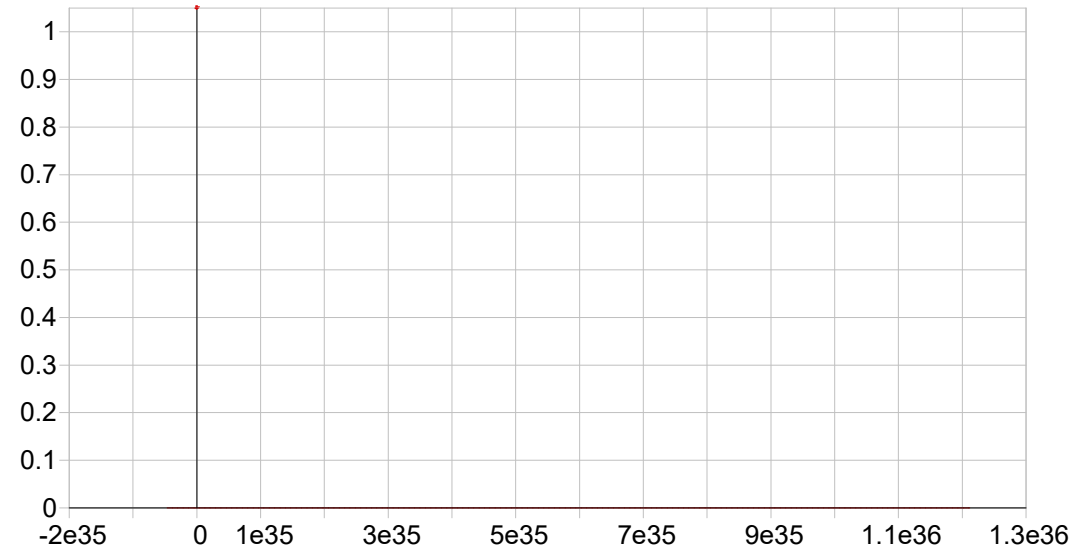


Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

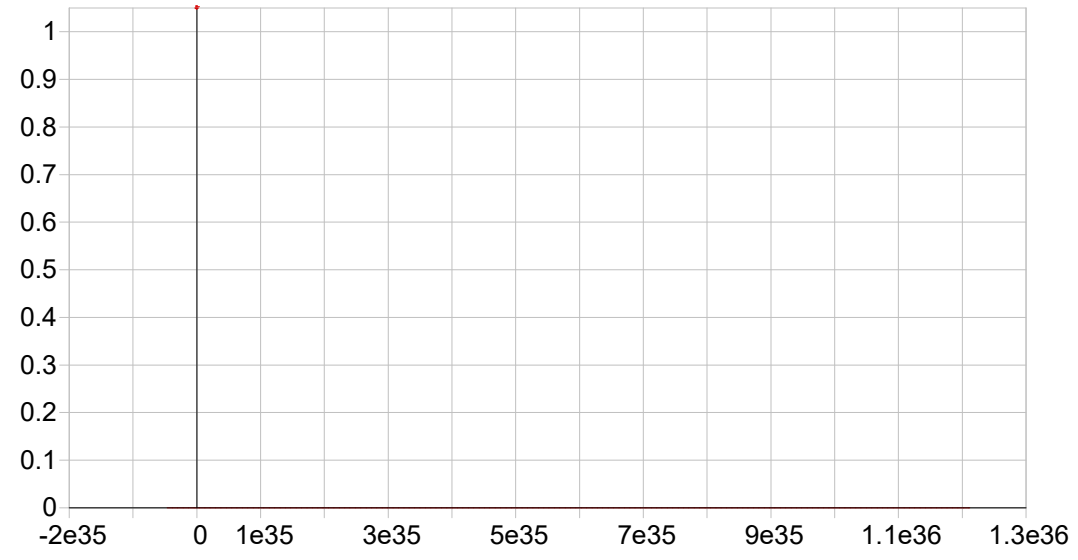
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/24/2025 11:36:24 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00012**	**.00025**	**.00002**	**.00046**	**.00025**	**.00001**	**.01042**	**.00000**
Stddev	.00008	.00017	.00005	.00013	.00011	.00010	.00014	.00025
%RSD	68.509	68.809	239.56	28.469	44.698	1395.7	1.3380	7129.6
#1	-.00018	.00009	.00002	.00043	.00015	-.00008	.01043	.00030
#2	-.00016	.00023	.00007	.00060	.00037	.00011	.01028	-.00014
#3	-.00003	.00043	-.00003	.00035	.00021	-.00001	.01056	-.00015

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00002**	**.00004**	**-.00004**	**-.00008**	**.00440**	**-.00001**	**.00003**	**.00001**
Stddev	.00015	.00005	.00003	.00017	.00024	.00002	.00004	.00002
%RSD	799.33	110.79	83.935	216.38	5.4839	343.85	129.81	204.18
#1	.00012	.00001	-.00000	-.00002	.00467	-.00001	.00006	.00000
#2	-.00018	.00002	-.00006	-.00028	.00429	.00002	.00004	.00004
#3	-.00000	.00009	-.00006	.00005	.00422	-.00002	-.00001	-.00001

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00032**	**-.00028**	**-.00233**	**-.00008**	**.00061**	**.00810**	**-.00184**	**.00834**
Stddev	.00033	.00010	.00098	.00019	.00047	.00013	.00004	.00016
%RSD	102.81	35.879	42.164	226.08	77.504	1.6272	2.0434	1.9753
#1	-.00041	-.00021	-.00139	-.00024	.00028	.00798	-.00180	.00832
#2	-.00059	-.00040	-.00334	-.00013	.00115	.00824	-.00184	.00851
#3	.00005	-.00024	-.00225	.00012	.00039	.00807	-.00188	.00818

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00046**	**.00013**	**.00042**	**.00012**	**.00286**	**.00142**	**.00007**
Stddev	.00015	.00006	.00013	.00009	.00032	.00011	.00006
%RSD	32.264	44.565	31.486	77.582	11.027	7.7941	76.093
#1	.00054	.00010	.00033	.00003	.00321	.00136	.00006
#2	.00029	.00019	.00036	.00022	.00275	.00136	.00003
#3	.00056	.00009	.00057	.00011	.00261	.00155	.00014

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/24/2025 11:36:24 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3257.9	66907.	9712.2	2362.3	3947.1
Stddev	1.5	59.	60.8	8.6	2.9
%RSD	.04703	.08886	.62602	.36263	.07375
#1	3258.4	66847.	9691.0	2360.7	3945.1
#2	3259.1	66966.	9780.7	2371.6	3950.4
#3	3256.2	66908.	9664.7	2354.7	3945.7

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/24/2025 11:40:39 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00069**	**.00220**	**.00222**	**.00271**	**.00903**	**.00234**	**.08509**	**.02697**
Stddev	.00004	.00008	.00012	.00006	.00007	.00011	.00047	.00073
%RSD	5.8270	3.7527	5.5418	2.0291	.82921	4.7598	.54753	2.6926
#1	.00066	.00226	.00208	.00275	.00912	.00236	.08537	.02626
#2	.00073	.00223	.00231	.00265	.00900	.00245	.08536	.02771
#3	.00068	.00210	.00228	.00274	.00898	.00222	.08455	.02694

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01469**	**.04233**	**.00191**	**.04533**	**.00802**	**.00050**	**.00142**	**.01391**
Stddev	.00008	.00017	.00009	.00005	.00015	.00002	.00002	.00006
%RSD	.51172	.41155	4.5339	.12103	1.9025	3.2508	1.7446	.40996
#1	.01476	.04250	.00194	.04530	.00808	.00052	.00144	.01395
#2	.01471	.04235	.00197	.04540	.00784	.00049	.00143	.01393
#3	.01461	.04215	.00181	.04531	.00812	.00049	.00139	.01385

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02608**	**.00256**	**.01121**	**.00848**	**.01711**	**.02456**	**-.00128**	**.00687**
Stddev	.00012	.00005	.00022	.00029	.00015	.00018	.00008	.00032
%RSD	.45369	2.0611	1.9616	3.4703	.87110	.72685	5.9867	4.6480
#1	.02621	.00261	.01107	.00814	.01725	.02442	-.00122	.00661
#2	.02599	.00251	.01146	.00866	.01695	.02476	-.00126	.00722
#3	.02605	.00256	.01109	.00863	.01712	.02451	-.00137	.00678

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00642**	**.00272**	**.01517**	**.00121**	**.05096**	**.00336**	**.13395**
Stddev	.00015	.00009	.00000	.00000	.00038	.00008	.00080
%RSD	2.3023	3.1749	.02588	.39133	.74301	2.4816	.59637
#1	.00651	.00263	.01517	.00120	.05135	.00335	.13458
#2	.00625	.00273	.01518	.00121	.05060	.00345	.13422
#3	.00650	.00280	.01517	.00121	.05093	.00329	.13305

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/24/2025 11:40:39 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3369.5	67749.	9722.3	2386.0	4100.4
Stddev	2.0	226.	58.5	17.1	1.3
%RSD	.05921	.33314	.60174	.71665	.03125
#1	3367.3	67833.	9760.1	2390.0	4099.0
#2	3370.1	67494.	9654.9	2367.3	4100.8
#3	3371.1	67921.	9751.8	2400.8	4101.5

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/24/2025 11:44:51 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07755**	**.10027**	**1.5827**	**.08666**	**.19572**	**.43093**	**.97055**	**.64870**
Stddev	.00051	.00074	.0026	.00027	.00088	.00197	.00363	.00466
%RSD	.65941	.73459	.16503	.30959	.44856	.45732	.37418	.71839
#1	.07734	.10089	1.5809	.08697	.19552	.42915	.96762	.65202
#2	.07717	.09946	1.5816	.08649	.19496	.43305	.97461	.64337
#3	.07813	.10047	1.5857	.08651	.19668	.43060	.96941	.65070

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8853**	**.52649**	**.70919**	**.58961**	**.54827**	**.19765**	**.35107**	**.18307**
Stddev	.0051	.00223	.00092	.00134	.00245	.00082	.00130	.00065
%RSD	.26959	.42419	.12914	.22795	.44669	.41394	.36903	.35607
#1	1.8884	.52519	.70963	.58908	.55019	.19683	.35063	.18271
#2	1.8794	.52907	.70813	.58862	.54551	.19846	.35253	.18382
#3	1.8881	.52522	.70980	.59114	.54911	.19766	.35006	.18267

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42487**	**.08405**	**.09552**	**.09784**	**1.0322**	**.13663**	**.06214**	**.59874**
Stddev	.00021	.00002	.00046	.00083	.0079	.00080	.00014	.00469
%RSD	.04866	.02090	.48084	.84631	.76635	.58306	.21910	.78393
#1	.42492	.08403	.09543	.09818	1.0342	.13573	.06226	.60164
#2	.42464	.08406	.09510	.09689	1.0390	.13725	.06199	.59332
#3	.42504	.08407	.09601	.09844	1.0235	.13691	.06216	.60125

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.76318**	**.03573**	**.07777**	**.20971**	**.59088**	**.16216**	**1.8609**
Stddev	.00197	.00013	.00058	.00009	.00202	.00074	.0076
%RSD	.25872	.37161	.74548	.04420	.34271	.45706	.40627
#1	.76215	.03585	.07762	.20963	.59055	.16155	1.8680
#2	.76193	.03559	.07728	.20968	.58905	.16298	1.8530
#3	.76546	.03575	.07841	.20981	.59305	.16194	1.8616

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/24/2025 11:44:51 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.2	64764.	9667.8	2264.3	3581.5
Stddev	7.3	32.	44.4	3.3	4.7
%RSD	.23979	.04952	.45906	.14480	.13204
#1	3062.8	64796.	9642.8	2260.9	3579.5
#2	3067.6	64732.	9719.0	2264.5	3587.0
#3	3053.2	64763.	9641.5	2267.4	3578.2

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/24/2025 11:48:56 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.15463**	**.19448**	**3.1534**	**.17036**	**.39667**	**.90825**	**2.0128**	**1.3075**
Stddev	.00046	.00172	.0023	.00037	.00113	.00267	.0069	.0047
%RSD	.30048	.88646	.07353	.21905	.28577	.29374	.34267	.36292
#1	.15446	.19301	3.1529	.17018	.39547	.90891	2.0161	1.3028
#2	.15426	.19404	3.1514	.17012	.39772	.90532	2.0049	1.3123
#3	.15515	.19638	3.1559	.17079	.39683	.91053	2.0174	1.3075

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.7378**	**1.0936**	**1.4349**	**1.1751**	**1.0777**	**.40714**	**.72464**	**.38360**
Stddev	.0085	.0015	.0027	.0015	.0008	.00055	.00092	.00022
%RSD	.22652	.14128	.18938	.13027	.07837	.13400	.12754	.05776
#1	3.7331	1.0946	1.4321	1.1740	1.0776	.40715	.72510	.38343
#2	3.7327	1.0918	1.4375	1.1744	1.0770	.40659	.72358	.38351
#3	3.7476	1.0944	1.4352	1.1768	1.0787	.40768	.72525	.38385

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.84021**	**.17503**	**.19015**	**.19440**	**2.1125**	**.28386**	**.12462**	**1.1951**
Stddev	.00057	.00060	.00157	.00068	.0143	.00089	.00014	.0051
%RSD	.06750	.34374	.82774	.35091	.67800	.31459	.11047	.42541
#1	.83956	.17443	.19129	.19400	2.1179	.28460	.12453	1.1899
#2	.84053	.17563	.18836	.19401	2.0963	.28287	.12455	1.2001
#3	.84055	.17504	.19081	.19518	2.1234	.28412	.12478	1.1954

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5412**	**.07081**	**.15449**	**.41831**	**1.1652**	**.33812**	**3.8815**
Stddev	.0039	.00019	.00051	.00088	.0009	.00111	.0263
%RSD	.25184	.26515	.32904	.20986	.07753	.32823	.67886
#1	1.5378	.07063	.15391	.41751	1.1642	.33929	3.8906
#2	1.5403	.07079	.15474	.41818	1.1659	.33708	3.9020
#3	1.5454	.07100	.15482	.41925	1.1656	.33801	3.8517

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/24/2025 11:48:56 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3035.2	61460.	9580.2	2172.7	3547.2
Stddev	3.0	122.	36.6	5.8	2.4
%RSD	.09780	.19843	.38237	.26690	.06793
#1	3038.5	61555.	9610.6	2170.8	3547.2
#2	3034.4	61322.	9539.6	2179.2	3549.6
#3	3032.8	61502.	9590.5	2168.1	3544.7

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/24/2025 11:52:54 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31151	.36979	6.1058	.33992	.80003	1.8389	3.9800	2.4543
Stddev	.00201	.00150	.0323	.00163	.00351	.0074	.0107	.0038
%RSD	.64574	.40652	.52866	.47912	.43836	.40291	.26803	.15529
#1	.31032	.36940	6.0898	.33881	.79850	1.8306	3.9906	2.4505
#2	.31038	.36851	6.0846	.33917	.79754	1.8417	3.9693	2.4581
#3	.31383	.37144	6.1429	.34179	.80404	1.8446	3.9800	2.4544

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.1758	2.1640	2.7148	2.2676	2.1229	.79679	1.4361	.76914
Stddev	.0404	.0082	.0063	.0111	.0059	.00288	.0060	.00370
%RSD	.56309	.37814	.23287	.48711	.27744	.36177	.41840	.48043
#1	7.1683	2.1546	2.7092	2.2624	2.1190	.79353	1.4294	.76501
#2	7.1397	2.1674	2.7135	2.2601	2.1297	.79787	1.4378	.77027
#3	7.2194	2.1699	2.7217	2.2803	2.1201	.79898	1.4411	.77214

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6142	.34411	.37431	.37453	4.2220	.56368	.24746	2.2133
Stddev	.0077	.00034	.00102	.00162	.0158	.00264	.00070	.0042
%RSD	.47959	.09938	.27340	.43136	.37493	.46790	.28311	.19032
#1	1.6095	.34384	.37348	.37268	4.2177	.56066	.24753	2.2111
#2	1.6100	.34400	.37545	.37569	4.2395	.56484	.24672	2.2182
#3	1.6232	.34449	.37399	.37521	4.2087	.56554	.24811	2.2106

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0435	.14185	.30019	.80826	2.2435	.69531	7.8246
Stddev	.0145	.00038	.00212	.00352	.0054	.00257	.1082
%RSD	.47732	.26791	.70689	.43511	.23877	.36937	1.3826
#1	3.0377	.14170	.29782	.80677	2.2378	.69250	7.7379
#2	3.0327	.14158	.30193	.80574	2.2483	.69590	7.7900
#3	3.0600	.14229	.30081	.81228	2.2445	.69753	7.9458

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/24/2025 11:52:54 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2801.7	59191.	9538.7	2065.0	3310.2
Stddev	12.2	47.	14.6	9.1	13.3
%RSD	.43674	.08022	.15294	.44118	.40087
#1	2804.9	59236.	9531.1	2058.4	3317.0
#2	2812.0	59197.	9529.6	2061.1	3318.6
#3	2788.1	59141.	9555.6	2075.4	3294.9

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/24/2025 11:56:56 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.71031**	**.75220**	**12.637**	**.76569**	**1.8048**	**3.9487**	**8.5814**	**5.0339**
Stddev	.00363	.00845	.055	.00267	.0098	.0293	.1257	.0376
%RSD	.51045	1.1233	.43672	.34922	.54194	.74299	1.4647	.74638
#1	.71344	.74247	12.676	.76852	1.8138	3.9788	8.5435	5.0260
#2	.71116	.75770	12.662	.76532	1.8062	3.9473	8.4790	5.0008
#3	.70634	.75644	12.574	.76321	1.7944	3.9202	8.7217	5.0747

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.650**	**4.5358**	**5.4136**	**4.6788**	**4.5112**	**1.6592**	**2.9772**	**1.6503**
Stddev	.044	.0322	.0175	.0218	.0229	.0162	.0096	.0132
%RSD	.30223	.71036	.32248	.46669	.50806	.97674	.32233	.79702
#1	14.658	4.5725	5.4321	4.6967	4.5251	1.6740	2.9791	1.6622
#2	14.690	4.5226	5.3974	4.6852	4.4848	1.6615	2.9668	1.6524
#3	14.602	4.5123	5.4114	4.6545	4.5238	1.6419	2.9857	1.6362

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3162**	**.74156**	**.80293**	**.77076**	**8.9863**	**1.2174**	**.54399**	**4.4274**
Stddev	.0154	.00277	.00655	.00251	.0306	.0145	.00172	.0276
%RSD	.46397	.37301	.81575	.32605	.34026	1.1941	.31572	.62388
#1	3.3286	.74473	.80140	.77273	8.9830	1.2295	.54236	4.4226
#2	3.3210	.74031	.79728	.76793	9.0184	1.2214	.54579	4.4025
#3	3.2990	.73964	.81011	.77162	8.9576	1.2013	.54382	4.4571

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.6034**	**.31396**	**.62791**	**1.6631**	**4.6259**	**1.5353**	**16.463**
Stddev	.0242	.00104	.00445	.0069	.0205	.0140	.143
%RSD	.36672	.33070	.70872	.41207	.44335	.91082	.86836
#1	6.6251	.31440	.62848	1.6663	4.6422	1.5494	16.595
#2	6.6080	.31470	.62321	1.6677	4.6029	1.5351	16.312
#3	6.5773	.31277	.63205	1.6552	4.6328	1.5214	16.483

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/24/2025 11:56:56 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2365.6	54783.	9109.2	1900.2	2925.1
Stddev	13.3	213.	65.4	6.8	13.7
%RSD	.56389	.38941	.71782	.35583	.46785
#1	2353.3	54542.	9119.1	1904.3	2914.2
#2	2363.7	54863.	9169.0	1892.4	2920.6
#3	2379.8	54945.	9039.4	1903.9	2940.5

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: S6 Acquired: 1/24/2025 12:01:34 Type: Cal
Method: EPA SFAM01.0(v55) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.174**	**7.1941**	**4.2232**	**2.6147**	**2.2269**
Stddev	.147	.0667	.0217	.0116	.0078
%RSD	1.4444	.92684	.51374	.44366	.34866
#1	10.336	7.2614	4.2401	2.6130	2.2358
#2	10.135	7.1928	4.1987	2.6041	2.2213
#3	10.050	7.1280	4.2307	2.6271	2.2235

Int. Std.	Y_3600	Y_3710
Units	Cts/S	Cts/S
Avg	**52672.**	**8914.9**
Stddev	97.	57.5
%RSD	.18373	.64482
#1	52584.	8866.3
#2	52776.	8900.0
#3	52657.	8978.3

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICV002 Acquired: 1/24/2025 12:18:05 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9966276**	**1.041310**	**.9806952**	**1.074974**	**.9533085**	**2.536008**
Stddev	.0030505	.008283	.0018632	.001886	.0018634	.002215
%RSD	.3060852	.7954310	.1899904	.1754027	.1954671	.0873455
#1	.9978758	1.033761	.9785459	1.072804	.9554095	2.538487
#2	.9931509	1.050170	.9818530	1.075900	.9518559	2.535318
#3	.9988561	1.040000	.9816867	1.076218	.9526600	2.534221

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5473226**	**.4879251**	**.4922237**	**10.40321**	**.5343735**	**.4780483**
Stddev	.0023518	.0023403	.0020869	.02219	.0013399	.0012368
%RSD	.4296902	.4796509	.4239721	.2133408	.2507443	.2587276
#1	.5499644	.4901384	.4901620	10.41887	.5358250	.4771735
#2	.5454569	.4881612	.4921740	10.37781	.5341116	.4775081
#3	.5465466	.4854756	.4943349	10.41296	.5331839	.4794634

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4659737**	**9.844701**	**.5540937**	**5.845494**	**.4937488**	**.2510338**
Stddev	.0011549	.010330	.0015653	.010044	.0014849	.0010678
%RSD	.2478364	.1049256	.2824874	.1718239	.3007385	.4253693
#1	.4668941	9.836984	.5556670	5.850130	.4924924	.2522455
#2	.4663490	9.856436	.5525367	5.833969	.4933667	.2506256
#3	.4646778	9.840684	.5540774	5.852382	.4953875	.2502303

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.04263**	**.4979457**	**.9352282**	**9.280138**	**4.980286**	F **.0423791**
Stddev	.15852	.0028277	.0019450	.056937	.007424	.0004494
%RSD	1.578464	.5678655	.2079648	.6135367	.1490594	1.060516
#1	9.88696	.4972589	.9351507	9.339302	4.971714	.0419448
#2	10.20385	.4955246	.9333231	9.225726	4.984536	.0428422
#3	10.03707	.5010534	.9372107	9.275386	4.984608	.0423502

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICV002 Acquired: 1/24/2025 12:18:05 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.206735**	**4.845099**	F **.0090548**	**5.451312**	F **5.549189**	F **3.643030**
Stddev	.003455	.017333	.0024338	.019351	.015104	.011660
%RSD	.0663600	.3577431	26.87814	.3549711	.2721768	.3200661
#1	5.202767	4.825146	.0070720	5.431909	5.566335	3.655425
#2	5.209075	4.853720	.0117709	5.451416	5.543377	3.632279
#3	5.208364	4.856432	.0083216	5.470610	5.537854	3.641387

Elem	Sr4077
Units	ppm
Avg	**5.101864**
Stddev	.031380
%RSD	.6150649
#1	5.138004
#2	5.086050
#3	5.081537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3207.635**	**64644.29**	**9904.828**	**2260.576**	**3822.334**
Stddev	5.770	113.55	38.528	2.584	6.302
%RSD	.1798918	.1756591	.3889854	.1142961	.1648623
#1	3201.525	64513.68	9862.562	2257.957	3821.066
#2	3212.992	64699.57	9913.936	2263.123	3829.173
#3	3208.388	64719.62	9937.987	2260.648	3816.763

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICB002 Acquired: 1/24/2025 12:23:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007547	.0009411	-.000847	-.000564	-.000052	-.007351	-.004572
Stddev	.0005386	.0014525	.001318	.001964	.001672	.012831	.000158
%RSD	71.36058	154.3382	155.7042	348.3569	3222.198	174.5412	3.455521
#1	.0013731	-.000674	.000533	.001587	.001389	-.004419	-.004390
#2	.0005024	.002141	-.002093	-.001017	.000341	.003759	-.004667
#3	.0003886	.001357	-.000980	-.002261	-.001886	-.021394	-.004659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	.0000232	.0006320	.0001370	.0000643	.0006233	.0006540
Stddev	.000052	.0000234	.0004608	.0001293	.0002953	.0005218	.0045196
%RSD	128.7651	101.0579	72.90490	94.36978	459.2197	83.72161	691.0382
#1	-.000092	.0000395	.0011415	.0002551	.0002524	.0006914	-.000251
#2	-.000040	-.000004	.0002444	-.000001	-.000276	.0011076	.005558
#3	.000012	.000034	.0005102	.000157	.000217	.0000707	-.003344

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000585	-.020872	-.000056	.0003540	-.001341	.0006618	-.001001
Stddev	.000284	.016322	.000145	.0002776	.546538	.0009796	.001509
%RSD	48.53978	78.19962	258.6347	78.42743	40755.99	148.0244	150.7172
#1	-.000517	-.012265	-.000059	.0000818	.318564	.0011253	.000543
#2	-.000896	-.039697	.000090	.0003433	.309822	.0013236	-.002471
#3	-.000341	-.010656	-.000200	.0006368	-.632409	-.000464	-.001075

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.393331	.0038874	-.008046	-.000540	.0003852	.0000070	.0002572
Stddev	.058310	.0012919	.000571	.000157	.0028319	.0022215	.0001268
%RSD	14.82461	33.23203	7.097147	28.99508	735.1462	31970.20	49.30425
#1	-.410675	.0048397	-.007857	-.000589	-.002732	.0025279	.0001239
#2	-.441002	.0024169	-.008687	-.000667	.002799	-.001664	.0003763
#3	-.328317	.0044056	-.007593	-.000365	.001089	-.000843	.0002713

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICB002 Acquired: 1/24/2025 12:23:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000317	-.002641	.0000141
Stddev	.001110	.000195	.0000425
%RSD	350.5903	7.385761	301.3899
#1	-.000461	-.002865	.0000629
#2	-.001347	-.002515	-.000016
#3	.000859	-.002542	-.000005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3251.152	65705.12	9468.311	2321.034	3956.199
Stddev	12.748	150.09	15.857	11.946	9.352
%RSD	.3921201	.2284298	.1674700	.5146861	.2363984
#1	3236.580	65815.48	9456.350	2318.905	3945.493
#2	3260.246	65765.65	9486.297	2333.902	3962.782
#3	3256.629	65534.21	9462.286	2310.296	3960.321

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICSA002 Acquired: 1/24/2025 12:29:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000429**	**.0062674**	**.0040018**	**.0252494**	**.0091597**	**237.1890**
Stddev	.000252	.0038480	.0019703	.0039669	.0013016	1.2825
%RSD	58.62761	61.39724	49.23653	15.71102	14.21005	.5407135
#1	-.000682	.0104393	.0059524	.0207953	.0076818	235.8225
#2	-.000427	.0055057	.0020123	.0284023	.0096621	237.3779
#3	-.000178	.0028572	.0040406	.0265507	.0101353	238.3666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044300**	**-.000678**	**.0009962**	**245.7077**	**.0605852**	**.0005121**
Stddev	.0008910	.000093	.0000451	1.1285	.0001605	.0001054
%RSD	20.11250	13.78225	4.530206	.4592921	.2649081	20.58326
#1	.0044805	-.000579	.0010384	244.4841	.0605218	.0006162
#2	.0035149	-.000688	.0010017	245.9314	.0607678	.0004055
#3	.0052948	-.000765	.0009486	246.7076	.0604662	.0005145

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011455**	**102.9336**	**.0115855**	**239.6872**	**.0040969**	**.0023232**
Stddev	.001933	.4747	.0005099	1.0119	.0004813	.0002494
%RSD	16.87593	.4612005	4.401364	.4221625	11.74908	10.73422
#1	-.011000	102.4294	.0118602	238.5968	.0046324	.0024288
#2	-.013575	102.9995	.0109971	239.8691	.0039578	.0020384
#3	-.009790	103.3720	.0118991	240.5959	.0037004	.0025024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.309396**	**-.006623**	**-.008607**	**-.271386**	F **.0109329**	F **.4105869**
Stddev	.194735	.001016	.000525	.051472	.0007355	.0029084
%RSD	62.94028	15.34656	6.098283	18.96623	6.727707	.7083485
#1	-.422561	-.005672	-.008308	-.307978	.0105093	.4074802
#2	-.084537	-.007694	-.008300	-.293650	.0117822	.4110357
#3	-.421091	-.006502	-.009213	-.212530	.0105072	.4132448

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICSA002 Acquired: 1/24/2025 12:29:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000618**	**.0258201**	**.0034923**	**-.003752**	**-.004487**	**.0025734**
Stddev	.000360	.0055944	.0029981	.001711	.001149	.0015562
%RSD	58.26566	21.66697	85.84822	45.60260	25.60391	60.47072
#1	-.000982	.0263933	.0001741	-.002242	-.003478	.0037456
#2	-.000609	.0199611	.0060062	-.005610	-.004246	.0008079
#3	-.000263	.0311058	.0042966	-.003403	-.005738	.0031668

Elem	Sr4077
Units	ppm
Avg	**.0913368**
Stddev	.0005890
%RSD	.6449118
#1	.0906606
#2	.0916117
#3	.0917382

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2938.485**	**60079.32**	**9757.011**	**2105.406**	**3371.718**
Stddev	4.450	45.66	62.350	8.244	3.331
%RSD	.1514387	.0760050	.6390266	.3915552	.0987883
#1	2934.692	60124.34	9686.426	2097.739	3368.642
#2	2937.379	60080.59	9780.020	2114.126	3375.255
#3	2943.384	60033.04	9804.586	2104.352	3371.255

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICSAB002 Acquired: 1/24/2025 12:36:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0896507**	**.1081835**	**.0517403**	**.0628739**	**.5276967**	**228.8166**
Stddev	.0005218	.0012122	.0007957	.0068561	.0025742	1.0292
%RSD	.5820678	1.120493	1.537818	10.90460	.4878188	.4497830
#1	.0897269	.1077513	.0526546	.0674179	.5247501	229.1681
#2	.0901302	.1072466	.0513616	.0662163	.5295088	229.6239
#3	.0890949	.1095525	.0512047	.0549876	.5288311	227.6577

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4842400**	**.4993522**	**.9752857**	**237.7066**	**.5916392**	**.4884768**
Stddev	.0018124	.0011896	.0024666	.9412	.0010912	.0012862
%RSD	.3742755	.2382231	.2529155	.3959674	.1844334	.2632998
#1	.4857621	.4989061	.9740644	238.0667	.5906912	.4870362
#2	.4847228	.4984501	.9736680	238.4146	.5928319	.4888843
#3	.4822351	.5007003	.9781247	236.6385	.5913944	.4895098

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4781363**	**99.48291**	**.4969822**	**232.5402**	**.9730475**	**.1991859**
Stddev	.0020682	.46640	.0043141	.8184	.0022059	.0004653
%RSD	.4325489	.4688260	.8680627	.3519324	.2266979	.2335982
#1	.4769018	99.63866	.4994463	232.9287	.9725117	.1995526
#2	.4769831	99.85151	.4994994	233.0921	.9711589	.1993427
#3	.4805240	98.95857	.4920007	231.6000	.9754720	.1986625

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.673263**	**.4770608**	**.9429909**	**-.561161**	**.0096169**	F **.3952662**
Stddev	.376044	.0021956	.0041172	.061693	.0020150	.0021913
%RSD	55.85398	.4602365	.4366124	10.99377	20.95219	.5543913
#1	-.725692	.4785835	.9434431	-.601512	.0075110	.3963480
#2	-.273756	.4745440	.9468634	-.591828	.0115265	.3967063
#3	-1.02034	.4780550	.9386663	-.490144	.0098132	.3927444

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: ICSAB002 Acquired: 1/24/2025 12:36:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000636	.0194518	-.000572	-.002565	-.004923	.0038155
Stddev	.000299	.0054258	.003835	.000560	.000148	.0008277
%RSD	47.05908	27.89363	670.8217	21.85320	3.000188	21.69242
#1	-.000758	.0171026	.000987	-.003064	-.005081	.0034878
#2	-.000295	.0155963	-.004941	-.002671	-.004900	.0032018
#3	-.000855	.0256563	.002238	-.001959	-.004789	.0047568

Elem	Sr4077
Units	ppm
Avg	.0880316
Stddev	.0004165
%RSD	.4731243
#1	.0882847
#2	.0882592
#3	.0875509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3084.422	60513.73	9599.081	2144.908	3534.829
Stddev	8.618	150.71	31.297	10.466	7.721
%RSD	.2793927	.2490522	.3260380	.4879435	.2184263
#1	3084.932	60498.19	9608.446	2135.929	3537.815
#2	3092.774	60371.39	9624.626	2142.394	3540.612
#3	3075.561	60671.60	9564.171	2156.402	3526.061

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV013 Acquired: 1/24/2025 12:59:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.799458**	**4.889542**	**24.34375**	**4.827917**	**4.896973**	**413.8373**
Stddev	.012764	.013054	.04565	.025597	.010091	3.4974
%RSD	.2659422	.2669743	.1875409	.5301842	.2060597	.8451220
#1	4.811692	4.874636	24.29511	4.855718	4.908502	410.2965
#2	4.786223	4.898936	24.35049	4.805325	4.889750	413.9257
#3	4.800459	4.895053	24.38567	4.822709	4.892666	417.2897

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.26619**	**.4928787**	**2.451198**	**408.2126**	**15.66501**	**2.468511**
Stddev	.07321	.0033259	.002760	1.2242	.05621	.002682
%RSD	.7131268	.6747823	.1125854	.2999006	.3588135	.1086651
#1	10.21870	.4894877	2.448028	408.8913	15.61834	2.467051
#2	10.22937	.4961354	2.453066	408.9470	15.64928	2.466876
#3	10.35050	.4930129	2.452498	406.7993	15.72741	2.471607

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.56736**	**416.5925**	**15.17785**	**406.5020**	**2.462587**	**1.292287**
Stddev	.04449	1.5895	.03368	1.2777	.004270	.005387
%RSD	.3053827	.3815418	.2218755	.3143219	.1733847	.4168543
#1	14.55943	417.7573	15.21010	407.4844	2.458989	1.288468
#2	14.61529	414.7818	15.14291	405.0575	2.461466	1.289944
#3	14.52738	417.2386	15.18054	406.9641	2.467305	1.298449

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**378.3988**	**2.437730**	**15.36183**	**158.0573**	**4.847789**	F **5.945155**
Stddev	1.8796	.008266	.01045	.8607	.015981	.017163
%RSD	.4967313	.3390896	.0680128	.5445367	.3296515	.2886942
#1	377.3879	2.432443	15.35042	158.5516	4.842277	5.926081
#2	380.5676	2.447255	15.37092	157.0635	4.835293	5.959353
#3	377.2411	2.433490	15.36415	158.5569	4.865795	5.950031

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV013 Acquired: 1/24/2025 12:59:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.847361**	**4.893366**	**4.881066**	**4.909556**	**4.888829**	**5.100450**
Stddev	.010036	.009948	.028502	.007623	.016650	.022349
%RSD	.2070349	.2033003	.5839218	.1552675	.3405814	.4381830
#1	4.858826	4.895544	4.863965	4.902686	4.883026	5.116030
#2	4.843088	4.882510	4.913968	4.908226	4.907605	5.074843
#3	4.840168	4.902045	4.865264	4.917757	4.875857	5.110477

Elem	Sr4077
Units	ppm
Avg	**5.113641**
Stddev	.026043
%RSD	.5092920
#1	5.125011
#2	5.083846
#3	5.132067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2644.481**	**55453.41**	**9302.795**	**1898.907**	**3094.580**
Stddev	5.920	121.23	48.096	3.226	5.826
%RSD	.2238801	.2186142	.5170048	.1698691	.1882554
#1	2638.018	55424.56	9335.553	1902.529	3098.837
#2	2649.642	55586.46	9247.578	1897.847	3096.963
#3	2645.785	55349.21	9325.255	1896.345	3087.941

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB013 Acquired: 1/24/2025 13:03:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008690**	**.0001167**	**-.000688**	**.0021413**	**.0001988**	**.0039748**	**-.001063**
Stddev	.0012820	.0005825	.001616	.0012983	.0015530	.0080644	.000337
%RSD	147.5347	499.2337	234.8041	60.63099	781.0892	202.8892	31.66779
#1	.0002066	-.000312	.000477	.0032236	.0019276	.0006391	-.000805
#2	.0000536	-.000118	-.002533	.0024987	-.000253	.0131719	-.001444
#3	.0023467	.000780	-.000009	.0007018	-.001078	-.001887	-.000939

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000046**	**.0000238**	**.0098034**	**.0001818**	**-.000097**	**-.000664**	**.0064566**
Stddev	.000053	.0000429	.0031082	.0002425	.000106	.001802	.0010930
%RSD	114.9420	180.5863	31.70549	133.3758	109.9946	271.3959	16.92770
#1	-.000009	.0000728	.0103203	.0000461	-.000215	.001390	.0076578
#2	-.000023	.0000052	.0064691	.0000375	-.000067	-.001402	.0061912
#3	-.000107	-.000007	.0126208	.0004618	-.000008	-.001979	.0055208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000374**	**-.018990**	**.0000293**	**.0003575**	**.0954402**	**-.000347**	**-.001021**
Stddev	.000159	.011269	.0003072	.0004815	.5782305	.002968	.001124
%RSD	42.58747	59.34433	1046.771	134.6998	605.8566	854.3332	110.0435
#1	-.000214	-.016154	-.000036	.0002056	-.401849	.000693	-.001770
#2	-.000376	-.031406	-.000240	-.000030	.729932	-.003695	.000271
#3	-.000532	-.009409	.000364	.000897	-.041763	.001960	-.001565

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.096187**	**.0023009**	**-.007074**	**-.000038**	**.0014979**	**.0020355**	**.0002003**
Stddev	.025617	.0004050	.000150	.000202	.0026773	.0015618	.0009009
%RSD	26.63279	17.60019	2.116286	536.9078	178.7356	76.72544	449.7411
#1	-.094815	.0018333	-.006902	.000177	.0039773	.0024399	-.000583
#2	-.122464	.0025300	-.007179	-.000223	.0018574	.0033553	-.000001
#3	-.071284	.0025393	-.007140	-.000067	-.001341	.0003113	.001185

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB013 Acquired: 1/24/2025 13:03:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000289**	**-.001644**	**.0000148**
Stddev	.000825	.001664	.0000642
%RSD	285.5973	101.2641	434.9331
#1	-.000200	-.002928	.0000537
#2	-.001155	-.002239	-.000059
#3	.000488	.000237	.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.360**	**65821.41**	**9941.540**	**2303.330**	**4136.717**
Stddev	4.099	218.33	32.723	1.812	3.950
%RSD	.1224040	.3316960	.3291525	.0786566	.0954817
#1	3344.575	65607.14	9910.558	2301.246	4132.270
#2	3352.713	66043.58	9938.299	2304.209	4139.816
#3	3347.792	65813.51	9975.762	2304.533	4138.065

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-02 Acquired: 1/24/2025 13:07:57 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0573330**	**-.005106**	**.4750989**	**.0243353**	**.0131743**	**54.56193**
Stddev	.0026194	.003187	.0080168	.0004876	.0003523	.16386
%RSD	4.568729	62.41483	1.687390	2.003634	2.674427	.3003238
#1	.0571945	-.003404	.4813255	.0240957	.0127879	54.46454
#2	.0547855	-.008782	.4779177	.0248963	.0134778	54.47013
#3	.0600188	-.003131	.4660534	.0240138	.0132571	54.75111

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.691399**	**.0054136**	**.0037801**	**23.75668**	**.1296995**	**.1582291**
Stddev	.061576	.0001054	.0001633	.01002	.0001022	.0020237
%RSD	.9202281	1.946825	4.320509	.0421767	.0788032	1.278976
#1	6.670202	.0053580	.0038844	23.75299	.1296329	.1596772
#2	6.760774	.0053477	.0038640	23.74903	.1296484	.1590933
#3	6.643221	.0055352	.0035918	23.76802	.1298171	.1559167

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0535494**	**116.0647**	**11.42611**	**13.00305**	**.0763035**	**.0052673**
Stddev	.0014319	.3470	.01640	.04657	.0007552	.0001380
%RSD	2.673905	.2989411	.1435506	.3581848	.9897977	2.620746
#1	.0519880	115.8678	11.42220	12.96046	.0766072	.0054086
#2	.0538594	115.8610	11.41202	12.99591	.0768596	.0052605
#3	.0548010	116.4653	11.44412	13.05278	.0754437	.0051328

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.439030**	**.2012400**	**.6036005**	**5.475468**	**3.138436**	**.4742831**
Stddev	.267386	.0024996	.0040500	.055961	.034431	.0015789
%RSD	60.90377	1.242118	.6709725	1.022036	1.097081	.3329063
#1	-.661935	.1998290	.6027253	5.536198	3.157365	.4734933
#2	-.142563	.2041261	.6080166	5.425984	3.159250	.4732548
#3	-.512592	.1997649	.6000597	5.464223	3.098694	.4761010

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-02 Acquired: 1/24/2025 13:07:57 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057737	2.766542	F 13.03254	.0080480	1.181889	.0339307
Stddev	.0005242	.043570	.07449	.0008908	.003243	.0006639
%RSD	9.078744	1.574887	.5715700	11.06898	.2744059	1.956651
#1	.0063325	2.783446	13.03099	.0078895	1.181101	.0332737
#2	.0056956	2.799126	13.10780	.0072471	1.185454	.0339170
#3	.0052929	2.717053	12.95884	.0090075	1.179113	.0346013

Elem	Sr4077
Units	ppm
Avg	.1049843
Stddev	.0001193
%RSD	.1136382
#1	.1049321
#2	.1048999
#3	.1051208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3492.347	69331.51	10733.19	2440.553	3929.430
Stddev	35.038	32.49	66.30	6.891	45.460
%RSD	1.003266	.0468661	.6177345	.2823419	1.156923
#1	3470.452	69351.91	10749.55	2446.405	3898.662
#2	3473.832	69294.04	10660.23	2432.958	3907.981
#3	3532.758	69348.59	10789.77	2442.296	3981.647

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-03 Acquired: 1/24/2025 13:12:02 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0571768**	**-.002318**	**.4739614**	**.0257886**	**.0125279**	**54.05123**
Stddev	.0004549	.002978	.0013432	.0028206	.0006571	.38244
%RSD	.7956775	128.4900	.2834034	10.93730	5.245306	.7075513
#1	.0575623	.001070	.4753879	.0235266	.0130414	54.41396
#2	.0566750	-.004521	.4727209	.0289490	.0117873	54.08801
#3	.0572930	-.003503	.4737755	.0248903	.0127549	53.65174

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.726653**	**.0053378**	**.0038234**	**23.62202**	**.1289183**	**.1580247**
Stddev	.005211	.0000277	.0000638	.12317	.0001886	.0000284
%RSD	.0774663	.5188514	1.668015	.5214235	.1462688	.0179789
#1	6.721473	.0053131	.0037499	23.73462	.1291140	.1580347
#2	6.731894	.0053677	.0038560	23.64096	.1289031	.1580469
#3	6.726590	.0053327	.0038643	23.49047	.1287377	.1579927

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0465937**	**115.0868**	**11.49801**	**12.90118**	**.0762422**	**.0052506**
Stddev	.0009780	.7778	.07832	.04974	.0005575	.0001446
%RSD	2.098949	.6758046	.6811492	.3855815	.7312178	2.754387
#1	.0455282	115.7470	11.58049	12.95416	.0763647	.0053202
#2	.0468024	115.2840	11.48890	12.89391	.0756336	.0050843
#3	.0474504	114.2295	11.42465	12.85547	.0767282	.0053473

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3145432**	**.2043929**	**.6056765**	**5.395994**	**3.116140**	**.4680369**
Stddev	.0452542	.0031330	.0047234	.044937	.010236	.0047301
%RSD	14.38728	1.532827	.7798540	.8327894	.3284887	1.010622
#1	.2653051	.2079606	.6087414	5.437726	3.104563	.4713269
#2	.3240079	.2031280	.6080511	5.348422	3.119863	.4701676
#3	.3543166	.2020902	.6002370	5.401834	3.123993	.4626163

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-03 Acquired: 1/24/2025 13:12:02 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055349	2.727362	F 13.36545	.0082151	1.203856	.0345642
Stddev	.0002137	.009227	.11350	.0011366	.009240	.0013543
%RSD	3.861055	.3383120	.8491910	13.83507	.7675180	3.918281
#1	.0057592	2.723436	13.48810	.0071728	1.214390	.0348201
#2	.0055118	2.737902	13.26412	.0080455	1.200052	.0357724
#3	.0053337	2.720747	13.34414	.0094269	1.197125	.0331002

Elem	Sr4077
Units	ppm
Avg	.1057138
Stddev	.0010033
%RSD	.9490653
#1	.1067235
#2	.1057010
#3	.1047170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3517.233	70064.76	10662.71	2470.582	3957.282
Stddev	8.276	203.97	45.54	7.435	11.340
%RSD	.2353008	.2911169	.4270669	.3009356	.2865654
#1	3521.454	69831.70	10627.17	2462.035	3961.698
#2	3522.548	70151.88	10714.04	2474.160	3965.750
#3	3507.697	70210.70	10646.92	2475.552	3944.398

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-02LX5 Acquired: 1/24/2025 13:16:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125668	-.001003	.0992332	.0042980	.0036773	11.23297	1.359957
Stddev	.0013091	.002848	.0007644	.0014506	.0004811	.05872	.008536
%RSD	10.41675	284.0437	.7703609	33.75028	13.08246	.5227330	.6276643
#1	.0116862	.000993	.0984203	.0056150	.0041477	11.17896	1.351317
#2	.0140710	-.004265	.0993418	.0027432	.0031862	11.22446	1.360168
#3	.0119430	.000264	.0999376	.0045358	.0036980	11.29547	1.368386

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012316	.0007199	4.929966	.0276086	.0323964	.0090009	24.32331
Stddev	.0000679	.0000303	.029179	.0003396	.0001324	.0005715	.06296
%RSD	5.514894	4.210421	.5918639	1.230116	.4085852	6.349323	.2588516
#1	.0012675	.0007486	4.900062	.0279353	.0322892	.0083523	24.26412
#2	.0011532	.0007230	4.931475	.0272574	.0323557	.0094303	24.31635
#3	.0012740	.0006882	4.958361	.0276330	.0325443	.0092202	24.38946

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.342099	2.715204	.0159733	.0011846	.1321576	.0427441	.1251158
Stddev	.012138	.019063	.0002466	.0002729	.2440815	.0011682	.0008618
%RSD	.5182622	.7020981	1.543735	23.03396	184.6897	2.733073	.6888186
#1	2.329726	2.734797	.0157233	.0008790	.2945335	.0440375	.1249463
#2	2.342583	2.714096	.0162164	.0014036	.2504724	.0417657	.1243514
#3	2.353988	2.696718	.0159801	.0012713	-.148533	.0424291	.1260498

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9588837	.6472112	.0890593	.0006151	.5685790	2.764113	.0017982
Stddev	.0296141	.0013204	.0003910	.0003666	.0031505	.021002	.0005348
%RSD	3.088391	.2040170	.4390310	59.61228	.5540971	.7598065	29.74074
#1	.9417577	.6480777	.0891068	.0008362	.5655230	2.774490	.0022428
#2	.9418144	.6456915	.0886467	.0008171	.5683979	2.739943	.0012048
#3	.9930791	.6478644	.0894244	.0001918	.5718161	2.777908	.0019471

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-02LX5 Acquired: 1/24/2025 13:16:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2479836	.0053287	.0215412
Stddev	.0015881	.0009426	.0000966
%RSD	.6404212	17.68974	.4484776
#1	.2470727	.0042403	.0214477
#2	.2470606	.0058630	.0215353
#3	.2498174	.0058828	.0216406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3342.896	67317.20	10115.44	2354.317	4007.813
Stddev	4.362	263.84	90.37	8.857	8.359
%RSD	.1304855	.3919326	.8934227	.3761980	.2085609
#1	3345.541	67405.32	10099.40	2353.172	4016.055
#2	3345.285	67525.70	10212.76	2363.691	4008.042
#3	3337.861	67020.58	10034.16	2346.088	3999.342

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-04 Acquired: 1/24/2025 13:20:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1257284**	**.0980075**	**.5131529**	**.1863441**	**.1717234**	**57.90667**
Stddev	.0018827	.0027510	.0029819	.0042842	.0031876	.33168
%RSD	1.497467	2.806888	.5810884	2.299078	1.856235	.5727755
#1	.1237508	.0948360	.5110209	.1814039	.1710076	58.10331
#2	.1259353	.0994387	.5118774	.1885913	.1752081	58.09296
#3	.1274992	.0997477	.5165604	.1890373	.1689546	57.52373

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.16699**	**.0947493**	**.0994492**	**23.63004**	**.5353712**	**1.114422**
Stddev	.18409	.0004171	.0005926	.11396	.0024254	.005171
%RSD	1.810683	.4401697	.5958721	.4822521	.4530369	.4640171
#1	10.18124	.0944929	.0993188	23.74582	.5357233	1.111018
#2	10.34354	.0945245	.0989326	23.62631	.5376013	1.111875
#3	9.97619	.0952305	.1000961	23.51800	.5327889	1.120372

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5017242**	**118.1491**	**12.17455**	**12.97815**	**1.042605**	**.0737325**
Stddev	.0035154	.7004	.04942	.06384	.005092	.0004820
%RSD	.7006552	.5927784	.4059546	.4918836	.4883460	.6537887
#1	.5041418	118.4622	12.21671	13.03208	1.039087	.0734678
#2	.4976915	118.6383	12.18678	12.99470	1.040285	.0742889
#3	.5033392	117.3468	12.12016	12.90767	1.048444	.0734408

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.108023**	**1.113209**	**1.457819**	**5.491271**	**3.130206**	**.4843569**
Stddev	.150258	.004186	.012913	.046781	.014326	.0034118
%RSD	139.0981	.3760569	.8857617	.8519155	.4576667	.7043996
#1	-.179255	1.110782	1.466190	5.545113	3.117439	.4859925
#2	.064604	1.110803	1.464320	5.460584	3.127479	.4866429
#3	-.209417	1.118043	1.442948	5.468114	3.145699	.4804352

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-04 Acquired: 1/24/2025 13:20:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ19S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051848	2.785394	F 12.71519	.0080063	1.154695	.0336717
Stddev	.0002635	.021039	.06176	.0008320	.002265	.0008037
%RSD	5.082496	.7553398	.4857289	10.39204	.1961769	2.386793
#1	.0051270	2.764181	12.72207	.0076345	1.154433	.0341018
#2	.0049550	2.785746	12.65028	.0074250	1.152572	.0327445
#3	.0054724	2.806255	12.77323	.0089594	1.157079	.0341688

Elem	Sr4077
Units	ppm
Avg	.1039886
Stddev	.0005061
%RSD	.4867109
#1	.1045475
#2	.1038573
#3	.1035611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.788	68920.82	10829.57	2405.367	3886.493
Stddev	7.226	226.39	43.06	12.829	15.681
%RSD	.2100676	.3284817	.3975768	.5333377	.4034776
#1	3443.663	68859.01	10855.57	2399.023	3895.384
#2	3444.250	68731.75	10853.27	2396.946	3895.709
#3	3431.451	69171.70	10779.87	2420.131	3868.387

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-07DLX2 Acquired: 1/24/2025 13:24:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0460770**	**-.005114**	**6.939383**	**.0156349**	**.0139244**	**11.52744**
Stddev	.0012992	.002239	.011613	.0016580	.0019160	.00842
%RSD	2.819659	43.77414	.1673534	10.60464	13.75993	.0730136
#1	.0446795	-.003001	6.932895	.0165331	.0161233	11.51940
#2	.0472482	-.007460	6.932463	.0166501	.0126138	11.52675
#3	.0463032	-.004882	6.952790	.0137216	.0130360	11.53619

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.91051**	**.0022775**	**.0765698**	**347.0709**	**.0866723**	**.0726679**
Stddev	.05650	.0000676	.0001342	.9236	.0000519	.0004316
%RSD	.3340851	2.967990	.1751977	.2661149	.0598466	.5938704
#1	16.91459	.0022011	.0765733	346.1462	.0866155	.0721938
#2	16.96486	.0023020	.0764340	347.0732	.0866844	.0727721
#3	16.85209	.0023295	.0767022	347.9934	.0867171	.0730379

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2157282**	**107.8727**	**6.602221**	**170.6348**	**.0801557**	**.0091560**
Stddev	.0020604	.1038	.009004	.2894	.0001314	.0002430
%RSD	.9550988	.0961966	.1363789	.1695906	.1639514	2.654202
#1	.2174666	107.7923	6.607425	170.3120	.0800193	.0089087
#2	.2162658	107.8360	6.607413	170.8712	.0801664	.0093945
#3	.2134523	107.9898	6.591824	170.7211	.0802814	.0091649

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.096421**	**.1020463**	**5.999016**	**.8457412**	**1.742387**	**.4541007**
Stddev	.258479	.0010175	.010127	.0501342	.005211	.0014622
%RSD	268.0747	.9970490	.1688163	5.927839	.2990860	.3219957
#1	-.302306	.1028176	5.997519	.8179703	1.746723	.4540567
#2	-.180614	.1024281	5.989721	.8156379	1.736606	.4526610
#3	.193658	.1008932	6.009809	.9036156	1.743834	.4555844

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-07DLX2 Acquired: 1/24/2025 13:24:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019654	F 10.13803	5.755046	.0048788	.2961572	.0144606
Stddev	.0005301	.01355	.018356	.0006988	.0049268	.0003228
%RSD	26.97270	.1336853	.3189539	14.32358	1.663582	2.232188
#1	.0020404	10.14973	5.740746	.0046153	.2930348	.0146224
#2	.0024540	10.12318	5.748648	.0043500	.2935999	.0140889
#3	.0014017	10.14117	5.775745	.0056710	.3018368	.0146704

Elem	Sr4077
Units	ppm
Avg	.2142044
Stddev	.0002453
%RSD	.1145121
#1	.2143935
#2	.2139273
#3	.2142926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3194.827	63903.82	10306.70	2188.555	3511.245
Stddev	7.693	113.70	42.59	6.614	4.470
%RSD	.2408039	.1779256	.4132538	.3022086	.1273039
#1	3202.311	64016.99	10346.45	2193.642	3515.668
#2	3186.940	63904.89	10311.90	2190.945	3506.729
#3	3195.231	63789.59	10261.74	2181.078	3511.338

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-08DLX2 Acquired: 1/24/2025 13:28:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0480064**	**-.004004**	**6.968257**	**.0155757**	**.0148210**	**11.19199**
Stddev	.0012735	.001467	.069848	.0000383	.0003968	.01804
%RSD	2.652738	36.64131	1.002372	.2457555	2.677132	.1612286
#1	.0471274	-.005640	6.888060	.0155763	.0152452	11.17119
#2	.0494669	-.003570	7.000936	.0155372	.0144591	11.20134
#3	.0474251	-.002803	7.015775	.0156137	.0147586	11.20345

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.17925**	**.0024125**	**.0771857**	**335.4094**	**.0852964**	**.0725108**
Stddev	.32278	.0000508	.0009524	3.7742	.0002444	.0009449
%RSD	1.995055	2.105374	1.233948	1.125253	.2865318	1.303131
#1	16.18111	.0024563	.0760870	333.5014	.0850863	.0714597
#2	16.50109	.0023568	.0777762	339.7567	.0855646	.0727828
#3	15.85553	.0024244	.0776941	332.9702	.0852383	.0732899

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2131473**	**104.7113**	**6.411931**	**165.2809**	**.0810938**	**.0089491**
Stddev	.0016614	.2562	.010303	.2966	.0010212	.0001627
%RSD	.7794478	.2446924	.1606808	.1794728	1.259299	1.818305
#1	.2121366	104.7717	6.411438	165.4343	.0799146	.0087690
#2	.2150647	104.9320	6.422471	165.4694	.0816842	.0089928
#3	.2122406	104.4303	6.401883	164.9390	.0816825	.0090855

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0357246**	**.0982129**	**5.846487**	**.8219926**	**1.769807**	**.4395188**
Stddev	.2313996	.0011381	.018829	.0173796	.021346	.0018561
%RSD	647.7317	1.158842	.3220529	2.114327	1.206137	.4223060
#1	-.185573	.0982778	5.838795	.8333455	1.745202	.4403529
#2	.276051	.0970437	5.867944	.8306475	1.783378	.4408115
#3	.016695	.0993172	5.832722	.8019849	1.780842	.4373919

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-08DLX2 Acquired: 1/24/2025 13:28:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019101	F 10.33623	5.635043	.0049009	.2888815	.0132924
Stddev	.0000104	.11333	.024496	.0005227	.0022807	.0010122
%RSD	.5439605	1.096464	.4347114	10.66595	.7895071	7.614709
#1	.0019103	10.20538	5.648212	.0048345	.2895014	.0121995
#2	.0018996	10.40360	5.606779	.0044145	.2863549	.0134802
#3	.0019204	10.39970	5.650137	.0054536	.2907882	.0141975

Elem	Sr4077
Units	ppm
Avg	.2081197
Stddev	.0006006
%RSD	.2886089
#1	.2078544
#2	.2088073
#3	.2076973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.356	64413.78	10313.06	2202.038	3439.257
Stddev	31.595	113.98	52.95	7.884	33.926
%RSD	1.008679	.1769477	.5134278	.3580365	.9864398
#1	3168.101	64362.36	10252.50	2204.735	3478.427
#2	3120.807	64334.57	10350.62	2193.160	3420.185
#3	3108.160	64544.41	10336.06	2208.221	3419.158

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-07LDLX10 Acquired: 1/24/2025 13:32:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063101	-.001434	1.381605	.0035660	.0024204	2.913730	3.329283
Stddev	.0007032	.001213	.004414	.0028508	.0003942	.018474	.036947
%RSD	11.14389	84.59765	.3194590	79.94243	16.28801	.6340460	1.109751
#1	.0059626	-.002833	1.378020	.0068540	.0025867	2.892427	3.290497
#2	.0071194	-.000764	1.380261	.0020598	.0019702	2.923404	3.333286
#3	.0058484	-.000703	1.386535	.0017843	.0027042	2.925358	3.364064

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005460	.0151357	69.08276	.0186758	.0141316	.0435380	22.05202
Stddev	.0000381	.0000207	.33009	.0002650	.0001129	.0011836	.12400
%RSD	6.982412	.1365236	.4778147	1.419072	.7988745	2.718456	.5623108
#1	.0005898	.0151456	68.73631	.0184411	.0141169	.0425039	21.92760
#2	.0005201	.0151120	69.11836	.0186229	.0142510	.0448289	22.05286
#3	.0005282	.0151496	69.39360	.0189632	.0140267	.0432812	22.17560

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.334921	33.47097	.0163621	.0023108	-.335557	.0219267	1.195602
Stddev	.007990	.10432	.0001987	.0001189	.335734	.0004232	.009313
%RSD	.5985257	.3116758	1.214385	5.145548	100.0528	1.929827	.7789172
#1	1.325907	33.37401	.0161338	.0024212	-.145564	.0217946	1.191069
#2	1.337727	33.45754	.0164962	.0023262	-.723203	.0215854	1.189423
#3	1.341129	33.58135	.0164563	.0021849	-.137902	.0224002	1.206313

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3780445	.3386425	.0833561	.0002167	1.956360	2.374675	-.000053
Stddev	.0114994	.0029468	.0009220	.0005051	.002388	.019923	.000334
%RSD	3.041803	.8701747	1.106150	233.0502	.1220403	.8389663	631.6114
#1	.3899709	.3370458	.0822936	-.000341	1.953606	2.358367	-.000264
#2	.3670260	.3420431	.0838289	.000348	1.957847	2.368777	.000332
#3	.3771364	.3368388	.0839459	.000643	1.957628	2.396881	-.000226

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-07LDLX10 Acquired: 1/24/2025 13:32:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1225964	.0015576	.0432379
Stddev	.0165359	.0012197	.0005376
%RSD	13.48804	78.30684	1.243373
#1	.1115474	.0008951	.0430948
#2	.1146348	.0029652	.0427862
#3	.1416070	.0008125	.0438325

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3281.001	65644.90	10101.59	2284.678	3876.832
Stddev	7.312	163.92	84.95	8.140	7.827
%RSD	.2228481	.2497056	.8409247	.3562938	.2018948
#1	3272.558	65570.87	10003.87	2288.533	3869.226
#2	3285.211	65832.78	10143.05	2290.174	3884.863
#3	3285.233	65531.06	10157.84	2275.327	3876.406

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-09DLX2 Acquired: 1/24/2025 13:36:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0853303**	**.0458003**	**7.022687**	**.1038563**	**.1010042**	**13.31074**
Stddev	.0015836	.0023289	.010240	.0014859	.0022640	.11319
%RSD	1.855823	5.084881	.1458118	1.430738	2.241534	.8503696
#1	.0835350	.0483647	7.024234	.1049893	.1020045	13.36161
#2	.0865283	.0452191	7.011761	.1021739	.0984123	13.38958
#3	.0859277	.0438170	7.032065	.1044057	.1025958	13.18104

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.75551**	**.0486801**	**.1268602**	**346.3221**	**.2884737**	**.5697790**
Stddev	.19769	.0002894	.0003655	3.9476	.0002324	.0009786
%RSD	1.054027	.5944843	.2881258	1.139852	.0805704	.1717500
#1	18.75118	.0483894	.1264503	347.3012	.2882079	.5707199
#2	18.95533	.0486828	.1269780	349.6879	.2886385	.5687666
#3	18.56002	.0489682	.1271523	341.9771	.2885748	.5698507

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4490477**	**108.1034**	**7.087470**	**169.0274**	**.5789129**	**.0456783**
Stddev	.0009415	.8515	.068125	1.1749	.0010568	.0005050
%RSD	.2096577	.7876259	.9612015	.6950687	.1825480	1.105528
#1	.4494873	108.5478	7.124724	169.5049	.5797347	.0459102
#2	.4496890	108.6408	7.128844	169.8884	.5792832	.0460257
#3	.4479669	107.1217	7.008842	167.6890	.5777208	.0450990

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000201**	**.5706245**	**6.448473**	**.9307377**	**1.792923**	**.4548878**
Stddev	.140311	.0016758	.029393	.0292484	.004323	.0042675
%RSD	69807.90	.2936819	.4558157	3.142498	.2411141	.9381414
#1	.157082	.5689390	6.465159	.9208990	1.788383	.4564765
#2	-.045171	.5706442	6.465726	.9076772	1.793397	.4581330
#3	-.112513	.5722904	6.414535	.9636368	1.796990	.4500538

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-09DLX2 Acquired: 1/24/2025 13:36:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ04S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013867	F 10.52568	5.818582	.0060283	.2964495	.0140869
Stddev	.0002950	.01688	.027945	.0007005	.0008936	.0006573
%RSD	21.27450	.1603399	.4802685	11.62013	.3014524	4.665835
#1	.0012597	10.54202	5.795701	.0065586	.2973799	.0139278
#2	.0017240	10.50831	5.810320	.0062922	.2963707	.0148091
#3	.0011765	10.52671	5.849727	.0052342	.2955979	.0135238

Elem	Sr4077
Units	ppm
Avg	.2148856
Stddev	.0022119
%RSD	1.029334
#1	.2161442
#2	.2161810
#3	.2123316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3113.318	64176.38	10380.74	2211.610	3411.584
Stddev	8.748	256.40	69.13	8.017	9.366
%RSD	.2809810	.3995309	.6659241	.3624920	.2745426
#1	3116.336	64169.38	10444.68	2219.541	3410.498
#2	3120.156	63923.54	10390.16	2203.510	3421.446
#3	3103.460	64436.21	10307.39	2211.779	3402.808

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1039-10DLX2 Acquired: 1/24/2025 13:40:50 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211999**	**-.003072**	**.7708813**	**-.006575**	**.0056053**	**7.067962**
Stddev	.0018565	.002552	.0022617	.001249	.0010708	.031824
%RSD	8.757162	83.07232	.2933871	18.99894	19.10414	.4502616
#1	.0228636	-.000156	.7702318	-.006786	.0044541	7.049324
#2	.0191973	-.004900	.7690155	-.007706	.0065718	7.104708
#3	.0215388	-.004159	.7733967	-.005234	.0057899	7.049854

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.58198**	**.0011315**	**.0079132**	F **929.0462**	**.0332981**	**.0197801**
Stddev	.02847	.0000387	.0000207	2.6352	.0001194	.0002290
%RSD	.1952194	3.421881	.2615434	.2836489	.3586245	1.157636
#1	14.55280	.0011632	.0079263	927.2731	.0333385	.0200335
#2	14.58348	.0010883	.0079240	927.7912	.0333920	.0197190
#3	14.60967	.0011429	.0078894	932.0744	.0331637	.0195879

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0577803**	**34.86386**	**2.130950**	**513.6329**	**.0303951**	**.0000325**
Stddev	.0025809	.15551	.005543	2.0516	.0008821	.0003944
%RSD	4.466676	.4460594	.2600992	.3994296	2.902209	1212.638
#1	.0578137	34.73988	2.126368	512.0939	.0300101	-.000423
#2	.0603443	35.03835	2.137111	515.9621	.0297710	.000270
#3	.0551829	34.81335	2.129372	512.8428	.0314043	.000250

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.142493**	**.0745891**	**1.570444**	**.4579162**	**1.167993**	**.1554446**
Stddev	.118363	.0010783	.019969	.0323789	.002894	.0005863
%RSD	83.06568	1.445713	1.271577	7.070924	.2477534	.3771713
#1	-.269375	.0737667	1.564579	.4323367	1.170761	.1556230
#2	-.035058	.0741905	1.592689	.4470910	1.164988	.1559210
#3	-.123046	.0758099	1.554064	.4943208	1.168229	.1547899

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1039-10DLX2 Acquired: 1/24/2025 13:40:50 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPE5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069365	8.530658	3.114760	-.001940	.1523673	.0254844
Stddev	.0003571	.005269	.004045	.000577	.0006461	.0014194
%RSD	5.147745	.0617694	.1298620	29.75159	.4240547	5.569825
#1	.0068178	8.536374	3.111772	-.001399	.1530960	.0270466
#2	.0066539	8.529606	3.113146	-.002547	.1518642	.0242740
#3	.0073379	8.525994	3.119363	-.001873	.1521417	.0251326

Elem	Sr4077
Units	ppm
Avg	.4304905
Stddev	.0004676
%RSD	.1086304
#1	.4303150
#2	.4310205
#3	.4301360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2901.224	59320.40	9097.057	2021.251	3187.947
Stddev	8.323	238.23	7.781	19.526	6.581
%RSD	.2868845	.4016034	.0855360	.9660500	.2064293
#1	2894.190	59588.05	9090.664	2029.190	3182.049
#2	2899.070	59131.56	9105.721	1999.005	3186.748
#3	2910.413	59241.58	9094.787	2035.557	3195.045

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1042-09DLX2 Acquired: 1/24/2025 13:45:08 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147171	-.002362	.1765125	.0093916	.0056044	19.03164	12.28765
Stddev	.0042365	.000756	.0010954	.0033066	.0019238	.03906	.07924
%RSD	28.78650	32.01616	.6205988	35.20791	34.32692	.2052448	.6448844
#1	.0165395	-.002341	.1777745	.0055764	.0046485	19.05749	12.36110
#2	.0177374	-.001616	.1758064	.0114281	.0078189	19.05073	12.29818
#3	.0098743	-.003128	.1759568	.0111703	.0043458	18.98671	12.20367

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017918	.0028449	96.19571	.0422226	.0237143	.0419859	44.49756
Stddev	.0000633	.0000685	.32802	.0001841	.0002654	.0023897	.08928
%RSD	3.530026	2.409728	.3409958	.4361071	1.118938	5.691544	.2006306
#1	.0017424	.0027930	96.24850	.0424047	.0240031	.0397099	44.52763
#2	.0017700	.0028191	96.49414	.0420365	.0234812	.0444749	44.56792
#3	.0018631	.0029226	95.84449	.0422265	.0236587	.0417730	44.39713

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.073140	45.46986	.0267878	.0010498	.0853840	.0775011	.5753447
Stddev	.018523	.02817	.0003784	.0002483	.4704826	.0008740	.0036624
%RSD	.6027491	.0619423	1.412494	23.65408	551.0196	1.127744	.6365634
#1	3.069187	45.49897	.0271154	.0013271	.2353252	.0779570	.5773280
#2	3.093321	45.46788	.0263736	.0009746	-.441795	.0764934	.5775879
#3	3.056912	45.44274	.0268743	.0008478	.462621	.0780530	.5711184

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.262812	1.497086	.1783448	.0022437	4.120981	5.387460	.0011891
Stddev	.063676	.003565	.0002007	.0002081	.004484	.008162	.0001946
%RSD	5.042404	.2381395	.1125495	9.274338	.1088186	.1514931	16.36522
#1	1.213484	1.494204	.1781732	.0021324	4.123952	5.379937	.0012122
#2	1.334695	1.495982	.1782956	.0024837	4.123168	5.396137	.0009840
#3	1.240256	1.501073	.1785655	.0021148	4.115822	5.386305	.0013711

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1042-09DLX2 Acquired: 1/24/2025 13:45:08 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPJ2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4430108	.0082116	.1665771
Stddev	.0015692	.0005235	.0009828
%RSD	.3542179	6.375450	.5899980
#1	.4429413	.0086824	.1669282
#2	.4446136	.0076478	.1673362
#3	.4414775	.0083047	.1654670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.155	66238.70	10059.56	2342.570	3752.875
Stddev	8.729	154.04	17.03	6.282	9.533
%RSD	.2694757	.2325454	.1692496	.2681693	.2540097
#1	3239.425	66142.25	10071.53	2336.080	3750.696
#2	3247.745	66157.51	10067.09	2343.010	3763.309
#3	3230.294	66416.35	10040.07	2348.621	3744.621

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-13DLX2 Acquired: 1/24/2025 13:49:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPY8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0240433**	**-.002788**	**.2046766**	**.0016202**	**.0094266**	**15.80429**
Stddev	.0032706	.001372	.0017365	.0006211	.0021260	.06857
%RSD	13.60288	49.21988	.8484097	38.33420	22.55360	.4338381
#1	.0207573	-.001216	.2066690	.0014916	.0074319	15.73566
#2	.0272982	-.003404	.2038758	.0022954	.0116633	15.80441
#3	.0240746	-.003744	.2034850	.0010734	.0091846	15.87279

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.99195**	**.0010076**	**.0100760**	**666.6509**	**.0511646**	**.0220838**
Stddev	.06629	.0000677	.0000536	2.3609	.0003289	.0003161
%RSD	.5527671	6.719928	.5317986	.3541490	.6428864	1.431370
#1	11.91832	.0009612	.0100769	663.9659	.0507930	.0218539
#2	12.01065	.0010853	.0101292	668.4021	.0514185	.0219533
#3	12.04688	.0009762	.0100220	667.5848	.0512823	.0224443

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0574598**	**49.16158**	**1.750014**	**370.5853**	**.0329621**	**.0011817**
Stddev	.0012873	.18611	.003320	1.1537	.0006245	.0004149
%RSD	2.240404	.3785663	.1897275	.3113219	1.894748	35.10991
#1	.0587616	48.97913	1.746905	369.3976	.0334008	.0008765
#2	.0561875	49.15448	1.749623	370.6568	.0322470	.0016541
#3	.0574303	49.35114	1.753512	371.7017	.0332385	.0010145

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.159234**	**.0855088**	**4.509894**	**.6061289**	**.5240334**	**.1993531**
Stddev	.190056	.0014063	.001601	.0243111	.0047149	.0008547
%RSD	119.3566	1.644617	.0354937	4.010886	.8997355	.4287504
#1	-.314026	.0841760	4.509975	.5828140	.5231977	.1998210
#2	.052887	.0853719	4.508254	.6042459	.5197921	.1983666
#3	-.216563	.0869786	4.511453	.6313268	.5291102	.1998717

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-13DLX2 Acquired: 1/24/2025 13:49:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPY8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008013	F 14.78523	5.974605	-.002331	.3723217	.0237521
Stddev	.0009057	.08457	.016998	.000462	.0009508	.0026353
%RSD	113.0255	.5719686	.2845007	19.82318	.2553741	11.09488
#1	.0011800	14.70741	5.986035	-.001809	.3719872	.0256343
#2	-.000232	14.77306	5.982708	-.002495	.3715834	.0248816
#3	.001456	14.87522	5.955072	-.002688	.3733946	.0207403

Elem	Sr4077
Units	ppm
Avg	.3073997
Stddev	.0009829
%RSD	.3197336
#1	.3071509
#2	.3065652
#3	.3084831

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.390	59587.45	9598.217	2037.111	3212.705
Stddev	5.763	130.00	21.124	5.972	6.931
%RSD	.1998761	.2181642	.2200846	.2931695	.2157242
#1	2883.715	59696.46	9581.198	2040.598	3212.867
#2	2888.984	59622.31	9591.593	2040.520	3219.553
#3	2877.471	59443.57	9621.859	2030.215	3205.695

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-16DLX2 Acquired: 1/24/2025 13:53:36 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0409298	-.003356	1.216186	.0200043	.0114461	35.71789	13.68781
Stddev	.0024659	.001892	.018254	.0014528	.0002656	.64368	.31360
%RSD	6.024686	56.38172	1.500920	7.262427	2.320597	1.802122	2.291069
#1	.0399709	-.001409	1.236926	.0189040	.0115352	35.45488	13.51273
#2	.0390874	-.003472	1.202559	.0216511	.0111475	35.24736	13.50085
#3	.0437311	-.005188	1.209074	.0194577	.0116558	36.45143	14.04986

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036095	.0051301	65.41358	.0873021	.0855251	.0682668	97.38777
Stddev	.0000649	.0001357	1.09343	.0020772	.0010605	.0013134	1.70730
%RSD	1.798193	2.645732	1.671566	2.379297	1.240048	1.923877	1.753095
#1	.0035695	.0052766	64.87732	.0862011	.0867497	.0668028	96.62282
#2	.0036844	.0050086	64.69180	.0860072	.0849005	.0693416	96.19671
#3	.0035746	.0051051	66.67161	.0896980	.0849252	.0686559	99.34378

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.370371	32.81889	.0699966	.0031481	-.029454	.1519132	.9725670
Stddev	.107833	.53502	.0007226	.0006492	.337709	.0023906	.0148644
%RSD	1.692734	1.630233	1.032322	20.62242	1146.557	1.573688	1.528364
#1	6.322287	32.53654	.0708264	.0032870	.330015	.1539885	.9669160
#2	6.294944	32.48419	.0695062	.0024407	-.078294	.1524520	.9613569
#3	6.493882	33.43594	.0696572	.0037166	-.340083	.1492992	.9894281

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.973838	1.922533	.3948551	.0036113	4.749151	6.570675	.0044184
Stddev	.130156	.034385	.0075366	.0004780	.085919	.010871	.0004914
%RSD	4.376691	1.788550	1.908687	13.23515	1.809148	.1654476	11.12171
#1	2.913798	1.960878	.3917838	.0035058	4.843615	6.570033	.0040821
#2	2.884541	1.894439	.3893391	.0031948	4.675660	6.581853	.0049824
#3	3.123177	1.912281	.4034423	.0041332	4.728177	6.560139	.0041908

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-16DLX2 Acquired: 1/24/2025 13:53:36 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7661364	.0193288	.1486659
Stddev	.0010914	.0009634	.0026913
%RSD	.1424492	4.984473	1.810315
#1	.7655130	.0183685	.1477262
#2	.7654996	.0193225	.1465704
#3	.7673966	.0202953	.1517011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3345.244	66879.65	10566.53	2343.321	3792.459
Stddev	44.156	1045.45	17.42	30.087	54.311
%RSD	1.319954	1.563187	.1649019	1.283957	1.432078
#1	3295.134	67405.59	10575.90	2356.655	3731.422
#2	3378.452	67557.69	10546.43	2364.437	3835.449
#3	3362.145	65675.66	10577.27	2308.871	3810.506

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-18DLX2 Acquired: 1/24/2025 13:57:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0509839**	**-.005290**	**4.725718**	**.0148490**	**.0104272**	**16.59179**	**15.77550**
Stddev	.0030612	.003481	.009781	.0034423	.0023896	.08491	.14354
%RSD	6.004187	65.80363	.2069691	23.18217	22.91746	.5117483	.9098923
#1	.0539577	-.003380	4.722542	.0167983	.0077111	16.56520	15.61266
#2	.0478423	-.009309	4.717920	.0168742	.0122068	16.68681	15.88366
#3	.0511517	-.003182	4.736692	.0108744	.0113637	16.52336	15.83019

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027201**	**.0354102**	**181.8783**	**.0861177**	**.1170252**	**.1408648**	**90.43477**
Stddev	.0000600	.0000837	.7094	.0002704	.0002045	.0028481	.35524
%RSD	2.204307	.2363488	.3900564	.3140105	.1747436	2.021863	.3928094
#1	.0027687	.0354317	181.6498	.0863742	.1171295	.1429094	90.41235
#2	.0026531	.0353178	182.6738	.0858352	.1167896	.1420732	90.80069
#3	.0027384	.0354809	181.3113	.0861438	.1171566	.1376117	90.09128

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.028144**	**88.27713**	**.0798022**	**.0078971**	**-.052393**	**.1026921**	**3.381665**
Stddev	.026076	.24258	.0002439	.0001212	.198116	.0006367	.026395
%RSD	.4325780	.2747989	.3056915	1.534461	378.1365	.6199564	.7805404
#1	6.015156	88.09762	.0796013	.0079690	-.279748	.1033081	3.374397
#2	6.058163	88.55311	.0800737	.0079651	.039325	.1020367	3.410933
#3	6.011112	88.18066	.0797317	.0077572	.083245	.1027315	3.359665

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.429399**	**1.522660**	**.3681648**	**.0018994**	**8.144389**	**5.559432**	**.0026779**
Stddev	.076979	.007194	.0023033	.0004515	.008858	.006950	.0011877
%RSD	5.385399	.4724613	.6256185	23.76784	.1087673	.1250197	44.35068
#1	1.390526	1.515662	.3666767	.0020840	8.137139	5.555641	.0032245
#2	1.518062	1.522285	.3708179	.0013849	8.154263	5.555201	.0013154
#3	1.379608	1.530035	.3669997	.0022294	8.141766	5.567453	.0034939

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-18DLX2 Acquired: 1/24/2025 13:57:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4884440	.0119231	.1655097
Stddev	.0013377	.0002836	.0011076
%RSD	.2738788	2.378591	.6691841
#1	.4877128	.0122273	.1653368
#2	.4876313	.0116660	.1666936
#3	.4899880	.0118760	.1644989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3393.849	67317.49	10481.30	2307.752	3780.878
Stddev	6.236	188.72	38.98	13.423	8.058
%RSD	.1837517	.2803448	.3718625	.5816455	.2131329
#1	3392.087	67240.83	10452.94	2307.637	3779.357
#2	3400.776	67179.16	10525.75	2294.387	3789.588
#3	3388.683	67532.48	10465.22	2321.232	3773.688

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-19DLX2 Acquired: 1/24/2025 14:01:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0416632	-.000900	.9077298	.0187695	.0108595	35.43597	16.42896
Stddev	.0029609	.000933	.0011876	.0023987	.0008000	.04684	.12526
%RSD	7.106728	103.7741	.1308379	12.78000	7.366571	.1321771	.7624481
#1	.0397721	-.001291	.9065703	.0208405	.0100149	35.43338	16.31885
#2	.0401421	-.001573	.9089438	.0161411	.0116057	35.39049	16.40281
#3	.0450755	.000166	.9076755	.0193270	.0109579	35.48405	16.56524

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032631	.0040580	16.79695	.0779869	.0805780	.0732453	95.12184
Stddev	.0000434	.0000335	.02382	.0001789	.0005615	.0033712	.06855
%RSD	1.330570	.8263497	.1418104	.2293913	.6967800	4.602594	.0720659
#1	.0033056	.0040574	16.79091	.0780837	.0802356	.0719598	95.04950
#2	.0032648	.0040919	16.77673	.0777804	.0802725	.0707060	95.13020
#3	.0032189	.0040249	16.82320	.0780965	.0812260	.0770701	95.18583

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.093038	8.503829	.0715275	.0030724	-.073620	.1451083	.8361181
Stddev	.007089	.019793	.0001868	.0000282	.073705	.0006278	.0050440
%RSD	.1391818	.2327515	.2611594	.9163509	100.1155	.4326654	.6032632
#1	5.099704	8.481103	.0716321	.0030400	-.124241	.1446351	.8303282
#2	5.085591	8.517293	.0713118	.0030855	.010941	.1458205	.8384655
#3	5.093817	8.513090	.0716385	.0030916	-.107561	.1448692	.8395606

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.976094	1.866568	.3799016	.0027327	4.148713	6.912493	.0055253
Stddev	.037845	.004981	.0005656	.0001840	.001184	.040102	.0012086
%RSD	1.271627	.2668661	.1488697	6.732122	.0285411	.5801419	21.87331
#1	2.947913	1.861061	.3792490	.0029429	4.150080	6.950593	.0065996
#2	3.019109	1.867882	.3802495	.0026010	4.148012	6.916235	.0057597
#3	2.961260	1.870760	.3802063	.0026541	4.148046	6.870650	.0042167

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-19DLX2 Acquired: 1/24/2025 14:01:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8638461	.0156860	.1282610
Stddev	.0027843	.0006015	.0002548
%RSD	.3223095	3.834510	.1986390
#1	.8668582	.0163748	.1284728
#2	.8633135	.0154187	.1279783
#3	.8613666	.0152645	.1283318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3509.700	68300.88	10494.32	2383.110	4039.987
Stddev	2.720	161.95	57.82	15.949	2.693
%RSD	.0775088	.2371155	.5509264	.6692332	.0666498
#1	3512.788	68323.66	10459.65	2401.523	4037.390
#2	3508.654	68128.75	10462.25	2374.173	4039.805
#3	3507.658	68450.24	10561.06	2373.633	4042.766

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-20DLX2 Acquired: 1/24/2025 14:05:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0399553	-.003285	.6871140	.0158793	.0097044	28.67224	17.10507
Stddev	.0012734	.001345	.0040085	.0010967	.0008663	.08279	.01469
%RSD	3.187118	40.94326	.5833826	6.906608	8.926628	.2887341	.0858666
#1	.0391210	-.001794	.6825677	.0168685	.0090555	28.58320	17.10595
#2	.0393238	-.003654	.6901396	.0146999	.0093697	28.74689	17.11929
#3	.0414211	-.004407	.6886349	.0160693	.0106882	28.68662	17.08996

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038946	.0043978	34.83606	.0766156	.0928000	.1070950	77.65363
Stddev	.0000466	.0000808	.10516	.0003439	.0005033	.0017371	.14716
%RSD	1.196227	1.836744	.3018684	.4488396	.5423582	1.621975	.1895114
#1	.0039480	.0043075	34.72998	.0764686	.0923921	.1074325	77.51051
#2	.0038737	.0044633	34.94027	.0770085	.0933625	.1052140	77.80453
#3	.0038622	.0044225	34.83793	.0763696	.0926455	.1086386	77.64584

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.850359	7.486500	.0742187	.0031629	-.025592	.1117627	1.013849
Stddev	.026626	.040263	.0008264	.0001395	.176613	.0009632	.004185
%RSD	.3391709	.5378028	1.113513	4.411428	690.0972	.8617926	.4127379
#1	7.829419	7.440404	.0737634	.0030546	-.091613	.1124217	1.010473
#2	7.880325	7.514792	.0751727	.0031137	.174519	.1122090	1.018531
#3	7.841335	7.504303	.0737200	.0033203	-.159684	.1106573	1.012543

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.170516	3.654397	.3235693	.0029069	5.185200	6.209520	.0068443
Stddev	.031592	.020484	.0010370	.0004294	.025734	.007719	.0002113
%RSD	.7574974	.5605422	.3204796	14.76974	.4963030	.1243089	3.087498
#1	4.134132	3.631367	.3246632	.0024149	5.156689	6.218429	.0070856
#2	4.190983	3.661238	.3234442	.0032057	5.206707	6.204825	.0067552
#3	4.186434	3.670585	.3226006	.0031001	5.192205	6.205306	.0066922

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-20DLX2 Acquired: 1/24/2025 14:05:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7766013	.0140900	.2153920
Stddev	.0014149	.0013083	.0006823
%RSD	.1821927	9.285442	.3167574
#1	.7770195	.0139430	.2146812
#2	.7750244	.0154656	.2160416
#3	.7777599	.0128614	.2154531

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3477.352	68859.46	10665.81	2406.394	3956.906
Stddev	7.819	200.28	67.92	7.867	10.836
%RSD	.2248664	.2908494	.6367566	.3269354	.2738441
#1	3486.354	68658.29	10601.29	2406.094	3966.988
#2	3472.247	69058.83	10736.68	2398.682	3945.448
#3	3473.455	68861.27	10659.47	2414.408	3958.283

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-21DLX2 Acquired: 1/24/2025 14:09:55 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470992	-.003267	2.162137	.0178036	.0118128	22.26627	19.53919
Stddev	.0024798	.001689	.001687	.0014364	.0012798	.04125	.11818
%RSD	5.265114	51.70841	.0780258	8.067920	10.83423	.1852794	.6048235
#1	.0442958	-.001318	2.160242	.0192280	.0106921	22.27117	19.50275
#2	.0490063	-.004180	2.162696	.0178273	.0132074	22.30485	19.67130
#3	.0479953	-.004304	2.163474	.0163555	.0115390	22.22278	19.44352

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034690	.0200109	66.11299	.0936969	.0879095	.2466442	94.28186
Stddev	.0000411	.0000205	.03596	.0004186	.0004745	.0035654	.14095
%RSD	1.186096	.1023821	.0543915	.4467819	.5397861	1.445568	.1495028
#1	.0034723	.0200243	66.07507	.0936063	.0873896	.2479888	94.33877
#2	.0034263	.0199873	66.11730	.0933310	.0883193	.2493418	94.38546
#3	.0035084	.0200211	66.14660	.0941534	.0880197	.2426020	94.12135

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.851874	28.29950	.0771640	.0030780	-.239320	.1189701	4.765091
Stddev	.019256	.09228	.0003802	.0003566	.137841	.0029749	.023390
%RSD	.2810396	.3260900	.4927189	11.58459	57.59715	2.500555	.4908633
#1	6.830763	28.30117	.0768095	.0027005	-.266903	.1170640	4.741288
#2	6.868475	28.20640	.0775655	.0031244	-.089772	.1223981	4.765940
#3	6.856383	28.39094	.0771168	.0034090	-.361283	.1174483	4.788046

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.358116	2.903048	.3881560	.0037391	6.546789	5.725057	.0324774
Stddev	.013208	.003696	.0002287	.0002239	.010907	.060503	.0002154
%RSD	.5601007	.1273225	.0589281	5.986890	.1665963	1.056807	.6630937
#1	2.344397	2.903658	.3879319	.0035386	6.536433	5.733189	.0325206
#2	2.359207	2.906401	.3883891	.0039806	6.558173	5.781082	.0326679
#3	2.370745	2.899084	.3881471	.0036981	6.545762	5.660899	.0322437

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1044-21DLX2 Acquired: 1/24/2025 14:09:55 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6480756	.0098247	.1864579
Stddev	.0095499	.0008639	.0006652
%RSD	1.473583	8.793315	.3567504
#1	.6498330	.0106542	.1858242
#2	.6566247	.0089301	.1871506
#3	.6377690	.0098896	.1863989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3495.484	68069.89	10422.94	2399.333	3997.167
Stddev	4.385	94.93	111.01	5.581	4.906
%RSD	.1254588	.1394604	1.065057	.2326103	.1227375
#1	3494.403	67968.34	10366.00	2396.923	4000.876
#2	3491.740	68156.40	10351.96	2405.714	3991.604
#3	3500.309	68084.94	10550.87	2395.362	3999.022

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-01DLX2 Acquired: 1/24/2025 14:14:00 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300085	-.002200	.5039149	.0042354	.0081499	19.38592
Stddev	.0062323	.003023	.0010984	.0013986	.0006772	.09766
%RSD	20.76861	137.3839	.2179808	33.02126	8.309807	.5037877
#1	.0265201	-.005184	.5026793	.0032667	.0076423	19.32670
#2	.0372038	-.002279	.5042844	.0036006	.0089188	19.49864
#3	.0263015	.000861	.5047809	.0058387	.0078884	19.33241

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.68860	.0024048	.0088251	427.8904	.0594164	.0563052
Stddev	.10941	.0000252	.0000346	2.2254	.0003785	.0001303
%RSD	.7992503	1.047528	.3918603	.5200803	.6370986	.2313525
#1	13.71484	.0023766	.0088129	425.3289	.0590584	.0561893
#2	13.78249	.0024251	.0087982	429.3476	.0598126	.0562800
#3	13.56845	.0024126	.0088641	428.9948	.0593782	.0564462

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0625348	57.30229	4.828089	232.6469	.0588015	.0014326
Stddev	.0039082	.24388	.007715	.9846	.0007920	.0001759
%RSD	6.249587	.4256097	.1597910	.4232078	1.346935	12.27599
#1	.0666390	57.14959	4.824535	232.0856	.0579584	.0015712
#2	.0588577	57.58356	4.836941	233.7838	.0589164	.0014919
#3	.0621078	57.17373	4.822792	232.0714	.0595299	.0012347

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.558214	.0985107	3.785759	1.482605	1.466728	.2323135
Stddev	.260323	.0033333	.013159	.039323	.004948	.0015126
%RSD	46.63504	3.383722	.3475826	2.652280	.3373354	.6510856
#1	-.322858	.0979692	3.782225	1.525557	1.467635	.2328949
#2	-.513954	.1020815	3.800324	1.448377	1.461389	.2334491
#3	-.837830	.0954812	3.774728	1.473881	1.471159	.2305965

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-01DLX2 Acquired: 1/24/2025 14:14:00 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015848	F 10.77037	5.754596	.0019025	.5251496	.0201143
Stddev	.0005631	.04243	.029931	.0006821	.0030402	.0014595
%RSD	35.52909	.3939415	.5201224	35.85273	.5789132	7.256013
#1	.0021921	10.73665	5.786231	.0026577	.5279621	.0199994
#2	.0010801	10.75645	5.750831	.0017187	.5219240	.0216278
#3	.0014820	10.81801	5.726726	.0013311	.5255626	.0187156

Elem	Sr4077
Units	ppm
Avg	.3318939
Stddev	.0010756
%RSD	.3240876
#1	.3317373
#2	.3330393
#3	.3309052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.149	61865.02	9681.532	2168.290	3387.045
Stddev	17.810	115.21	53.624	3.172	14.558
%RSD	.5818066	.1862204	.5538792	.1463029	.4298158
#1	3058.396	61820.29	9628.449	2167.526	3385.844
#2	3080.176	61778.89	9735.681	2165.570	3402.166
#3	3044.876	61995.88	9680.467	2171.775	3373.124

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-03DLX2 Acquired: 1/24/2025 14:18:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ00 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619661	-.002954	7.361340	.0265968	.0134240	34.35029	14.50233
Stddev	.0010947	.002040	.033842	.0013351	.0002138	.16732	.05202
%RSD	1.766530	69.04953	.4597258	5.019708	1.592972	.4870916	.3586840
#1	.0609358	-.001509	7.350851	.0250867	.0136340	34.21615	14.54152
#2	.0618471	-.002066	7.333983	.0270834	.0132065	34.53777	14.44331
#3	.0631154	-.005287	7.399184	.0276203	.0134315	34.29694	14.52215

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046460	.0140970	34.29943	.1019812	.1015626	.1593115	131.2447
Stddev	.0000340	.0001568	.19982	.0007000	.0004071	.0021162	.5654
%RSD	.7308997	1.111997	.5825740	.6864008	.4008788	1.328356	.4308180
#1	.0046672	.0142183	34.11958	.1015885	.1017007	.1580621	130.7286
#2	.0046640	.0139200	34.51453	.1027893	.1011043	.1581175	131.8491
#3	.0046069	.0141528	34.26418	.1015656	.1018827	.1617549	131.1563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.225860	14.92420	.1073539	.0038013	.3709870	.1851258	3.227239
Stddev	.030814	.05863	.0009064	.0004213	.2940522	.0010987	.030007
%RSD	.4264374	.3928290	.8443283	11.08227	79.26213	.5934911	.9297995
#1	7.209449	14.86920	.1073236	.0036999	.2212954	.1847584	3.193115
#2	7.261406	14.98589	.1064630	.0034399	.7097665	.1863611	3.249506
#3	7.206725	14.91753	.1082751	.0042640	.1818990	.1842579	3.239096

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.244717	1.672682	.5259588	.0019931	4.368094	6.322605	.0073526
Stddev	.059488	.007462	.0032498	.0001479	.014988	.018109	.0006613
%RSD	1.833375	.4461373	.6178827	7.421248	.3431266	.2864183	8.994271
#1	3.184898	1.676058	.5229449	.0018433	4.371147	6.314355	.0080803
#2	3.245386	1.664128	.5294019	.0019969	4.351815	6.310089	.0067882
#3	3.303868	1.677859	.5255295	.0021391	4.381321	6.343370	.0071892

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-03DLX2 Acquired: 1/24/2025 14:18:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ00 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8211207	.0141833	.1138846
Stddev	.0018196	.0008412	.0005797
%RSD	.2216036	5.931180	.5089822
#1	.8206138	.0141557	.1136808
#2	.8196084	.0133562	.1145386
#3	.8231401	.0150380	.1134343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3456.024	70904.57	10529.26	2449.334	3873.226
Stddev	8.628	186.19	40.13	18.791	12.540
%RSD	.2496580	.2625955	.3811087	.7671798	.3237715
#1	3453.188	71019.77	10528.22	2470.428	3870.467
#2	3465.713	70689.76	10569.90	2443.189	3886.917
#3	3449.171	71004.17	10489.66	2434.386	3862.296

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-04DLX2 Acquired: 1/24/2025 14:22:21 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0447038**	**-.002299**	**.8987979**	**.0189022**	**.0111200**	**31.58163**	**17.78352**
Stddev	.0021076	.001471	.0012745	.0008820	.0013470	.20829	.16263
%RSD	4.714645	64.01064	.1417985	4.666033	12.11365	.6595433	.9144923
#1	.0470054	-.001069	.8974543	.0182039	.0118730	31.35229	17.59649
#2	.0442378	-.003928	.8989496	.0198934	.0095648	31.75906	17.89168
#3	.0428682	-.001898	.8999897	.0186094	.0119221	31.63354	17.86238

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029684**	**.0034133**	**25.71998**	**.0783118**	**.0681268**	**.0863642**	**94.73456**
Stddev	.0001004	.0000288	.15377	.0005546	.0003405	.0020026	.58463
%RSD	3.382187	.8440288	.5978453	.7081359	.4997372	2.318829	.6171260
#1	.0029992	.0033981	25.54664	.0779095	.0681253	.0863948	94.08463
#2	.0028562	.0033954	25.83996	.0780815	.0677871	.0883513	95.21760
#3	.0030498	.0034466	25.77332	.0789444	.0684680	.0843464	94.90144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.445895**	**10.19748**	**.0654378**	**.0032146**	**.3954670**	**.1364268**	**.8777889**
Stddev	.026694	.04604	.0006010	.0003202	.4229258	.0023403	.0083026
%RSD	.6004165	.4514667	.9184886	9.961788	106.9434	1.715416	.9458564
#1	4.415678	10.14732	.0652415	.0034149	.8459640	.1380686	.8690313
#2	4.466274	10.23781	.0649594	.0028453	.0069531	.1337471	.8855458
#3	4.455733	10.20730	.0661124	.0033837	.3334839	.1374647	.8787896

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.970557**	**1.937115**	**.3811823**	**.0032900**	**4.786647**	**6.425309**	**.0059362**
Stddev	.083260	.005085	.0035548	.0002876	.005527	.017948	.0008977
%RSD	2.802828	.2624992	.9325714	8.741208	.1154724	.2793358	15.12216
#1	2.874623	1.932432	.3770815	.0029624	4.791639	6.407201	.0049689
#2	3.013070	1.936389	.3830753	.0034063	4.780707	6.443093	.0060971
#3	3.023977	1.942523	.3833899	.0035012	4.787595	6.425632	.0067425

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-04DLX2 Acquired: 1/24/2025 14:22:21 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8471996	.0159923	.1421892
Stddev	.0030243	.0005085	.0008765
%RSD	.3569817	3.179476	.6164382
#1	.8437699	.0154083	.1411847
#2	.8483444	.0163372	.1427987
#3	.8494844	.0162313	.1425841

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3368.994	67468.41	10541.18	2352.883	3867.516
Stddev	4.786	118.22	29.51	12.759	1.464
%RSD	.1420743	.1752296	.2799723	.5422708	.0378573
#1	3366.876	67598.59	10508.05	2367.601	3869.038
#2	3365.631	67367.72	10564.64	2344.949	3866.117
#3	3374.473	67438.93	10550.87	2346.100	3867.393

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-05DLX2 Acquired: 1/24/2025 14:26:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0190890**	**-.002517**	**.3615007**	**-.008920**	**.0053190**	**1.706860**
Stddev	.0015508	.001478	.0047196	.005135	.0026575	.019540
%RSD	8.124173	58.74820	1.305551	57.56120	49.96285	1.144814
#1	.0181236	-.003398	.3615523	-.013615	.0023342	1.727110
#2	.0208779	-.000810	.3661943	-.003437	.0074285	1.688116
#3	.0182656	-.003342	.3567556	-.009710	.0061942	1.705353

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.97059**	**.0003858**	**.0114738**	F **1029.106**	**.0305123**	**.0125689**
Stddev	.13407	.0000356	.0000867	6.026	.0000764	.0001149
%RSD	1.119997	9.238942	.7560469	.5855599	.2502736	.9139927
#1	11.82512	.0003479	.0113869	1027.343	.0305095	.0124503
#2	11.99744	.0003909	.0115604	1024.159	.0305901	.0126797
#3	12.08920	.0004186	.0114742	1035.817	.0304374	.0125767

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0742833**	**23.81369**	**.8585918**	**582.7631**	**.0362985**	**.0001660**
Stddev	.0011496	.06477	.0041993	2.2958	.0002864	.0007560
%RSD	1.547523	.2719733	.4890890	.3939570	.7890757	455.3835
#1	.0748649	23.79351	.8582584	581.8275	.0361154	.0005473
#2	.0750259	23.76142	.8545692	581.0829	.0361515	.0006555
#3	.0729592	23.88615	.8629479	585.3790	.0366286	-.000705

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.914979**	**.0546666**	**4.713886**	**-.254451**	**.4541823**	**.1077276**
Stddev	.353178	.0011086	.008035	.006446	.0003906	.0014400
%RSD	38.59958	2.027968	.1704538	2.533170	.0859998	1.336692
#1	-1.29706	.0544568	4.711152	-.250653	.4546331	.1067883
#2	-.60046	.0558651	4.722931	-.250806	.4539452	.1070090
#3	-.84743	.0536779	4.707574	-.261893	.4539685	.1093854

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-05DLX2 Acquired: 1/24/2025 14:26:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ02 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029514	F 19.38843	.9761523	-.004196	.0198859	.0269563
Stddev	.0005543	.02605	.0045979	.000407	.0014485	.0007045
%RSD	18.78091	.1343813	.4710249	9.691113	7.283882	2.613459
#1	.0025182	19.41851	.9720863	-.004396	.0183656	.0261757
#2	.0035760	19.37258	.9752287	-.003728	.0212499	.0271482
#3	.0027598	19.37422	.9811420	-.004464	.0200422	.0275449

Elem	Sr4077
Units	ppm
Avg	.4250500
Stddev	.0006462
%RSD	.1520211
#1	.4253339
#2	.4243105
#3	.4255056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2759.009	56657.06	9199.988	1905.582	3080.319
Stddev	11.188	171.83	18.668	1.611	9.075
%RSD	.4054927	.3032830	.2029159	.0845165	.2946201
#1	2746.987	56672.18	9210.000	1904.325	3074.404
#2	2760.925	56820.84	9211.515	1907.398	3075.785
#3	2769.114	56478.17	9178.450	1905.024	3090.768

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV014 Acquired: 1/24/2025 14:30:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.795527**	**4.903983**	**24.30697**	**4.828828**	**4.883459**	**396.3679**
Stddev	.013337	.020518	.02938	.006178	.014419	2.4117
%RSD	.2781044	.4183909	.1208755	.1279475	.2952580	.6084431
#1	4.793347	4.924730	24.29914	4.835100	4.893747	394.2697
#2	4.783415	4.883703	24.28230	4.822747	4.866978	399.0026
#3	4.809819	4.903516	24.33948	4.828637	4.889651	395.8314

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.754595**	**.4909105**	**2.453180**	**391.1941**	**15.45378**	**2.454630**
Stddev	.125614	.0026574	.002112	2.5189	.02250	.003899
%RSD	1.287738	.5413258	.0860729	.6438965	.1456040	.1588280
#1	9.609940	.4920691	2.453983	394.0739	15.43112	2.451976
#2	9.817706	.4927920	2.450785	390.1076	15.47612	2.452808
#3	9.836140	.4878705	2.454773	389.4008	15.45411	2.459106

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.23948**	**401.9973**	**14.48294**	**391.9465**	**2.452165**	**1.264049**
Stddev	.03978	1.7277	.04501	1.4210	.002803	.003185
%RSD	.2793300	.4297813	.3107715	.3625525	.1143209	.2519751
#1	14.27227	400.0088	14.44304	390.3057	2.453691	1.262094
#2	14.25094	403.1305	14.47406	392.7552	2.448930	1.267724
#3	14.19523	402.8526	14.53173	392.7786	2.453875	1.262328

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**368.6671**	**2.413424**	**14.87305**	**152.0711**	**4.921743**	F **5.859397**
Stddev	1.6085	.009068	.04663	.7476	.010727	.022051
%RSD	.4363028	.3757139	.3135183	.4916072	.2179452	.3763276
#1	370.3514	2.402971	14.85440	151.2080	4.917779	5.867237
#2	368.5029	2.419174	14.83864	152.4904	4.913563	5.876456
#3	367.1469	2.418127	14.92612	152.5150	4.933888	5.834498

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV014 Acquired: 1/24/2025 14:30:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV014 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.820248**	**4.931645**	**4.779837**	**4.941196**	**4.803072**	**4.852992**
Stddev	.007774	.021784	.023357	.005132	.014680	.014586
%RSD	.1612873	.4417094	.4886513	.1038546	.3056431	.3005666
#1	4.823054	4.936738	4.778318	4.940929	4.812674	4.838055
#2	4.811460	4.907766	4.803916	4.936203	4.810370	4.853719
#3	4.826229	4.950430	4.757277	4.946456	4.786173	4.867201

Elem	Sr4077
Units	ppm
Avg	**4.903969**
Stddev	.013892
%RSD	.2832796
#1	4.907038
#2	4.916070
#3	4.888800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2661.272**	**56981.34**	**9311.265**	**1937.989**	**3105.353**
Stddev	6.323	128.00	57.570	2.744	4.775
%RSD	.2375946	.2246343	.6182785	.1415830	.1537722
#1	2659.348	57096.97	9284.016	1941.158	3104.425
#2	2668.334	56843.80	9272.378	1936.371	3110.524
#3	2656.135	57003.26	9377.400	1936.440	3101.109

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB014 Acquired: 1/24/2025 14:35:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008825**	**.0007542**	**-.000785**	**-.001957**	**.0008117**	**.0061884**	**-.000214**
Stddev	.0013514	.0010129	.000952	.001886	.0010700	.0060767	.000861
%RSD	153.1248	134.2932	121.2627	96.36510	131.8229	98.19454	403.0722
#1	.0012899	.0019044	-.000829	-.000015	.0019214	.0040724	.000414
#2	.0019834	.0003628	-.001715	-.002075	-.000214	.0014526	.000140
#3	-.000626	-.000005	.000188	-.003780	.000727	.0130402	-.001195

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000010**	**-.000003**	**.1062897**	**.0001975**	**.0000678**	**-.002222**	**.0079960**
Stddev	.000086	.000044	.0055930	.0002912	.0001745	.001900	.0095238
%RSD	852.9495	1405.682	5.262086	147.4911	257.4039	85.49281	119.1072
#1	.000063	.000019	.1127200	.0005083	-.000133	-.001145	.0011617
#2	-.000105	-.000054	.1025547	-.000069	.000185	-.004415	.0039518
#3	.000012	.000025	.1035943	.000153	.000151	-.001106	.0188745

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000195**	**-.010912**	**.0000861**	**.0000410**	**.0516453**	**.0010076**	**.0055202**
Stddev	.000302	.007783	.0001899	.0001123	.3696146	.0007688	.0010552
%RSD	154.8494	71.32395	220.5088	273.9530	715.6788	76.29680	19.11529
#1	-.000181	-.016223	.0001500	-.000061	.2666070	.0001237	.0043218
#2	.000099	-.014536	-.000127	.000022	.2634740	.0013789	.0063099
#3	-.000503	-.001978	.000236	.000161	-.375145	.0015202	.0059289

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.187276**	**.0026401**	**-.007415**	**-.000067**	**.0018115**	**.0016302**	**.0002782**
Stddev	.084683	.0014092	.000361	.000242	.0028259	.0024088	.0010882
%RSD	45.21856	53.37849	4.866760	361.7477	156.0010	147.7662	391.1625
#1	-.090806	.0040027	-.007229	-.000326	.0046385	-.000703	-.000245
#2	-.221674	.0011885	-.007186	.000152	.0018091	.001485	.001529
#3	-.249347	.0027290	-.007831	-.000027	-.001013	.004108	-.000450

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB014 Acquired: 1/24/2025 14:35:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB014 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000405**	**-.003740**	**.0001022**
Stddev	.000972	.000056	.0000246
%RSD	239.9917	1.500436	24.03355
#1	-.000285	-.003798	.0000784
#2	-.001431	-.003736	.0001007
#3	.000501	-.003686	.0001274

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3286.702**	**66906.16**	**9868.178**	**2369.848**	**3989.360**
Stddev	6.180	150.54	67.073	7.829	4.629
%RSD	.1880331	.2250049	.6796881	.3303663	.1160446
#1	3293.380	66742.65	9897.075	2363.878	3994.447
#2	3281.185	66936.82	9791.501	2366.953	3985.394
#3	3285.540	67039.01	9915.960	2378.712	3988.240

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-10DLX2 Acquired: 1/24/2025 14:39:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515802	-.001597	1.030612	.0215023	.0133385	31.57449
Stddev	.0040001	.000997	.002197	.0018863	.0010164	.15252
%RSD	7.755171	62.41290	.2131828	8.772557	7.619909	.4830622
#1	.0554684	-.002132	1.028240	.0196338	.0127342	31.47169
#2	.0474768	-.002212	1.031019	.0214671	.0145119	31.74974
#3	.0517953	-.000447	1.032577	.0234059	.0127693	31.50206

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 21.11644	.0040832	.0031814	16.90257	.1152768	.0980127
Stddev	.29200	.0001499	.0001098	.10855	.0002421	.0002003
%RSD	1.382824	3.671536	3.452099	.6422366	.2100520	.2043257
#1	21.09058	.0042340	.0030557	16.87246	.1152288	.0981877
#2	21.42051	.0040815	.0032589	17.02301	.1155394	.0980561
#3	20.83822	.0039341	.0032295	16.81226	.1150623	.0977943

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0491257	102.2583	7.752820	7.119448	.0589090	.0033622
Stddev	.0018486	.5782	.048041	.036961	.0003120	.0001565
%RSD	3.762995	.5654462	.6196525	.5191595	.5296329	4.654819
#1	.0493486	102.0887	7.752201	7.095948	.0588926	.0032390
#2	.0508528	102.9023	7.801166	7.162052	.0586055	.0035383
#3	.0471758	101.7838	7.705091	7.100345	.0592289	.0033094

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545934	.1933676	.8644028	2.338076	1.898560	.4128843
Stddev	.5380535	.0039718	.0036996	.053267	.004976	.0025512
%RSD	211.3384	2.054005	.4279913	2.278229	.2620923	.6179000
#1	-.142119	.1979448	.8676520	2.291427	1.897723	.4122252
#2	.867034	.1913273	.8651799	2.396117	1.903902	.4157004
#3	.038865	.1908306	.8603764	2.326684	1.894056	.4107273

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-10DLX2 Acquired: 1/24/2025 14:39:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032434	5.242000	6.334293	.0058777	.7454509	.0127184
Stddev	.0002472	.012300	.036577	.0005303	.0017941	.0009845
%RSD	7.621433	.2346352	.5774383	9.022381	.2406720	7.740770
#1	.0029619	5.254782	6.376524	.0064887	.7474417	.0122989
#2	.0034251	5.240970	6.313715	.0055373	.7449518	.0138432
#3	.0033433	5.230248	6.312641	.0056071	.7439592	.0120132

Elem	Sr4077
Units	ppm
Avg	.2012369
Stddev	.0010969
%RSD	.5450676
#1	.2010333
#2	.2024213
#3	.2002561

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3447.374	68514.03	10381.57	2440.302	3974.217
Stddev	6.903	283.58	59.33	3.884	6.258
%RSD	.2002254	.4139036	.5715413	.1591794	.1574557
#1	3454.326	68500.68	10314.68	2438.251	3981.422
#2	3447.273	68237.36	10427.86	2437.872	3970.143
#3	3440.522	68804.05	10402.18	2444.782	3971.085

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-11DLX2 Acquired: 1/24/2025 14:43:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442266	-.002856	.6429420	.0182872	.0463088	35.71839	17.93404
Stddev	.0003559	.001530	.0018966	.0019904	.0013661	.31118	.12791
%RSD	.8048171	53.59013	.2949949	10.88409	2.949884	.8712113	.7132108
#1	.0445061	-.002451	.6418638	.0202537	.0473302	36.04491	18.08173
#2	.0438259	-.001569	.6418302	.0183342	.0447572	35.68503	17.86049
#3	.0443478	-.004548	.6451320	.0162737	.0468391	35.42524	17.85990

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027873	.0022368	7.676545	.1179363	.0556305	.0397085	91.90259
Stddev	.0000747	.0000120	.078016	.0002936	.0002920	.0024397	.71691
%RSD	2.680535	.5383260	1.016292	.2489780	.5249283	6.143971	.7800775
#1	.0028452	.0022507	7.739700	.1179692	.0553970	.0419736	92.62571
#2	.0027030	.0022304	7.700601	.1182121	.0555365	.0371254	91.89001
#3	.0028139	.0022293	7.589334	.1176276	.0559579	.0400264	91.19205

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.083105	6.379619	.0469040	.0025048	.2214676	.1615912	.5085854
Stddev	.040720	.068564	.0004081	.0003083	.3703436	.0035695	.0069777
%RSD	.9972826	1.074735	.8700520	12.30802	167.2225	2.208972	1.371978
#1	4.122363	6.422623	.0464711	.0021513	-.115318	.1645980	.5129895
#2	4.085885	6.415686	.0469595	.0027178	.618084	.1576463	.5122264
#3	4.041066	6.300550	.0472816	.0026454	.161637	.1625292	.5005403

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.866522	1.232398	.3651372	.0035102	4.154307	5.954377	.0046141
Stddev	.038379	.004601	.0028945	.0000402	.013806	.171520	.0004923
%RSD	2.056196	.3733641	.7927170	1.143696	.3323231	2.880574	10.67024
#1	1.905537	1.230719	.3671876	.0034651	4.151246	6.113607	.0044409
#2	1.865218	1.228871	.3663978	.0035233	4.142288	5.772765	.0051697
#3	1.828811	1.237603	.3618261	.0035421	4.169386	5.976760	.0042318

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-11DLX2 Acquired: 1/24/2025 14:43:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6995391	.0162817	.1528711
Stddev	.0213936	.0008345	.0017686
%RSD	3.058237	5.125373	1.156909
#1	.7161418	.0172075	.1546467
#2	.6753964	.0160499	.1528569
#3	.7070791	.0155875	.1511096

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3419.231	68146.17	10420.35	2417.821	3967.037
Stddev	5.304	365.04	281.65	17.110	5.109
%RSD	.1551115	.5356729	2.702931	.7076776	.1287900
#1	3421.055	67921.79	10200.21	2408.438	3964.025
#2	3423.383	67949.35	10737.74	2407.454	3972.936
#3	3413.257	68567.39	10323.11	2437.570	3964.149

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-13DLX2 Acquired: 1/24/2025 14:47:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470816	-.003844	.6524399	.0191385	.0109256	36.89588	14.61938
Stddev	.0012664	.000561	.0025238	.0022186	.0003550	.21965	.07874
%RSD	2.689784	14.58652	.3868232	11.59235	3.249271	.5953135	.5386107
#1	.0456411	-.003198	.6539261	.0175782	.0111552	36.97391	14.63596
#2	.0480200	-.004123	.6538678	.0181589	.0111049	36.64787	14.53367
#3	.0475837	-.004210	.6495259	.0216783	.0105167	37.06586	14.68851

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042177	.0029300	15.55881	.0992494	.1301949	.0724561	97.94050
Stddev	.0001163	.0000442	.04791	.0001125	.0004211	.0017353	.42977
%RSD	2.756980	1.510173	.3079393	.1133919	.3234566	2.394944	.4388106
#1	.0042672	.0029718	15.56557	.0991284	.1306457	.0722461	97.92254
#2	.0043010	.0029345	15.50788	.0993509	.1301275	.0742869	97.51999
#3	.0040848	.0028836	15.60299	.0992689	.1298116	.0708354	98.37897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.620560	7.479181	.0689722	.0035438	.0832933	.1799854	.5331315
Stddev	.024250	.028524	.0007023	.0000361	.3949197	.0012848	.0023667
%RSD	.2520633	.3813735	1.018185	1.018295	474.1312	.7138619	.4439233
#1	9.638185	7.496553	.0681670	.0035792	.5360672	.1814368	.5348622
#2	9.592904	7.446262	.0694576	.0035070	-.096099	.1795264	.5304345
#3	9.630589	7.494729	.0692922	.0035451	-.190088	.1789931	.5340977

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.528820	1.878053	.3934310	.0039714	4.190560	6.491252	.0050298
Stddev	.014892	.004529	.0021425	.0003020	.006409	.029927	.0007583
%RSD	.5888779	.2411371	.5445591	7.604822	.1529309	.4610306	15.07515
#1	2.537528	1.881785	.3937492	.0037138	4.186092	6.501141	.0041586
#2	2.511625	1.873015	.3911472	.0038966	4.187685	6.514983	.0055404
#3	2.537307	1.879358	.3953965	.0043038	4.197902	6.457633	.0053906

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-13DLX2 Acquired: 1/24/2025 14:47:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ08 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7836106	.0175455	.1632429
Stddev	.0040064	.0003010	.0009159
%RSD	.5112771	1.715759	.5610810
#1	.7846051	.0177115	.1638713
#2	.7870262	.0171980	.1621920
#3	.7792007	.0177270	.1636654

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3541.167	69866.33	10487.70	2437.729	4065.869
Stddev	2.617	35.97	77.38	2.740	5.887
%RSD	.0739068	.0514802	.7378603	.1124151	.1447867
#1	3544.181	69883.05	10503.02	2437.224	4059.165
#2	3539.464	69825.04	10403.80	2440.686	4070.193
#3	3539.858	69890.89	10556.28	2435.276	4068.249

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-16DLX2 Acquired: 1/24/2025 14:51:34 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0380643	-.002679	.6781167	.0136309	.0087652	26.72425	17.11210
Stddev	.0012813	.000050	.0036542	.0001899	.0017874	.25022	.21532
%RSD	3.366000	1.868233	.5388705	1.393238	20.39142	.9362894	1.258287
#1	.0366568	-.002649	.6797661	.0138373	.0095609	26.98125	17.17067
#2	.0383735	-.002737	.6739286	.0134635	.0100166	26.71008	17.29209
#3	.0391627	-.002651	.6806554	.0135918	.0067182	26.48142	16.87356

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039989	.0027830	12.25593	.0672712	.1135392	.0752583	70.80068
Stddev	.0000668	.0000657	.09646	.0001117	.0007831	.0023216	.56089
%RSD	1.670649	2.359551	.7870368	.1660496	.6897480	3.084788	.7922122
#1	.0040760	.0028177	12.34243	.0673797	.1135792	.0777944	71.40036
#2	.0039598	.0027073	12.27346	.0672772	.1127369	.0732381	70.71272
#3	.0039609	.0028240	12.15192	.0671566	.1143017	.0747423	70.28897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.380630	5.098006	.0492546	.0031818	-.214197	.1312407	.4630960
Stddev	.086064	.037756	.0005923	.0001781	.056062	.0036366	.0020262
%RSD	1.026935	.7406107	1.202545	5.598804	26.17318	2.770955	.4375309
#1	8.459114	5.141596	.0495678	.0032655	-.278464	.1353977	.4629779
#2	8.394182	5.076931	.0485714	.0029772	-.188791	.1286478	.4651786
#3	8.288595	5.075492	.0496244	.0033026	-.175335	.1296766	.4611314

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.993229	1.707534	.2802242	.0029523	4.385952	5.890481	.0049916
Stddev	.030176	.006659	.0012211	.0000427	.021290	.246179	.0020577
%RSD	1.513912	.3899621	.4357571	1.444716	.4854113	4.179276	41.22446
#1	2.003505	1.706372	.2813603	.0029865	4.390927	6.173652	.0067530
#2	1.959257	1.701533	.2803795	.0029660	4.362615	5.770463	.0054919
#3	2.016925	1.714698	.2789329	.0029045	4.404314	5.727328	.0027298

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-16DLX2 Acquired: 1/24/2025 14:51:34 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ11 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6687407	.0106989	.1599296
Stddev	.0277040	.0007649	.0020061
%RSD	4.142711	7.148909	1.254392
#1	.7007241	.0099826	.1618254
#2	.6533046	.0106096	.1601347
#3	.6521934	.0115045	.1578288

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3359.669	68626.54	10152.81	2401.531	3878.137
Stddev	13.528	107.43	322.34	8.914	16.528
%RSD	.4026577	.1565388	3.174911	.3711765	.4261933
#1	3365.102	68750.16	9783.73	2411.398	3878.193
#2	3369.636	68573.67	10379.09	2394.060	3894.637
#3	3344.269	68555.80	10295.60	2399.135	3861.580

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-18DLX2 Acquired: 1/24/2025 14:55:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0376893	-.000751	.6752176	.0150732	.0104125	29.07389	18.71342
Stddev	.0024206	.001497	.0026724	.0034541	.0007119	.18380	.05418
%RSD	6.422624	199.2588	.3957808	22.91512	6.837188	.6321863	.2895162
#1	.0388818	.000299	.6748959	.0179770	.0109607	29.27462	18.67491
#2	.0392824	-.000087	.6727206	.0112535	.0096079	28.91383	18.77537
#3	.0349038	-.002465	.6780363	.0159891	.0106689	29.03322	18.68997

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030983	.0022763	11.73129	.0684832	.0912920	.0572679	74.11077
Stddev	.0000296	.0000545	.07292	.0003705	.0003649	.0025787	.48564
%RSD	.9567092	2.393313	.6215554	.5410174	.3996656	4.502931	.6552891
#1	.0030989	.0022390	11.81346	.0687510	.0909273	.0569082	74.64546
#2	.0030683	.0022510	11.70614	.0680604	.0912916	.0548879	73.69706
#3	.0031276	.0023388	11.67428	.0686382	.0916570	.0600076	73.98979

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.348714	5.647236	.0466639	.0031191	.0143942	.1311545	.5712938
Stddev	.033853	.020266	.0001849	.0002757	.0690656	.0002121	.0055295
%RSD	.4606712	.3588625	.3962895	8.839451	479.8145	.1617092	.9678854
#1	7.387722	5.662629	.0466471	.0032974	.0900275	.1310071	.5775712
#2	7.331416	5.624275	.0464880	.0028016	-.045326	.1310589	.5671451
#3	7.327005	5.654805	.0468567	.0032584	-.001519	.1313976	.5691650

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.017654	1.581615	.2956351	.0029173	4.599330	5.597399	.0050491
Stddev	.045043	.008191	.0028145	.0000456	.016869	.016660	.0003529
%RSD	2.232457	.5179066	.9520252	1.561214	.3667741	.2976360	6.988738
#1	2.039164	1.582115	.2986390	.0029673	4.596620	5.590986	.0048378
#2	1.965889	1.573185	.2930589	.0029065	4.583979	5.616312	.0054565
#3	2.047911	1.589545	.2952073	.0028781	4.617389	5.584898	.0048531

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-18DLX2 Acquired: 1/24/2025 14:55:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ13 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6812542	.0135371	.1713069
Stddev	.0012319	.0011047	.0010855
%RSD	.1808347	8.160686	.6336823
#1	.6826536	.0129303	.1725385
#2	.6803335	.0128688	.1708931
#3	.6807755	.0148122	.1704892

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3373.847	67959.60	10389.86	2380.810	3920.181
Stddev	4.538	312.80	12.11	14.584	10.828
%RSD	.1344973	.4602669	.1165207	.6125582	.2762115
#1	3377.502	67623.65	10403.40	2364.153	3918.824
#2	3375.269	68242.44	10380.07	2391.285	3931.624
#3	3368.768	68012.70	10386.11	2386.992	3910.095

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-20DLX2 Acquired: 1/24/2025 14:59:48 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ15 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362134	-.002784	1.052426	.0155865	.0087905	26.00579	19.97553
Stddev	.0032960	.001054	.003172	.0015026	.0009640	.17702	.07645
%RSD	9.101615	37.87423	.3014207	9.640464	10.96625	.6806819	.3827010
#1	.0324086	-.001824	1.055085	.0161889	.0093541	25.81206	19.91763
#2	.0380379	-.003912	1.048915	.0138762	.0076775	26.15911	19.94677
#3	.0381938	-.002616	1.053278	.0166945	.0093401	26.04621	20.06218

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034782	.0061160	39.45274	.0699122	.0768520	.1856163	66.59161
Stddev	.0000570	.0000898	.23011	.0001966	.0003293	.0010343	.37848
%RSD	1.638022	1.468603	.5832528	.2812724	.4284773	.5572159	.5683621
#1	.0034744	.0061115	39.22277	.0698506	.0764723	.1863500	66.19932
#2	.0035370	.0062080	39.68299	.0697537	.0770245	.1860656	66.95458
#3	.0034233	.0060285	39.45245	.0701322	.0770591	.1844334	66.62093

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.973120	7.954463	.0587736	.0026691	.0576491	.1145727	.8517213
Stddev	.065802	.035891	.0005141	.0003079	.1244684	.0013514	.0097609
%RSD	.7333249	.4512073	.8746468	11.53520	215.9068	1.179505	1.146018
#1	8.908496	7.923674	.0589144	.0029739	.0918030	.1131724	.8410299
#2	9.040040	7.993883	.0582038	.0026753	.1614751	.1146766	.8601565
#3	8.970823	7.945833	.0592026	.0023582	-.080331	.1158692	.8539776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.083384	3.113937	.2694131	.0029941	6.668561	5.925905	.0045061
Stddev	.070465	.007662	.0019546	.0002115	.008049	.011495	.0009778
%RSD	2.285302	.2460419	.7255187	7.065696	.1207015	.1939838	21.69851
#1	3.016932	3.121938	.2673147	.0028089	6.664934	5.936553	.0033793
#2	3.075948	3.106668	.2711821	.0032246	6.662964	5.913718	.0051301
#3	3.157272	3.113205	.2697427	.0029487	6.677785	5.927444	.0050089

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-20DLX2 Acquired: 1/24/2025 14:59:48 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ15 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6124619	.0107835	.2798191
Stddev	.0020386	.0008037	.0025405
%RSD	.3328482	7.452700	.9079189
#1	.6145409	.0102916	.2775764
#2	.6123784	.0117110	.2825781
#3	.6104664	.0103480	.2793026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3344.289	67102.74	10078.59	2339.472	3926.879
Stddev	4.132	320.02	51.52	17.935	3.029
%RSD	.1235480	.4769127	.5111912	.7666173	.0771277
#1	3343.964	67467.45	10043.41	2360.159	3924.072
#2	3348.574	66971.88	10137.73	2329.956	3926.477
#3	3340.329	66868.88	10054.63	2328.301	3930.089

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-22DLX2 Acquired: 1/24/2025 15:03:55 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392791	-.003805	2.246292	.0099932	.0119972	10.61287
Stddev	.0020338	.001861	.013461	.0016896	.0007400	.01766
%RSD	5.177697	48.89916	.5992591	16.90764	6.167951	.1663609
#1	.0391603	-.005516	2.252268	.0089624	.0112130	10.59262
#2	.0373074	-.004075	2.230877	.0090741	.0126831	10.62101
#3	.0413697	-.001824	2.255730	.0119431	.0120955	10.62500

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 24.98295	.0016822	.0062024	391.3497	.0989562	.0238858
Stddev	.07463	.0001012	.0000245	1.2104	.0007395	.0001120
%RSD	.2987251	6.014248	.3956049	.3092793	.7473393	.4686714
#1	24.89939	.0015997	.0062170	390.8281	.0988984	.0238492
#2	25.00648	.0016517	.0061741	390.4875	.0982473	.0237967
#3	25.04298	.0017951	.0062162	392.7334	.0997230	.0240114

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0593663	77.91611	3.471597	156.9085	.0387304	.0014805
Stddev	.0019974	.29918	.019409	.7264	.0002067	.0002017
%RSD	3.364535	.3839827	.5590888	.4629667	.5336012	13.62245
#1	.0605918	77.59779	3.450112	156.1809	.0387527	.0012527
#2	.0604457	77.95902	3.476816	156.9108	.0389250	.0016363
#3	.0570615	78.19153	3.487864	157.6337	.0385135	.0015525

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3677357	.1054645	2.161306	.9692898	2.539542	.3587923
Stddev	.4703702	.0021263	.011210	.0700016	.017005	.0018186
%RSD	127.9098	2.016175	.5186800	7.221949	.6695998	.5068575
#1	.7851276	.1037456	2.149182	.9484659	2.534349	.3566926
#2	-.141935	.1048056	2.163441	.9120629	2.525739	.3598643
#3	.460015	.1078423	2.171295	1.047340	2.558537	.3598202

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-22DLX2 Acquired: 1/24/2025 15:03:55 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ17 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030661	7.373911	4.082034	-.001046	.2710590	.0111420
Stddev	.0002143	.055852	.027901	.000592	.0028443	.0015596
%RSD	6.988242	.7574289	.6835113	56.58858	1.049346	13.99710
#1	.0028327	7.389107	4.056673	-.000865	.2712934	.0114587
#2	.0031116	7.312033	4.111922	-.001708	.2737789	.0125190
#3	.0032539	7.420592	4.077507	-.000566	.2681047	.0094485

Elem	Sr4077
Units	ppm
Avg	.3925054
Stddev	.0020705
%RSD	.5274974
#1	.3901542
#2	.3933059
#3	.3940561

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3128.146	61592.76	9681.663	2158.260	3524.975
Stddev	13.632	323.52	20.612	12.276	21.453
%RSD	.4357878	.5252625	.2128992	.5688108	.6086107
#1	3125.981	61692.65	9685.558	2160.141	3519.144
#2	3142.731	61854.56	9659.381	2169.487	3548.741
#3	3115.726	61231.07	9700.050	2145.151	3507.039

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-01DLX2 Acquired: 1/24/2025 15:08:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0621817**	**-.002841**	**4.396223**	**.0266805**	**.0207867**	**17.20780**
Stddev	.0038838	.004276	.013189	.0025962	.0009627	.09604
%RSD	6.245909	150.5150	.3000087	9.730823	4.631252	.5580983
#1	.0584715	-.006307	4.381807	.0294182	.0197009	17.21529
#2	.0662186	-.004153	4.399177	.0263696	.0211235	17.29988
#3	.0618551	.001937	4.407684	.0242538	.0215358	17.10824

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.49277**	**.0024554**	**.0096251**	**34.34786**	**.2063702**	**.0429910**
Stddev	.27592	.0001008	.0000232	.13390	.0007445	.0002801
%RSD	1.346433	4.103731	.2415197	.3898310	.3607712	.6515572
#1	20.79790	.0023606	.0096215	34.37662	.2070674	.0432224
#2	20.26081	.0024443	.0096039	34.46504	.2064571	.0430710
#3	20.41960	.0025612	.0096500	34.20192	.2055860	.0426796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2061868**	**133.4026**	**2.454582**	**15.04185**	**.0633542**	**.0012074**
Stddev	.0062041	.5624	.006076	.08334	.0009243	.0002314
%RSD	3.008979	.4216174	.2475368	.5540295	1.458964	19.16421
#1	.1996729	133.6508	2.448995	15.03909	.0628521	.0011884
#2	.2120259	133.7983	2.461051	15.12654	.0627897	.0014477
#3	.2068615	132.7588	2.453702	14.95994	.0644209	.0009861

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.034494**	**.1704877**	**3.052986**	**1.159203**	**1.982428**	**.5337932**
Stddev	.140237	.0029735	.011020	.032373	.010092	.0038055
%RSD	406.5599	1.744139	.3609681	2.792689	.5090529	.7129186
#1	-.092557	.1674299	3.062348	1.121951	1.973679	.5366191
#2	.125450	.1706642	3.055770	1.180517	1.980138	.5352944
#3	-.136374	.1733691	3.040841	1.175141	1.993468	.5294660

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-01DLX2 Acquired: 1/24/2025 15:08:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ18 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046200	6.857678	5.644853	.0053613	.4625737	.0050809
Stddev	.0004545	.015922	.107366	.0010571	.0076138	.0002882
%RSD	9.837296	.2321817	1.902020	19.71650	1.645965	5.673099
#1	.0045879	6.851065	5.523176	.0045271	.4537827	.0050022
#2	.0041824	6.846129	5.685109	.0050069	.4670659	.0048401
#3	.0050897	6.875842	5.726273	.0065501	.4668724	.0054003

Elem	Sr4077
Units	ppm
Avg	.1707663
Stddev	.0003000
%RSD	.1756836
#1	.1709308
#2	.1709481
#3	.1704200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3304.462	66739.53	9877.580	2383.639	3844.877
Stddev	3.989	345.92	155.295	19.760	2.985
%RSD	.1207199	.5183098	1.572194	.8289723	.0776331
#1	3305.002	66379.48	10054.85	2362.558	3844.859
#2	3308.153	66769.79	9812.36	2386.618	3847.870
#3	3300.230	67069.32	9765.53	2401.739	3841.900

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-10DLX2 Acquired: 1/24/2025 15:12:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ25 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236471	-.004307	.9186670	-.005434	.0100177	6.097425
Stddev	.0014699	.002351	.0357718	.000929	.0012289	.044680
%RSD	6.215957	54.58152	3.893884	17.09218	12.26744	.7327666
#1	.0248896	-.006431	.8786437	-.005126	.0087518	6.072068
#2	.0220245	-.004707	.9298340	-.006478	.0100953	6.149015
#3	.0240273	-.001782	.9475232	-.004699	.0112059	6.071193

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.94823	.0012286	.0162233	F 1095.770	.0314465	.0277398
Stddev	.14615	.0000684	.0006956	3.843	.0001319	.0011255
%RSD	.8623245	5.564896	4.287564	.3506880	.4193226	4.057345
#1	16.88477	.0011497	.0154885	1093.404	.0315681	.0264404
#2	17.11538	.0012645	.0163098	1100.204	.0314652	.0284121
#3	16.84454	.0012715	.0168716	1093.701	.0313063	.0283668

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0552829	43.33324	3.028317	604.6813	.0288321	.0002179
Stddev	.0008988	.28892	.018632	4.1551	.0009633	.0003185
%RSD	1.625783	.6667410	.6152515	.6871605	3.341197	146.1851
#1	.0542566	43.04479	3.013449	600.3593	.0277803	.0005081
#2	.0556623	43.62262	3.049218	608.6466	.0290444	-.000123
#3	.0559298	43.33232	3.022284	605.0381	.0296716	.000268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.382373	.0706776	5.151817	.4510689	.9889880	.1925807
Stddev	.263538	.0025590	.010041	.0223579	.0398669	.0017231
%RSD	68.92165	3.620663	.1948956	4.956657	4.031085	.8947658
#1	-.239788	.0681040	5.144209	.4329783	.9468808	.1909041
#2	-.220847	.0732218	5.148044	.4760649	.9939292	.1943469
#3	-.686483	.0707069	5.163198	.4441636	1.026154	.1924911

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-10DLX2 Acquired: 1/24/2025 15:12:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ25 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046280	F 11.33499	3.051480	-.001779	.1492568	.0284556
Stddev	.0001267	.43439	.006942	.000290	.0018140	.0008065
%RSD	2.737912	3.832333	.2275071	16.31936	1.215351	2.834149
#1	.0046329	10.85616	3.052885	-.002110	.1512003	.0275552
#2	.0047522	11.44504	3.043943	-.001661	.1476085	.0291116
#3	.0044989	11.70378	3.057612	-.001567	.1489615	.0287001

Elem	Sr4077
Units	ppm
Avg	.5139716
Stddev	.0043184
%RSD	.8402119
#1	.5110018
#2	.5189256
#3	.5119875

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2829.996	56601.59	8885.337	1937.479	3117.107
Stddev	94.718	250.95	52.753	9.742	109.157
%RSD	3.346925	.4433649	.5937100	.5028350	3.501882
#1	2936.725	56887.97	8856.438	1939.983	3240.129
#2	2797.320	56496.69	8946.225	1945.726	3079.360
#3	2755.942	56420.10	8853.349	1926.730	3031.834

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-11DLX2 Acquired: 1/24/2025 15:16:31 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ26 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265792	-.003662	.9535520	-.005287	.0072157	6.472617
Stddev	.0025413	.001208	.0041689	.004552	.0002893	.053337
%RSD	9.561122	32.98848	.4371985	86.09852	4.008632	.8240358
#1	.0239372	-.005009	.9490355	-.003594	.0073976	6.506294
#2	.0267942	-.002674	.9572527	-.010443	.0073672	6.411123
#3	.0290061	-.003303	.9543678	-.001824	.0068821	6.500436

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 21.47809	.0008907	.0112414	F 1088.985	.0376022	.0147250
Stddev	.17384	.0000572	.0001624	3.271	.0000539	.0003414
%RSD	.8093746	6.418329	1.444713	.3003287	.1434754	2.318836
#1	21.63504	.0008448	.0111392	1085.218	.0375690	.0150820
#2	21.29124	.0009547	.0111563	1090.624	.0375732	.0146916
#3	21.50797	.0008725	.0114286	1091.111	.0376645	.0144015

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483664	39.11390	1.517682	520.7445	.0349099	.0004297
Stddev	.0021220	.32889	.013779	4.1661	.0006490	.0002065
%RSD	4.387261	.8408601	.9078793	.8000262	1.858916	48.06050
#1	.0467130	39.38892	1.531714	523.8435	.0341625	.0002210
#2	.0476271	38.74958	1.504172	516.0085	.0353303	.0006339
#3	.0507591	39.20322	1.517159	522.3814	.0352369	.0004343

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.345516	.0635254	2.222856	.1339093	1.136692	.1737082
Stddev	.202024	.0004845	.016029	.0289647	.001901	.0023623
%RSD	58.47026	.7626735	.7211117	21.63007	.1672091	1.359902
#1	-.321593	.0639739	2.231830	.1508501	1.136341	.1732603
#2	-.558437	.0630115	2.204350	.1004647	1.134992	.1716020
#3	-.156519	.0635908	2.232389	.1504131	1.138744	.1762624

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-11DLX2 Acquired: 1/24/2025 15:16:31 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ26 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117469	7.817725	3.250662	.0040056	.1301125	.0293352
Stddev	.0004308	.043595	.005859	.0010434	.0011548	.0004120
%RSD	3.667767	.5576450	.1802367	26.04798	.8875001	1.404272
#1	.0120114	7.793034	3.246006	.0028642	.1299856	.0292226
#2	.0112497	7.792079	3.248740	.0049103	.1290264	.0297917
#3	.0119795	7.868061	3.257241	.0042422	.1313254	.0289912

Elem	Sr4077
Units	ppm
Avg	.6231101
Stddev	.0064435
%RSD	1.034083
#1	.6295306
#2	.6166439
#3	.6231557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2790.458	58082.99	9155.526	1954.011	3077.702
Stddev	10.087	309.01	39.012	12.965	10.004
%RSD	.3614676	.5320088	.4261012	.6635200	.3250513
#1	2797.940	57804.51	9200.420	1952.895	3084.838
#2	2794.446	58415.42	9129.863	1967.499	3082.001
#3	2778.987	58029.02	9136.296	1941.641	3066.267

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-07DLX2 Acquired: 1/24/2025 15:20:48 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0324572**	**-.002815**	**4.357772**	**.0031771**	**.0115546**	**9.367333**
Stddev	.0022929	.002007	.002018	.0043621	.0005044	.032127
%RSD	7.064389	71.30141	.0463080	137.2974	4.365587	.3429661
#1	.0298400	-.002483	4.356858	.0070572	.0116002	9.353885
#2	.0341124	-.000995	4.356371	-.001544	.0110289	9.403999
#3	.0334191	-.004968	4.360085	.004019	.0120346	9.344116

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.78208**	**.0026652**	**.0509250**	**557.3576**	**.0519588**	**.0541005**
Stddev	.20890	.0000759	.0001636	1.6006	.0004789	.0002386
%RSD	1.323653	2.849273	.3212619	.2871712	.9217547	.4409322
#1	15.89942	.0027483	.0507368	556.8992	.0514528	.0539501
#2	15.54089	.0025993	.0510057	559.1373	.0524050	.0539759
#3	15.90593	.0026481	.0510327	556.0362	.0520187	.0543756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1097486**	**84.06782**	**6.720455**	**251.9758**	**.0657736**	**.0044951**
Stddev	.0005428	.17967	.029192	1.0027	.0007697	.0003122
%RSD	.4946274	.2137167	.4343762	.3979271	1.170185	6.944402
#1	.1092319	83.86078	6.686957	250.8241	.0649377	.0046252
#2	.1103142	84.18275	6.733948	252.6545	.0659301	.0041389
#3	.1096997	84.15994	6.740459	252.4486	.0664530	.0047212

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.073605**	**.0756562**	**6.262796**	**.4866884**	**1.843092**	**.3464581**
Stddev	.245508	.0009781	.072299	.0396414	.005293	.0006940
%RSD	333.5463	1.292842	1.154415	8.145123	.2871590	.2003061
#1	-.286020	.0760771	6.187558	.4711276	1.841349	.3457667
#2	-.129984	.0763534	6.269084	.5317493	1.838891	.3471547
#3	.195188	.0745381	6.331745	.4571884	1.849036	.3464529

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-07DLX2 Acquired: 1/24/2025 15:20:48 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ42 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030841	F 10.24356	3.789614	-.000197	.3316682	.0189452
Stddev	.0003141	.02849	.005827	.001418	.0020048	.0012800
%RSD	10.18570	.2781309	.1537504	720.1589	.6044645	6.756182
#1	.0033934	10.23273	3.783723	.001425	.3315267	.0181563
#2	.0030936	10.22208	3.789745	-.000813	.3297379	.0204221
#3	.0027654	10.27588	3.795374	-.001203	.3337400	.0182573

Elem	Sr4077
Units	ppm
Avg	.2820223
Stddev	.0012263
%RSD	.4348185
#1	.2806065
#2	.2827113
#3	.2827491

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3085.159	63258.40	9871.330	2156.356	3323.265
Stddev	3.814	171.66	2.612	12.830	1.773
%RSD	.1236262	.2713682	.0264644	.5949780	.0533587
#1	3085.950	63382.88	9869.389	2171.167	3321.349
#2	3088.516	63062.57	9874.300	2149.234	3324.849
#3	3081.012	63329.76	9870.302	2148.667	3323.597

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-08DLX2 Acquired: 1/24/2025 15:25:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0560498	-.003992	3.979338	.0257708	.0199161	37.40072	16.52888
Stddev	.0011464	.001051	.011835	.0028543	.0015005	.25471	.40413
%RSD	2.045356	26.33161	.2974062	11.07588	7.534104	.6810326	2.445001
#1	.0567060	-.003758	3.973286	.0228197	.0192002	37.52752	16.95297
#2	.0547261	-.003078	3.971753	.0259753	.0189076	37.10750	16.14822
#3	.0567174	-.005141	3.992975	.0285174	.0216404	37.56715	16.48544

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052959	.0400039	148.8349	.1191433	.0806449	.2875025	142.2900
Stddev	.0001028	.0000616	1.0600	.0008924	.0001558	.0010961	1.0717
%RSD	1.941227	.1540475	.7121960	.7490135	.1931815	.3812517	.7531545
#1	.0051821	.0399614	149.1810	.1198705	.0807275	.2876909	142.7268
#2	.0053237	.0399757	147.6451	.1181474	.0804652	.2884923	141.0689
#3	.0053820	.0400746	149.6786	.1194119	.0807419	.2863244	143.0743

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.28389	13.99568	.1485196	.0058648	-.117991	.1823760	10.49437
Stddev	.07024	.12596	.0001041	.0002745	.203899	.0018256	.07569
%RSD	.6830257	.9000064	.0700999	4.680453	172.8094	1.001030	.7212674
#1	10.31814	14.02646	.1484153	.0061389	-.066120	.1820245	10.52593
#2	10.20309	13.85718	.1485199	.0058655	-.342816	.1807516	10.40801
#3	10.33042	14.10340	.1486235	.0055900	.054963	.1843518	10.54919

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.107991	7.404599	.6174365	.0030186	7.944232	6.807345	.0226873
Stddev	.067617	.015554	.0050146	.0002873	.011171	.021450	.0002392
%RSD	2.175577	.2100623	.8121683	9.517376	.1406234	.3150994	1.054441
#1	3.080270	7.394251	.6195069	.0030769	7.931345	6.785499	.0224336
#2	3.058641	7.397060	.6117182	.0032723	7.950184	6.808160	.0227193
#3	3.185063	7.422486	.6210845	.0027066	7.951168	6.828375	.0229088

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-08DLX2 Acquired: 1/24/2025 15:25:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ43 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6183802	.0163210	.5733425
Stddev	.0034039	.0007098	.0031890
%RSD	.5504520	4.348773	.5562159
#1	.6144999	.0155684	.5756421
#2	.6197785	.0169782	.5697020
#3	.6208623	.0164163	.5746834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3441.216	68492.47	10673.39	2389.872	3799.242
Stddev	6.372	521.53	58.74	17.099	7.375
%RSD	.1851692	.7614405	.5503342	.7154907	.1941149
#1	3445.390	68354.87	10733.43	2385.432	3803.971
#2	3444.375	69069.01	10670.68	2408.753	3803.012
#3	3433.881	68053.54	10616.05	2375.430	3790.745

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-09DLX2 Acquired: 1/24/2025 15:29:06 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0587550	-.002258	3.577485	.0187378	.0132646	29.12399	15.03904
Stddev	.0029315	.001197	.006453	.0023930	.0013743	.07074	.21485
%RSD	4.989300	52.99456	.1803767	12.77115	10.36089	.2429061	1.428629
#1	.0570392	-.001136	3.580596	.0176328	.0147373	29.08451	15.15966
#2	.0570859	-.003518	3.570066	.0170968	.0130400	29.20566	15.16648
#3	.0621398	-.002121	3.581793	.0214836	.0120163	29.08180	14.79098

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043494	.0251753	42.73905	.1030008	.0850943	.1936812	102.2590
Stddev	.0001010	.0001240	.06079	.0002358	.0002458	.0012363	.1693
%RSD	2.321488	.4925758	.1422365	.2288881	.2888819	.6383067	.1655397
#1	.0042387	.0253041	42.71745	.1032730	.0849092	.1950945	102.1344
#2	.0043729	.0250567	42.80770	.1028611	.0850005	.1931487	102.4518
#3	.0044365	.0251652	42.69201	.1028684	.0853732	.1928004	102.1909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.689001	12.12204	.0810708	.0022543	.3519997	.1878858	9.792036
Stddev	.005365	.02480	.0006087	.0004055	.1649950	.0016336	.050180
%RSD	.0942962	.2045693	.7508272	17.98795	46.87363	.8694616	.5124536
#1	5.686197	12.11230	.0809237	.0023940	.4792470	.1876255	9.818458
#2	5.695187	12.10359	.0805492	.0025715	.1655776	.1896339	9.823484
#3	5.685621	12.15023	.0817396	.0017974	.4111743	.1863979	9.734166

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.555349	9.555958	.4124045	.0025247	6.093728	5.363562	.0110571
Stddev	.026319	.022234	.0019986	.0002763	.006580	.011009	.0004399
%RSD	.5777674	.2326765	.4846120	10.94307	.1079773	.2052626	3.978429
#1	4.527808	9.549330	.4102475	.0025624	6.095489	5.374247	.0109904
#2	4.580247	9.537792	.4141935	.0027803	6.086447	5.352255	.0106544
#3	4.557992	9.580753	.4127726	.0022316	6.099249	5.364186	.0115266

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-09DLX2 Acquired: 1/24/2025 15:29:06 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ44 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5643910	.0088265	.1140064
Stddev	.0022263	.0009632	.0001888
%RSD	.3944624	10.91255	.1655890
#1	.5668106	.0098542	.1138666
#2	.5639331	.0086809	.1142211
#3	.5624292	.0079444	.1139313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3527.974	69180.38	10292.01	2416.649	3977.057
Stddev	9.170	63.69	21.08	11.940	10.438
%RSD	.2599133	.0920606	.2048579	.4940536	.2624620
#1	3522.425	69212.43	10270.81	2411.838	3970.114
#2	3538.558	69107.04	10312.97	2407.865	3989.061
#3	3522.939	69221.69	10292.24	2430.243	3971.996

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-10DLX2 Acquired: 1/24/2025 15:33:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1105888**	**-.003996**	**4.232780**	**.0311465**	**.0251801**	**45.58239**
Stddev	.0017058	.001224	.003215	.0040143	.0009041	.29595
%RSD	1.542438	30.62183	.0759596	12.88839	3.590577	.6492647
#1	.1094338	-.003696	4.229566	.0283035	.0261523	45.25067
#2	.1125480	-.002951	4.232777	.0357386	.0250234	45.67713
#3	.1097845	-.005342	4.235996	.0293974	.0243645	45.81936

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.99603**	**.0055166**	**.0682762**	**105.6726**	**.1863726**	**.1056703**
Stddev	.37097	.0000071	.0001512	.9840	.0025219	.0003476
%RSD	1.952887	.1285727	.2214380	.9311606	1.353144	.3289178
#1	18.65788	.0055125	.0681089	104.6062	.1837964	.1053405
#2	18.93738	.0055124	.0683168	105.8661	.1864849	.1060332
#3	19.39284	.0055248	.0684030	106.5454	.1888364	.1056373

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4308797**	**159.6734**	**5.349536**	**45.82005**	**.1059656**	**.0030777**
Stddev	.0036928	1.2175	.045497	.42412	.0008775	.0003516
%RSD	.8570416	.7624856	.8504865	.9256146	.8280659	11.42410
#1	.4347210	158.3123	5.302252	45.38047	.1055628	.0029063
#2	.4273559	160.0492	5.353350	45.85287	.1069721	.0034821
#3	.4305621	160.6586	5.393006	46.22680	.1053618	.0028447

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.050552**	**.3319686**	F **36.03767**	**4.073501**	**4.205235**	**.6546947**
Stddev	.299957	.0011377	.45434	.078074	.007541	.0063498
%RSD	593.3653	.3427074	1.260729	1.916642	.1793203	.9698933
#1	-.301464	.3309071	35.60971	3.988815	4.196977	.6475255
#2	.281681	.3318292	35.98885	4.142616	4.206973	.6569476
#3	-.131873	.3331696	36.51444	4.089074	4.211755	.6596108

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-10DLX2 Acquired: 1/24/2025 15:33:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ45 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002187**	**7.628501**	**7.015109**	**.0238288**	**.7026720**	**.0165502**
Stddev	.000312	.015392	.016978	.0009689	.0023157	.0010637
%RSD	14.24375	.2017673	.2420219	4.066121	.3295576	6.426992
#1	-.002391	7.611025	7.007827	.0231730	.7008121	.0154089
#2	-.001829	7.640044	7.002986	.0233718	.7019382	.0175139
#3	-.002342	7.634433	7.034513	.0249417	.7052657	.0167277

Elem	Sr4077
Units	ppm
Avg	**.1641962**
Stddev	.0013823
%RSD	.8418308
#1	.1627034
#2	.1644535
#3	.1654317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.545**	**68860.63**	**10655.41**	**2422.728**	**3649.860**
Stddev	10.330	738.63	32.43	33.132	3.653
%RSD	.3081256	1.072645	.3043960	1.367567	.1000936
#1	3342.371	69497.89	10672.05	2451.553	3646.046
#2	3352.241	69032.92	10676.15	2430.102	3650.206
#3	3363.024	68051.09	10618.03	2386.530	3653.328

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-11DLX2 Acquired: 1/24/2025 15:37:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0777350	-.002692	1.993246	.0262536	.0184452	36.16230	15.94239
Stddev	.0020891	.000567	.004259	.0011958	.0010808	.19834	.13201
%RSD	2.687439	21.06485	.2136875	4.554955	5.859339	.5484755	.8280222
#1	.0764468	-.003218	1.990196	.0261118	.0180014	36.11171	15.99321
#2	.0766127	-.002767	1.991428	.0275140	.0176570	35.99416	15.79253
#3	.0801453	-.002091	1.998112	.0251349	.0196772	36.38104	16.04143

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046661	.0240408	60.09733	.1155111	.0699623	.3186326	122.6227
Stddev	.0000789	.0000929	.36738	.0008217	.0002429	.0028849	.6501
%RSD	1.692094	.3863608	.6113165	.7113841	.3471603	.9053953	.5301758
#1	.0047056	.0240804	60.05935	.1148812	.0698886	.3208773	122.5717
#2	.0045752	.0239347	59.75041	.1152115	.0702335	.3153787	121.9996
#3	.0047175	.0241074	60.48223	.1164406	.0697648	.3196419	123.2968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.262454	10.59404	.0852943	.0015879	.0836229	.2425174	12.11553
Stddev	.030369	.05880	.0001721	.0004557	.2620252	.0040194	.05498
%RSD	.7124822	.5550195	.2017090	28.70170	313.3416	1.657356	.4537590
#1	4.256590	10.57416	.0852351	.0020950	-.050064	.2456548	12.09639
#2	4.235445	10.54776	.0854882	.0014562	-.084594	.2379868	12.07269
#3	4.295328	10.66020	.0851597	.0012125	.385526	.2439106	12.17752

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.609020	5.976611	.5190690	.0014328	7.206069	6.768420	.0105627
Stddev	.045782	.009803	.0034707	.0003764	.031829	.088799	.0003978
%RSD	1.268531	.1640154	.6686301	26.27224	.4416936	1.311965	3.766531
#1	3.576228	5.975912	.5179810	.0018185	7.221989	6.796517	.0102812
#2	3.589508	5.967176	.5162727	.0014135	7.169421	6.668971	.0103889
#3	3.661326	5.986744	.5229533	.0010663	7.226797	6.839772	.0110178

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-11DLX2 Acquired: 1/24/2025 15:37:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6597888	.0111360	.1757442
Stddev	.0063428	.0012771	.0010017
%RSD	.9613452	11.46866	.5699999
#1	.6630795	.0123780	.1758230
#2	.6524769	.0112035	.1747055
#3	.6638101	.0098264	.1767043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.149	70250.43	10254.20	2475.004	3866.525
Stddev	14.460	508.38	115.59	13.501	9.382
%RSD	.4186361	.7236615	1.127256	.5455000	.2426450
#1	3458.422	70561.23	10238.73	2486.408	3866.253
#2	3465.991	70526.29	10376.75	2478.506	3876.039
#3	3438.034	69663.75	10147.12	2460.096	3857.282

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-22DL2X5 Acquired: 1/24/2025 15:41:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ17 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132228	-.000088	.9169695	.0029358	.0035319	3.997076	9.358812
Stddev	.0012503	.002356	.0018482	.0022511	.0016996	.036046	.072752
%RSD	9.455644	2682.177	.2015522	76.67989	48.12163	.9018203	.7773667
#1	.0136679	-.002231	.9148375	.0004331	.0048766	4.027120	9.330311
#2	.0118109	-.000468	.9181164	.0035786	.0016216	3.957107	9.304626
#3	.0141897	.002435	.9179547	.0047955	.0040975	4.007002	9.441500

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007855	.0025031	148.0144	.0406556	.0095880	.0218470	30.12451
Stddev	.0000693	.0001159	1.2611	.0007100	.0003139	.0035493	.26112
%RSD	8.823270	4.628309	.8520113	1.746316	3.273706	16.24604	.8667963
#1	.0008643	.0023705	148.9962	.0410917	.0094309	.0247570	30.32909
#2	.0007340	.0025546	146.5921	.0398364	.0093837	.0178927	29.83040
#3	.0007582	.0025843	148.4548	.0410388	.0099494	.0228911	30.21403

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.319307	59.04160	.0153196	.0006718	.0971369	.0425816	.8218208
Stddev	.015660	.49356	.0002860	.0004103	.3917374	.0003010	.0185813
%RSD	1.186993	.8359557	1.867138	61.07190	403.2840	.7068606	2.260990
#1	1.329304	59.35806	.0154230	.0004048	-.187118	.0428829	.8336880
#2	1.301259	58.47289	.0149962	.0011443	.543990	.0425808	.8004068
#3	1.327358	59.29384	.0155396	.0004664	-.065461	.0422809	.8313675

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1102419	.9992060	.1298918	.0009074	2.886106	1.590912	-.001949
Stddev	.0096746	.0050505	.0002285	.0001234	.002659	.013936	.000788
%RSD	8.775813	.5054541	.1759014	13.60296	.0921164	.8759911	40.41268
#1	.1096990	1.005026	.1299996	.0010140	2.888455	1.604468	-.001157
#2	.1008502	.996616	.1296294	.0007722	2.883220	1.591645	-.001958
#3	.1201766	.995976	.1300465	.0009360	2.886643	1.576624	-.002732

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-22DL2X5 Acquired: 1/24/2025 15:41:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ17 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1046467	.0009569	.1447503
Stddev	.0001001	.0008411	.0015218
%RSD	.0956813	87.89823	1.051314
#1	.1046663	.0000655	.1460596
#2	.1047356	.0010686	.1430807
#3	.1045383	.0017366	.1451105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3166.480	63623.78	9616.952	2212.991	3700.892
Stddev	7.159	386.57	52.637	20.967	4.322
%RSD	.2261011	.6075861	.5473407	.9474301	.1167841
#1	3170.689	63308.51	9642.069	2202.498	3703.339
#2	3170.537	64055.07	9556.461	2237.133	3703.435
#3	3158.213	63507.75	9652.326	2199.343	3695.901

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-10DL2X5 Acquired: 1/24/2025 15:45:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224472	-.001135	.4176185	.0091771	.0056948	13.86575	9.029191
Stddev	.0001061	.001239	.0023946	.0022698	.0011971	1.54530	.950008
%RSD	.4724666	109.2299	.5733918	24.73370	21.02061	11.14471	10.52152
#1	.0224232	.000285	.4160784	.0066000	.0043980	12.84257	8.469775
#2	.0225631	-.001685	.4163998	.0100518	.0067576	13.11134	8.491706
#3	.0223551	-.002004	.4203773	.0108794	.0059287	15.64335	10.12609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016636	.0011383	7.404618	.0526331	.0392595	.0200729	45.18609
Stddev	.0000123	.0001428	.813824	.0066262	.0003402	.0007656	5.01844
%RSD	.7380446	12.54632	10.99076	12.58950	.8664466	3.814052	11.10616
#1	.0016625	.0012286	6.885162	.0482223	.0388981	.0203771	41.91720
#2	.0016519	.0012125	6.986162	.0494242	.0393069	.0192020	42.67681
#3	.0016764	.0009736	8.342530	.0602529	.0395735	.0206396	50.96427

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.291488	3.103998	.0235607	.0014113	.2233694	.0758519	.3730638
Stddev	.372282	.350640	.0006867	.0004779	.3931777	.0007859	.0435360
%RSD	11.31046	11.29641	2.914364	33.86470	176.0213	1.036112	11.66984
#1	3.057246	2.903640	.0232027	.0018866	.5714128	.0758361	.3472023
#2	3.096452	2.899477	.0243524	.0014164	.3018116	.0750740	.3486614
#3	3.720767	3.508875	.0231271	.0009308	-.203116	.0766455	.4233278

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9368658	.7474020	.1746898	.0012189	2.091089	2.493378	.0017672
Stddev	.2905768	.0016031	.0236474	.0001325	.007179	.008257	.0004297
%RSD	31.01584	.2144939	13.53678	10.86841	.3432946	.3311383	24.31604
#1	.7984809	.7461000	.1601584	.0012434	2.083039	2.495442	.0016186
#2	.7413469	.7491926	.1619349	.0010759	2.093402	2.484285	.0022515
#3	1.270770	.7469135	.2019761	.0013374	2.096826	2.500407	.0014316

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1045-10DL2X5 Acquired: 1/24/2025 15:45:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2927951	.0027823	.0853020
Stddev	.0022352	.0023971	.0095126
%RSD	.7633849	86.15661	11.15168
#1	.2938732	.0015272	.0791234
#2	.2902252	.0012732	.0805262
#3	.2942867	.0055463	.0962563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3416.457	62087.75	10130.73	2189.447	4079.041
Stddev	11.998	6457.10	32.63	220.427	12.996
%RSD	.3511729	10.39996	.3220974	10.06771	.3185982
#1	3426.944	66309.55	10109.00	2320.074	4092.725
#2	3419.053	65299.10	10168.25	2313.317	4077.533
#3	3403.373	54654.59	10114.93	1934.949	4066.865

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-01DL2X5 Acquired: 1/24/2025 15:49:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ18 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0238473**	**-.001536**	**1.811434**	**.0103812**	**.0080294**	**7.232178**	**8.363448**
Stddev	.0013908	.000644	.002036	.0008739	.0006300	.025699	.100676
%RSD	5.832202	41.91782	.1123746	8.418194	7.845597	.3553492	1.203760
#1	.0231826	-.001110	1.812499	.0112664	.0083086	7.251351	8.479422
#2	.0229136	-.002277	1.809087	.0095190	.0073081	7.242206	8.312407
#3	.0254458	-.001221	1.812717	.0103584	.0084715	7.202976	8.298515

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009723**	**.0037803**	**14.33455**	**.0867598**	**.0171791**	**.0850341**	**56.42766**
Stddev	.0000372	.0000717	.06412	.0003058	.0002554	.0005445	.24871
%RSD	3.830843	1.896213	.4473065	.3525147	1.486680	.6402754	.4407618
#1	.0009363	.0037881	14.40851	.0870742	.0173161	.0844064	56.69042
#2	.0010107	.0037050	14.30054	.0867418	.0168845	.0853780	56.39666
#3	.0009698	.0038478	14.29461	.0864633	.0173368	.0853180	56.19591

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.010793**	**6.281908**	**.0253665**	**.0010491**	**.4881198**	**.0694941**	**1.264963**
Stddev	.000858	.028161	.0000863	.0003711	.2768539	.0016923	.006152
%RSD	.0848598	.4482800	.3403139	35.37217	56.71843	2.435196	.4863624
#1	1.011573	6.313820	.0253584	.0012635	.7933814	.0675697	1.271663
#2	1.009874	6.271361	.0254567	.0012631	.4177056	.0707501	1.263659
#3	1.010931	6.260544	.0252846	.0006206	.2532724	.0701626	1.259568

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2461913**	**.7749732**	**.2175878**	**.0015111**	**2.728815**	**2.314662**	**.0015998**
Stddev	.0085824	.0014292	.0012829	.0001464	.011109	.002376	.0004042
%RSD	3.486078	.1844240	.5896186	9.685962	.4070870	.1026531	25.26629
#1	.2559621	.7764195	.2190354	.0013602	2.735111	2.311919	.0014647
#2	.2398716	.7735616	.2171367	.0016525	2.715988	2.315988	.0012804
#3	.2427403	.7749384	.2165914	.0015206	2.735344	2.316080	.0020542

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-01DL2X5 Acquired: 1/24/2025 15:49:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ18 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1912582	-.001552	.0693300
Stddev	.0024403	.001743	.0002885
%RSD	1.275917	112.2910	.4161146
#1	.1890904	-.003306	.0695825
#2	.1939011	-.001532	.0693919
#3	.1907832	.000181	.0690156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3334.245	65612.84	9703.711	2301.869	3992.927
Stddev	6.103	490.75	30.541	17.836	12.815
%RSD	.1830351	.7479431	.3147380	.7748630	.3209392
#1	3328.426	65132.36	9684.931	2281.755	3981.051
#2	3340.597	65592.93	9687.250	2308.089	4006.510
#3	3333.711	66113.24	9738.952	2315.762	3991.221

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-11DL2X5 Acquired: 1/24/2025 15:53:46 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ26 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126586	-.000666	.3888923	-.001505	.0025327	2.387693	7.731807
Stddev	.0014814	.001441	.0018169	.001847	.0006155	.013854	.046270
%RSD	11.70270	216.4981	.4672077	122.7552	24.29997	.5802399	.5984387
#1	.0126361	.000638	.3883382	-.003598	.0028709	2.372114	7.680979
#2	.0141511	-.002213	.3874169	-.000812	.0018223	2.392335	7.742961
#3	.0111886	-.000422	.3909218	-.000104	.0029049	2.398631	7.771480

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004149	.0045363	413.7272	.0155934	.0060282	.0207271	15.30383
Stddev	.0000673	.0000255	2.3717	.0006285	.0003650	.0037680	.01547
%RSD	16.22414	.5630675	.5732470	4.030358	6.055293	18.17902	.1010982
#1	.0003386	.0045150	415.9973	.0160266	.0058121	.0207921	15.31693
#2	.0004400	.0045646	413.9186	.0158811	.0064496	.0169271	15.28676
#3	.0004660	.0045293	411.2656	.0148726	.0058227	.0244622	15.30779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5797926	193.9977	.0136799	-.000119	-.037482	.0264772	.8233599
Stddev	.0031102	.2998	.0001398	.000253	.244587	.0013769	.0030311
%RSD	.5364284	.1545533	1.021714	213.3838	652.5381	5.200470	.3681336
#1	.5766031	194.1104	.0135583	.000146	-.319066	.0267041	.8252501
#2	.5828168	193.6579	.0138326	-.000143	.084455	.0250009	.8198638
#3	.5799578	194.2249	.0136487	-.000359	.122164	.0277266	.8249657

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.266389	.4432528	.0605059	.0049877	3.053063	1.258464	-.000395
Stddev	.018608	.0035918	.0001310	.0001387	.009637	.004709	.001466
%RSD	6.985108	.8103239	.2165924	2.781279	.3156543	.3741567	371.2897
#1	-.280901	.4400587	.0603611	.0050878	3.044469	1.253634	-.000791
#2	-.245411	.4471410	.0606165	.0048294	3.051237	1.263041	.001229
#3	-.272854	.4425588	.0605400	.0050460	3.063482	1.258716	-.001622

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1046-11DL2X5 Acquired: 1/24/2025 15:53:46 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ26 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0510285	.0070694	.2266109
Stddev	.0007294	.0009475	.0002312
%RSD	1.429373	13.40329	.1020232
#1	.0515124	.0068638	.2263448
#2	.0501896	.0062416	.2267251
#3	.0513836	.0081029	.2267628

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.534	60180.77	9051.807	2065.242	3338.682
Stddev	7.149	255.68	50.701	5.657	8.996
%RSD	.2431283	.4248603	.5601224	.2739309	.2694572
#1	2945.811	59933.37	9056.950	2062.729	3341.687
#2	2943.393	60164.93	8998.730	2061.277	3345.792
#3	2932.397	60444.00	9099.740	2071.721	3328.568

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-12DLX2 Acquired: 1/24/2025 15:58:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0522118**	**-.002046**	**2.245832**	**.0204384**	**.0126493**	**32.23088**
Stddev	.0018456	.000561	.001085	.0025734	.0009899	.10704
%RSD	3.534863	27.41866	.0483114	12.59092	7.825583	.3320888
#1	.0510266	-.002694	2.246547	.0220562	.0130878	32.34564
#2	.0512706	-.001718	2.246366	.0217880	.0133441	32.13377
#3	.0543383	-.001727	2.244584	.0174709	.0115159	32.21321

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.07441**	**.0046526**	**.0047721**	**59.01462**	**.1291302**	**.1012453**
Stddev	.06954	.0000783	.0000528	.08108	.0006563	.0001249
%RSD	.4941197	1.682631	1.106636	.1373833	.5082315	.1233388
#1	14.14364	.0045705	.0047588	59.10147	.1287412	.1011899
#2	14.00456	.0047264	.0048303	58.94093	.1298879	.1013883
#3	14.07502	.0046609	.0047272	59.00145	.1287615	.1011577

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1369860**	**109.6025**	**6.710786**	**9.968756**	**.0706393**	**.0020697**
Stddev	.0014836	.2976	.008442	.016495	.0004191	.0001187
%RSD	1.083048	.2714966	.1258040	.1654622	.5932281	5.732852
#1	.1367247	109.9062	6.719658	9.957356	.0702174	.0019416
#2	.1385830	109.3115	6.709851	9.961244	.0710555	.0020915
#3	.1356504	109.5897	6.702851	9.987670	.0706448	.0021759

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6444118**	**.1899753**	**1.639539**	**3.250908**	F **19.29164**	**.4366346**
Stddev	.1767125	.0016082	.009124	.046166	.04285	.0013918
%RSD	27.42229	.8465249	.5564978	1.420108	.2221272	.3187650
#1	.6229292	.1916326	1.649982	3.199769	19.33722	.4377479
#2	.4794228	.1898723	1.635524	3.263441	19.25217	.4350741
#3	.8308835	.1884212	1.633111	3.289514	19.28554	.4370818

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-12DLX2 Acquired: 1/24/2025 15:58:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ47 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042433	8.361390	6.649211	.0044079	.6237945	.0076631
Stddev	.0001697	.024365	.017395	.0006137	.0010322	.0014412
%RSD	3.999526	.2914035	.2616153	13.92175	.1654780	18.80705
#1	.0041939	8.381530	6.660193	.0040927	.6247657	.0067437
#2	.0041038	8.334306	6.658286	.0051151	.6239072	.0069214
#3	.0044322	8.368332	6.629155	.0040159	.6227105	.0093240

Elem	Sr4077
Units	ppm
Avg	.1422124
Stddev	.0002547
%RSD	.1790977
#1	.1425065
#2	.1420624
#3	.1420683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3460.007	69293.16	10262.88	2420.121	3870.193
Stddev	1.513	48.66	24.27	12.097	5.988
%RSD	.0437247	.0702290	.2365319	.4998375	.1547188
#1	3460.848	69237.61	10266.09	2407.253	3869.092
#2	3458.261	69313.63	10237.16	2421.847	3876.655
#3	3460.914	69328.25	10285.39	2431.261	3864.832

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV015 Acquired: 1/24/2025 16:02:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.676805**	**4.818937**	**24.05417**	**4.677554**	**4.752173**	**378.9722**
Stddev	.014370	.027492	.05002	.021454	.014636	4.8637
%RSD	.3072566	.5705054	.2079566	.4586558	.3079930	1.283404
#1	4.665789	4.809072	23.99750	4.653671	4.735272	382.0426
#2	4.671568	4.797739	24.07286	4.683796	4.760661	381.5096
#3	4.693059	4.850001	24.09216	4.695194	4.760586	373.3645

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.375435**	**.5101516**	**2.437254**	**375.4028**	**15.33464**	**2.432188**
Stddev	.131527	.0038493	.006641	1.5963	.03893	.005336
%RSD	1.402895	.7545374	.2724810	.4252317	.2538734	.2193742
#1	9.315182	.5109483	2.429760	377.2461	15.33491	2.426035
#2	9.284827	.5059664	2.439597	374.4920	15.29558	2.434988
#3	9.526295	.5135403	2.442407	374.4705	15.37344	2.435540

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.01313**	**383.4309**	**13.97666**	**375.1466**	**2.426431**	**1.256694**
Stddev	.02181	.5072	.02008	.3210	.005790	.003770
%RSD	.1556609	.1322667	.1436447	.0855687	.2386158	.2999814
#1	14.02031	383.8666	13.99174	375.3766	2.419767	1.256554
#2	13.98863	383.5519	13.98437	375.2834	2.429301	1.252996
#3	14.03044	382.8742	13.95387	374.7799	2.430225	1.260532

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**363.8501**	**2.378882**	**14.18812**	**146.1536**	**4.955663**	F **5.932318**
Stddev	1.6098	.006371	.04262	.2781	.016094	.032252
%RSD	.4424388	.2678290	.3004252	.1903086	.3247514	.5436631
#1	363.4984	2.379659	14.23361	146.2496	4.937181	5.931127
#2	362.4453	2.372158	14.14910	146.3710	4.966587	5.900678
#3	365.6067	2.384829	14.18166	145.8401	4.963219	5.965148

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV015 Acquired: 1/24/2025 16:02:11 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV015 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.743954**	**4.843807**	**4.767802**	**4.891813**	**4.738033**	**4.611217**
Stddev	.014371	.018724	.022355	.008580	.016876	.015441
%RSD	.3029385	.3865493	.4688713	.1754005	.3561845	.3348674
#1	4.727383	4.823925	4.775728	4.881906	4.753463	4.619811
#2	4.753002	4.846392	4.742564	4.896879	4.720011	4.620450
#3	4.751477	4.861104	4.785113	4.896653	4.740626	4.593391

Elem	Sr4077
Units	ppm
Avg	**4.659530**
Stddev	.052946
%RSD	1.136294
#1	4.676614
#2	4.600151
#3	4.701825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2705.887**	**56691.88**	**8974.290**	**1977.584**	**3138.016**
Stddev	7.290	173.70	66.505	9.372	6.277
%RSD	.2694157	.3064017	.7410624	.4739268	.2000248
#1	2712.871	56718.02	8978.113	1973.601	3143.771
#2	2698.325	56851.03	9038.802	1988.290	3131.323
#3	2706.465	56506.58	8905.956	1970.860	3138.956

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB015 Acquired: 1/24/2025 16:06:29 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027193	.0009813	.0001432	-.000859	.0002457	.0077208	-.004576
Stddev	.0022030	.0008443	.0010212	.002336	.0005611	.0066805	.000743
%RSD	81.01181	86.04268	713.1860	272.0152	228.3153	86.52617	16.23107
#1	.0028686	.0011184	.0008615	.001304	.0000265	.0001239	-.005431
#2	.0004455	.0017486	-.001026	-.000544	-.000173	.0126789	-.004089
#3	.0048438	.0000768	.000594	-.003336	.000883	.0103596	-.004209

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000011	.0000128	.0137953	.0003166	.0001881	.0000800	.0126694
Stddev	.000065	.0000083	.0074684	.0002348	.0001250	.0023217	.0050401
%RSD	593.8172	64.36429	54.13726	74.14756	66.46124	2903.711	39.78141
#1	.000043	.0000223	.0056751	.0005277	.0002882	.0022614	.0086242
#2	.000008	.0000069	.0203701	.0000638	.0002282	.0003388	.0110686
#3	-.000084	.0000093	.0153408	.0003584	.0000480	-.002360	.0183155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000155	-.013255	.0001448	.0001342	-.104795	.0017186	-.001345
Stddev	.000230	.020536	.0001034	.0005113	.218928	.0035317	.002246
%RSD	148.7028	154.9379	71.37126	381.0540	208.9107	205.5036	166.9240
#1	-.000419	-.027072	.0002575	.0004926	.147646	-.001041	-.000016
#2	-.000049	.010344	.0000543	-.000451	-.242615	.005699	-.003938
#3	.000003	-.023036	.0001227	.000361	-.219416	.000498	-.000082

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.415351	.0021145	-.006999	-.000484	.0018431	.0020462	.0000708
Stddev	.023355	.0006315	.000775	.000118	.0027578	.0013390	.0002517
%RSD	5.622926	29.86467	11.06873	24.31187	149.6278	65.43864	355.6367
#1	-.394322	.0027632	-.006222	-.000619	.0008178	.0035767	-.000182
#2	-.440487	.0020784	-.007771	-.000404	.0049667	.0014702	.000074
#3	-.411244	.0015018	-.007005	-.000430	-.000255	.0010916	.000321

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB015 Acquired: 1/24/2025 16:06:29 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB015 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000404**	**-.003671**	**.0000942**
Stddev	.000413	.000668	.0000486
%RSD	102.1954	18.20805	51.60652
#1	-.000102	-.003099	.0000437
#2	-.000236	-.003508	.0001407
#3	-.000875	-.004406	.0000981

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3418.432**	**67550.64**	**9415.703**	**2399.743**	**4201.912**
Stddev	3.821	114.96	12.968	10.331	3.820
%RSD	.1117869	.1701836	.1377294	.4304994	.0909051
#1	3422.258	67663.97	9420.684	2411.116	4198.084
#2	3414.615	67434.12	9400.983	2397.172	4201.928
#3	3418.423	67553.84	9425.443	2390.940	4205.723

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-21 Acquired: 1/24/2025 16:10:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.637110**	**1.900970**	**1.545395**	**.8538515**	**1.064951**	**47.57231**
Stddev	.004027	.028907	.007693	.0063646	.006256	.36410
%RSD	.2459960	1.520642	.4978321	.7453972	.5874798	.7653586
#1	1.632669	1.868135	1.536954	.8468732	1.058600	47.98573
#2	1.638136	1.912192	1.547215	.8593371	1.065146	47.29941
#3	1.640525	1.922584	1.552015	.8553441	1.071108	47.43179

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.348571**	F **1.513988**	**1.105004**	**52.22986**	**2.556951**	**1.773693**
Stddev	.023792	.010477	.006875	.34864	.005551	.006868
%RSD	.7105084	.6920325	.6221937	.6675108	.2170781	.3872199
#1	3.375864	1.501891	1.097085	52.60336	2.559366	1.765804
#2	3.332211	1.519964	1.108475	51.91302	2.550602	1.776943
#3	3.337639	1.520111	1.109452	52.17319	2.560886	1.778333

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.208012**	**67.30403**	**3.984116**	**15.17705**	**1.160294**	**.4581630**
Stddev	.003945	.49040	.022652	.07824	.005124	.0003637
%RSD	.3265386	.7286405	.5685557	.5155299	.4415851	.0793941
#1	1.204418	67.85481	4.009807	15.26610	1.154417	.4584916
#2	1.207386	66.91472	3.967014	15.14570	1.162639	.4577722
#3	1.212233	67.14256	3.975529	15.11933	1.163825	.4582253

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.330445**	**1.169800**	**3.561073**	**10.96092**	**2.217731**	**2.300769**
Stddev	.297397	.005761	.026663	.09041	.010629	.012527
%RSD	6.867589	.4924615	.7487480	.8248797	.4792661	.5444862
#1	4.020589	1.163189	3.588221	11.06522	2.206352	2.286655
#2	4.613580	1.173749	3.534922	10.90483	2.219439	2.310571
#3	4.357166	1.172461	3.560076	10.91271	2.227403	2.305081

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-21 Acquired: 1/24/2025 16:10:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4908485	.5181324	5.401004	1.042590	2.537792	1.077317
Stddev	.0014008	.0030285	.012879	.003029	.003847	.004050
%RSD	.2853807	.5845090	.2384641	.2905205	.1515698	.3759016
#1	.4895824	.5178838	5.414046	1.039329	2.536830	1.081769
#2	.4906098	.5152358	5.388294	1.043124	2.542028	1.073853
#3	.4923533	.5212776	5.400673	1.045316	2.534518	1.076328

Elem	Sr4077
Units	ppm
Avg	1.918414
Stddev	.017090
%RSD	.8908162
#1	1.919970
#2	1.900599
#3	1.934672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3501.500	69470.77	10747.46	2418.271	3921.678
Stddev	8.404	136.27	74.31	5.640	14.656
%RSD	.2400191	.1961543	.6914302	.2332377	.3737120
#1	3510.440	69347.81	10833.25	2415.547	3938.165
#2	3500.298	69617.28	10706.10	2424.756	3916.738
#3	3493.761	69447.23	10703.03	2414.510	3910.130

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1043-15 Acquired: 1/24/2025 16:14:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPL7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.490352**	**1.383322**	**2.361093**	**2.732982**	**.9515214**	**35.19442**
Stddev	.007765	.007974	.005001	.010452	.0036190	.31922
%RSD	.3117839	.5764610	.2117987	.3824346	.3803336	.9070308
#1	2.484621	1.385732	2.356312	2.728434	.9495297	35.52096
#2	2.487245	1.389814	2.360678	2.725574	.9493357	34.88306
#3	2.499188	1.374421	2.366288	2.744937	.9556987	35.17923

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.113044**	F **1.799288**	**1.021020**	**56.91297**	**2.639977**	**1.666612**
Stddev	.028316	.019809	.001419	.44881	.000812	.005647
%RSD	.9095894	1.100930	.1389699	.7885847	.0307593	.3388457
#1	3.141250	1.778639	1.019985	57.41577	2.639608	1.661615
#2	3.084620	1.818134	1.020439	56.55285	2.640909	1.665482
#3	3.113262	1.801091	1.022638	56.77027	2.639416	1.672738

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.141244**	**59.94129**	**3.040649**	**14.63747**	**3.635338**	**.8281432**
Stddev	.009114	.54231	.023802	.10019	.010432	.0013526
%RSD	.4256436	.9047348	.7827914	.6844546	.2869511	.1633339
#1	2.130796	60.52474	3.065515	14.74630	3.626589	.8266472
#2	2.147560	59.45262	3.018077	14.54907	3.632543	.8292800
#3	2.145376	59.84651	3.038355	14.61703	3.646883	.8285024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.088435**	**1.873442**	**2.547677**	**16.34733**	**2.269229**	**1.702103**
Stddev	.378336	.006692	.021848	.14887	.002334	.008602
%RSD	9.253801	.3571769	.8575746	.9106658	.1028697	.5053837
#1	4.198491	1.871549	2.563109	16.51301	2.266670	1.692405
#2	4.399539	1.880876	2.522677	16.22481	2.271243	1.708813
#3	3.667273	1.867900	2.557245	16.30418	2.269774	1.705090

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1043-15 Acquired: 1/24/2025 16:14:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCPL7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001709**	**.4570423**	**2.123928**	**1.056086**	**1.173323**	**.9641793**
Stddev	.003217	.0011227	.005437	.004323	.003829	.0075984
%RSD	.3211079	.2456372	.2559979	.4093060	.3263424	.7880647
#1	.998728	.4558663	2.126587	1.052948	1.171507	.9727969
#2	1.001279	.4571579	2.127524	1.061017	1.170740	.9584432
#3	1.005118	.4581027	2.117673	1.054295	1.177723	.9612977

Elem	Sr4077
Units	ppm
Avg	**.8793968**
Stddev	.0085207
%RSD	.9689232
#1	.8878856
#2	.8708446
#3	.8794602

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3463.019**	**69149.46**	**10760.85**	**2405.670**	**3868.403**
Stddev	9.950	192.38	85.73	5.561	12.540
%RSD	.2873268	.2782120	.7967116	.2311482	.3241546
#1	3473.213	68927.69	10846.02	2405.361	3881.539
#2	3462.512	69249.27	10674.56	2411.379	3867.108
#3	3453.332	69271.43	10761.98	2400.270	3856.561

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-13DLX2 Acquired: 1/24/2025 16:18:19 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0703712**	**-.002508**	**3.636223**	**.0266725**	**.0151649**	**43.10130**	**17.12742**
Stddev	.0019611	.000715	.006732	.0017277	.0009826	.17066	.25841
%RSD	2.786794	28.51944	.1851415	6.477556	6.479419	.3959544	1.508749
#1	.0706330	-.001895	3.630119	.0280301	.0156211	43.24358	17.09440
#2	.0682923	-.002336	3.635108	.0272597	.0158365	43.14825	16.88710
#3	.0721882	-.003294	3.643444	.0247277	.0140372	42.91208	17.40075

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062042**	**.0249063**	**139.0216**	**.1283178**	**.0925346**	**.2532544**	**129.1864**
Stddev	.0000867	.0000387	.4134	.0002499	.0003334	.0019527	.5209
%RSD	1.397699	.1553787	.2973979	.1947866	.3602567	.7710381	.4031926
#1	.0063014	.0248966	139.3239	.1284690	.0923161	.2543483	129.7088
#2	.0061346	.0248734	139.1904	.1280293	.0923695	.2544149	129.1833
#3	.0061768	.0249489	138.5504	.1284552	.0929183	.2509999	128.6671

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.497766**	**55.34729**	**.1194088**	**.0043218**	**.2635832**	**.2152148**	**3.736405**
Stddev	.021046	.25356	.0003200	.0002341	.2383955	.0024278	.014856
%RSD	.2806908	.4581192	.2679488	5.415600	90.44410	1.128074	.3975942
#1	7.514464	55.51153	.1190653	.0041530	.5304774	.2138130	3.752891
#2	7.504708	55.47508	.1194629	.0042234	.1885142	.2180181	3.732268
#3	7.474127	55.05527	.1196983	.0045890	.0717579	.2138132	3.724056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.269549**	**4.886556**	**.5511539**	**.0043622**	**7.243805**	**7.148416**	**.0177385**
Stddev	.057355	.006598	.0022419	.0004041	.021193	.007859	.0004753
%RSD	1.343340	.1350268	.4067686	9.263049	.2925735	.1099437	2.679676
#1	4.335478	4.879027	.5533156	.0048187	7.219416	7.141019	.0182376
#2	4.231153	4.891331	.5513066	.0040503	7.257744	7.156667	.0172912
#3	4.242015	4.889310	.5488395	.0042176	7.254255	7.147560	.0176869

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-13DLX2 Acquired: 1/24/2025 16:18:19 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ48 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6386445	.0216713	.1644456
Stddev	.0033256	.0010632	.0009169
%RSD	.5207252	4.905837	.5575686
#1	.6358618	.0214943	.1651838
#2	.6423276	.0207077	.1647337
#3	.6377442	.0228118	.1634192

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.955	67310.37	10635.52	2361.015	3697.719
Stddev	8.631	87.30	43.77	11.467	3.070
%RSD	.2549850	.1297036	.4115824	.4856977	.0830147
#1	3388.190	67236.51	10676.13	2348.470	3698.534
#2	3391.502	67406.72	10641.26	2363.618	3700.299
#3	3375.174	67287.88	10589.15	2370.957	3694.324

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-14DLX2 Acquired: 1/24/2025 16:22:22 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0738079	-.002970	1.974073	.0298902	.0208887	43.89409	17.07615
Stddev	.0015231	.002272	.011192	.0036770	.0014225	.23930	.14244
%RSD	2.063542	76.48959	.5669588	12.30153	6.809918	.5451764	.8341640
#1	.0749251	-.004429	1.969543	.0317025	.0196167	43.96164	17.20484
#2	.0744256	-.004129	1.965856	.0256589	.0224247	44.09235	17.10050
#3	.0720730	-.000353	1.986820	.0323092	.0206246	43.62827	16.92310

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043335	.0148801	186.8788	.1438407	.0804661	.2311172	161.7787
Stddev	.0000939	.0000710	.6054	.0008041	.0003220	.0006156	.7789
%RSD	2.166180	.4774240	.3239396	.5590459	.4001481	.2663595	.4814835
#1	.0043462	.0148460	187.0212	.1434359	.0801161	.2304979	161.8315
#2	.0042339	.0148325	187.4003	.1447668	.0805325	.2317290	162.5299
#3	.0044204	.0149617	186.2149	.1433194	.0807497	.2311247	160.9747

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.196838	91.00819	.1102107	.0047933	.0575652	.2402495	5.243570
Stddev	.015325	.27758	.0004741	.0001957	.3374285	.0004302	.016508
%RSD	.2948893	.3050043	.4301479	4.083082	586.1679	.1790468	.3148152
#1	5.206198	90.98754	.1097481	.0050088	-.191692	.2400623	5.225437
#2	5.205164	91.29552	.1101884	.0047445	.441541	.2399446	5.247548
#3	5.179153	90.74152	.1106955	.0046266	-.077153	.2407415	5.257725

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.367730	4.431640	.6760212	.0045957	6.050927	7.289373	.0794313
Stddev	.109661	.007080	.0029921	.0002649	.029143	.014873	.0001204
%RSD	2.042959	.1597686	.4426090	5.764230	.4816214	.2040400	.1515206
#1	5.380349	4.423559	.6771244	.0044439	6.028030	7.295463	.0795698
#2	5.470535	4.434607	.6783051	.0044417	6.041018	7.272421	.0793728
#3	5.252306	4.436754	.6726341	.0049016	6.083732	7.300235	.0793515

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-14DLX2 Acquired: 1/24/2025 16:22:22 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ49 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7343938	.0205674	.1793322
Stddev	.0010605	.0004719	.0006478
%RSD	.1443988	2.294263	.3612077
#1	.7331886	.0210679	.1796573
#2	.7348089	.0205036	.1797530
#3	.7351840	.0201306	.1785863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3237.561	65530.56	10491.56	2287.398	3552.737
Stddev	8.030	44.91	43.77	1.742	11.170
%RSD	.2480178	.0685270	.4171661	.0761628	.3144140
#1	3232.223	65488.12	10496.11	2288.441	3559.600
#2	3246.795	65525.98	10532.87	2288.368	3558.763
#3	3233.665	65577.58	10445.69	2285.387	3539.848

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-15DLX2 Acquired: 1/24/2025 16:26:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0456302**	**-.004475**	**7.967059**	**.0186452**	**.0165171**	**12.82733**
Stddev	.0008266	.000355	.012736	.0045081	.0010753	.03642
%RSD	1.811555	7.931080	.1598579	24.17852	6.510027	.2839185
#1	.0451133	-.004841	7.970707	.0230594	.0173047	12.80450
#2	.0451937	-.004132	7.952897	.0188277	.0169545	12.86933
#3	.0465835	-.004453	7.977573	.0140486	.0152920	12.80817

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.800097**	**.0041021**	**.1078435**	**506.7363**	**.0861390**	**.1189795**
Stddev	.131758	.0001018	.0004182	1.2511	.0001094	.0002709
%RSD	1.344452	2.481915	.3877581	.2468878	.1269627	.2276472
#1	9.951148	.0039853	.1076914	505.9415	.0862029	.1188996
#2	9.708828	.0041482	.1075227	508.1784	.0860128	.1187577
#3	9.740317	.0041726	.1083164	506.0890	.0862014	.1192814

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5652450**	**130.7668**	**10.61120**	**226.2424**	**.1262113**	**.0115843**
Stddev	.0048040	.3807	.04386	.7154	.0003598	.0001333
%RSD	.8499047	.2911086	.4133631	.3162186	.2851046	1.150482
#1	.5655991	130.8147	10.61132	226.2132	.1265160	.0117058
#2	.5602737	131.1213	10.65500	226.9720	.1258143	.0114417
#3	.5698622	130.3644	10.56728	225.5421	.1263036	.0116054

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.241920**	**.0865058**	**7.637454**	**1.072081**	**2.432768**	**.5462096**
Stddev	.176684	.0028626	.035389	.015614	.012122	.0014215
%RSD	73.03428	3.309160	.4633640	1.456432	.4982664	.2602387
#1	-.093959	.0851627	7.606567	1.089805	2.419723	.5476186
#2	-.437547	.0845617	7.676068	1.066081	2.434896	.5462343
#3	-.194253	.0897930	7.629727	1.060356	2.443684	.5447760

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-15DLX2 Acquired: 1/24/2025 16:26:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018854	F 13.50762	4.877162	.0042926	.2887671	.0161490
Stddev	.0007243	.05700	.013623	.0006955	.0003193	.0024107
%RSD	38.41603	.4220144	.2793132	16.20329	.1105852	14.92771
#1	.0011251	13.48342	4.880437	.0050426	.2887848	.0178699
#2	.0025673	13.46671	4.862201	.0036689	.2884392	.0171834
#3	.0019637	13.57273	4.888849	.0041662	.2890771	.0133938

Elem	Sr4077
Units	ppm
Avg	.2192972
Stddev	.0011494
%RSD	.5241133
#1	.2194053
#2	.2203887
#3	.2180976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3139.190	63170.46	10121.48	2184.134	3395.781
Stddev	3.438	176.02	31.23	6.929	6.774
%RSD	.1095075	.2786480	.3085407	.3172538	.1994693
#1	3137.013	63239.44	10151.45	2191.967	3394.588
#2	3143.153	62970.40	10123.85	2178.802	3403.072
#3	3137.404	63301.55	10089.13	2181.634	3389.683

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-17DLX2 Acquired: 1/24/2025 16:30:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0541440**	**-.004276**	**2.640388**	**.0186053**	**.0130887**	**31.87984**	**16.59315**
Stddev	.0028275	.001363	.007386	.0040492	.0015689	.18329	.19509
%RSD	5.222278	31.87068	.2797440	21.76387	11.98663	.5749502	1.175738
#1	.0568310	-.005847	2.632671	.0210455	.0138391	32.08449	16.41596
#2	.0511942	-.003410	2.641102	.0139312	.0141414	31.82425	16.80222
#3	.0544068	-.003572	2.647392	.0208393	.0112855	31.73078	16.56128

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046819**	**.0212111**	**82.82945**	**.2645420**	**.0729339**	**.1686854**	**99.43321**
Stddev	.0000267	.0000858	.30141	.0010356	.0001601	.0011087	.52008
%RSD	.5707100	.4046539	.3638923	.3914841	.2194640	.6572750	.5230432
#1	.0046693	.0211617	83.16188	.2657378	.0730461	.1676940	100.0215
#2	.0047126	.0211615	82.57399	.2639446	.0727506	.1698826	99.2434
#3	.0046637	.0213102	82.75247	.2639434	.0730050	.1684796	99.0347

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.809070**	**33.25965**	**.0943513**	**.0018824**	**.5594387**	**.1762220**	**2.138443**
Stddev	.016232	.24170	.0003777	.0003157	.2247657	.0022855	.008317
%RSD	.3375276	.7266992	.4003416	16.77341	40.17700	1.296970	.3889135
#1	4.821023	33.53416	.0939950	.0015192	.3098170	.1761462	2.146269
#2	4.790591	33.16598	.0943115	.0020919	.7457829	.1739753	2.129710
#3	4.815596	33.07880	.0947473	.0020360	.6227160	.1785445	2.139349

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.182148**	**3.811515**	**.4121872**	**.0041474**	**6.820533**	**7.121133**	**.0394557**
Stddev	.056741	.021125	.0023222	.0002405	.022629	.021374	.0011760
%RSD	1.783104	.5542412	.5633811	5.800009	.3317757	.3001419	2.980422
#1	3.244820	3.800505	.4148685	.0038774	6.844528	7.133271	.0395524
#2	3.167357	3.798169	.4108749	.0043391	6.799577	7.096454	.0382345
#3	3.134267	3.835871	.4108183	.0042256	6.817493	7.133674	.0405804

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-17DLX2 Acquired: 1/24/2025 16:30:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6254493	.0119251	.1271723
Stddev	.0014804	.0008158	.0003337
%RSD	.2366929	6.841261	.2623598
#1	.6268201	.0116057	.1275015
#2	.6238795	.0128523	.1268343
#3	.6256482	.0113173	.1271810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3427.958	68819.18	10084.89	2449.433	3809.941
Stddev	5.621	244.90	16.54	8.508	4.064
%RSD	.1639640	.3558529	.1640075	.3473490	.1066699
#1	3422.354	68536.48	10065.82	2440.140	3810.994
#2	3433.595	68966.51	10093.63	2456.839	3805.454
#3	3427.924	68954.53	10095.24	2451.321	3813.374

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-18DLX2 Acquired: 1/24/2025 16:34:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0621058	-.001068	2.673122	.0251433	.0155752	36.06993	16.73101
Stddev	.0018442	.000718	.016280	.0053513	.0014520	.06318	.11742
%RSD	2.969497	67.21117	.6090100	21.28308	9.322496	.1751710	.7018091
#1	.0600192	-.001510	2.666527	.0268500	.0147327	36.11108	16.81297
#2	.0635178	-.001453	2.661174	.0294332	.0147411	35.99718	16.59649
#3	.0627803	-.000240	2.691664	.0191469	.0172518	36.10151	16.78357

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044664	.0164608	108.2246	.1299100	.0679644	.2503457	122.1549
Stddev	.0000329	.0000660	.2898	.0002452	.0005574	.0029520	.3620
%RSD	.7358135	.4011123	.2677783	.1887552	.8201550	1.179154	.2963275
#1	.0045042	.0165209	108.2929	.1301929	.0676158	.2536857	122.3331
#2	.0044503	.0164713	107.9067	.1297794	.0676701	.2480863	121.7384
#3	.0044448	.0163901	108.4741	.1297577	.0686072	.2492651	122.3932

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.827861	45.61613	.1194151	.0033129	.3901493	.1816072	4.184757
Stddev	.012029	.05604	.0003604	.0006483	.3624030	.0007631	.005266
%RSD	.2491582	.1228465	.3018306	19.57012	92.88827	.4202200	.1258371
#1	4.828330	45.61600	.1193202	.0034559	.7912412	.1808535	4.179634
#2	4.815604	45.56016	.1191117	.0026050	.2929468	.1823795	4.190155
#3	4.839649	45.67223	.1198135	.0038778	.0862600	.1815886	4.184480

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.756483	6.066346	.5190958	.0037313	6.401556	6.856431	.0195321
Stddev	.082374	.025820	.0011347	.0002781	.032225	.014059	.0008458
%RSD	2.192851	.4256296	.2185813	7.452770	.5033941	.2050426	4.330079
#1	3.822310	6.047072	.5197754	.0034920	6.380411	6.846404	.0199497
#2	3.783030	6.056283	.5177859	.0040363	6.385612	6.872501	.0185588
#3	3.664109	6.095682	.5197261	.0036655	6.438645	6.850388	.0200879

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-18DLX2 Acquired: 1/24/2025 16:34:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6742760	.0172117	.1725024
Stddev	.0014596	.0008482	.0006654
%RSD	.2164748	4.928253	.3857324
#1	.6727024	.0177533	.1724256
#2	.6755857	.0162341	.1718787
#3	.6745399	.0176476	.1732028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3364.395	67209.53	10392.81	2376.444	3745.746
Stddev	15.361	240.82	5.74	3.728	15.367
%RSD	.4565878	.3583130	.0552047	.1568628	.4102431
#1	3372.924	66990.28	10392.55	2373.405	3748.479
#2	3373.599	67467.29	10387.22	2380.604	3759.563
#3	3346.661	67171.03	10398.68	2375.324	3729.196

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-19DLX2 Acquired: 1/24/2025 16:38:42 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1056084	-.002802	3.720379	.0268507	.0179727	42.30559	17.38557
Stddev	.0015362	.002170	.014627	.0038486	.0009371	.26002	.04210
%RSD	1.454581	77.45259	.3931494	14.33312	5.213871	.6146290	.2421284
#1	.1038363	-.000296	3.711383	.0268482	.0190034	42.58145	17.33896
#2	.1065629	-.004065	3.712498	.0307005	.0177426	42.06500	17.42082
#3	.1064259	-.004046	3.737256	.0230034	.0171722	42.27033	17.39694

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045448	.0235641	105.3698	.1938491	.0779476	.7241574	132.9054
Stddev	.0001152	.0001606	.3936	.0003645	.0006086	.0094865	.7403
%RSD	2.534827	.6815822	.3735000	.1880081	.7808247	1.310009	.5570170
#1	.0044453	.0233787	105.8180	.1942534	.0774449	.7232020	133.7046
#2	.0046710	.0236600	105.0808	.1937479	.0777736	.7340855	132.2430
#3	.0045182	.0236536	105.2106	.1935459	.0786243	.7151848	132.7687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.381449	41.82916	.1265439	.0111976	1.303030	.1881059	5.973053
Stddev	.020444	.18803	.0011404	.0000891	.215666	.0005828	.020747
%RSD	.3799011	.4495122	.9012000	.7956403	16.55115	.3098529	.3473450
#1	5.404498	42.00370	.1261457	.0112684	1.501549	.1887325	5.994974
#2	5.374343	41.63005	.1256561	.0110976	1.333980	.1875798	5.970462
#3	5.365507	41.85372	.1278301	.0112269	1.073560	.1880055	5.953723

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.678361	7.346560	.5608103	.0039359	7.117124	7.176235	.0345724
Stddev	.026846	.032425	.0036199	.0000457	.044323	.025780	.0006326
%RSD	.5738321	.4413583	.6454857	1.161598	.6227611	.3592400	1.829770
#1	4.674782	7.327591	.5649741	.0038843	7.077452	7.163062	.0349567
#2	4.706818	7.328089	.5584099	.0039712	7.108959	7.205940	.0349183
#3	4.653485	7.384000	.5590471	.0039523	7.164962	7.159703	.0338423

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-19DLX2 Acquired: 1/24/2025 16:38:42 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ54 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7912889	.0224795	.1771400
Stddev	.0040839	.0012012	.0008325
%RSD	.5161012	5.343653	.4699647
#1	.7897576	.0238433	.1781007
#2	.7959172	.0220163	.1766871
#3	.7881921	.0215788	.1766321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3416.825	67600.42	10670.04	2360.082	3796.778
Stddev	14.008	133.20	55.79	7.934	9.649
%RSD	.4099839	.1970443	.5228626	.3361820	.2541453
#1	3415.026	67451.04	10722.80	2352.588	3800.298
#2	3431.647	67706.86	10611.65	2368.393	3804.172
#3	3403.804	67643.35	10675.67	2359.264	3785.862

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-20DLX2 Acquired: 1/24/2025 16:42:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0744568	-.003786	2.346682	.0338391	.0169724	57.80353	15.28266
Stddev	.0019825	.001768	.007603	.0032865	.0012569	.38598	.12934
%RSD	2.662663	46.71215	.3239884	9.712032	7.405680	.6677460	.8463127
#1	.0722740	-.005068	2.339164	.0300776	.0161920	57.36125	15.22495
#2	.0749508	-.001768	2.346515	.0352853	.0163028	58.07234	15.43080
#3	.0761456	-.004521	2.354367	.0361545	.0184224	57.97699	15.19222

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058068	.0151938	138.1967	.1439016	.1013957	1.859653	150.1366
Stddev	.0000158	.0001530	.7224	.0006980	.0006397	.013320	.9381
%RSD	.2727919	1.006931	.5227263	.4850181	.6309153	.7162612	.6248040
#1	.0058251	.0152865	137.3632	.1431018	.1015203	1.845543	149.0575
#2	.0057979	.0150172	138.6419	.1443874	.1007028	1.872010	150.7575
#3	.0057975	.0152776	138.5850	.1442156	.1019639	1.861405	150.5946

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.755083	61.74267	.1363682	.0055790	.0375943	.2405016	2.776078
Stddev	.027955	.24649	.0001853	.0001316	.3037364	.0003189	.014448
%RSD	.4138351	.3992160	.1358761	2.358244	807.9332	.1326139	.5204594
#1	6.723576	61.46562	.1363548	.0055250	.3073924	.2401373	2.761361
#2	6.776915	61.82474	.1365598	.0054831	-.291373	.2407307	2.790242
#3	6.764759	61.93765	.1361899	.0057290	.096763	.2406366	2.776631

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.522795	7.497062	.6306334	.0054896	6.546747	7.067312	.0354412
Stddev	.070145	.008841	.0043427	.0005520	.010581	.040700	.0009332
%RSD	.8230296	.1179324	.6886190	10.05595	.1616199	.5758925	2.633189
#1	8.443064	7.487012	.6257850	.0061005	6.536400	7.020933	.0344092
#2	8.550310	7.500533	.6341659	.0050267	6.546295	7.097079	.0356886
#3	8.575012	7.503642	.6319492	.0053415	6.557547	7.083924	.0362258

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1047-20DLX2 Acquired: 1/24/2025 16:42:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ55 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8073480	.0286632	.1737993
Stddev	.0050239	.0002000	.0008765
%RSD	.6222732	.6975701	.5043352
#1	.8015496	.0288926	.1727873
#2	.8104011	.0285708	.1742899
#3	.8100933	.0285262	.1743208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.954	67782.74	10836.68	2364.364	3601.154
Stddev	.820	266.49	49.52	15.877	4.360
%RSD	.0246270	.3931560	.4569518	.6715239	.1210713
#1	3328.167	68089.65	10892.11	2382.291	3606.164
#2	3327.050	67610.00	10796.82	2352.076	3599.080
#3	3328.647	67648.57	10821.10	2358.725	3598.218

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163TB Acquired: 1/24/2025 16:46:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB163 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000803**	**.0004508**	**-.000778**	**-.001186**	**-.000277**	**.0269071**
Stddev	.001493	.0017617	.000506	.003562	.000585	.0040137
%RSD	185.8946	390.7508	65.07387	300.3131	211.0991	14.91678
#1	-.001576	.0002748	-.000240	-.002097	-.000104	.0226204
#2	.000918	.0022939	-.001245	-.004205	-.000930	.0305761
#3	-.001751	-.001216	-.000848	.002743	.000202	.0275248

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001600**	**-.000022**	**-.000001**	**.0336239**	**.0004756**	**.0004464**
Stddev	.000346	.000044	.000059	.0087216	.0003917	.0002188
%RSD	21.60522	195.9583	7277.382	25.93865	82.34565	49.01167
#1	-.001423	-.000066	-.000005	.0288866	.0001634	.0006152
#2	-.001999	.000021	-.000058	.0436889	.0003484	.0005248
#3	-.001380	-.000022	.000060	.0282961	.0009151	.0001992

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007175**	**.0251412**	**.0116566**	**-.003343**	**.0001329**	**.0001861**
Stddev	.0024941	.0036913	.0003496	.016878	.0004638	.0004103
%RSD	347.6051	14.68250	2.999064	504.9451	348.9471	220.4088
#1	-.001710	.0255031	.0120568	.015896	-.000379	-.000282
#2	.003273	.0212822	.0114107	-.010265	.000251	.000355
#3	.000590	.0286382	.0115022	-.015659	.000526	.000485

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1948037**	**.0005279**	**.0007587**	**-1.89117**	**.0036286**	F **-.013128**
Stddev	.1426035	.0010222	.0016974	.02499	.0012317	.000305
%RSD	73.20369	193.6359	223.7426	1.321551	33.94300	2.322163
#1	.3520224	-.000412	-.001180	-1.87223	.0022678	-.012813
#2	.0737980	.000380	.001979	-1.88178	.0039510	-.013422
#3	.1585906	.001616	.001477	-1.91950	.0046670	-.013147

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163TB Acquired: 1/24/2025 16:46:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB163 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000369	F 7.875364	.0129231	.0006484	-.000716	-.005726
Stddev	.000057	.012715	.0019751	.0006433	.001126	.000449
%RSD	15.32091	.1614567	15.28331	99.21361	157.4273	7.849177
#1	-.000317	7.870715	.0126397	.0009400	.000566	-.005920
#2	-.000361	7.889750	.0150245	-.000089	-.001549	-.006047
#3	-.000429	7.865628	.0111050	.001094	-.001164	-.005212

Elem	Sr4077
Units	ppm
Avg	.0001186
Stddev	.0000559
%RSD	47.11163
#1	.0000558
#2	.0001629
#3	.0001371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.629	71700.68	10296.29	2468.663	4141.872
Stddev	4.411	203.33	68.28	9.922	7.562
%RSD	.1309689	.2835809	.6631101	.4019316	.1825753
#1	3372.299	71861.20	10374.90	2475.302	4149.946
#2	3367.056	71768.80	10262.21	2473.431	4140.716
#3	3363.534	71472.04	10251.77	2457.257	4134.955

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-01 Acquired: 1/24/2025 16:50:56 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011510**	**-.003466**	**.0045710**	**-.013901**	**.0043137**	**-.130133**
Stddev	.0024189	.001759	.0024653	.001770	.0016313	.013358
%RSD	210.1455	50.75014	53.93308	12.72930	37.81681	10.26457
#1	.0023921	-.001798	.0019807	-.015782	.0025693	-.143336
#2	.0026975	-.005303	.0048437	-.012270	.0058014	-.130436
#3	-.001636	-.003297	.0068887	-.013651	.0045703	-.116626

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2271972**	**.0000739**	**-.000085**	F **1054.702**	**.2467631**	**-.001476**
Stddev	.0008416	.0000128	.000046	5.587	.0013058	.000141
%RSD	.3704222	17.25111	54.16440	.5297174	.5291889	9.574118
#1	.2271202	.0000886	-.000036	1048.957	.2468015	-.001497
#2	.2280746	.0000651	-.000128	1060.117	.2480494	-.001606
#3	.2263967	.0000681	-.000091	1055.031	.2454386	-.001326

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050470**	**.0122005**	**.0007105**	**-.011276**	**-.000301**	**-.000690**
Stddev	.0009992	.0050565	.0003414	.018594	.000456	.000197
%RSD	19.79798	41.44541	48.05800	164.8978	151.3317	28.53863
#1	.0057351	.0179563	.0004603	.008228	-.000537	-.000488
#2	.0039009	.0084728	.0010995	-.013255	-.000591	-.000882
#3	.0055049	.0101725	.0005717	-.028802	.000224	-.000699

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.58528**	**.0030283**	**.0384489**	**120.4608**	**.0026577**	**.0329184**
Stddev	.25620	.0004470	.0015455	.5817	.0003128	.0006778
%RSD	1.042088	14.76233	4.019721	.4828569	11.76773	2.059003
#1	24.34192	.0026665	.0398317	119.8371	.0023081	.0322597
#2	24.85263	.0035280	.0387344	120.9884	.0029109	.0328818
#3	24.56128	.0028902	.0367805	120.5569	.0027542	.0336138

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-01 Acquired: 1/24/2025 16:50:56 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1806359	F 241.7760	.1653585	-.003793	-.035003	.2830010
Stddev	.0010659	.4119	.0015097	.000729	.000250	.0024763
%RSD	.5900990	.1703758	.9129839	19.23127	.7137279	.8750048
#1	.1795843	241.7048	.1655913	-.002957	-.035156	.2805874
#2	.1817156	242.2188	.1667383	-.004119	-.035138	.2855355
#3	.1806078	241.4042	.1637460	-.004303	-.034715	.2828803

Elem	Sr4077
Units	ppm
Avg	5.266404
Stddev	.017211
%RSD	.3268038
#1	5.251045
#2	5.263162
#3	5.285005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2957.172	59879.38	9493.715	2055.366	3380.130
Stddev	9.344	289.91	5.164	5.640	12.515
%RSD	.3159770	.4841527	.0543898	.2743831	.3702373
#1	2964.740	60148.65	9487.759	2056.963	3391.657
#2	2946.728	59572.51	9496.934	2049.100	3366.820
#3	2960.049	59917.00	9496.453	2060.035	3381.913

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-02 Acquired: 1/24/2025 16:55:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072201	-.002311	.0242184	.0224517	.0125614	58.72656
Stddev	.0009155	.001632	.0021620	.0023547	.0007884	.28529
%RSD	12.68001	70.62393	8.927175	10.48787	6.276309	.4857973
#1	.0081832	-.000434	.0249006	.0222179	.0133703	59.02213
#2	.0071159	-.003100	.0259570	.0202226	.0117953	58.45280
#3	.0063611	-.003398	.0217975	.0249145	.0125186	58.70475

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735924	.0118842	.0094595	145.2845	.3512743	.5676092
Stddev	.0000990	.0002166	.0000330	.7883	.0020260	.0010318
%RSD	.1344901	1.822197	.3489499	.5426028	.5767600	.1817804
#1	.0737054	.0116651	.0094605	146.1945	.3534283	.5677640
#2	.0735210	.0118895	.0094260	144.8076	.3494067	.5665088
#3	.0735508	.0120981	.0094920	144.8515	.3509880	.5685549

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079777	143.6247	F 30.79670	47.31184	.2158386	.0063419
Stddev	.002732	.5529	.42832	.22795	.0003322	.0001161
%RSD	.2530322	.3849907	1.390783	.4818126	.1539204	1.830300
#1	1.080304	144.2403	30.72531	47.56166	.2157594	.0064261
#2	1.082207	143.1702	30.40857	47.11512	.2155531	.0062095
#3	1.076819	143.4636	31.25623	47.25874	.2162032	.0063900

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.91991	.3727523	1.177866	8.227340	2.874931	1.108791
Stddev	.53444	.0015603	.004798	.052050	.003176	.000487
%RSD	3.839395	.4185889	.4073718	.6326488	.1104643	.0438990
#1	14.51363	.3711959	1.177727	8.286158	2.874111	1.108424
#2	13.76885	.3743165	1.182733	8.187228	2.878436	1.108605
#3	13.47726	.3727443	1.173139	8.208635	2.872245	1.109343

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-02 Acquired: 1/24/2025 16:55:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032236	F 376.4623	F 23.13947	-.001489	.0001586	.0558184
Stddev	.0001500	.1312	.02574	.001636	.0006046	.0006045
%RSD	4.652159	.0348595	.1112365	109.8974	381.3371	1.083009
#1	.0031808	376.3130	23.15122	.000350	.0006009	.0554971
#2	.0030997	376.5144	23.15724	-.002785	.0004052	.0554425
#3	.0033903	376.5594	23.10996	-.002031	-.000530	.0565158

Elem	Sr4077
Units	ppm
Avg	.9747889
Stddev	.0171508
%RSD	1.759439
#1	.9843203
#2	.9549895
#3	.9850571

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3984.562	80410.96	12537.09	2816.277	3759.631
Stddev	8.010	137.44	51.57	12.341	2.674
%RSD	.2010270	.1709168	.4113100	.4382174	.0711166
#1	3991.448	80379.29	12596.03	2815.432	3761.657
#2	3975.771	80561.47	12514.97	2804.380	3756.600
#3	3986.466	80292.13	12500.27	2829.019	3760.635

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-03 Acquired: 1/24/2025 16:59:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057132**	**-.001187**	**.0021779**	**-.008730**	**.0032686**	**-.113820**
Stddev	.0008365	.001407	.0004765	.000999	.0018924	.006667
%RSD	14.64086	118.6127	21.87808	11.44149	57.89628	5.857837
#1	.0062661	-.000162	.0017628	-.009227	.0035646	-.121454
#2	.0061226	-.002791	.0026981	-.007580	.0012457	-.110867
#3	.0047509	-.000607	.0020727	-.009383	.0049956	-.109139

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0945270**	**.0000167**	**-.000064**	**737.0155**	**.0633646**	**-.001078**
Stddev	.0010152	.0001022	.000097	5.7411	.0000884	.000140
%RSD	1.073987	611.5437	152.5855	.7789702	.1395043	13.00907
#1	.0950484	.0000226	-.000130	735.9743	.0633110	-.001062
#2	.0933570	.0001158	.000048	731.8663	.0634666	-.000947
#3	.0951755	-.000088	-.000110	743.2060	.0633162	-.001226

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010830**	**.0096184**	**.0029170**	**2.596422**	**-.000317**	**-.000644**
Stddev	.0011311	.0034100	.0002549	.004284	.000048	.000367
%RSD	104.4413	35.45262	8.737779	.1650118	15.21794	57.02784
#1	.0008958	.0065221	.0028100	2.598912	-.000364	-.000220
#2	.0000572	.0090600	.0032079	2.598879	-.000268	-.000870
#3	.0022960	.0132731	.0027330	2.591475	-.000319	-.000840

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.522633**	**.0511454**	**.0059326**	**3.270465**	**.0087614**	**.0788106**
Stddev	.360852	.0022816	.0014335	.045450	.0031442	.0006411
%RSD	6.534052	4.460920	24.16337	1.389710	35.88753	.8134747
#1	5.867617	.0498427	.0066912	3.299104	.0051501	.0795473
#2	5.552508	.0498136	.0042792	3.218059	.0102426	.0783791
#3	5.147772	.0537798	.0068274	3.294231	.0108915	.0785054

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-03 Acquired: 1/24/2025 16:59:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783950	F 418.6172	8.446514	-.003317	-.025541	.0222142
Stddev	.0001660	.8696	.027138	.001284	.000498	.0009346
%RSD	.2117606	.2077290	.3212919	38.71361	1.949971	4.207098
#1	.0785358	417.6318	8.437209	-.004527	-.025276	.0215106
#2	.0782119	418.9432	8.425253	-.003454	-.025231	.0232746
#3	.0784372	419.2768	8.477081	-.001970	-.026115	.0218573

Elem	Sr4077
Units	ppm
Avg	1.161817
Stddev	.007844
%RSD	.6751850
#1	1.163909
#2	1.168404
#3	1.153139

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.315	63792.33	9834.275	2209.605	3579.858
Stddev	4.424	109.79	9.600	8.713	6.246
%RSD	.1438161	.1721017	.0976166	.3943032	.1744799
#1	3079.458	63733.48	9830.368	2201.744	3573.989
#2	3078.232	63918.99	9827.244	2208.097	3586.423
#3	3071.256	63724.50	9845.212	2218.973	3579.164

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-04 Acquired: 1/24/2025 17:03:53 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011637**	**.0008036**	**.0010836**	**-.011083**	**.0016709**	**-.169763**
Stddev	.0031453	.0027810	.0004332	.002080	.0016883	.010065
%RSD	270.2751	346.0826	39.98261	18.76624	101.0391	5.928815
#1	-.002159	.0007385	.0009792	-.013396	.0002108	-.158994
#2	.004095	.0036166	.0007121	-.009366	.0012824	-.171362
#3	.001554	-.001944	.0015595	-.010488	.0035196	-.178932

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1000140**	**-.000006**	**-.000046**	**761.2774**	**.0622685**	**-.001038**
Stddev	.0005992	.000038	.000071	2.4166	.0002489	.000248
%RSD	.5990778	612.8133	156.2611	.3174461	.3996965	23.87976
#1	.1006315	.000036	-.000112	758.5445	.0621900	-.001212
#2	.0999755	-.000040	-.000055	763.1325	.0620683	-.000754
#3	.0994350	-.000015	.000030	762.1551	.0625471	-.001146

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023047**	**.0119117**	**.0023503**	**2.679664**	**-.000472**	**-.000564**
Stddev	.0013481	.0048333	.0004763	.020139	.000509	.000304
%RSD	58.49344	40.57600	20.26363	.7515342	107.8499	53.83788
#1	.0016715	.0173182	.0021876	2.671519	-.001043	-.000536
#2	.0013898	.0104074	.0028866	2.702599	-.000302	-.000880
#3	.0038528	.0080094	.0019767	2.664873	-.000069	-.000275

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.101400**	**.0496648**	**.0046025**	**3.464069**	**.0072691**	**.0733252**
Stddev	.387215	.0020398	.0019458	.051062	.0004742	.0011242
%RSD	7.590367	4.107172	42.27640	1.474057	6.524044	1.533222
#1	4.660814	.0520117	.0045871	3.460023	.0074386	.0745565
#2	5.255744	.0486648	.0065560	3.517034	.0076353	.0723533
#3	5.387639	.0483181	.0026645	3.415150	.0067334	.0730659

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-04 Acquired: 1/24/2025 17:03:53 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0788035	F 414.6406	8.367439	-.002586	-.025159	.0249074
Stddev	.0005474	.2827	.049816	.000737	.001195	.0009434
%RSD	.6946133	.0681682	.5953586	28.47651	4.749255	3.787531
#1	.0782054	414.4345	8.419696	-.003106	-.026348	.0241698
#2	.0789253	414.5244	8.362134	-.001744	-.025169	.0259704
#3	.0792797	414.9628	8.320488	-.002910	-.023959	.0245821

Elem	Sr4077
Units	ppm
Avg	1.249991
Stddev	.009342
%RSD	.7473758
#1	1.239276
#2	1.254267
#3	1.256431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3075.167	65190.38	10599.73	2194.607	3620.273
Stddev	9.061	25.34	82.65	5.405	5.804
%RSD	.2946381	.0388780	.7797317	.2462784	.1603227
#1	3082.881	65209.35	10511.39	2199.565	3626.933
#2	3077.431	65200.20	10612.61	2195.412	3617.592
#3	3065.189	65161.60	10675.18	2188.845	3616.294

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-03LX5 Acquired: 1/24/2025 17:08:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010777**	**-.000485**	**.0000878**	**-.001581**	**-.000345**	**-.077918**
Stddev	.0027257	.001277	.0012455	.001859	.002089	.009920
%RSD	252.9066	263.4310	1419.423	117.5781	604.7464	12.73135
#1	.0015973	.000983	-.000423	-.000820	-.000669	-.067344
#2	-.001870	-.001340	.001507	-.000223	-.002254	-.079391
#3	.003506	-.001096	-.000821	-.003699	.001887	-.087019

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0135169**	**-.000042**	**-.000077**	**151.6705**	**.0125157**	**-.000177**
Stddev	.0012240	.000047	.000133	1.4554	.0004016	.000144
%RSD	9.055229	111.8370	172.2511	.9595611	3.208796	81.55761
#1	.0121444	-.000077	.000055	152.0689	.0123625	-.000318
#2	.0139113	-.000060	-.000212	150.0575	.0122133	-.000030
#3	.0144951	.000011	-.000075	152.8852	.0129714	-.000183

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003698**	**.0027763**	**.0001761**	**.5419344**	**.0000194**	**.0000378**
Stddev	.0021614	.0038967	.0001710	.0091303	.0001167	.0005090
%RSD	584.4775	140.3578	97.13884	1.684756	602.5275	1344.928
#1	.0027087	.0071601	-.000020	.5416344	-.000014	.0004227
#2	-.000045	-.000294	.000294	.5329578	.000149	-.000539
#3	-.001554	.001462	.000254	.5512109	-.000077	.000230

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.468581**	**.0112992**	**.0006894**	**.4826855**	**.0031262**	**.0044515**
Stddev	.311790	.0014920	.0022333	.0345723	.0014114	.0005323
%RSD	21.23066	13.20478	323.9510	7.162496	45.14822	11.95876
#1	1.363458	.0122977	.0027035	.5172631	.0043934	.0050650
#2	1.819345	.0095840	.0010770	.4826750	.0016050	.0041769
#3	1.222940	.0120159	-.001712	.4481185	.0033802	.0041124

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-03LX5 Acquired: 1/24/2025 17:08:15 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6L Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157794	F 81.95716	1.619105	-.002418	-.005664	.0023511
Stddev	.0001200	.20422	.010676	.000569	.000219	.0015269
%RSD	.7603429	.2491748	.6593640	23.53134	3.873120	64.94281
#1	.0159179	82.04046	1.631152	-.001764	-.005494	.0009298
#2	.0157148	81.72446	1.610818	-.002796	-.005587	.0039652
#3	.0157056	82.10656	1.615345	-.002694	-.005912	.0021582

Elem	Sr4077
Units	ppm
Avg	.2436062
Stddev	.0033647
%RSD	1.381188
#1	.2453418
#2	.2397281
#3	.2457486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3249.162	68190.70	10983.73	2282.743	3967.134
Stddev	6.625	316.84	63.81	9.585	4.953
%RSD	.2038962	.4646408	.5809191	.4198819	.1248460
#1	3243.249	68367.50	11039.64	2283.403	3961.534
#2	3256.322	68379.70	10914.22	2291.981	3970.937
#3	3247.916	67824.91	10997.33	2272.845	3968.933

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-05 Acquired: 1/24/2025 17:12:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0401873**	**.0484122**	**.0199628**	**.0859559**	**.0942744**	**1.700483**
Stddev	.0010687	.0011842	.0004511	.0015823	.0014578	.000881
%RSD	2.659348	2.446065	2.259878	1.840823	1.546357	.0517850
#1	.0393813	.0485027	.0199572	.0867789	.0925911	1.700201
#2	.0413996	.0471853	.0204167	.0869571	.0951283	1.701470
#3	.0397810	.0495485	.0195144	.0841317	.0951037	1.699778

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.074842**	**.0444321**	**.0460784**	**787.4305**	**.2635735**	**.4698827**
Stddev	.009114	.0001025	.0000874	2.4311	.0015546	.0004990
%RSD	.4392801	.2306129	.1896148	.3087434	.5898295	.1062024
#1	2.064459	.0443170	.0460455	785.3669	.2629792	.4703777
#2	2.078540	.0444659	.0461774	786.8142	.2624036	.4698908
#3	2.081525	.0445134	.0460122	790.1105	.2653376	.4693797

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2400453**	**1.050491**	**.4842637**	**2.745804**	**.4719421**	**.0364116**
Stddev	.0013763	.004860	.0019744	.019228	.0007754	.0005100
%RSD	.5733457	.4626353	.4077142	.7002766	.1643025	1.400801
#1	.2400748	1.045121	.4820070	2.739256	.4724125	.0369996
#2	.2414066	1.051767	.4851111	2.730705	.4710471	.0360886
#3	.2386544	1.054586	.4856729	2.767451	.4723667	.0361467

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.047995**	**.5209531**	**.5070098**	**3.690230**	**.0098522**	**.0750229**
Stddev	.052323	.0025090	.0019166	.027636	.0010515	.0003685
%RSD	1.036510	.4816214	.3780260	.7489081	10.67225	.4911310
#1	5.032612	.5182051	.5062120	3.658945	.0095003	.0753510
#2	5.106285	.5231218	.5091964	3.700418	.0110344	.0750934
#3	5.005088	.5215325	.5056209	3.711326	.0090218	.0746242

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-05 Acquired: 1/24/2025 17:12:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0784217	F 413.2365	8.227588	-.003614	-.024860	.0281472
Stddev	.0003143	1.0749	.036913	.000684	.001215	.0007447
%RSD	.4008328	.2601164	.4486449	18.92765	4.888415	2.645544
#1	.0780587	413.9734	8.226617	-.004099	-.024124	.0289519
#2	.0785987	412.0031	8.191169	-.002831	-.024194	.0274825
#3	.0786076	413.7330	8.264976	-.003911	-.026263	.0280072

Elem	Sr4077
Units	ppm
Avg	1.281866
Stddev	.008527
%RSD	.6651755
#1	1.276199
#2	1.277727
#3	1.291672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3079.339	64573.29	10836.57	2155.882	3628.109
Stddev	5.888	382.01	62.11	7.618	6.175
%RSD	.1912225	.5915970	.5731262	.3533552	.1701944
#1	3083.188	64782.82	10862.11	2159.565	3623.721
#2	3082.268	64804.69	10881.83	2160.958	3635.170
#3	3072.561	64132.36	10765.76	2147.122	3625.437

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-06 Acquired: 1/24/2025 17:16:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048609**	**-.000614**	**.0042283**	**.0061880**	**.0034904**	**46.24390**
Stddev	.0008736	.003270	.0009762	.0022963	.0005837	.18850
%RSD	17.97232	532.2438	23.08716	37.10866	16.72182	.4076125
#1	.0047767	-.001318	.0031046	.0085838	.0039349	46.16912
#2	.0040324	.002950	.0047128	.0059741	.0037069	46.10426
#3	.0057736	-.003476	.0048674	.0040062	.0028294	46.45831

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0817241**	**.0023475**	**.0015443**	**109.4723**	**.0471497**	**.1073712**
Stddev	.0003677	.0000606	.0000638	.3565	.0003229	.0001358
%RSD	.4499205	2.581894	4.132214	.3256415	.6848312	.1265145
#1	.0814034	.0022798	.0016177	109.1034	.0468803	.1072268
#2	.0816436	.0023969	.0015136	109.4985	.0475076	.1073903
#3	.0821254	.0023657	.0015017	109.8150	.0470610	.1074964

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1396670**	**52.93091**	**5.207138**	**59.55441**	**.0712587**	**.0019109**
Stddev	.0015123	.16842	.023761	.05747	.0002276	.0003634
%RSD	1.082790	.3181908	.4563137	.0964931	.3193633	19.01662
#1	.1396623	52.76097	5.180510	59.48880	.0711183	.0014913
#2	.1411817	52.93400	5.214726	59.57857	.0715212	.0021231
#3	.1381571	53.09777	5.226178	59.59585	.0711365	.0021184

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.948238**	**.0885514**	**1.073909**	**1.197513**	**3.031275**	**.6936952**
Stddev	.095083	.0004854	.011035	.043012	.006270	.0009972
%RSD	1.196279	.5481870	1.027583	3.591756	.2068476	.1437545
#1	7.989823	.0890743	1.061524	1.159026	3.027032	.6935191
#2	7.839446	.0881151	1.077508	1.189571	3.028316	.6947687
#3	8.015444	.0884649	1.082696	1.243942	3.038477	.6927977

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-06 Acquired: 1/24/2025 17:16:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000861	F 399.6421	F 20.49571	-.003124	.0154441	.0256593
Stddev	.000245	1.0746	.04726	.000996	.0007665	.0019888
%RSD	28.42003	.2689017	.2305799	31.87394	4.962863	7.750944
#1	-.000608	399.2487	20.45874	-.003851	.0153901	.0244127
#2	-.000880	398.8195	20.54895	-.001989	.0162362	.0246123
#3	-.001097	400.8580	20.47943	-.003531	.0147061	.0279529

Elem	Sr4077
Units	ppm
Avg	.3782035
Stddev	.0019714
%RSD	.5212437
#1	.3764426
#2	.3778347
#3	.3803332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3739.155	79051.10	12932.28	2638.420	3906.958
Stddev	13.313	21.60	54.96	7.438	19.406
%RSD	.3560455	.0273266	.4249955	.2819217	.4967059
#1	3751.027	79074.81	12904.24	2645.308	3921.119
#2	3741.676	79032.54	12896.99	2639.419	3914.918
#3	3724.762	79045.95	12995.61	2630.533	3884.838

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-07 Acquired: 1/24/2025 17:20:31 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1321525	-.027686	.0129569	.1154277	.0543676	14.72764
Stddev	.0038426	.002762	.0004762	.0031979	.0011743	.05913
%RSD	2.907683	9.974214	3.675054	2.770457	2.159909	.4014829
#1	.1358361	-.030870	.0124353	.1118760	.0545604	14.77099
#2	.1281686	-.026257	.0130671	.1180785	.0554335	14.66028
#3	.1324527	-.025933	.0133683	.1163285	.0531088	14.75163

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911922	.0059134	.0134874	118.2468	.0847274	.6667246
Stddev	.0008299	.0000495	.0001280	.4772	.0009155	.0003329
%RSD	.9100964	.8373551	.9487381	.4035630	1.080578	.0499318
#1	.0912097	.0058641	.0134371	118.5963	.0857333	.6663414
#2	.0903537	.0059631	.0133923	117.7031	.0839428	.6668897
#3	.0920133	.0059129	.0136329	118.4410	.0845060	.6669427

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.040820	581.1636	F 35.26567	32.99236	.1805042	.0215851
Stddev	.000342	2.8234	.15135	.10189	.0001933	.0003648
%RSD	.8386403	.4858184	.4291679	.3088201	.1071004	1.690185
#1	-.041020	583.5470	35.31411	33.09125	.1806056	.0219620
#2	-.041015	581.8983	35.38687	32.88772	.1806258	.0212337
#3	-.040424	578.0454	35.09603	32.99812	.1802813	.0215594

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.123240	.7078363	.9394010	5.297789	.6115477	2.830616
Stddev	.310552	.0027623	.0075232	.038031	.0012619	.014399
%RSD	4.359694	.3902483	.8008450	.7178677	.2063430	.5086746
#1	7.101234	.7088301	.9447338	5.265905	.6108783	2.843597
#2	7.444209	.7099642	.9307959	5.287580	.6107617	2.833121
#3	6.824277	.7047146	.9426734	5.339883	.6130033	2.815129

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-07 Acquired: 1/24/2025 17:20:31 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007737	F 361.0648	7.992040	.0017731	-.001972	.0036226
Stddev	.000142	.6892	.029780	.0008691	.000011	.0003490
%RSD	1.832726	.1908855	.3726146	49.01625	.5478616	9.634491
#1	-.007753	361.4772	8.017070	.0025396	-.001965	.0032277
#2	-.007870	360.2691	7.959106	.0008288	-.001967	.0038898
#3	-.007588	361.4480	7.999944	.0019509	-.001985	.0037502

Elem	Sr4077
Units	ppm
Avg	1.006574
Stddev	.009848
%RSD	.9783417
#1	.995335
#2	1.010699
#3	1.013689

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3636.117	76418.59	12777.01	2566.543	3879.396
Stddev	7.497	150.38	37.10	5.851	9.589
%RSD	.2061866	.1967893	.2903798	.2279617	.2471883
#1	3635.219	76270.03	12770.21	2559.885	3886.403
#2	3644.022	76570.73	12743.78	2570.864	3883.318
#3	3629.108	76415.02	12817.04	2568.879	3868.468

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-08 Acquired: 1/24/2025 17:24:52 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4342927**	**-.021909**	**.0081270**	**.1562036**	**.0739017**	**-.027119**
Stddev	.0017403	.001298	.0011825	.0026508	.0014550	.005534
%RSD	.4007107	5.923115	14.54991	1.697039	1.968843	20.40758
#1	.4360065	-.021338	.0077289	.1544026	.0744122	-.030249
#2	.4343446	-.020994	.0094572	.1592475	.0722602	-.020729
#3	.4325271	-.023394	.0071950	.1549606	.0750327	-.030380

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1168679**	**-.003074**	**.0113700**	**189.5895**	**-.005932**	**.1498445**
Stddev	.0002877	.000163	.0002402	.9458	.000743	.0000940
%RSD	.2461802	5.290934	2.112195	.4988755	12.51830	.0627075
#1	.1165581	-.003070	.0113381	190.5824	-.006649	.1499334
#2	.1169189	-.003238	.0111475	189.4870	-.005167	.1497462
#3	.1171267	-.002913	.0116246	188.6992	-.005980	.1498539

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.094086**	**788.4934**	**24.65136**	**62.44591**	**.0621881**	**.0188341**
Stddev	.003585	5.8078	.32720	.40050	.0004150	.0023500
%RSD	3.810331	.7365733	1.327293	.6413473	.6673826	12.47719
#1	-.093975	789.2725	24.62479	62.89368	.0618920	.0178563
#2	-.090558	793.8723	24.33825	62.32213	.0620098	.0215151
#3	-.097725	782.3353	24.99103	62.12191	.0626625	.0171309

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.36286**	**-.069634**	**1.144130**	**2.284950**	**.0273152**	**4.047847**
Stddev	.11471	.002325	.006675	.046487	.0023097	.028107
%RSD	.7010533	3.339307	.5834337	2.034501	8.455675	.6943733
#1	16.31903	-.069688	1.146791	2.333639	.0261034	4.056650
#2	16.49302	-.071932	1.149064	2.241033	.0258636	4.070500
#3	16.27652	-.067282	1.136535	2.280177	.0299786	4.016392

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-08 Acquired: 1/24/2025 17:24:52 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009493	F 427.8185	4.122575	.0027951	-.006744	.0003577
Stddev	.000349	.7413	.011898	.0004103	.001073	.0001589
%RSD	3.674541	.1732770	.2886171	14.67894	15.90247	44.41642
#1	-.009094	427.7211	4.116220	.0032685	-.005517	.0004881
#2	-.009738	427.1306	4.115203	.0025735	-.007501	.0001807
#3	-.009647	428.6036	4.136301	.0025432	-.007214	.0004042

Elem	Sr4077
Units	ppm
Avg	2.829223
Stddev	.012937
%RSD	.4572683
#1	2.820484
#2	2.844085
#3	2.823101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3182.426	66139.15	10933.27	2226.850	3880.052
Stddev	1.379	102.91	61.56	.992	7.764
%RSD	.0433374	.1555957	.5630928	.0445526	.2001116
#1	3182.631	66032.19	10977.93	2227.475	3886.208
#2	3180.955	66237.47	10958.83	2227.370	3882.619
#3	3183.691	66147.79	10863.04	2225.706	3871.330

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-09 Acquired: 1/24/2025 17:29:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4261511**	**-.015933**	**.0281633**	**.0595525**	**.0332890**	**34.77627**
Stddev	.0007441	.001884	.0015344	.0015901	.0009746	.22965
%RSD	.1745998	11.82704	5.448066	2.669992	2.927704	.6603771
#1	.4259026	-.014855	.0274626	.0611732	.0340834	34.75749
#2	.4269876	-.018109	.0271044	.0594893	.0335821	34.55658
#3	.4255631	-.014835	.0299229	.0579950	.0322015	35.01473

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0631185**	**.0100699**	**.0235272**	**92.54140**	**.0484334**	**.9131872**
Stddev	.0008838	.0000773	.0000795	.52129	.0002022	.0031688
%RSD	1.400181	.7676372	.3380228	.5633021	.4175092	.3470072
#1	.0623811	.0100045	.0234905	92.51612	.0482001	.9129411
#2	.0628763	.0101552	.0234727	92.03321	.0485588	.9101487
#3	.0640981	.0100501	.0236185	93.07486	.0485412	.9164720

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.361267**	**332.9156**	**4.548168**	**62.81545**	**1.674446**	**.0045287**
Stddev	.003402	.9548	.029167	.21423	.003935	.0004955
%RSD	.1440795	.2867878	.6412976	.3410400	.2350103	10.94116
#1	2.361332	333.9445	4.541061	62.76732	1.675621	.0046082
#2	2.364635	332.7442	4.523211	62.62937	1.670057	.0049796
#3	2.357832	332.0582	4.580232	63.04964	1.677659	.0039982

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.50017**	**.6943088**	**16.72973**	**9.013751**	**1.219535**	**1.799119**
Stddev	.30379	.0007065	.15610	.077955	.003691	.003826
%RSD	2.893208	.1017507	.9330926	.8648487	.3026825	.2126502
#1	10.25161	.6934993	16.83999	9.012521	1.215286	1.803061
#2	10.83882	.6946263	16.55111	8.936418	1.221371	1.798874
#3	10.41008	.6948009	16.79809	9.092315	1.221948	1.795421

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-09 Acquired: 1/24/2025 17:29:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008196	F 373.9158	F 17.46153	-.000490	-.001873	.0244303
Stddev	.000371	.6072	.02990	.000446	.000556	.0007535
%RSD	4.527184	.1623797	.1712465	91.15096	29.70293	3.084442
#1	-.008042	374.0586	17.42899	-.000746	-.001376	.0246657
#2	-.007927	373.2500	17.48780	-.000748	-.002474	.0235872
#3	-.008620	374.4389	17.46781	.000026	-.001769	.0250381

Elem	Sr4077
Units	ppm
Avg	1.387288
Stddev	.019244
%RSD	1.387157
#1	1.397782
#2	1.399003
#3	1.365078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4308.202	89188.96	14157.75	3017.484	3975.359
Stddev	12.037	140.42	68.46	20.103	8.466
%RSD	.2793884	.1574403	.4835513	.6662054	.2129718
#1	4302.781	89140.85	14161.51	2995.011	3971.397
#2	4321.996	89347.11	14087.49	3033.754	3985.080
#3	4299.830	89078.92	14224.25	3023.687	3969.600

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV016 Acquired: 1/24/2025 17:42:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.894018**	**4.791908**	**23.88833**	**4.977031**	**5.048841**	**409.8568**
Stddev	.106973	.099505	.41283	.110030	.118751	3.9266
%RSD	2.185787	2.076529	1.728159	2.210762	2.352040	.9580396
#1	4.796333	4.695477	23.51308	4.889771	4.943603	407.7059
#2	4.877391	4.786021	23.82138	4.940685	5.025332	407.4757
#3	5.008331	4.894227	24.33055	5.100635	5.177588	414.3889

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.15338**	**.4529913**	**2.371790**	**395.6088**	**14.80133**	**2.437658**
Stddev	.21454	.0004700	.041446	3.7951	.05578	.044261
%RSD	2.112944	.1037574	1.747452	.9593052	.3768840	1.815710
#1	10.21548	.4534325	2.332933	391.9587	14.73702	2.397362
#2	9.91464	.4524970	2.367024	395.3338	14.83021	2.430582
#3	10.33001	.4530445	2.415413	399.5339	14.83675	2.485031

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.21940**	**405.2310**	**14.72757**	**390.0977**	**2.428556**	**1.245227**
Stddev	.06711	2.6753	.10815	2.1309	.046038	.004636
%RSD	.4719403	.6601861	.7343401	.5462364	1.895695	.3723146
#1	14.15187	402.2783	14.60641	387.6819	2.386883	1.240069
#2	14.22025	405.9210	14.76195	390.9015	2.420807	1.246564
#3	14.28608	407.4937	14.81436	391.7098	2.477976	1.249047

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**366.0317**	**2.348930**	**15.39187**	**155.5963**	**4.819363**	F **5.610673**
Stddev	.1392	.009615	.06758	1.1700	.096977	.018539
%RSD	.0380291	.4093415	.4390617	.7519506	2.012236	.3304226
#1	365.8721	2.338110	15.31625	154.3122	4.730902	5.593848
#2	366.0947	2.356496	15.41300	155.8747	4.804132	5.607625
#3	366.1282	2.352183	15.44636	156.6019	4.923054	5.630548

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV016 Acquired: 1/24/2025 17:42:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV016 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.869141**	**4.942784**	**4.672270**	**4.831558**	**4.751369**	**5.085736**
Stddev	.105637	.095140	.009712	.086890	.008851	.035759
%RSD	2.169525	1.924829	.2078700	1.798392	.1862808	.7031269
#1	4.774229	4.857889	4.665743	4.751144	4.741373	5.045548
#2	4.850242	4.924848	4.683431	4.819801	4.754527	5.097617
#3	4.982952	5.045616	4.667635	4.923728	4.758209	5.114042

Elem	Sr4077
Units	ppm
Avg	**5.043433**
Stddev	.014989
%RSD	.2972043
#1	5.046479
#2	5.027155
#3	5.056666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2681.011**	**60338.93**	**10284.48**	**1981.125**	**3171.942**
Stddev	46.632	170.67	18.66	2.067	48.412
%RSD	1.739345	.2828456	.1814466	.1043154	1.526242
#1	2724.131	60534.14	10262.95	1979.378	3217.355
#2	2687.381	60264.67	10296.05	1983.407	3177.467
#3	2631.521	60217.97	10294.44	1980.592	3121.006

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB016 Acquired: 1/24/2025 17:46:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004784**	**-.000945**	**.0000296**	**-.000710**	**-.000274**	**.0119322**	**-.007471**
Stddev	.0018372	.001685	.0011451	.001711	.000688	.0046454	.000247
%RSD	383.9956	178.3123	3869.536	241.0420	251.1232	38.93176	3.311831
#1	-.001632	-.002890	.0012713	-.000942	-.000365	.0111754	-.007187
#2	.001351	.000026	-.000198	-.002292	-.000912	.0169095	-.007583
#3	.001717	.000030	-.000985	.001105	.000455	.0077116	-.007643

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000082**	**.0000238**	**.0052836**	**.0005894**	**.0001222**	**.0021546**	**.0147737**
Stddev	.0000344	.0000643	.0047396	.0001488	.0001956	.0022090	.0054046
%RSD	417.7766	269.6174	89.70504	25.23600	160.0478	102.5216	36.58284
#1	.0000302	.0000646	.0085999	.0006047	.0000222	-.000261	.0086449
#2	.0000259	.0000572	.0073957	.0004336	.0003476	.002652	.0168191
#3	-.000031	-.000050	-.000145	.0007300	-.000003	.004073	.0188572

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000158**	**-.004630**	**-.000019**	**-.000087**	**-.102240**	**.0006872**	**-.000713**
Stddev	.000105	.005487	.000180	.000135	.379512	.0008225	.002415
%RSD	66.57641	118.5022	934.8393	154.2193	371.1978	119.6955	338.8621
#1	-.000040	.001334	.000165	-.000122	.167445	.0003463	-.001605
#2	-.000192	-.009464	-.000028	.000061	-.536217	.0016253	.002021
#3	-.000242	-.005760	-.000194	-.000202	.062053	.0000899	-.002554

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.135114**	**.0034128**	**-.006243**	**-.000185**	**.0179839**	**.0004980**	**.0010319**
Stddev	.031874	.0007036	.000606	.000449	.0022023	.0003658	.0004000
%RSD	23.59071	20.61685	9.705959	243.0415	12.24613	73.46089	38.76558
#1	-.098490	.0040827	-.006921	.000332	.0205264	.0006533	.0007882
#2	-.156589	.0026797	-.006050	-.000404	.0166683	.0007605	.0014936
#3	-.150263	.0034760	-.005756	-.000481	.0167569	.0000801	.0008140

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB016 Acquired: 1/24/2025 17:46:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB016 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000168**	**-.002906**	**.0001828**
Stddev	.000275	.001275	.0001064
%RSD	163.4071	43.88476	58.19193
#1	-.000446	-.004194	.0001268
#2	-.000165	-.001644	.0003054
#3	.000105	-.002880	.0001161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.752**	**70739.36**	**11020.44**	**2413.557**	**4258.063**
Stddev	5.478	383.19	47.54	16.976	4.899
%RSD	.1594755	.5416919	.4313489	.7033578	.1150537
#1	3432.792	70340.61	10965.56	2395.971	4252.548
#2	3440.940	70772.63	11049.02	2429.848	4261.913
#3	3430.524	71104.82	11046.73	2414.853	4259.727

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-10 Acquired: 1/24/2025 17:50:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016427**	**-.001544**	**.0023738**	**-.009807**	**.0010844**	**2.289355**
Stddev	.0026325	.001226	.0011332	.001698	.0003809	.005966
%RSD	160.2610	79.38689	47.73969	17.31079	35.12137	.2606180
#1	-.000637	-.002954	.0023151	-.010566	.0006537	2.282467
#2	.001041	-.000734	.0035353	-.010993	.0012229	2.292670
#3	.004524	-.000944	.0012710	-.007862	.0013766	2.292928

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0688990**	**.0007173**	**.0020967**	**711.9091**	**.0110069**	**.0193360**
Stddev	.0003662	.0000404	.0000500	2.6996	.0000977	.0001064
%RSD	.5315657	5.636682	2.385567	.3792104	.8879976	.5504890
#1	.0687209	.0007142	.0021541	710.2948	.0110962	.0194132
#2	.0693203	.0006786	.0020728	710.4067	.0109025	.0193803
#3	.0686560	.0007592	.0020630	715.0257	.0110220	.0192146

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079030**	**.1640593**	**1.837748**	**22.73651**	**.0909661**	**-.000238**
Stddev	.0004403	.0023687	.010622	.03460	.0009056	.000465
%RSD	5.571003	1.443792	.5779779	.1521906	.9955407	195.4620
#1	.0083200	.1667718	1.825835	22.69909	.0913575	.000215
#2	.0074427	.1623993	1.841174	22.76734	.0899307	-.000215
#3	.0079464	.1630068	1.846233	22.74312	.0916103	-.000714

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.363916**	**.0046010**	**.4888578**	**.6907341**	**.0081696**	**.2820787**
Stddev	.084628	.0013222	.0049539	.0207748	.0006599	.0013666
%RSD	1.011827	28.73582	1.013352	3.007637	8.077072	.4844717
#1	8.303128	.0061274	.4843693	.6687099	.0086948	.2836107
#2	8.328048	.0038653	.4880313	.6935126	.0074290	.2816407
#3	8.460571	.0038104	.4941730	.7099798	.0083851	.2809849

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-10 Acquired: 1/24/2025 17:50:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005699	F 452.3746	8.116803	-.002888	-.022212	.0124717
Stddev	.0003664	1.6696	.007559	.000911	.000658	.0010237
%RSD	64.29465	.3690677	.0931285	31.56360	2.963158	8.208479
#1	.0002709	453.0575	8.111856	-.002395	-.021760	.0114003
#2	.0004601	450.4718	8.125505	-.002328	-.021910	.0134400
#3	.0009786	453.5945	8.113050	-.003940	-.022967	.0125750

Elem	Sr4077
Units	ppm
Avg	1.213460
Stddev	.011221
%RSD	.9246966
#1	1.201086
#2	1.222975
#3	1.216320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3335.448	71064.23	11736.41	2367.219	3621.981
Stddev	10.966	126.99	40.34	7.362	11.542
%RSD	.3287601	.1786995	.3437248	.3109856	.3186665
#1	3340.191	71210.83	11695.75	2372.112	3628.730
#2	3343.244	70993.69	11737.06	2358.752	3628.559
#3	3322.910	70988.17	11776.43	2370.791	3608.653

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-11 Acquired: 1/24/2025 17:54:57 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4942766**	**-.016973**	**.0165252**	**.0731794**	**.0337622**	**43.29696**
Stddev	.0001880	.001376	.0024156	.0043092	.0007867	.18160
%RSD	.0380358	8.109803	14.61750	5.888615	2.330047	.4194362
#1	.4942002	-.016145	.0158491	.0689685	.0330587	43.44592
#2	.4941389	-.018562	.0192068	.0729889	.0336163	43.35030
#3	.4944908	-.016212	.0145198	.0775807	.0346116	43.09466

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0602506**	**.0096569**	**.0151545**	**91.23357**	**.1109931**	**.8130278**
Stddev	.0003830	.0001299	.0002216	.21345	.0007127	.0012448
%RSD	.6357478	1.345267	1.462271	.2339546	.6421247	.1531042
#1	.0598776	.0097362	.0152771	91.41065	.1105795	.8135305
#2	.0606429	.0097275	.0148987	91.29350	.1105836	.8116103
#3	.0602312	.0095069	.0152878	90.99657	.1118160	.8139426

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8457935**	**365.8647**	**4.446877**	**81.42089**	**.5576574**	**.0102206**
Stddev	.0009146	3.1060	.014248	.15336	.0004466	.0009826
%RSD	.1081314	.8489439	.3204056	.1883492	.0800885	9.613861
#1	.8466466	362.3091	4.461440	81.55267	.5579942	.0091743
#2	.8459060	368.0493	4.446226	81.45743	.5571508	.0111237
#3	.8448279	367.2358	4.432966	81.25256	.5578271	.0103637

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.701678**	**1.011997**	**3.255072**	**4.807895**	**.6232748**	**1.940081**
Stddev	.298370	.002494	.003075	.035924	.0039771	.014094
%RSD	3.075451	.2464755	.0944683	.7471804	.6381014	.7264582
#1	10.04175	1.010050	3.251548	4.838238	.6264663	1.923844
#2	9.48380	1.011133	3.256458	4.817217	.6188193	1.949158
#3	9.57949	1.014808	3.257211	4.768229	.6245389	1.947240

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-11 Acquired: 1/24/2025 17:54:57 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005584	F 400.8836	F 23.01329	-.000078	.0004103	.0378616
Stddev	.000236	1.4118	.00500	.001035	.0003142	.0008320
%RSD	4.221050	.3521666	.0217376	1329.429	76.58982	2.197520
#1	-.005792	402.0264	23.01467	.000659	.0007702	.0384157
#2	-.005328	399.3054	23.00774	-.001261	.0002697	.0382641
#3	-.005632	401.3190	23.01746	.000368	.0001908	.0369048

Elem	Sr4077
Units	ppm
Avg	1.388638
Stddev	.006489
%RSD	.4672858
#1	1.395863
#2	1.386747
#3	1.383305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3971.279	85649.83	14223.69	2860.283	3827.754
Stddev	8.498	55.70	48.33	11.497	8.351
%RSD	.2139928	.0650350	.3397963	.4019411	.2181682
#1	3968.125	85587.15	14244.46	2854.867	3826.704
#2	3980.903	85693.68	14258.16	2873.487	3836.580
#3	3964.809	85668.66	14168.44	2852.495	3819.977

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-12 Acquired: 1/24/2025 17:59:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089102	.0047048	.0102341	.0039128	.0017809	61.00366
Stddev	.0003853	.0018522	.0004954	.0034648	.0004279	.04636
%RSD	4.323892	39.36764	4.840947	88.54931	24.02635	.0759994
#1	.0093353	.0046150	.0108041	-.000081	.0022002	61.05342
#2	.0085840	.0066002	.0099916	.005705	.0017974	60.96167
#3	.0088113	.0028992	.0099067	.006115	.0013450	60.99590

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606525	.0156937	.0080506	205.1899	.0383943	.7195668
Stddev	.0001234	.0000828	.0001615	.4295	.0001768	.0104537
%RSD	.2035155	.5274176	2.006220	.2093245	.4604515	1.452772
#1	.0605362	.0157704	.0079801	205.6853	.0385554	.7141273
#2	.0606394	.0157047	.0079364	204.9216	.0382052	.7129545
#3	.0607820	.0156060	.0082354	204.9628	.0384224	.7316187

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.339306	61.24574	F 47.70017	50.01139	.2015688	.0082475
Stddev	.003103	.06958	.24845	.07346	.0030288	.0001855
%RSD	.2317045	.1136034	.5208644	.1468870	1.502613	2.249572
#1	1.342830	61.32603	47.93539	50.08807	.1999441	.0081887
#2	1.338103	61.20807	47.44032	49.94165	.1996989	.0080984
#3	1.336983	61.20312	47.72480	50.00445	.2050633	.0084553

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.34672	.2418770	1.965966	21.81673	9.232152	.6753996
Stddev	.27015	.0021951	.006447	.04871	.133502	.0007377
%RSD	1.208886	.9075240	.3279310	.2232773	1.446060	.1092195
#1	22.59859	.2443096	1.969907	21.84568	9.163511	.6746094
#2	22.06141	.2400441	1.969465	21.76049	9.146935	.6755193
#3	22.38017	.2412774	1.958526	21.84403	9.386010	.6760701

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-12 Acquired: 1/24/2025 17:59:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002761	F 421.9902	F 26.77015	-.002465	-.005922	.0484049
Stddev	.000238	6.0694	.05114	.000344	.000193	.0007788
%RSD	8.603528	1.438287	.1910343	13.94300	3.265088	1.608864
#1	-.002803	419.0428	26.82867	-.002086	-.005823	.0492389
#2	-.002505	417.9572	26.73403	-.002551	-.006144	.0482792
#3	-.002975	428.9704	26.74775	-.002756	-.005798	.0476967

Elem	Sr4077
Units	ppm
Avg	1.167393
Stddev	.013260
%RSD	1.135903
#1	1.159069
#2	1.160424
#3	1.182684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4235.043	90208.02	14553.90	3020.227	3703.828
Stddev	37.433	218.12	24.41	7.944	48.180
%RSD	.8838886	.2417926	.1677007	.2630206	1.300824
#1	4260.187	90236.44	14560.16	3029.045	3731.814
#2	4252.918	90410.53	14574.56	3013.629	3731.476
#3	4192.023	89977.09	14526.97	3018.008	3648.194

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-13 Acquired: 1/24/2025 18:03:21 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0276073**	**-.003603**	**.0133895**	**-.003989**	**-.001125**	**36.51420**
Stddev	.0010257	.001422	.0007591	.000908	.001257	.22501
%RSD	3.715461	39.47904	5.669506	22.75858	111.7717	.6162144
#1	.0287745	-.002807	.0141321	-.003444	-.001076	36.27748
#2	.0268497	-.002756	.0134215	-.003485	-.002406	36.53980
#3	.0271976	-.005245	.0126149	-.005037	.000107	36.72531

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0870308**	**.0054171**	**.0185571**	**283.0250**	**.0348456**	**.7450936**
Stddev	.0005716	.0000333	.0000478	1.1179	.0000631	.0017251
%RSD	.6568206	.6148617	.2578453	.3949991	.1810685	.2315220
#1	.0871467	.0054480	.0185019	282.7464	.0347941	.7452083
#2	.0864101	.0053818	.0185853	284.2559	.0348266	.7433140
#3	.0875357	.0054214	.0185842	282.0727	.0349160	.7467584

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5273506**	**19.96850**	**17.38735**	**51.88607**	**.9263132**	**.0025392**
Stddev	.0014552	.07446	.09876	.12685	.0017767	.0002191
%RSD	.2759540	.3729024	.5679728	.2444832	.1918055	8.627799
#1	.5286010	19.89334	17.28711	51.73960	.9260854	.0022866
#2	.5257532	19.96991	17.39038	51.95797	.9246614	.0026782
#3	.5276976	20.04225	17.48455	51.96064	.9281928	.0026527

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.954257**	**.0804122**	**1.334104**	**4.836457**	**2.577599**	**.5764640**
Stddev	.157122	.0010562	.005178	.032524	.002211	.0022463
%RSD	2.638813	1.313434	.3881231	.6724671	.0857765	.3896762
#1	6.091732	.0811374	1.328137	4.798925	2.578279	.5790426
#2	5.988052	.0808987	1.336754	4.856376	2.579390	.5754177
#3	5.782988	.0792005	1.337420	4.854069	2.575128	.5749317

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-13 Acquired: 1/24/2025 18:03:21 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000505	F 339.5002	F 14.49062	-.002764	-.006681	.0418848
Stddev	.000436	.4886	.04117	.001188	.001047	.0005400
%RSD	86.36013	.1439172	.2840831	42.97270	15.67419	1.289194
#1	-.000206	339.4342	14.53522	-.003917	-.005489	.0413699
#2	-.001005	339.0480	14.48258	-.002832	-.007452	.0424467
#3	-.000303	340.0185	14.45407	-.001544	-.007102	.0418378

Elem	Sr4077
Units	ppm
Avg	1.506852
Stddev	.010512
%RSD	.6976392
#1	1.518675
#2	1.498560
#3	1.503320

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3767.806	80384.38	13068.42	2673.718	3755.526
Stddev	7.843	220.61	83.54	13.293	2.206
%RSD	.2081617	.2744433	.6392292	.4971791	.0587501
#1	3774.618	80620.77	12992.28	2688.727	3756.619
#2	3759.232	80183.97	13055.22	2663.428	3756.972
#3	3769.567	80348.40	13157.78	2669.000	3752.986

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-14 Acquired: 1/24/2025 18:07:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067354**	**.0053616**	**.0047526**	**.0002302**	**-.000241**	**54.29221**
Stddev	.0010526	.0004985	.0004015	.0010392	.001170	.35098
%RSD	15.62834	9.297483	8.447642	451.4992	484.7314	.6464608
#1	.0064030	.0050678	.0043265	.0008892	.000849	53.98375
#2	.0058892	.0059372	.0048077	-.000968	-.001477	54.67409
#3	.0079142	.0050799	.0051238	.000769	-.000096	54.21878

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0624370**	**.0021897**	**.0041056**	**80.61874**	**.0313196**	**.3101203**
Stddev	.0003322	.0000513	.0000872	.35542	.0001752	.0003478
%RSD	.5320174	2.340946	2.124375	.4408633	.5594755	.1121614
#1	.0621413	.0022265	.0041321	80.36922	.0311457	.3099472
#2	.0627964	.0022115	.0041766	81.02569	.0313169	.3098930
#3	.0623732	.0021312	.0040083	80.46133	.0314961	.3105207

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1894008**	**24.39937**	**5.039472**	**35.53458**	**.2157865**	**.0006299**
Stddev	.0012903	.15386	.014163	.15707	.0000749	.0001154
%RSD	.6812689	.6305835	.2810407	.4420310	.0346876	18.32081
#1	.1904648	24.28109	5.032381	35.40847	.2157019	.0006758
#2	.1879656	24.57331	5.055780	35.71053	.2158440	.0007153
#3	.1897722	24.34371	5.030254	35.48476	.2158136	.0004986

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.650557**	**.0048080**	**.8345097**	**6.152318**	**.2278271**	**.4368764**
Stddev	.100434	.0011891	.0040929	.057200	.0013456	.0010545
%RSD	2.159607	24.73162	.4904561	.9297239	.5905995	.2413601
#1	4.549755	.0034354	.8378413	6.107951	.2270157	.4376183
#2	4.750618	.0055231	.8357468	6.216874	.2270854	.4356694
#3	4.651299	.0054656	.8299409	6.132128	.2293803	.4373416

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-14 Acquired: 1/24/2025 18:07:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001032	F 299.9502	F 18.81792	-.002426	.0122864	.0476890
Stddev	.000252	1.1855	.08461	.000517	.0002741	.0002473
%RSD	24.45310	.3952169	.4496347	21.30062	2.230911	.5185820
#1	-.001323	299.1274	18.90674	-.002147	.0119895	.0479626
#2	-.000879	299.4141	18.73825	-.002110	.0123399	.0476230
#3	-.000894	301.3090	18.80878	-.003023	.0125298	.0474813

Elem	Sr4077
Units	ppm
Avg	.4840809
Stddev	.0028975
%RSD	.5985605
#1	.4823959
#2	.4874266
#3	.4824201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5344.657	114671.3	18540.73	3865.487	3903.664
Stddev	9.864	111.6	126.44	10.275	1.163
%RSD	.1845595	.0973021	.6819711	.2658151	.0297964
#1	5339.931	114783.2	18454.30	3855.947	3903.041
#2	5338.044	114670.6	18685.86	3876.366	3905.006
#3	5355.994	114560.1	18482.05	3864.147	3902.945

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-15 Acquired: 1/24/2025 18:11:32 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192912	-.001029	.0988136	.0386126	.0159314	119.2954
Stddev	.0034517	.002508	.0009012	.0025933	.0011680	.5228
%RSD	17.89260	243.7319	.9119747	6.716140	7.331508	.4382091
#1	.0178916	-.001751	.0988646	.0361971	.0168012	118.7094
#2	.0232229	.001761	.0978881	.0382878	.0146038	119.7138
#3	.0167592	-.003096	.0996882	.0413531	.0163891	119.4631

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0854518	.0052333	.0226570	81.96009	.1179462	.5275754
Stddev	.0007792	.0000966	.0001138	.24796	.0003732	.0013739
%RSD	.9118774	1.845374	.5022096	.3025425	.3164452	.2604089
#1	.0849956	.0053331	.0227785	81.71269	.1183526	.5283045
#2	.0863516	.0052264	.0225529	82.20862	.1176187	.5259907
#3	.0850083	.0051404	.0226396	81.95894	.1178674	.5284310

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.128435	185.8953	5.156511	57.46778	.3527343	.0058989
Stddev	.003046	.6680	.016837	.15107	.0011016	.0003617
%RSD	.2699140	.3593646	.3265181	.2628864	.3122906	6.131625
#1	1.131021	185.2334	5.140974	57.34450	.3526712	.0058701
#2	1.129207	186.5693	5.174401	57.63631	.3516657	.0062741
#3	1.125078	185.8834	5.154157	57.42252	.3538661	.0055525

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.689280	.2524434	1.620206	16.40529	F 13.29587	1.211270
Stddev	.127908	.0010399	.003851	.08444	.04272	.002287
%RSD	1.912130	.4119313	.2377052	.5146885	.3213170	.1888129
#1	6.553729	.2522005	1.624626	16.30794	13.33334	1.211043
#2	6.807848	.2515465	1.618426	16.45868	13.24935	1.213662
#3	6.706262	.2535833	1.617567	16.44924	13.30492	1.209105

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-15 Acquired: 1/24/2025 18:11:32 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001941	F 612.0184	F 40.13079	-.000660	.2104339	.1219649
Stddev	.000166	1.8130	.13448	.001243	.0013731	.0010586
%RSD	8.562059	.2962248	.3351125	188.2057	.6524979	.8679719
#1	-.001811	613.3605	40.25299	-.001849	.2119385	.1218006
#2	-.002128	609.9560	40.15268	.000630	.2101147	.1230961
#3	-.001882	612.7387	39.98671	-.000761	.2092485	.1209981

Elem	Sr4077
Units	ppm
Avg	.3508060
Stddev	.0013857
%RSD	.3950036
#1	.3492405
#2	.3518750
#3	.3513026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3990.186	81916.63	13470.91	2818.363	3966.297
Stddev	10.388	310.61	27.94	5.350	7.217
%RSD	.2603296	.3791825	.2073965	.1898129	.1819665
#1	3978.372	82263.73	13448.52	2820.308	3961.213
#2	3997.891	81664.85	13461.99	2822.468	3974.558
#3	3994.293	81821.30	13502.22	2812.313	3963.121

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-16 Acquired: 1/24/2025 18:15:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002107**	**-.009854**	**.0057418**	**.0297751**	**.0180792**	**4.735958**
Stddev	.001045	.001823	.0007035	.0019342	.0005280	.028354
%RSD	49.60032	18.49933	12.25186	6.495899	2.920660	.5986883
#1	-.001849	-.010742	.0055170	.0290269	.0185547	4.722607
#2	-.001216	-.011062	.0051782	.0319716	.0175109	4.716744
#3	-.003258	-.007757	.0065302	.0283268	.0181718	4.768523

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0935409**	**.0025484**	**.0077545**	**419.8190**	**.0004857**	**.0248712**
Stddev	.0009148	.0000887	.0001222	1.6938	.0001439	.0001318
%RSD	.9779831	3.481258	1.576293	.4034581	29.61706	.5297116
#1	.0943999	.0025278	.0076146	417.9344	.0005453	.0247526
#2	.0925790	.0024718	.0078081	421.2144	.0003217	.0248480
#3	.0936439	.0026456	.0078408	420.3082	.0005902	.0250130

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.023382**	**190.9998**	**7.337250**	**48.41829**	**.0944861**	**.0053562**
Stddev	.000897	.7137	.037077	.19976	.0001188	.0001783
%RSD	3.836568	.3736771	.5053298	.4125783	.1257751	3.328681
#1	-.022769	191.0519	7.369841	48.52427	.0945133	.0051717
#2	-.022966	190.2615	7.296911	48.18787	.0943560	.0053693
#3	-.024412	191.6860	7.344997	48.54273	.0945890	.0055276

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.19436**	**-.013115**	**1.038489**	**49.68025**	**.0060133**	**1.276337**
Stddev	.19655	.000981	.010125	.27112	.0032965	.002561
%RSD	1.384683	7.481321	.9749451	.5457330	54.81961	.2006212
#1	14.20670	-.013537	1.046399	49.69176	.0023697	1.275461
#2	13.99194	-.013814	1.027079	49.40355	.0087889	1.274329
#3	14.38445	-.011993	1.041990	49.94543	.0068814	1.279221

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-16 Acquired: 1/24/2025 18:15:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002332	F 369.0480	F 17.02473	-.002100	-.014217	.0713711
Stddev	.000086	1.1286	.07837	.001437	.000411	.0021277
%RSD	3.704186	.3058076	.4603325	68.41051	2.890083	2.981223
#1	-.002403	368.0034	17.10613	-.000465	-.013836	.0721593
#2	-.002236	368.8955	17.01827	-.003160	-.014161	.0689617
#3	-.002358	370.2451	16.94979	-.002675	-.014653	.0729922

Elem	Sr4077
Units	ppm
Avg	1.021886
Stddev	.008915
%RSD	.8723629
#1	1.025613
#2	1.028332
#3	1.011713

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3482.069	73962.91	11992.46	2471.372	3681.486
Stddev	12.623	85.67	42.84	10.135	12.083
%RSD	.3625215	.1158226	.3572051	.4100779	.3282212
#1	3488.296	73998.62	11998.35	2463.092	3685.460
#2	3490.368	74024.95	11946.98	2482.674	3691.082
#3	3467.542	73865.17	12032.04	2468.349	3667.916

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-17 Acquired: 1/24/2025 18:19:42 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056346**	**.0027836**	**.0151358**	**.0010929**	**-.000491**	**61.34300**
Stddev	.0018959	.0014480	.0002269	.0028664	.001412	.13242
%RSD	33.64678	52.02042	1.499187	262.2668	287.8534	.2158739
#1	.0046256	.0028194	.0148752	-.002068	.000605	61.44911
#2	.0044566	.0013180	.0152897	.001824	.000007	61.19460
#3	.0078216	.0042134	.0152424	.003523	-.002084	61.38530

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0839125**	**.0076613**	**.0092967**	**89.18156**	**.0371663**	**.8643215**
Stddev	.0004886	.0000736	.0000469	.21254	.0003193	.0036728
%RSD	.5823042	.9609131	.5046108	.2383235	.8591962	.4249297
#1	.0843948	.0075780	.0093262	89.42026	.0372522	.8624185
#2	.0834178	.0077175	.0092426	89.01281	.0368128	.8619907
#3	.0839248	.0076885	.0093214	89.11162	.0374339	.8685552

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2290995**	**33.05441**	**22.09287**	**49.22096**	**2.037184**	**.0039416**
Stddev	.0014217	.08559	.00564	.12171	.008907	.0000507
%RSD	.6205479	.2589242	.0255229	.2472803	.4372056	1.286362
#1	.2300406	33.14374	22.08943	49.35830	2.031922	.0039075
#2	.2297937	32.97314	22.09938	49.12646	2.032162	.0039176
#3	.2274641	33.04635	22.08980	49.17812	2.047468	.0039999

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.332781**	**.0073576**	**1.587001**	**4.299298**	**1.488600**	**.5086817**
Stddev	.251575	.0006153	.006713	.042669	.006161	.0009394
%RSD	4.717527	8.362205	.4230207	.9924691	.4138631	.1846802
#1	5.609371	.0080607	1.590403	4.347260	1.493795	.5097584
#2	5.117587	.0069183	1.579268	4.285086	1.481794	.5082574
#3	5.271385	.0070936	1.591332	4.265549	1.490211	.5080292

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-17 Acquired: 1/24/2025 18:19:42 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001410	F 314.8233	F 21.82160	-.001487	.0057472	.1006393
Stddev	.000163	1.6850	.09190	.000483	.0006655	.0012212
%RSD	11.54695	.5352145	.4211261	32.46577	11.58002	1.213491
#1	-.001336	313.7856	21.92637	-.001312	.0049941	.1020486
#2	-.001596	313.9169	21.78377	-.001116	.0062563	.0998919
#3	-.001297	316.7675	21.75465	-.002033	.0059910	.0999773

Elem	Sr4077
Units	ppm
Avg	.4576007
Stddev	.0012441
%RSD	.2718795
#1	.4590060
#2	.4566396
#3	.4571567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4528.418	94604.57	15412.54	3184.334	3984.194
Stddev	8.510	292.57	20.39	9.772	14.855
%RSD	.1879189	.3092524	.1322708	.3068693	.3728394
#1	4528.700	94501.62	15407.04	3180.106	3990.014
#2	4536.783	94934.70	15435.12	3195.508	3995.257
#3	4519.771	94377.40	15395.47	3177.389	3967.310

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-18 Acquired: 1/24/2025 18:23:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040005**	**.0014764**	**.0036772**	**-.003824**	**-.001225**	**40.06976**
Stddev	.0006359	.0027604	.0008786	.001533	.001751	.17502
%RSD	15.89643	186.9621	23.89452	40.08352	142.9727	.4367905
#1	.0036601	-.001707	.0042750	-.003177	-.002699	39.94429
#2	.0036072	.003211	.0026684	-.005575	.000711	39.99529
#3	.0047342	.002925	.0040881	-.002721	-.001687	40.26970

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0913109**	**.0027195**	**.0069388**	**282.9395**	**.0299197**	**.2088162**
Stddev	.0002579	.0000215	.0000624	.7315	.0003308	.0002569
%RSD	.2824269	.7898959	.8991431	.2585405	1.105595	.1230149
#1	.0910879	.0027358	.0069822	282.1080	.0296449	.2088602
#2	.0912514	.0026951	.0068673	283.2265	.0298275	.2085401
#3	.0915933	.0027275	.0069669	283.4840	.0302869	.2090482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2826458**	**9.679564**	**2.927350**	**65.26450**	**.4357389**	**.0003447**
Stddev	.0015463	.054614	.005865	.14489	.0023259	.0001232
%RSD	.5470640	.5642223	.2003405	.2220089	.5337911	35.73574
#1	.2817570	9.636794	2.925575	65.26320	.4353445	.0004349
#2	.2844313	9.660815	2.922578	65.12026	.4336354	.0003947
#3	.2817492	9.741084	2.933897	65.41003	.4382368	.0002044

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.133720**	**.0133244**	**1.364808**	**.8285762**	**.3849546**	**.6018152**
Stddev	.128988	.0004172	.006178	.0400276	.0030638	.0002766
%RSD	2.102938	3.131248	.4526707	4.830893	.7958796	.0459562
#1	6.131671	.0137839	1.370077	.8222053	.3864235	.6019172
#2	6.005768	.0129693	1.358008	.7921161	.3814329	.6020263
#3	6.263720	.0132199	1.366338	.8714072	.3870073	.6015021

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-18 Acquired: 1/24/2025 18:23:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000496	F 325.4159	F 23.77387	-.002686	.0005259	.0911831
Stddev	.000205	1.1128	.05682	.001225	.0003315	.0010201
%RSD	41.33868	.3419736	.2389974	45.62109	63.02320	1.118729
#1	-.000350	325.9300	23.83937	-.001537	.0004805	.0902823
#2	-.000730	324.1389	23.74431	-.002546	.0002195	.0909763
#3	-.000407	326.1787	23.73792	-.003975	.0008777	.0922908

Elem	Sr4077
Units	ppm
Avg	1.011419
Stddev	.013553
%RSD	1.340021
#1	1.022536
#2	.996321
#3	1.015399

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3878.935	81908.17	13603.27	2718.847	3826.795
Stddev	2.730	302.63	62.08	23.963	4.463
%RSD	.0703694	.3694757	.4563476	.8813798	.1166209
#1	3875.890	81729.06	13534.69	2702.360	3826.867
#2	3879.751	82257.59	13655.64	2746.336	3831.222
#3	3881.163	81737.88	13619.46	2707.846	3822.297

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-19 Acquired: 1/24/2025 18:28:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217116**	**.0042453**	**.0105920**	**-.004022**	**-.001708**	**47.63948**
Stddev	.0005861	.0014969	.0013586	.001600	.000847	.34287
%RSD	2.699571	35.26068	12.82665	39.77284	49.59898	.7197275
#1	.0220272	.0025571	.0105265	-.003347	-.002005	48.03359
#2	.0210353	.0047681	.0092673	-.002870	-.000752	47.40963
#3	.0220724	.0054106	.0119821	-.005849	-.002366	47.47523

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0693494**	**.0050942**	**.0036762**	**173.0610**	**.0156981**	**.1846160**
Stddev	.0003680	.0000369	.0001066	.7955	.0001859	.0002277
%RSD	.5306658	.7235895	2.900768	.4596575	1.184503	.1233366
#1	.0695436	.0050862	.0035896	173.9732	.0158983	.1843942
#2	.0689250	.0050620	.0037953	172.5118	.0156653	.1846047
#3	.0695796	.0051344	.0036437	172.6979	.0155307	.1848491

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0656363**	**.7833716**	**7.708350**	**37.08333**	**.2750765**	**.0007284**
Stddev	.0007650	.0076008	.048747	.16389	.0002080	.0001554
%RSD	1.165517	.9702668	.6323929	.4419473	.0756226	21.33034
#1	.0660694	.7917681	7.763934	37.27236	.2749925	.0006992
#2	.0660866	.7769606	7.672867	36.99660	.2753134	.0008963
#3	.0647531	.7813862	7.688250	36.98104	.2749236	.0005897

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.336196**	**.0161243**	**1.066529**	**7.922794**	F **13.20090**	**.3914477**
Stddev	.297719	.0002807	.002220	.078382	.02388	.0033984
%RSD	6.865897	1.740946	.2081088	.9893199	.1808675	.8681733
#1	4.029923	.0164483	1.069041	7.992668	13.19492	.3876125
#2	4.624552	.0159519	1.064833	7.838038	13.18058	.3940848
#3	4.354113	.0159729	1.065712	7.937674	13.22720	.3926459

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-19 Acquired: 1/24/2025 18:28:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000438	F 308.6939	9.060932	-.001371	-.004121	.0141856
Stddev	.000130	.9260	.009041	.001047	.000247	.0007390
%RSD	29.79790	.2999613	.0997775	76.37686	5.985242	5.209770
#1	-.000360	307.9370	9.063996	-.000351	-.004404	.0138759
#2	-.000365	308.4184	9.050757	-.002444	-.004004	.0136518
#3	-.000588	309.7264	9.068042	-.001318	-.003954	.0150292

Elem	Sr4077
Units	ppm
Avg	1.040529
Stddev	.009675
%RSD	.9298187
#1	1.040693
#2	1.050121
#3	1.030773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4855.672	102087.3	16658.12	3408.665	3882.900
Stddev	14.924	135.3	111.65	5.759	9.796
%RSD	.3073482	.1325418	.6702265	.1689572	.2522835
#1	4869.310	101951.1	16785.34	3415.314	3893.649
#2	4857.976	102089.2	16576.45	3405.435	3880.576
#3	4839.731	102221.6	16612.57	3405.245	3874.475

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-20 Acquired: 1/24/2025 18:32:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046364**	**-.002954**	**.0113888**	**.0079642**	**.0025296**	**83.20164**
Stddev	.0005070	.002418	.0009412	.0020173	.0007132	.62055
%RSD	10.93442	81.86529	8.264594	25.32928	28.19430	.7458335
#1	.0045647	-.001544	.0111156	.0101409	.0026057	83.60566
#2	.0051754	-.001571	.0124364	.0061575	.0017814	82.48713
#3	.0041691	-.005746	.0106144	.0075943	.0032017	83.51213

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0787371**	**.0058951**	**.0134520**	**127.6965**	**.1017312**	**1.351965**
Stddev	.0011361	.0000643	.0001093	.7793	.0003341	.004473
%RSD	1.442935	1.091213	.8125800	.6102988	.3284438	.3308329
#1	.0798831	.0059373	.0133337	127.8850	.1018276	1.353997
#2	.0776111	.0058211	.0134733	126.8402	.1013595	1.346837
#3	.0787170	.0059270	.0135492	128.3644	.1020066	1.355062

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9238086**	**56.17627**	**15.62501**	**53.20586**	**1.105010**	**.0035295**
Stddev	.0050580	.34198	.10114	.26977	.003627	.0001289
%RSD	.5475166	.6087541	.6473192	.5070333	.3281951	3.653538
#1	.9206633	56.36048	15.63310	53.33934	1.107672	.0035394
#2	.9211194	55.78168	15.52007	52.89537	1.100880	.0036532
#3	.9296431	56.38665	15.72187	53.38287	1.106480	.0033959

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.978294**	**.1603141**	**1.316100**	**13.37095**	**2.136421**	**.6627891**
Stddev	.198670	.0005820	.010809	.14632	.003626	.0004097
%RSD	2.846971	.3630590	.8213180	1.094333	.1697110	.0618137
#1	6.759155	.1596422	1.308642	13.43219	2.132235	.6630865
#2	7.146629	.1606348	1.311162	13.20396	2.138442	.6623218
#3	7.029099	.1606652	1.328497	13.47670	2.138585	.6629590

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1106-20 Acquired: 1/24/2025 18:32:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001396	F 318.4632	F 31.31567	-.002640	.0026195	.1033136
Stddev	.000056	.9437	.03244	.000602	.0004334	.0012171
%RSD	4.043663	.2963258	.1035837	22.78486	16.54724	1.178093
#1	-.001430	318.3512	31.27822	-.002681	.0021983	.1029379
#2	-.001427	317.5806	31.33402	-.003220	.0030642	.1023286
#3	-.001331	319.4579	31.33477	-.002019	.0025959	.1046743

Elem	Sr4077
Units	ppm
Avg	.5639314
Stddev	.0042376
%RSD	.7514376
#1	.5651299
#2	.5592237
#3	.5674408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4314.525	89873.90	14923.26	3016.321	3904.864
Stddev	18.235	542.22	61.81	20.059	13.597
%RSD	.4226310	.6033092	.4141805	.6650217	.3482002
#1	4334.901	90012.92	14994.44	3027.262	3909.970
#2	4308.932	90333.07	14883.08	3028.530	3915.170
#3	4299.742	89275.71	14892.27	2993.170	3889.454

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163BL Acquired: 1/24/2025 18:36:05 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW163 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016198**	**-.000773**	**-.000805**	**-.001041**	**-.000891**	**.0066851**
Stddev	.0010712	.000548	.001315	.001053	.002036	.0099511
%RSD	66.12752	70.84097	163.3725	101.1288	228.3432	148.8544
#1	.0011285	-.000143	.000624	.000067	-.002023	-.003828
#2	.0008825	-.001138	-.001074	-.002028	-.002110	.007925
#3	.0028485	-.001038	-.001964	-.001162	.001458	.015958

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008600**	**-.000052**	**-.000041**	**.0101705**	**.0004032**	**-.000143**
Stddev	.000639	.000053	.000004	.0046174	.0002902	.000059
%RSD	7.428421	101.4601	8.581141	45.39955	71.98800	41.45039
#1	-.008151	-.000054	-.000041	.0153794	.0007073	-.000211
#2	-.009331	.000002	-.000037	.0065806	.0003730	-.000110
#3	-.008316	-.000105	-.000044	.0085516	.0001292	-.000107

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000424**	**.0070675**	**-.000228**	**-.014578**	**-.000052**	**.0005106**
Stddev	.000601	.0010841	.000185	.013144	.000338	.0002261
%RSD	141.8030	15.33978	80.88734	90.16075	645.0359	44.27841
#1	.000205	.0063231	-.000307	-.001446	.000135	.0006953
#2	-.000993	.0083113	-.000361	-.014554	-.000442	.0002585
#3	-.000484	.0065680	-.000017	-.027733	.000150	.0005780

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4565594**	**-.000068**	**.0000199**	**-.275464**	**.0046143**	F **-.011013**
Stddev	.0953692	.001116	.0007182	.063690	.0016274	.000747
%RSD	20.88868	1648.480	3605.892	23.12094	35.26873	6.785794
#1	.5528651	-.001274	.0008141	-.296884	.0063873	-.010201
#2	.3621551	.000145	-.000584	-.325682	.0042673	-.011673
#3	.4546579	.000927	-.000171	-.203825	.0031884	-.011164

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163BL Acquired: 1/24/2025 18:36:05 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW163 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000644**	**.0589315**	**.0032688**	**-.000381**	**.0000182**	**-.002737**
Stddev	.000178	.0064938	.0004176	.000258	.0001304	.000889
%RSD	27.63478	11.01915	12.77622	67.60851	717.4525	32.48870
#1	-.000444	.0663588	.0029220	-.000565	.0001471	-.003382
#2	-.000701	.0561094	.0031519	-.000087	.0000210	-.001723
#3	-.000786	.0543263	.0037324	-.000491	-.000114	-.003106

Elem	Sr4077
Units	ppm
Avg	**-.000003**
Stddev	.000069
%RSD	2627.637
#1	-.000078
#2	.000057
#3	.000013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.940**	**71552.05**	**11249.28**	**2409.973**	**4375.492**
Stddev	3.094	55.56	93.30	2.607	3.169
%RSD	.0887619	.0776567	.8293452	.1081675	.0724178
#1	3484.874	71517.56	11147.98	2407.918	4377.873
#2	3489.427	71522.45	11331.67	2409.097	4376.707
#3	3483.520	71616.15	11268.20	2412.905	4371.895

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163BS Acquired: 1/24/2025 18:40:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS163 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194735**	**.0480730**	**.0184952**	**.0628865**	**.1064445**	**.3671088**	**.3499020**
Stddev	.0018416	.0007903	.0005394	.0019037	.0014892	.0061794	.0016416
%RSD	9.456862	1.644063	2.916522	3.027225	1.399076	1.683262	.4691557
#1	.0175014	.0486379	.0183282	.0641359	.1063023	.3710480	.3514390
#2	.0211484	.0484112	.0180590	.0606955	.1050314	.3599868	.3481727
#3	.0197708	.0471698	.0190984	.0638280	.1079997	.3702916	.3500943

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093082**	**.0094500**	**9.199381**	**.0202423**	**.0938680**	**.0504764**	**.2018083**
Stddev	.0000796	.0000408	.044242	.0002682	.0006142	.0013233	.0045562
%RSD	.8550003	.4319346	.4809265	1.324906	.6543665	2.621544	2.257671
#1	.0092931	.0094649	9.230872	.0204857	.0933689	.0490685	.2032865
#2	.0093943	.0094813	9.148799	.0199548	.0936812	.0516946	.1966966
#3	.0092373	.0094038	9.218473	.0202866	.0945540	.0506660	.2054419

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0280971**	**8.178304**	**.0769857**	**.0180702**	**8.977765**	**.0986976**	**.1160557**
Stddev	.0002045	.036170	.0000744	.0003024	.308050	.0020685	.0016638
%RSD	.7276495	.4422627	.0966707	1.673343	3.431256	2.095812	1.433591
#1	.0278670	8.219551	.0770321	.0184170	9.306537	.1009518	.1170240
#2	.0282577	8.163361	.0768999	.0178622	8.695792	.0982545	.1141346
#3	.0281667	8.152001	.0770252	.0179312	8.930967	.0968865	.1170085

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.501226**	**.0176669**	**-.009738**	**.0188078**	**.2058301**	**.4276933**	**.0132555**
Stddev	.033620	.0022332	.000319	.0001787	.0012560	.0012330	.0003464
%RSD	.3954740	12.64052	3.280653	.9503132	.6101952	.2882841	2.613154
#1	8.539960	.0164806	-.009371	.0189403	.2070267	.4275143	.0133902
#2	8.484112	.0202429	-.009887	.0186045	.2045222	.4265596	.0128620
#3	8.479606	.0162772	-.009955	.0188785	.2059416	.4290060	.0135143

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166163BS Acquired: 1/24/2025 18:40:14 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS163 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1949160	.0219276	.1673810
Stddev	.0005276	.0009174	.0009279
%RSD	.2706975	4.183561	.5543704
#1	.1954937	.0213105	.1683886
#2	.1947949	.0229818	.1665617
#3	.1944595	.0214906	.1671926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3411.240	72531.07	11102.14	2421.667	4189.122
Stddev	5.689	138.36	44.22	7.768	6.477
%RSD	.1667622	.1907543	.3982817	.3207663	.1546127
#1	3409.461	72385.98	11131.79	2420.947	4182.430
#2	3417.606	72545.71	11051.32	2414.284	4195.359
#3	3406.654	72661.53	11123.30	2429.769	4189.576

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166132TB Acquired: 1/24/2025 18:44:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB132 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014999	-.005264	-.001815	.0090881	.0009507	.0114953
Stddev	.0010659	.000756	.000691	.0007002	.0012509	.0032247
%RSD	71.06255	14.35886	38.06326	7.704637	131.5752	28.05224
#1	.0023391	-.005873	-.001880	.0092932	-.000450	.0148303
#2	.0018600	-.005501	-.002470	.0083083	.001958	.0112619
#3	.0003006	-.004418	-.001094	.0096629	.001344	.0083936

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010595	-.000075	-.000122	-.002633	.0018627	-.000068
Stddev	.001131	.000018	.000072	.004039	.0001258	.000324
%RSD	10.67712	23.57461	58.92030	153.3884	6.751925	479.3298
#1	-.009399	-.000056	-.000050	.001967	.0019983	.000169
#2	-.010739	-.000091	-.000121	-.004268	.0017498	.000064
#3	-.011647	-.000076	-.000194	-.005598	.0018400	-.000437

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011770	.0129098	.0013415	-.009527	.0036947	.0004876
Stddev	.0008021	.0026396	.0003169	.009222	.0003592	.0003532
%RSD	68.14605	20.44690	23.62055	96.79940	9.722199	72.43657
#1	.0009384	.0159253	.0017014	.001082	.0036180	.0002734
#2	.0020713	.0110178	.0012187	-.014031	.0033801	.0002942
#3	.0005213	.0117862	.0011044	-.015632	.0040861	.0008953

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1424.337	-.000059	.0009371	-1.15556	.0074143	-.013633
Stddev	13.523	.001511	.0008119	.04245	.0031966	.000584
%RSD	.9494254	2571.274	86.63342	3.673177	43.11333	4.285832
#1	1439.952	.001591	.0014869	-1.18410	.0066561	-.013085
#2	1416.567	-.000391	.0000046	-1.17580	.0046651	-.013568
#3	1416.492	-.001375	.0013198	-1.10678	.0109219	-.014248

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166132TB Acquired: 1/24/2025 18:44:17 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB132 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000207	.0492760	.0035293	.0029707	-.000912	-.005395
Stddev	.000120	.0041912	.0027389	.0003444	.000529	.000969
%RSD	58.27334	8.505627	77.60358	11.59470	57.95164	17.95800
#1	-.000123	.0446699	.0035374	.0025937	-.000510	-.004337
#2	-.000345	.0528651	.0007864	.0030495	-.000716	-.005607
#3	-.000153	.0502931	.0062641	.0032689	-.001511	-.006240

Elem	Sr4077
Units	ppm
Avg	.0000033
Stddev	.0000396
%RSD	1207.100
#1	-.000023
#2	-.000016
#3	.000049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2960.580	62195.14	11084.65	2095.838	3409.471
Stddev	9.370	145.24	68.81	6.799	5.089
%RSD	.3164965	.2335302	.6207764	.3244020	.1492534
#1	2970.994	62049.55	11020.22	2091.389	3414.923
#2	2957.918	62340.04	11076.59	2092.460	3404.848
#3	2952.829	62195.82	11157.13	2103.664	3408.640

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-01 Acquired: 1/24/2025 18:48:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1513800**	**-.004875**	**.0065656**	**.0081975**	**.1205482**	**-.113478**
Stddev	.0041194	.002835	.0025253	.0012567	.0008710	.006449
%RSD	2.721220	58.14526	38.46274	15.33007	.7224950	5.683233
#1	.1478743	-.005000	.0044107	.0068713	.1214902	-.110212
#2	.1559171	-.001980	.0059417	.0093706	.1197721	-.109316
#3	.1503487	-.007646	.0093444	.0083504	.1203824	-.120907

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6003426**	**-.000300**	**.0006402**	**450.2302**	**.0000515**	**.0472456**
Stddev	.0023926	.000009	.0000502	3.4011	.0001308	.0005323
%RSD	.3985369	2.855880	7.845195	.7554226	253.8811	1.126746
#1	.6030675	-.000299	.0006525	450.0832	.0000259	.0469650
#2	.5993749	-.000309	.0006831	453.7025	.0001933	.0469123
#3	.5985855	-.000292	.0005850	446.9050	-.000065	.0478595

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001157**	**45.53705**	**1.441161**	**48.84887**	**.0221038**	**.0021377**
Stddev	.001424	.06432	.008405	.10900	.0002530	.0001919
%RSD	123.0997	.1412457	.5831823	.2231291	1.144401	8.977160
#1	.000386	45.60994	1.449914	48.97100	.0221084	.0020844
#2	-.001436	45.48828	1.440415	48.81416	.0218485	.0023507
#3	-.002421	45.51293	1.433155	48.76146	.0223544	.0019782

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1734.866**	**-.001472**	**1.004943**	**36.89522**	**.0574136**	**.6911872**
Stddev	9.403	.001318	.006045	.08990	.0023309	.0005258
%RSD	.5419870	89.57258	.6015210	.2436549	4.059747	.0760665
#1	1740.588	-.002292	1.011638	36.99177	.0574607	.6909655
#2	1739.996	-.002171	1.003306	36.87994	.0597205	.6917875
#3	1724.014	.000049	.999886	36.81394	.0550595	.6908085

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-01 Acquired: 1/24/2025 18:48:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160980	F 31.28503	5.033621	-.001451	-.013425	.0401206
Stddev	.0005541	.09632	.015958	.001133	.000668	.0005728
%RSD	3.441713	.3078656	.3170327	78.12086	4.976934	1.427587
#1	.0155112	31.23673	5.040390	-.000482	-.012946	.0403340
#2	.0166122	31.22242	5.045080	-.002697	-.014188	.0394718
#3	.0161706	31.39594	5.015395	-.001173	-.013140	.0405561

Elem	Sr4077
Units	ppm
Avg	3.560129
Stddev	.014294
%RSD	.4014952
#1	3.548566
#2	3.555712
#3	3.576110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.949	58995.03	10843.69	1942.038	3138.040
Stddev	10.268	73.86	13.68	3.699	17.083
%RSD	.3706930	.1251979	.1262010	.1904707	.5443994
#1	2777.211	58910.47	10843.56	1945.152	3146.560
#2	2774.435	59027.70	10830.08	1937.949	3149.189
#3	2758.202	59046.92	10857.45	1943.012	3118.372

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-02 Acquired: 1/24/2025 18:52:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1481625	-.004916	.0051214	.0094150	.1172541	-.104361
Stddev	.0022566	.000902	.0012544	.0022614	.0030505	.008184
%RSD	1.523064	18.34406	24.49363	24.01960	2.601613	7.842318
#1	.1505829	-.005612	.0036931	.0114523	.1173933	-.108655
#2	.1477880	-.003897	.0060444	.0098110	.1141364	-.109504
#3	.1461165	-.005238	.0056266	.0069817	.1202326	-.094923

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5897026	-.000308	.0005763	447.8873	.0001229	.0476495
Stddev	.0036443	.000025	.0000922	1.7085	.0001857	.0001493
%RSD	.6179912	8.145697	16.00251	.3814666	151.0899	.3133622
#1	.5871659	-.000280	.0006123	446.2099	-.000040	.0475656
#2	.5880632	-.000329	.0006452	449.6253	.000325	.0475610
#3	.5938787	-.000315	.0004715	447.8266	.000083	.0478219

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001398	45.05722	1.426256	48.44567	.0213196	.0021007
Stddev	.000578	.17105	.009466	.26351	.0004513	.0002050
%RSD	41.31659	.3796285	.6636920	.5439291	2.116700	9.757497
#1	-.001466	44.91598	1.419553	48.22201	.0207991	.0020133
#2	-.000789	45.00826	1.422130	48.37885	.0216009	.0023349
#3	-.001938	45.24741	1.437084	48.73616	.0215589	.0019539

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1731.591	-.001715	.9866430	36.40418	.0562235	.6985372
Stddev	23.191	.000395	.0112168	.16198	.0008671	.0037948
%RSD	1.339270	23.01359	1.136861	.4449461	1.542288	.5432470
#1	1710.570	-.002171	.9794515	36.29758	.0567412	.6948365
#2	1727.735	-.001468	.9809099	36.32437	.0552224	.6983555
#3	1756.468	-.001508	.9995676	36.59057	.0567068	.7024196

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-02 Acquired: 1/24/2025 18:52:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154682	F 30.25348	5.044627	-.002614	-.013376	.0389760
Stddev	.0001767	.05113	.065872	.001667	.000246	.0015766
%RSD	1.142606	.1690163	1.305789	63.77841	1.837293	4.044983
#1	.0156239	30.19689	4.983445	-.004297	-.013658	.0406931
#2	.0155045	30.29635	5.036081	-.002583	-.013209	.0375938
#3	.0152761	30.26722	5.114355	-.000963	-.013261	.0386410

Elem	Sr4077
Units	ppm
Avg	3.485251
Stddev	.037004
%RSD	1.061738
#1	3.485055
#2	3.448345
#3	3.522353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2817.922	58543.97	10568.54	1942.657	3185.351
Stddev	8.476	158.75	92.39	10.053	10.035
%RSD	.3007977	.2711577	.8742009	.5174941	.3150312
#1	2822.896	58651.79	10669.05	1951.248	3193.323
#2	2822.735	58618.44	10549.27	1945.123	3188.647
#3	2808.135	58361.68	10487.31	1931.600	3174.082

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-01LX5 Acquired: 1/24/2025 18:57:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271751	-.001801	.0009511	.0017174	.0212601	-.042529	.1029019
Stddev	.0012268	.001933	.0004663	.0011259	.0002431	.011577	.0009421
%RSD	4.514575	107.3589	49.03324	65.55791	1.143459	27.22135	.9155099
#1	.0262758	-.004009	.0004434	.0029370	.0214084	-.055371	.1030769
#2	.0266769	-.000985	.0013603	.0007175	.0213923	-.032894	.1037441
#3	.0285727	-.000409	.0010495	.0014977	.0209795	-.039321	.1018846

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	.0001187	84.72067	.0000824	.0096997	-.000627	8.761690
Stddev	.000060	.0000763	.37089	.0004726	.0001701	.001679	.023227
%RSD	149.8764	64.28242	.4377806	573.3916	1.753300	267.8103	.2651013
#1	-.000104	.0000382	84.84244	.0006038	.0095090	.000446	8.764130
#2	.000014	.0001279	85.01537	-.000039	.0097548	-.002562	8.783601
#3	-.000029	.0001900	84.30420	-.000318	.0098354	.000235	8.737339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2761704	9.351569	.0043957	.0002857	332.8664	.0006754	.1821704
Stddev	.0010004	.018514	.0004747	.0005347	.9060	.0016000	.0016745
%RSD	.3622323	.1979811	10.79853	187.1936	.2721806	236.8977	.9191865
#1	.2760160	9.331456	.0038496	.0004583	333.3038	.0017646	.1803351
#2	.2772390	9.367900	.0046274	-.000314	331.8247	-.001162	.1836150
#3	.2752562	9.355352	.0047100	.000713	333.4706	.001423	.1825611

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.435567	.0133587	.1404574	.0027920	5.824700	1.016217	-.002060
Stddev	.020967	.0024961	.0006342	.0001544	.013974	.000923	.000899
%RSD	.3257995	18.68556	.4515028	5.528677	.2399046	.0908009	43.63827
#1	6.422127	.0104787	.1398516	.0028874	5.811518	1.017282	-.001277
#2	6.424847	.0146996	.1404041	.0026139	5.823231	1.015703	-.003042
#3	6.459726	.0148978	.1411165	.0028747	5.839350	1.015666	-.001862

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-01LX5 Acquired: 1/24/2025 18:57:03 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003264	.0101842	.6558418
Stddev	.000267	.0018065	.0027029
%RSD	8.174973	17.73832	.4121331
#1	-.003340	.0081702	.6581587
#2	-.002968	.0107206	.6564945
#3	-.003486	.0116617	.6528723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3171.879	66248.77	10912.32	2221.822	3714.762
Stddev	2.617	260.45	18.57	14.281	6.068
%RSD	.0825141	.3931468	.1701738	.6427674	.1633544
#1	3173.126	66072.00	10890.88	2214.647	3721.752
#2	3168.871	66126.44	10923.32	2212.551	3710.853
#3	3173.640	66547.87	10922.76	2238.267	3711.679

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-03 Acquired: 1/24/2025 19:01:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900639	.0429253	.0239162	.1213898	.2176646	2.055295
Stddev	.0009502	.0012347	.0005768	.0050343	.0017104	.010140
%RSD	.4999499	2.876475	2.411580	4.147235	.7858105	.4933453
#1	.1897431	.0442472	.0232671	.1239891	.2177217	2.066742
#2	.1911330	.0418017	.0243698	.1155872	.2159264	2.051701
#3	.1893157	.0427271	.0241117	.1245932	.2193459	2.047442

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.879745	.0453717	.0491849	441.7864	.2050005	.5393697
Stddev	.006308	.0001740	.0001821	.9876	.0006034	.0022967
%RSD	.2190541	.3834289	.3702528	.2235395	.2943448	.4258125
#1	2.874822	.0455579	.0492014	442.6250	.2056603	.5380552
#2	2.886856	.0452133	.0489951	442.0363	.2048645	.5380323
#3	2.877558	.0453440	.0493582	440.6979	.2044767	.5420217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499521	45.88712	1.945308	47.95853	.5100740	.0434536
Stddev	.0047987	.03154	.004353	.04893	.0016711	.0004712
%RSD	1.919836	.0687268	.2237533	.1020253	.3276131	1.084309
#1	.2535900	45.88077	1.942931	47.90772	.5081510	.0434341
#2	.2517527	45.92134	1.950331	47.96251	.5108981	.0429924
#3	.2445135	45.85923	1.942660	48.00534	.5111730	.0439341

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1706.962	.4905669	1.555576	36.74793	.0568810	.6935859
Stddev	4.730	.0002996	.024141	.09184	.0032551	.0006920
%RSD	.2770857	.0610684	1.551901	.2499247	5.722630	.0997758
#1	1707.895	.4907364	1.536597	36.64210	.0606384	.6941460
#2	1711.155	.4902210	1.582747	36.79493	.0550865	.6937995
#3	1701.835	.4907433	1.547384	36.80676	.0549181	.6928123

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1129-03 Acquired: 1/24/2025 19:01:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLA3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155242	F 30.03999	4.978789	-.001054	-.014078	.0400312
Stddev	.0001446	.12249	.007400	.000429	.000860	.0017007
%RSD	.9311605	.4077587	.1486296	40.70596	6.108756	4.248531
#1	.0156217	30.04509	4.984822	-.000793	-.014338	.0414636
#2	.0153581	29.91503	4.970532	-.001550	-.014778	.0404784
#3	.0155928	30.15985	4.981013	-.000821	-.013118	.0381515

Elem	Sr4077
Units	ppm
Avg	3.499734
Stddev	.020626
%RSD	.5893537
#1	3.513710
#2	3.509446
#3	3.476045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.168	58938.62	10765.18	1949.661	3207.163
Stddev	8.134	75.36	20.10	23.918	10.478
%RSD	.2871107	.1278701	.1867090	1.226790	.3266982
#1	2841.497	58986.63	10754.53	1972.185	3217.788
#2	2832.762	58977.48	10788.36	1924.557	3206.862
#3	2825.244	58851.76	10752.65	1952.240	3196.839

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166162BL Acquired: 1/24/2025 19:05:19 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW162 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003445**	**.0004994**	**-.000425**	**-.001093**	**.0002602**	**.0028087**
Stddev	.0005248	.0025041	.000369	.003016	.0014171	.0073646
%RSD	152.3296	501.4119	86.93739	275.9589	544.6164	262.2045
#1	.0000978	.0001930	-.000851	.001854	-.001375	.0077920
#2	-.000011	-.001837	-.000208	-.004173	.001121	-.005651
#3	.000947	.003143	-.000215	-.000959	.001035	.006285

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010461**	**-.000012**	**-.000004**	**.0084325**	**.0002612**	**-.000014**
Stddev	.000584	.000028	.000033	.0055474	.0002069	.000129
%RSD	5.583781	229.4896	923.0127	65.78530	79.21544	899.6489
#1	-.010069	-.000040	.000032	.0071695	.0001264	-.000115
#2	-.011132	.000016	-.000034	.0145025	.0004995	-.000060
#3	-.010181	-.000013	-.000009	.0036256	.0001578	.000132

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014259**	**.0009512**	**-.000498**	**-.013900**	**-.000021**	**.0003615**
Stddev	.0020920	.0051694	.000144	.009982	.000272	.0002939
%RSD	146.7176	543.4502	28.83733	71.80971	1270.243	81.30215
#1	.0024959	-.003453	-.000528	-.018136	.000070	.0002582
#2	.0027665	-.000336	-.000341	-.021066	-.000327	.0006932
#3	-.000985	.006643	-.000623	-.002499	.000193	.0001333

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5019128**	**.0001347**	**-.000562**	**.1632552**	**.0028607**	F **-.012309**
Stddev	.2746277	.0010852	.001377	.0465436	.0011389	.000375
%RSD	54.71622	805.6533	245.2363	28.50971	39.81191	3.045472
#1	.3472180	-.000718	.000160	.1536105	.0036311	-.012441
#2	.8189945	-.000234	.000305	.1222897	.0033986	-.012600
#3	.3395259	.001356	-.002150	.2138656	.0015525	-.011886

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166162BL Acquired: 1/24/2025 19:05:19 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW162 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000550**	**.0200738**	**.0013583**	**-.000152**	**-.000358**	**.0025110**
Stddev	.000126	.0033581	.0011748	.000561	.000790	.0008056
%RSD	22.85791	16.72858	86.49579	370.0521	220.2505	32.08151
#1	-.000616	.0165372	.0006907	.000477	.000109	.0016022
#2	-.000629	.0232191	.0006693	-.000329	-.001270	.0027935
#3	-.000405	.0204651	.0027148	-.000603	.000086	.0031372

Elem	Sr4077
Units	ppm
Avg	**.0000437**
Stddev	.0000195
%RSD	44.63686
#1	.0000227
#2	.0000613
#3	.0000473

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3375.205**	**71043.48**	**11152.65**	**2400.865**	**4207.284**
Stddev	5.852	152.44	25.88	10.956	10.745
%RSD	.1733964	.2145662	.2320419	.4563292	.2553915
#1	3379.900	70945.27	11132.69	2398.228	4210.088
#2	3377.067	71219.08	11181.89	2412.899	4216.349
#3	3368.648	70966.08	11143.36	2391.469	4195.415

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166162BS Acquired: 1/24/2025 19:09:29 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS162 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186984**	**.0511025**	**.0177839**	**.0618847**	**.1074178**	**.3827428**	**.3773381**
Stddev	.0014921	.0002504	.0013914	.0019285	.0017185	.0052395	.0034675
%RSD	7.979750	.4900484	7.823745	3.116242	1.599865	1.368947	.9189276
#1	.0199808	.0508355	.0175316	.0597979	.1075025	.3842471	.3734537
#2	.0170607	.0511397	.0165359	.0622549	.1056584	.3870656	.3784397
#3	.0190536	.0513322	.0192841	.0636012	.1090924	.3769156	.3801211

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093579**	**.0095503**	**9.750133**	**.0210308**	**.0952595**	**.0525518**	**.2108211**
Stddev	.0000982	.0000979	.054009	.0002711	.0001738	.0004275	.0051427
%RSD	1.049240	1.025296	.5539359	1.288953	.1824737	.8134475	2.439350
#1	.0094543	.0094859	9.693261	.0213018	.0951360	.0525853	.2048936
#2	.0093615	.0095020	9.756406	.0207596	.0951842	.0529615	.2140935
#3	.0092580	.0096630	9.800732	.0210309	.0954582	.0521085	.2134762

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0297179**	**8.653244**	**.0773006**	**.0188226**	**9.706324**	**.1004330**	**.1201721**
Stddev	.0000328	.069134	.0003444	.0003456	.173037	.0009554	.0015058
%RSD	.1105303	.7989424	.4455589	1.835867	1.782721	.9513173	1.253074
#1	.0296879	8.578620	.0771704	.0185684	9.610514	.1014774	.1187896
#2	.0297128	8.665998	.0776911	.0186834	9.906074	.0996030	.1199500
#3	.0297530	8.715113	.0770402	.0192161	9.602383	.1002185	.1217766

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.429584**	**.0205569**	**-.011076**	**.0192243**	**.1839162**	**.4379320**	**.0134053**
Stddev	.068371	.0012899	.000293	.0002851	.0005890	.0051239	.0005090
%RSD	.7250733	6.274639	2.643771	1.483246	.3202415	1.170030	3.796753
#1	9.366273	.0208427	-.011236	.0194402	.1844205	.4328530	.0139667
#2	9.420394	.0191480	-.010738	.0193316	.1832689	.4378432	.0132750
#3	9.502086	.0216798	-.011254	.0189010	.1840593	.4430997	.0129741

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166162BS Acquired: 1/24/2025 19:09:29 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS162 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1989422	.0305549	.1792710
Stddev	.0008012	.0015147	.0015814
%RSD	.4027059	4.957190	.8821100
#1	.1990904	.0289739	.1774616
#2	.1980773	.0306976	.1799627
#3	.1996589	.0319932	.1803886

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3411.354	70582.10	11269.36	2392.923	4221.835
Stddev	5.141	140.90	53.86	4.628	6.629
%RSD	.1507162	.1996203	.4778930	.1934055	.1570221
#1	3407.380	70691.93	11207.53	2397.881	4219.489
#2	3417.161	70631.14	11294.58	2392.172	4229.318
#3	3409.522	70423.24	11305.99	2388.716	4216.697

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV017 Acquired: 1/24/2025 19:13:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV017 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.742382**	**4.720587**	**23.22714**	**4.841065**	**4.905671**	**420.6313**
Stddev	.011015	.018243	.03830	.021924	.013221	1.0849
%RSD	.2322742	.3864468	.1648923	.4528845	.2695079	.2579334
#1	4.742522	4.718556	23.22570	4.861072	4.916871	419.6240
#2	4.731297	4.703444	23.18957	4.817628	4.891086	420.4899
#3	4.753326	4.739759	23.26613	4.844494	4.909056	421.7800

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.73894**	**.4506087**	**2.312653**	**406.6380**	**14.68873**	**2.375691**
Stddev	.13825	.0014861	.004580	3.3174	.02431	.003851
%RSD	1.287331	.3297924	.1980530	.8158108	.1654999	.1620942
#1	10.58084	.4493668	2.309766	410.4184	14.67445	2.376728
#2	10.79888	.4502040	2.310259	404.2125	14.67494	2.371428
#3	10.83711	.4522551	2.317935	405.2831	14.71680	2.378918

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.70008**	**413.9968**	**15.38865**	**399.4267**	**2.364326**	**1.257562**
Stddev	.02699	2.3000	.04397	1.5264	.004775	.001686
%RSD	.1836185	.5555698	.2857036	.3821518	.2019747	.1340676
#1	14.73103	416.5536	15.43818	401.0251	2.364633	1.259505
#2	14.68146	412.0960	15.35426	397.9842	2.359404	1.256493
#3	14.68774	413.3409	15.37350	399.2710	2.368940	1.256687

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**379.2645**	**2.369531**	**15.82248**	**157.8968**	**4.699497**	F **5.654083**
Stddev	.4220	.008149	.03868	1.0661	.017047	.003905
%RSD	.1112762	.3438878	.2444815	.6752090	.3627374	.0690714
#1	379.0398	2.376343	15.77882	159.0878	4.697516	5.657085
#2	379.0023	2.360504	15.83613	157.0314	4.683527	5.649668
#3	379.7513	2.371746	15.85248	157.5712	4.717448	5.655497

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV017 Acquired: 1/24/2025 19:13:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV017 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.744021**	**4.804109**	**4.768936**	**4.673767**	**4.835493**	**5.311027**
Stddev	.008540	.007584	.012633	.004475	.002533	.033664
%RSD	.1800081	.1578713	.2649043	.0957412	.0523828	.6338419
#1	4.748031	4.809770	4.774011	4.674314	4.836241	5.349857
#2	4.734214	4.795492	4.754555	4.669044	4.832670	5.290058
#3	4.749818	4.807064	4.778243	4.677943	4.837568	5.293167

Elem	Sr4077
Units	ppm
Avg	**5.308841**
Stddev	.020491
%RSD	.3859733
#1	5.308462
#2	5.288543
#3	5.329519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2765.279**	**60265.10**	**10494.79**	**2008.936**	**3266.999**
Stddev	4.155	159.56	32.09	1.914	4.928
%RSD	.1502552	.2647597	.3057791	.0952715	.1508392
#1	2760.881	60139.59	10518.60	2009.428	3264.783
#2	2769.139	60444.66	10507.46	2010.556	3272.646
#3	2765.816	60211.03	10458.29	2006.825	3263.568

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB017 Acquired: 1/24/2025 19:22:06 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB017 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010604**	**-.001480**	**-.000288**	**-.001319**	**.0009028**	**.0006181**	**-.009191**
Stddev	.0022679	.000877	.001047	.001478	.0005762	.0020179	.000081
%RSD	213.8693	59.25773	363.1327	112.1008	63.82900	326.4524	.8827890
#1	.0013748	-.001124	.000895	-.002989	.0006985	.0016424	-.009270
#2	-.001348	-.002479	-.001095	-.000791	.0004565	-.001706	-.009196
#3	.003155	-.000837	-.000665	-.000177	.0015533	.001918	-.009108

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**-.000012**	**.0058151**	**.0004315**	**-.000142**	**-.000900**	**.0091148**
Stddev	.000084	.000015	.0018364	.0002521	.000340	.002726	.0053451
%RSD	191.8479	130.5000	31.58010	58.42227	239.8509	302.7998	58.64177
#1	.000003	.000005	.0040289	.0005522	.000189	.000310	.0051451
#2	.000006	-.000026	.0076979	.0001417	-.000489	.001011	.0151924
#3	-.000140	-.000014	.0057186	.0006005	-.000125	-.004022	.0070068

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000136**	**-.015986**	**-.000197**	**.0001332**	**.0198400**	**.0014407**	**-.000405**
Stddev	.000179	.004822	.000214	.0003273	.4327141	.0005587	.001001
%RSD	131.0710	30.16201	108.6907	245.7199	2181.022	38.78252	247.1588
#1	-.000140	-.021554	-.000444	.0003890	.2951282	.0012355	.000177
#2	.000044	-.013160	-.000063	.0002463	-.478919	.0010136	-.001562
#3	-.000313	-.013245	-.000084	-.000236	.243311	.0020730	.000169

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1893799**	**.0043961**	**-.005592**	**.0001704**	**.0160169**	**.0025448**	**.0003397**
Stddev	.0734804	.0024413	.000386	.0003248	.0011974	.0029827	.0004180
%RSD	38.80052	55.53261	6.904574	190.5955	7.475614	117.2053	123.0398
#1	.1602469	.0052255	-.006037	.0005431	.0158976	.0024160	.0007582
#2	.1349332	.0016482	-.005349	-.000052	.0172694	-.000371	-.000078
#3	.2729595	.0063147	-.005390	.000020	.0148837	.005590	.000339

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB017 Acquired: 1/24/2025 19:22:06 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB017 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000942	.0010828	.0000484
Stddev	.000310	.0008704	.0000445
%RSD	32.90850	80.38023	91.93671
#1	-.000824	.0012607	.0000975
#2	-.001293	.0001373	.0000107
#3	-.000708	.0018506	.0000371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3423.345	70040.32	11207.20	2381.335	4272.560
Stddev	7.581	1372.48	64.68	43.919	6.810
%RSD	.2214415	1.959562	.5771099	1.844289	.1593916
#1	3415.025	70928.87	11214.95	2417.057	4265.711
#2	3425.147	70732.52	11139.00	2394.648	4272.638
#3	3429.862	68459.57	11267.66	2332.300	4279.331

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-09 Acquired: 1/24/2025 19:26:16 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0409909	.0064513	.0030178	-.007826	.0237621	-.122314
Stddev	.0041264	.0033321	.0034278	.001171	.0017780	.012061
%RSD	10.06660	51.65017	113.5875	14.96320	7.482556	9.861061
#1	.0422992	.0026850	-.000870	-.007998	.0255379	-.135594
#2	.0443046	.0076533	.004316	-.008902	.0237665	-.119311
#3	.0363690	.0090157	.005607	-.006579	.0219819	-.112038

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120455	.0000823	-.000014	377.5806	-.000031	.0006068
Stddev	.0015463	.0000652	.000055	2.0223	.000340	.0002545
%RSD	12.83723	79.26057	387.9062	.5355899	1078.789	41.94274
#1	.0119281	.0000860	-.000078	378.6722	.000340	.0006163
#2	.0105612	.0001456	.000020	378.8225	-.000327	.0008564
#3	.0136472	.0000153	.000016	375.2471	-.000107	.0003477

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103520	.8684976	.3248442	F 1130.565	.0028447	.0003983
Stddev	.0015084	.0052103	.0021145	4.486	.0006828	.0003318
%RSD	14.57058	.5999253	.6509368	.3968182	24.00320	83.28824
#1	.0089710	.8745131	.3266006	1134.584	.0030611	.0004976
#2	.0119616	.8653999	.3254349	1131.386	.0033930	.0000282
#3	.0101235	.8655799	.3224972	1125.725	.0020799	.0006691

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9166.858	.0091655	.1512132	F 458.0229	3.762935	2.798315
Stddev	80.149	.0008525	.0047287	7.7297	.008178	.045617
%RSD	.8743315	9.301471	3.127171	1.687625	.2173178	1.630147
#1	9105.520	.0100468	.1534010	461.5265	3.769962	2.770481
#2	9137.510	.0091049	.1544518	463.3804	3.753959	2.773505
#3	9257.545	.0083450	.1457868	449.1618	3.764886	2.850960

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-09 Acquired: 1/24/2025 19:26:16 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196079	F 779.6666	2.300179	-.005082	-.011979	.2148300
Stddev	.0001866	3.5880	.004731	.000963	.001059	.0043054
%RSD	.9516011	.4601955	.2056985	18.94878	8.837924	2.004117
#1	.0195120	780.9219	2.295551	-.004511	-.011781	.2166948
#2	.0194886	775.6196	2.305008	-.004541	-.011034	.2178886
#3	.0198229	782.4583	2.299978	-.006193	-.013123	.2099065

Elem	Sr4077
Units	ppm
Avg	7.078453
Stddev	.106886
%RSD	1.510023
#1	7.082277
#2	7.183376
#3	6.969706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2154.379	45575.73	9084.555	1496.260	2275.079
Stddev	14.006	108.33	134.779	3.073	11.496
%RSD	.6501378	.2376873	1.483603	.2053522	.5052874
#1	2167.661	45630.08	9155.476	1499.791	2286.211
#2	2155.731	45646.13	9169.065	1494.794	2275.774
#3	2139.746	45450.99	8929.123	1494.195	2263.251

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-10 Acquired: 1/24/2025 19:30:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0366741	.0037746	.0050465	-.007172	.0231475	-.148846
Stddev	.0045226	.0014545	.0008905	.006168	.0017240	.017243
%RSD	12.33188	38.53329	17.64574	86.00857	7.447888	11.58431
#1	.0414689	.0049170	.0042661	-.013154	.0228922	-.153064
#2	.0324848	.0042694	.0060165	-.000833	.0249848	-.129885
#3	.0360685	.0021372	.0048570	-.007528	.0215653	-.163588

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138367	.0000786	-.000083	377.8081	-.000319	.0007089
Stddev	.0004192	.0000650	.000078	1.1982	.000600	.0002198
%RSD	3.029638	82.76430	93.54049	.3171451	188.0527	30.99884
#1	.0136977	.0000473	-.000165	379.1905	-.000551	.0005508
#2	.0143078	.0000351	-.000073	377.0694	.000362	.0009599
#3	.0135047	.0001533	-.000011	377.1642	-.000770	.0006161

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087786	.8614391	.3248553	F 1132.034	.0019874	.0000130
Stddev	.0033707	.0007596	.0010426	5.503	.0009124	.0002900
%RSD	38.39694	.0881754	.3209454	.4860909	45.90980	2228.058
#1	.0060193	.8614060	.3260166	1137.765	.0017500	.0003479
#2	.0077810	.8606966	.3245494	1131.545	.0029951	-.000153
#3	.0125355	.8622147	.3239998	1126.792	.0012172	-.000156

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9129.254	.0067763	.1504374	F 447.4983	3.714158	2.809409
Stddev	129.418	.0002552	.0020160	2.8103	.016998	.020242
%RSD	1.417618	3.765496	1.340103	.6280055	.4576458	.7204958
#1	8992.656	.0064824	.1505479	448.5211	3.704274	2.805174
#2	9145.068	.0069042	.1523959	444.3198	3.704415	2.831433
#3	9250.038	.0069421	.1483684	449.6539	3.733785	2.791620

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-10 Acquired: 1/24/2025 19:30:35 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197472	F 764.3980	2.310040	-.003614	-.011865	.2058262
Stddev	.0006003	3.1287	.028096	.001578	.000711	.0017594
%RSD	3.039822	.4092978	1.216251	43.66692	5.993433	.8548185
#1	.0201973	762.5711	2.314509	-.002655	-.012670	.2074123
#2	.0199786	762.6123	2.335634	-.002752	-.011321	.2039337
#3	.0190657	768.0106	2.279978	-.005435	-.011604	.2061325

Elem	Sr4077
Units	ppm
Avg	6.988860
Stddev	.081400
%RSD	1.164711
#1	6.909760
#2	6.984442
#3	7.072380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2180.757	45527.28	9035.477	1489.701	2299.763
Stddev	5.757	42.23	57.481	6.270	2.886
%RSD	.2639864	.0927507	.6361652	.4209021	.1254964
#1	2183.499	45478.72	9047.973	1490.275	2301.498
#2	2174.142	45547.75	8972.776	1483.164	2296.432
#3	2184.630	45555.37	9085.682	1495.664	2301.361

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-09LX5 Acquired: 1/24/2025 19:34:54 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092184	.0024834	-.001822	-.001772	.0027684	-.034764
Stddev	.0011532	.0015547	.001744	.004112	.0006373	.020065
%RSD	12.50976	62.60492	95.72850	232.0745	23.01950	57.71717
#1	.0100374	.0018565	.000189	-.003008	.0030089	-.057905
#2	.0078996	.0013399	-.002728	-.005125	.0032504	-.022197
#3	.0097183	.0042536	-.002926	.002816	.0020459	-.024191

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002709	-.000029	-.000041	71.50486	.0000479	.0001274
Stddev	.000610	.000029	.000093	.38897	.0001763	.0003026
%RSD	22.50887	100.7547	226.9731	.5439806	368.1141	237.4472
#1	-.002041	-.000063	-.000134	71.08489	.0001274	.0000122
#2	-.003235	-.000010	-.000042	71.57696	-.000154	-.000101
#3	-.002851	-.000014	.000052	71.85274	.000170	.000471

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011880	.1683007	.0611993	211.0172	.0001731	.0002862
Stddev	.0021843	.0048238	.0004172	.9847	.0002212	.0002843
%RSD	183.8626	2.866156	.6816412	.4666266	127.7792	99.32317
#1	.0026161	.1651837	.0609325	209.9325	.0000425	.0000351
#2	-.001327	.1738569	.0609853	211.2647	.0004285	.0002288
#3	.002274	.1658614	.0616800	211.8546	.0000483	.0005948

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1759.613	.0038556	.0240127	72.83390	.6639190	.6299157
Stddev	3.319	.0021382	.0019651	.57788	.0009004	.0065577
%RSD	.1886240	55.45834	8.183444	.7934230	.1356175	1.041046
#1	1763.437	.0015632	.0252644	72.28395	.6649334	.6373516
#2	1757.474	.0042074	.0250258	72.78160	.6636088	.6274366
#3	1757.929	.0057960	.0217478	73.43615	.6632147	.6249590

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-09LX5 Acquired: 1/24/2025 19:34:54 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5L Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037614	F 149.3072	.4488400	-.001785	-.003149	.0382779
Stddev	.0003009	.1645	.0033806	.000776	.000233	.0005981
%RSD	7.998329	.1101830	.7531924	43.50401	7.411373	1.562489
#1	.0034209	149.1757	.4459732	-.002635	-.003088	.0376022
#2	.0039914	149.2543	.4479789	-.001607	-.002951	.0384925
#3	.0038717	149.4917	.4525679	-.001113	-.003406	.0387391

Elem	Sr4077
Units	ppm
Avg	1.257791
Stddev	.007584
%RSD	.6029729
#1	1.250145
#2	1.257917
#3	1.265311

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2876.391	58042.47	10180.05	1986.025	3192.366
Stddev	7.982	76.83	52.17	13.157	9.568
%RSD	.2775051	.1323715	.5125070	.6624990	.2997272
#1	2882.066	58112.20	10122.98	1998.581	3196.731
#2	2879.842	58055.10	10191.88	1987.155	3198.973
#3	2867.263	57960.10	10225.29	1972.339	3181.394

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-10 Acquired: 1/24/2025 19:39:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0794003	.0526942	.0194795	.0975814	.1277071	2.209552
Stddev	.0021420	.0044599	.0014288	.0011794	.0010224	.020514
%RSD	2.697705	8.463690	7.334978	1.208656	.8006029	.9284243
#1	.0770721	.0522638	.0205026	.0983662	.1267198	2.192501
#2	.0812874	.0573537	.0178471	.0981529	.1287614	2.203838
#3	.0798413	.0484652	.0200889	.0962251	.1276401	2.232318

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.349319	.0488942	.0467796	366.5602	.1878789	.4768075
Stddev	.031246	.0003971	.0001284	3.3661	.0007798	.0024570
%RSD	1.330023	.8120953	.2744879	.9183031	.4150533	.5153025
#1	2.326213	.0490541	.0468287	363.6040	.1878140	.4747242
#2	2.336873	.0491863	.0468762	365.8528	.1871337	.4761814
#3	2.384870	.0484421	.0466338	370.2238	.1886892	.4795170

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2654609	1.985744	.8551595	F 1098.898	.4670117	.0489825
Stddev	.0029898	.022333	.0086063	7.143	.0019400	.0002701
%RSD	1.126270	1.124670	1.006400	.6500267	.4154087	.5514892
#1	.2623317	1.963718	.8486260	1092.769	.4654035	.0488196
#2	.2682884	1.985142	.8519414	1097.183	.4664654	.0488336
#3	.2657626	2.008372	.8649111	1106.743	.4691663	.0492943

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9065.179	.4728522	.7511755	F 431.3095	3.700706	2.822280
Stddev	102.816	.0016540	.0149813	4.9213	.015330	.020422
%RSD	1.134190	.3497914	1.994378	1.141013	.4142518	.7236163
#1	8962.943	.4721592	.7338775	428.0960	3.706321	2.827573
#2	9168.566	.4747399	.7596777	428.8574	3.683360	2.839535
#3	9064.028	.4716573	.7599714	436.9751	3.712437	2.799732

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1127-10 Acquired: 1/24/2025 19:39:09 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJNLE5S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189037	F 760.7311	2.281995	-.006142	-.012431	.1974403
Stddev	.0004542	2.0058	.005957	.001383	.000299	.0020283
%RSD	2.402466	.2636679	.2610552	22.51942	2.403979	1.027277
#1	.0189406	760.6198	2.275148	-.007667	-.012769	.1953513
#2	.0193382	758.7832	2.284844	-.005789	-.012202	.1975677
#3	.0184322	762.7902	2.285993	-.004969	-.012322	.1994018

Elem	Sr4077
Units	ppm
Avg	6.815251
Stddev	.045198
%RSD	.6631910
#1	6.780622
#2	6.798751
#3	6.866381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2222.968	46480.74	9024.419	1532.285	2323.346
Stddev	3.672	326.86	25.996	18.544	6.982
%RSD	.1651702	.7032234	.2880647	1.210190	.3005195
#1	2223.916	46718.65	9032.435	1552.189	2327.605
#2	2226.072	46615.54	8995.359	1529.169	2327.144
#3	2218.915	46108.04	9045.464	1515.497	2315.288

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166138BL Acquired: 1/24/2025 19:43:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW138 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017928**	**.0004613**	**-.000809**	**-.001682**	**-.000222**	**-.003176**	**-.007586**
Stddev	.0007281	.0016254	.000715	.002095	.000855	.001303	.000326
%RSD	40.61335	352.3638	88.40218	124.5252	385.1085	41.01903	4.302435
#1	.0013491	-.001340	-.001633	.000712	.000258	-.004407	-.007613
#2	.0026331	.000904	-.000356	-.003177	.000285	-.001812	-.007247
#3	.0013961	.001819	-.000438	-.002582	-.001210	-.003310	-.007899

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000059**	**.0000103**	**.0036896**	**.0000107**	**-.000056**	**-.001841**	**.0046964**
Stddev	.000034	.0000179	.0074917	.0001868	.000197	.001365	.0010871
%RSD	58.07763	174.0530	203.0522	1748.983	354.2184	74.14258	23.14792
#1	-.000094	.0000244	.0010780	-.000200	-.000278	-.002674	.0053597
#2	-.000026	.0000163	-.002147	.000156	.000015	-.002584	.0052878
#3	-.000057	-.000010	.012138	.000076	.000097	-.000266	.0034418

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000534**	**.0070813**	**-.000033**	**.0005029**	**.1716463**	**.0005463**	**-.000544**
Stddev	.000251	.0068602	.000056	.0000630	.3796200	.0007138	.002071
%RSD	47.07608	96.87839	168.2658	12.53570	221.1641	130.6609	381.0964
#1	-.000801	.0147902	.000008	.0004301	.1027270	.0009272	-.002254
#2	-.000302	.0016481	-.000010	.0005387	.5810046	-.000277	-.001136
#3	-.000499	.0048055	-.000097	.0005399	-.168793	.000989	.001760

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8983637**	**.0035319**	**-.007229**	**-.000358**	**.0353078**	**.0007942**	**.0003357**
Stddev	.1068572	.0018825	.000370	.000433	.0020102	.0030206	.0005202
%RSD	11.89464	53.29999	5.121967	120.8959	5.693332	380.3239	154.9595
#1	.7956357	.0026399	-.007591	-.000002	.0345951	-.000107	.0008839
#2	.8905359	.0022611	-.007245	-.000839	.0337510	.004163	.0002744
#3	1.008920	.0056945	-.006851	-.000233	.0375772	-.001673	-.000151

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166138BL Acquired: 1/24/2025 19:43:20 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBW138 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000684	.0016037	.0000679
Stddev	.000158	.0012995	.0000131
%RSD	23.02438	81.03110	19.33759
#1	-.000610	.0002572	.0000528
#2	-.000865	.0028505	.0000768
#3	-.000578	.0017034	.0000740

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3510.751	71059.45	10875.80	2431.438	4399.123
Stddev	4.057	70.41	26.69	2.712	10.283
%RSD	.1155589	.0990883	.2454159	.1115565	.2337463
#1	3513.313	70979.12	10905.73	2431.307	4395.329
#2	3512.865	71110.48	10867.24	2434.213	4410.764
#3	3506.073	71088.75	10854.45	2428.793	4391.276

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166138BS Acquired: 1/24/2025 19:47:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS138 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0182614**	**.0499193**	**.0184558**	**.0638152**	**.1050956**	**.3561898**	**.3444645**
Stddev	.0012846	.0003147	.0008052	.0019405	.0010257	.0039541	.0044295
%RSD	7.034567	.6304397	4.362583	3.040871	.9759805	1.110108	1.285916
#1	.0196218	.0502486	.0179045	.0630132	.1052788	.3517864	.3393544
#2	.0170691	.0498878	.0180832	.0624042	.1039907	.3594368	.3472093
#3	.0180934	.0496215	.0193798	.0660282	.1060174	.3573460	.3468297

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096186**	**.0096863**	**9.068188**	**.0205140**	**.0951519**	**.0519530**	**.1915098**
Stddev	.0001477	.0000158	.076861	.0005942	.0002208	.0010367	.0062916
%RSD	1.535074	.1626813	.8475896	2.896529	.2320678	1.995561	3.285263
#1	.0097770	.0096702	8.980452	.0209383	.0953185	.0507559	.1847608
#2	.0095940	.0096871	9.100463	.0198349	.0949015	.0525473	.1925556
#3	.0094848	.0097017	9.123649	.0207687	.0952358	.0525558	.1972130

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0276110**	**8.125808**	**.0773244**	**.0181344**	**9.387223**	**.0996211**	**.1143943**
Stddev	.0003406	.068137	.0003186	.0004079	.293258	.0012102	.0039891
%RSD	1.233647	.8385275	.4120878	2.249073	3.124018	1.214814	3.487152
#1	.0272553	8.047577	.0770627	.0183907	9.571438	.0996139	.1099541
#2	.0279342	8.157669	.0776792	.0183483	9.541183	.0984144	.1176755
#3	.0276436	8.172177	.0772312	.0176641	9.049048	.1008348	.1155535

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.854295**	**.0198746**	**-.008414**	**.0190243**	**.1962345**	**.4428045**	**.0133480**
Stddev	.186313	.0005541	.000351	.0002599	.0049938	.0055766	.0003297
%RSD	2.104210	2.787851	4.174221	1.366229	2.544794	1.259384	2.470222
#1	8.663199	.0200581	-.008654	.0193218	.1980801	.4392606	.0129843
#2	8.864262	.0203137	-.008577	.0188413	.1905807	.4492325	.0134325
#3	9.035425	.0192521	-.008011	.0189098	.2000428	.4399203	.0136273

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166138BS Acquired: 1/24/2025 19:47:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS138 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1974432	.0277304	.1643604
Stddev	.0009593	.0001864	.0020294
%RSD	.4858440	.6721375	1.234706
#1	.1964611	.0279225	.1620190
#2	.1983779	.0277186	.1654489
#3	.1974907	.0275502	.1656132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3399.332	73220.35	10829.58	2464.696	4156.980
Stddev	9.686	152.30	75.48	8.294	6.301
%RSD	.2849517	.2079993	.6969925	.3365043	.1515741
#1	3391.857	73395.40	10745.56	2471.572	4149.972
#2	3410.275	73147.35	10851.51	2455.485	4162.177
#3	3395.863	73118.29	10891.67	2467.031	4158.793

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-01 Acquired: 1/24/2025 19:51:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3178455**	**-.007174**	**.3137598**	**.0133829**	**.0325149**	**120.6874**
Stddev	.0022163	.000904	.0015680	.0030830	.0027253	.6709
%RSD	.6972836	12.59421	.4997408	23.03688	8.381558	.5558872
#1	.3176805	-.006162	.3130722	.0155256	.0341199	121.2428
#2	.3157162	-.007458	.3126530	.0147735	.0293683	120.8774
#3	.3201396	-.007901	.3155540	.0098495	.0340566	119.9420

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.172929**	**.0036562**	**.0158085**	F **2505.649**	**.3420472**	**.0544485**
Stddev	.008721	.0001174	.0001463	27.121	.0014211	.0004138
%RSD	.7435420	3.210527	.9252819	1.082389	.4154593	.7600663
#1	1.180654	.0037862	.0156396	2478.333	.3430521	.0544393
#2	1.174662	.0035579	.0158910	2532.570	.3426682	.0540394
#3	1.163472	.0036244	.0158949	2506.043	.3404213	.0548669

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3228314**	**149.0989**	**4.929667**	**33.34642**	**.1448523**	**.0045424**
Stddev	.0024737	.6191	.033708	.07845	.0015563	.0002612
%RSD	.7662508	.4152524	.6837722	.2352501	1.074429	5.750245
#1	.3254761	149.6013	4.961362	33.43266	.1433024	.0043518
#2	.3224437	149.2882	4.933384	33.32730	.1448396	.0044352
#3	.3205745	148.4072	4.894255	33.27930	.1464150	.0048401

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.976408**	**.5500284**	**2.473481**	**32.73526**	**2.935265**	**.7280633**
Stddev	.213190	.0012218	.012104	.16390	.022688	.0038259
%RSD	10.78673	.2221327	.4893571	.5006874	.7729437	.5254913
#1	2.152124	.5486361	2.470439	32.84610	2.926998	.7315243
#2	2.037859	.5509219	2.486816	32.81269	2.917871	.7287105
#3	1.739242	.5505271	2.463188	32.54699	2.960928	.7239550

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-01 Acquired: 1/24/2025 19:51:33 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4148923	F 61.84874	3.122559	.0367657	5.705060	.1667577
Stddev	.0015153	.33256	.010462	.0001556	.013652	.0015667
%RSD	.3652339	.5377069	.3350314	.4233155	.2392992	.9394922
#1	.4142571	61.56544	3.127497	.0366158	5.719201	.1673330
#2	.4137979	61.76589	3.129636	.0369266	5.704023	.1679554
#3	.4166218	62.21490	3.110542	.0367548	5.691956	.1649847

Elem	Sr4077
Units	ppm
Avg	2.860242
Stddev	.041430
%RSD	1.448483
#1	2.893735
#2	2.873079
#3	2.813913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3011.013	63289.38	10966.87	2136.660	3068.527
Stddev	10.831	182.82	42.96	6.753	12.895
%RSD	.3596988	.2888612	.3917621	.3160627	.4202294
#1	3013.659	63084.06	10962.86	2134.854	3077.276
#2	3020.275	63434.55	11011.70	2144.133	3074.588
#3	2999.104	63349.52	10926.05	2130.993	3053.719

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-02 Acquired: 1/24/2025 19:55:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0857143**	**-.012100**	**.0930944**	**.1050603**	**.0486822**	**169.8433**
Stddev	.0022909	.002960	.0012249	.0012817	.0016902	.3737
%RSD	2.672731	24.46358	1.315761	1.219926	3.472008	.2200324
#1	.0883595	-.011354	.0944680	.1045241	.0468024	169.4599
#2	.0843745	-.009585	.0926993	.1041339	.0491674	170.2065
#3	.0844088	-.015362	.0921157	.1065230	.0500768	169.8633

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5080365**	**.0013851**	**.0104791**	**48.22572**	**.1829129**	**.2035162**
Stddev	.0020530	.0001058	.0001953	.18854	.0016589	.0002218
%RSD	.4041009	7.634999	1.863538	.3909453	.9069143	.1089654
#1	.5057186	.0012965	.0102563	48.02135	.1823797	.2032640
#2	.5087650	.0015022	.0105606	48.39287	.1847728	.2036809
#3	.5096259	.0013567	.0106205	48.26294	.1815862	.2036036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5387433**	**504.1111**	**10.75584**	**98.10618**	**.1184884**	**.0142113**
Stddev	.0026655	3.6991	.04184	.44578	.0004105	.0012377
%RSD	.4947602	.7337821	.3889746	.4543884	.3464796	8.709257
#1	.5393512	508.2744	10.70833	97.74696	.1180463	.0156393
#2	.5358264	501.2028	10.78719	98.60508	.1188576	.0134469
#3	.5410524	502.8561	10.77200	97.96651	.1185614	.0135477

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.820293**	**.5771416**	**.7346651**	**4.779172**	F **11.23890**	**2.045780**
Stddev	.137943	.0031297	.0017285	.089589	.02354	.016026
%RSD	7.578057	.5422702	.2352712	1.874573	.2094718	.7833471
#1	1.757885	.5737707	.7365725	4.687948	11.21337	2.064061
#2	1.724584	.5776989	.7332024	4.782536	11.24358	2.034154
#3	1.978412	.5799551	.7342205	4.867031	11.25975	2.039124

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-02 Acquired: 1/24/2025 19:55:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0140446**	**1.734209**	**3.977426**	**.0255399**	**5.187942**	**.1912004**
Stddev	.0003500	.005224	.011103	.0005475	.010487	.0004552
%RSD	2.491951	.3012371	.2791570	2.143856	.2021458	.2381008
#1	.0142469	1.732017	3.967850	.0258172	5.181377	.1906773
#2	.0142465	1.740172	3.974830	.0249092	5.182413	.1914171
#3	.0136405	1.730438	3.989597	.0258934	5.200037	.1915068

Elem	Sr4077
Units	ppm
Avg	**.2362709**
Stddev	.0008355
%RSD	.3536088
#1	.2354672
#2	.2362105
#3	.2371349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.839**	**73452.81**	**11652.07**	**2472.536**	**3744.527**
Stddev	5.060	138.94	10.62	12.756	7.526
%RSD	.1481297	.1891551	.0911592	.5158936	.2009848
#1	3421.073	73572.29	11655.44	2459.888	3753.217
#2	3415.470	73300.34	11660.60	2472.324	3740.174
#3	3410.974	73485.79	11640.17	2485.396	3740.191

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-03 Acquired: 1/24/2025 19:59:46 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0381335**	**-.003411**	**.0358724**	**.0238873**	**.0149274**	**63.05446**
Stddev	.0016434	.001278	.0016532	.0012924	.0001735	.15385
%RSD	4.309533	37.46971	4.608523	5.410278	1.162365	.2439878
#1	.0399205	-.004508	.0341816	.0229082	.0151176	63.03883
#2	.0377926	-.002007	.0374852	.0234015	.0147778	62.90903
#3	.0366872	-.003718	.0359504	.0253522	.0148869	63.21552

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.126434**	**.0005170**	**.0074912**	**214.5135**	**.0486408**	**.0462127**
Stddev	.002693	.0001245	.0000998	.3827	.0003192	.0005244
%RSD	.2391035	24.09214	1.332594	.1783979	.6561980	1.134786
#1	1.124327	.0006393	.0074645	214.2714	.0483064	.0456390
#2	1.125506	.0003903	.0076016	214.3143	.0489422	.0463317
#3	1.129468	.0005214	.0074074	214.9547	.0486737	.0466674

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0722098**	**127.6351**	**4.348479**	**46.24349**	**.1670447**	**.0044328**
Stddev	.0006148	.2941	.015825	.10855	.0010879	.0001646
%RSD	.8513843	.2304316	.3639163	.2347281	.6512808	3.712327
#1	.0724313	127.4815	4.333124	46.18864	.1666026	.0045518
#2	.0726831	127.4496	4.347580	46.17331	.1662475	.0045016
#3	.0715149	127.9742	4.364735	46.36852	.1682841	.0042450

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.201706**	**.0978516**	**.7360499**	**7.029618**	**5.976805**	**.5220430**
Stddev	.155223	.0012776	.0089511	.038139	.039144	.0015917
%RSD	12.91687	1.305608	1.216098	.5425427	.6549295	.3048963
#1	1.061976	.0969503	.7374270	6.991488	5.959888	.5217402
#2	1.174355	.0972910	.7264900	7.029601	5.948964	.5206244
#3	1.368786	.0993137	.7442326	7.067766	6.021562	.5237643

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-03 Acquired: 1/24/2025 19:59:46 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0240251**	**4.929473**	F **16.16487**	**.0137309**	**2.419386**	**.0327891**
Stddev	.0001848	.041399	.03779	.0005774	.002188	.0009392
%RSD	.7693626	.8398300	.2337535	4.205073	.0904360	2.864453
#1	.0241085	4.900578	16.12319	.0131180	2.421280	.0332152
#2	.0238133	4.910941	16.17455	.0142646	2.416991	.0334397
#3	.0241536	4.976901	16.19688	.0138101	2.419887	.0317123

Elem	Sr4077
Units	ppm
Avg	**.3108280**
Stddev	.0008235
%RSD	.2649271
#1	.3102252
#2	.3104925
#3	.3117663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3297.773**	**69388.47**	**11221.85**	**2366.014**	**3760.629**
Stddev	18.593	44.78	11.81	8.918	20.352
%RSD	.5637999	.0645296	.1052050	.3769112	.5411873
#1	3306.983	69426.84	11229.76	2368.427	3775.911
#2	3309.962	69399.30	11208.28	2373.477	3768.449
#3	3276.372	69339.27	11227.52	2356.138	3737.527

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-04 Acquired: 1/24/2025 20:03:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0396842	-.003153	.0367883	.0232757	.0137856	62.12008
Stddev	.0030329	.002328	.0008962	.0019275	.0012304	.59188
%RSD	7.642707	73.81980	2.436059	8.281045	8.925607	.9527926
#1	.0361820	-.005538	.0359624	.0229857	.0131953	61.56440
#2	.0414452	-.003034	.0377412	.0215097	.0129615	62.05333
#3	.0414252	-.000887	.0366614	.0253317	.0152000	62.74249

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.106921	.0005102	.0073814	210.5308	.0484055	.0453560
Stddev	.010817	.0000972	.0000993	2.1431	.0009167	.0002529
%RSD	.9771810	19.05812	1.345408	1.017955	1.893723	.5576213
#1	1.096969	.0004642	.0074960	208.6840	.0478474	.0456275
#2	1.105361	.0004444	.0073286	210.0276	.0479056	.0453134
#3	1.118432	.0006218	.0073197	212.8807	.0494634	.0451271

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0714029	125.6389	4.273684	45.37861	.1644298	.0038382
Stddev	.0019409	1.4261	.044175	.48393	.0006089	.0004658
%RSD	2.718179	1.135117	1.033662	1.066422	.3702909	12.13564
#1	.0713833	124.4121	4.236556	45.01956	.1646033	.0034142
#2	.0733535	125.3009	4.261957	45.18734	.1637531	.0037636
#3	.0694719	127.2037	4.322540	45.92895	.1649332	.0043368

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230782	.0967220	.7210766	6.843964	5.870968	.5121263
Stddev	.039745	.0018900	.0121015	.113983	.012835	.0069334
%RSD	3.229252	1.954017	1.678255	1.665450	.2186147	1.353856
#1	1.185166	.0956984	.7079689	6.806279	5.869005	.5061967
#2	1.257952	.0955646	.7234365	6.753596	5.859228	.5104325
#3	1.249227	.0989029	.7318243	6.972017	5.884671	.5197497

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-04 Acquired: 1/24/2025 20:03:45 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0242919	4.815168	F 16.29610	.0145577	2.405053	.0303535
Stddev	.0000665	.024792	.07618	.0003055	.003010	.0008882
%RSD	.2736552	.5148655	.4674963	2.098385	.1251403	2.926063
#1	.0242181	4.815469	16.32097	.0143391	2.408406	.0300054
#2	.0243106	4.790227	16.21059	.0144273	2.402586	.0296922
#3	.0243470	4.839808	16.35674	.0149068	2.404167	.0313630

Elem	Sr4077
Units	ppm
Avg	.3052667
Stddev	.0031058
%RSD	1.017408
#1	.3023241
#2	.3049628
#3	.3085134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3362.723	70234.60	11206.95	2375.638	3830.136
Stddev	6.245	558.40	45.33	18.802	1.872
%RSD	.1857195	.7950566	.4044970	.7914411	.0488693
#1	3369.794	70704.87	11158.21	2392.454	3828.249
#2	3360.414	70381.51	11247.86	2379.121	3831.992
#3	3357.961	69617.43	11214.77	2355.338	3830.166

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-03LX5 Acquired: 1/24/2025 20:07:43 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070579	-.001559	.0062776	.0062948	.0022475	12.41733	.2103874
Stddev	.0010629	.001572	.0010301	.0037749	.0003914	.05628	.0022328
%RSD	15.06020	100.8200	16.40928	59.96831	17.41469	.4532595	1.061266
#1	.0072350	.000236	.0062431	.0081796	.0025452	12.40516	.2091268
#2	.0059175	-.002689	.0052652	.0087560	.0018042	12.47870	.2129654
#3	.0080211	-.002224	.0073245	.0019487	.0023930	12.36813	.2090701

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001631	.0014024	42.57394	.0100480	.0093094	.0115370	26.12740
Stddev	.0000954	.0000437	.18871	.0001909	.0005125	.0010687	.10558
%RSD	58.46492	3.113204	.4432531	1.900004	5.505284	9.263434	.4041031
#1	.0002667	.0013912	42.61316	.0102405	.0098427	.0122077	26.19697
#2	.0000789	.0014506	42.73995	.0098587	.0088205	.0120988	26.17932
#3	.0001438	.0013655	42.36870	.0100448	.0092650	.0103046	26.00592

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8795453	9.281522	.0333137	.0008033	.1860979	.0191112	.1426803
Stddev	.0030651	.053592	.0008220	.0003992	.4182099	.0008400	.0027464
%RSD	.3484889	.5774011	2.467448	49.69626	224.7257	4.395265	1.924855
#1	.8786840	9.337378	.0342177	.0010869	.4407935	.0191674	.1403250
#2	.8829489	9.276661	.0326112	.0009761	.4140629	.0182445	.1456970
#3	.8770030	9.230526	.0331121	.0003468	-.296563	.0199217	.1420188

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.537769	1.175137	.0968913	.0044735	.9668995	3.367180	.0009854
Stddev	.063316	.001397	.0009084	.0001070	.0059224	.012305	.0001582
%RSD	4.117418	.1189007	.9375431	2.392376	.6125123	.3654510	16.05322
#1	1.473720	1.173982	.0976305	.0045315	.9649146	3.355518	.0011322
#2	1.539260	1.174738	.0971662	.0043499	.9622246	3.380041	.0008179
#3	1.600326	1.176690	.0958772	.0045389	.9735594	3.365982	.0010062

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-03LX5 Acquired: 1/24/2025 20:07:43 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5007874	.0045226	.0609362
Stddev	.0002772	.0010758	.0004627
%RSD	.0553506	23.78797	.7593388
#1	.5010511	.0041430	.0610459
#2	.5008126	.0036880	.0613341
#3	.5004985	.0057368	.0604284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3433.809	70802.70	11013.59	2444.833	4129.568
Stddev	8.694	258.82	32.64	8.522	9.299
%RSD	.2531984	.3655476	.2963649	.3485564	.2251914
#1	3427.574	70552.72	11026.04	2435.724	4121.093
#2	3443.741	70785.86	11038.17	2446.164	4139.516
#3	3430.112	71069.53	10976.56	2452.610	4128.094

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-05 Acquired: 1/24/2025 20:11:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1042292**	**.0927172**	**.0730446**	**.1840081**	**.1798247**	**65.58589**
Stddev	.0044030	.0024558	.0005745	.0028618	.0005970	.19564
%RSD	4.224359	2.648697	.7865287	1.555280	.3319722	.2982896
#1	.1022960	.0925138	.0723977	.1809278	.1804970	65.74050
#2	.1011236	.0903695	.0732406	.1865845	.1793566	65.36595
#3	.1092681	.0952684	.0734955	.1845121	.1796205	65.65121

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.844822**	**.0887428**	**.0987248**	**211.0846**	**.4402168**	**.9703231**
Stddev	.014919	.0003768	.0002928	.2454	.0007428	.0041433
%RSD	.3079377	.4245532	.2965457	.1162526	.1687384	.4270073
#1	4.859310	.0883126	.0984323	211.2204	.4393728	.9661874
#2	4.829506	.0890140	.0987241	210.8013	.4407714	.9703077
#3	4.845649	.0889018	.0990179	211.2320	.4405060	.9744741

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5253056**	**127.5847**	**5.211316**	**45.52869**	**1.084006**	**.0738518**
Stddev	.0074929	.2368	.012726	.00745	.004364	.0004806
%RSD	1.426389	.1855723	.2441997	.0163625	.4025693	.6507374
#1	.5203232	127.7311	5.211652	45.53426	1.079452	.0735668
#2	.5216710	127.3115	5.198425	45.52023	1.084415	.0735819
#3	.5339226	127.7114	5.223871	45.53157	1.088151	.0744067

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.190001**	**1.014857**	**1.620158**	**7.045010**	**5.700672**	**.5226623**
Stddev	.162274	.005277	.004302	.037819	.010709	.0014438
%RSD	13.63646	.5199511	.2655171	.5368201	.1878505	.2762391
#1	1.137323	1.015728	1.615218	7.058844	5.688340	.5232565
#2	1.372069	1.009198	1.622179	7.002222	5.707627	.5210162
#3	1.060610	1.019643	1.623078	7.073964	5.706048	.5237141

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-05 Acquired: 1/24/2025 20:11:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G6S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231876	4.663039	F 16.47214	.0139482	2.403083	.0319578
Stddev	.0002519	.025666	.08235	.0005990	.003637	.0007316
%RSD	1.086459	.5504225	.4999053	4.294770	.1513438	2.289379
#1	.0228979	4.645272	16.37798	.0143814	2.403735	.0327721
#2	.0233101	4.651380	16.50777	.0132646	2.399164	.0313558
#3	.0233549	4.692466	16.53067	.0141985	2.406350	.0317454

Elem	Sr4077
Units	ppm
Avg	.3063566
Stddev	.0011303
%RSD	.3689411
#1	.3073589
#2	.3051315
#3	.3065794

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3411.209	69568.06	11144.07	2376.454	3893.806
Stddev	15.158	1.87	46.77	8.194	12.294
%RSD	.4443501	.0026929	.4197161	.3448127	.3157421
#1	3427.724	69568.92	11196.58	2375.346	3906.793
#2	3407.972	69565.91	11106.85	2368.869	3892.277
#3	3397.931	69569.35	11128.80	2385.145	3882.347

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-06 Acquired: 1/24/2025 20:15:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1568290**	**-.019160**	**.0848639**	**.0955969**	**.0489015**	**166.8477**
Stddev	.0006774	.001769	.0029141	.0050960	.0029166	1.8167
%RSD	.4319078	9.233951	3.433803	5.330754	5.964146	1.088853
#1	.1561320	-.017134	.0814997	.0909440	.0489451	164.9612
#2	.1574849	-.019945	.0866030	.0948036	.0459634	166.9966
#3	.1568700	-.020402	.0864891	.1010430	.0517960	168.5855

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.832569**	**.0041316**	**.0113521**	**143.2012**	**.4696995**	**.3394758**
Stddev	.022078	.0000855	.0002737	1.4239	.0027354	.0003213
%RSD	1.204778	2.070462	2.410650	.9943266	.5823625	.0946429
#1	1.811525	.0040679	.0116615	141.7668	.4667905	.3391615
#2	1.830629	.0042289	.0111417	143.2225	.4700886	.3398037
#3	1.855554	.0040981	.0112532	144.6144	.4722195	.3394623

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6741600**	**444.7569**	**13.72293**	**76.22912**	**.2631840**	**.0130885**
Stddev	.0033227	2.8960	.12716	.63611	.0008030	.0000524
%RSD	.4928611	.6511499	.9265984	.8344704	.3051031	.4001968
#1	.6779761	441.4600	13.59752	75.55601	.2622569	.0131302
#2	.6725963	446.8899	13.71952	76.31104	.2636587	.0130297
#3	.6719078	445.9207	13.85176	76.82029	.2636365	.0131056

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.113988**	**.9337192**	**.7796431**	**12.90505**	**9.201413**	**1.805648**
Stddev	.227788	.0030292	.0039146	.16317	.013972	.015187
%RSD	10.77527	.3244287	.5020991	1.264355	.1518495	.8410837
#1	1.938897	.9372050	.7754078	12.72942	9.186624	1.788113
#2	2.371517	.9322280	.7803931	12.93381	9.203225	1.814611
#3	2.031549	.9317247	.7831284	13.05193	9.214392	1.814219

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-06 Acquired: 1/24/2025 20:15:38 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028767	4.181974	7.650640	.0411615	F 10.72427	.0959440
Stddev	.0005712	.007032	.010722	.0004577	.01584	.0018980
%RSD	19.85556	.1681541	.1401472	1.111910	.1477094	1.978260
#1	.0022833	4.177181	7.652750	.0409980	10.73845	.0942534
#2	.0034227	4.178694	7.639020	.0416785	10.72718	.0955815
#3	.0029240	4.190047	7.660151	.0408080	10.70717	.0979971

Elem	Sr4077
Units	ppm
Avg	.4663406
Stddev	.0051396
%RSD	1.102112
#1	.4615589
#2	.4656873
#3	.4717756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3759.566	78964.73	12666.38	2663.939	3736.941
Stddev	5.855	687.18	51.04	6.642	4.736
%RSD	.1557260	.8702351	.4029673	.2493375	.1267387
#1	3766.290	79731.81	12645.07	2671.506	3738.725
#2	3756.816	78756.97	12629.45	2661.240	3740.526
#3	3755.593	78405.40	12724.63	2659.071	3731.572

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-07 Acquired: 1/24/2025 20:19:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1325424**	**-.010194**	**.1028278**	**.0937254**	**.0483830**	**175.7660**
Stddev	.0006054	.005225	.0015957	.0032282	.0004061	.5371
%RSD	.4567850	51.25721	1.551821	3.444298	.8393398	.3055670
#1	.1321422	-.008944	.1040494	.0940203	.0479339	176.3449
#2	.1322461	-.005708	.1010224	.0903599	.0484906	175.2839
#3	.1332389	-.015931	.1034115	.0967960	.0487245	175.6691

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.427346**	**.0044327**	**.0101051**	**40.84762**	**.7763442**	**.2680476**
Stddev	.005591	.0001767	.0002466	.13357	.0016829	.0012673
%RSD	.3917135	3.987151	2.439935	.3270017	.2167663	.4728045
#1	1.433480	.0044969	.0098592	40.98755	.7780188	.2669397
#2	1.426023	.0042329	.0101038	40.83383	.7763607	.2677735
#3	1.422535	.0045684	.0103524	40.72148	.7746532	.2694296

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7025130**	**453.6374**	**6.642915**	**65.43117**	**.2871680**	**.0117518**
Stddev	.0029826	3.9135	.027430	.26067	.0016337	.0010972
%RSD	.4245656	.8626990	.4129248	.3983895	.5689068	9.335986
#1	.7025141	456.3406	6.674566	65.72894	.2859015	.0126553
#2	.7054951	455.4220	6.626055	65.32034	.2865903	.0120693
#3	.6995299	449.1497	6.628124	65.24422	.2890120	.0105310

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9405251**	**1.218059**	**.6309652**	**27.64569**	F **10.96178**	**1.846709**
Stddev	.1843238	.003170	.0028770	.13440	.06047	.017671
%RSD	19.59796	.2602315	.4559626	.4861363	.5516428	.9568841
#1	.7942601	1.215894	.6288423	27.77066	10.89620	1.859752
#2	1.147561	1.216587	.6342395	27.50352	10.97380	1.853777
#3	.879754	1.221697	.6298137	27.66287	11.01534	1.826599

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-07 Acquired: 1/24/2025 20:19:40 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002396	1.523719	5.814134	.0423975	F 10.87863	.0940059
Stddev	.000180	.006465	.008815	.0010508	.00428	.0012006
%RSD	7.526769	.4243110	.1516097	2.478403	.0393577	1.277162
#1	-.002600	1.523122	5.819002	.0415252	10.87564	.0939602
#2	-.002257	1.517573	5.819441	.0435640	10.88354	.0928288
#3	-.002332	1.530463	5.803959	.0421033	10.87672	.0952287

Elem	Sr4077
Units	ppm
Avg	.3415283
Stddev	.0016218
%RSD	.4748635
#1	.3433971
#2	.3406978
#3	.3404899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3839.481	78604.77	12740.33	2688.044	3893.854
Stddev	10.605	227.64	7.80	13.886	15.164
%RSD	.2762202	.2896015	.0612084	.5165824	.3894256
#1	3844.196	78344.84	12748.28	2702.772	3904.861
#2	3846.911	78768.60	12732.69	2686.168	3900.144
#3	3827.335	78700.87	12740.02	2675.191	3876.558

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-08 Acquired: 1/24/2025 20:23:43 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.074899**	**-.005352**	**1.029927**	**.0965957**	**.0433159**	**80.56025**
Stddev	.031296	.001866	.005315	.0019020	.0028005	1.06334
%RSD	.6166911	34.85868	.5160478	1.969027	6.465325	1.319925
#1	5.042491	-.003401	1.027130	.0985494	.0448371	81.77589
#2	5.077255	-.005538	1.026595	.0964876	.0450267	80.10190
#3	5.104950	-.007118	1.036057	.0947500	.0400840	79.80296

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7475497**	**.0010536**	**.0086130**	**44.16920**	**.2898254**	**.1658785**
Stddev	.0111320	.0000438	.0002730	.49831	.0039128	.0011376
%RSD	1.489132	4.159084	3.169525	1.128186	1.350045	.6858055
#1	.7601710	.0010863	.0083047	44.74240	.2939643	.1647082
#2	.7433486	.0010708	.0087105	43.92610	.2893250	.1659471
#3	.7391296	.0010039	.0088239	43.83909	.2861868	.1669803

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7809077**	**381.2338**	**6.778393**	**35.81001**	**.2163965**	**.0165408**
Stddev	.0032047	4.1839	.078750	.34841	.0009922	.0005484
%RSD	.4103846	1.097471	1.161773	.9729430	.4584865	3.315586
#1	.7845882	386.0543	6.868730	36.21087	.2158341	.0163138
#2	.7794001	379.1010	6.742217	35.58006	.2158134	.0161424
#3	.7787347	378.5460	6.724232	35.63910	.2175421	.0171663

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9962004**	**.5535392**	**1.704586**	**9.960064**	**6.918592**	**1.574466**
Stddev	.1945793	.0013951	.034278	.123937	.027567	.018761
%RSD	19.53215	.2520417	2.010928	1.244344	.3984448	1.191595
#1	.7811789	.5523010	1.743994	10.09958	6.899022	1.596046
#2	1.160151	.5532657	1.688083	9.91793	6.906636	1.565324
#3	1.047272	.5550508	1.681681	9.86268	6.950119	1.562029

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-08 Acquired: 1/24/2025 20:23:43 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0364869	F 53.22209	6.409837	.0263031	5.044926	.0462273
Stddev	.0002651	.38936	.031551	.0009367	.008801	.0015979
%RSD	.7264948	.7315819	.4922261	3.561119	.1744517	3.456627
#1	.0362036	52.90749	6.444546	.0267803	5.051416	.0477573
#2	.0365284	53.10123	6.402069	.0269051	5.034909	.0463553
#3	.0367288	53.65755	6.382895	.0252239	5.048454	.0445692

Elem	Sr4077
Units	ppm
Avg	.5736377
Stddev	.0079663
%RSD	1.388731
#1	.5826377
#2	.5707847
#3	.5674908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3550.325	72737.06	11834.40	2492.462	4006.220
Stddev	18.694	654.47	24.88	34.246	22.235
%RSD	.5265490	.8997789	.2102469	1.373972	.5550206
#1	3570.657	71993.81	11856.94	2453.046	4025.965
#2	3546.436	72990.29	11838.57	2509.425	4010.561
#3	3533.880	73227.08	11807.70	2514.916	3982.135

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-09 Acquired: 1/24/2025 20:27:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.229310**	**-.005779**	**.4823824**	**.1170063**	**.0568625**	**153.0868**
Stddev	.022925	.002526	.0112178	.0197091	.0059170	15.0303
%RSD	1.864878	43.70955	2.325494	16.84450	10.40572	9.818132
#1	1.202879	-.003339	.4694391	.1043471	.0526909	144.1285
#2	1.243799	-.008383	.4884162	.1069573	.0542624	144.6928
#3	1.241252	-.005615	.4892919	.1397145	.0636343	170.4392

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7625265**	**.0026155**	**.0133535**	**50.31286**	**.6860920**	**.3860925**
Stddev	.0776478	.0007117	.0013104	5.10476	.0809771	.0086947
%RSD	10.18296	27.21275	9.813375	10.14604	11.80266	2.251971
#1	.7156100	.0028203	.0139032	47.27323	.6381917	.3760536
#2	.7198159	.0032024	.0142995	47.45900	.6404975	.3912259
#3	.8521535	.0018238	.0118577	56.20636	.7795868	.3909980

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.734681**	**495.3617**	**3.248078**	**92.49026**	**.7446698**	**.0149281**
Stddev	.009061	50.4251	.329984	9.61457	.0158562	.0007181
%RSD	.5223553	10.17945	10.15937	10.39523	2.129292	4.810726
#1	1.724862	466.0670	3.045869	86.70658	.7263666	.0155565
#2	1.736464	466.4308	3.069499	87.17529	.7542279	.0150826
#3	1.742719	553.5872	3.628867	103.5889	.7534147	.0141453

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.464616**	**.7749233**	**4.950184**	**11.29172**	**7.683211**	**2.044515**
Stddev	.106960	.0051998	.518519	1.37656	.165903	.234722
%RSD	7.302920	.6710098	10.47474	12.19086	2.159288	11.48056
#1	1.342957	.7747713	4.639169	10.44303	7.491652	1.908626
#2	1.507014	.7801974	4.662620	10.55214	7.777389	1.909372
#3	1.543877	.7698011	5.548765	12.87998	7.780592	2.315548

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-09 Acquired: 1/24/2025 20:27:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164574	F 25.08891	3.321201	.0457469	F 11.60046	.1172363
Stddev	.0002012	.50269	.021146	.0011586	.05255	.0131296
%RSD	1.222301	2.003650	.6367107	2.532677	.4530088	11.19925
#1	.0163117	24.50886	3.301579	.0470555	11.54047	.1093203
#2	.0166869	25.39785	3.318427	.0453339	11.63838	.1099966
#3	.0163736	25.36002	3.343598	.0448514	11.62253	.1323920

Elem	Sr4077
Units	ppm
Avg	.4390422
Stddev	.0433911
%RSD	9.883116
#1	.4130883
#2	.4149033
#3	.4891349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3697.744	72845.06	12535.35	2488.815	3847.375
Stddev	51.251	7179.63	89.39	245.284	67.110
%RSD	1.386011	9.856021	.7131117	9.855458	1.744302
#1	3756.779	77076.68	12622.26	2629.647	3924.859
#2	3671.798	76903.16	12540.14	2631.212	3809.573
#3	3664.654	64555.35	12443.67	2205.587	3807.692

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-10 Acquired: 1/24/2025 20:31:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108642	-.005563	.0174104	.0439485	.0181432	76.30908	.9645424
Stddev	.0010149	.003085	.0005380	.0030527	.0009400	.46941	.0060479
%RSD	9.341547	55.45327	3.089954	6.946132	5.181178	.6151424	.6270255
#1	.0120161	-.008933	.0169796	.0428508	.0192232	76.41237	.9644481
#2	.0104749	-.002878	.0180134	.0415964	.0175090	76.71825	.9706369
#3	.0101016	-.004878	.0172382	.0473983	.0176974	75.79663	.9585422

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012761	.0035382	40.67478	.0728079	.0997425	.1730171	199.1424
Stddev	.0000995	.0000760	.23799	.0003544	.0005946	.0023288	.9898
%RSD	7.798033	2.147696	.5851074	.4868185	.5961748	1.345981	.4970299
#1	.0011699	.0035570	40.72125	.0728242	.0997146	.1731204	199.1844
#2	.0012911	.0034545	40.88610	.0731540	.1003505	.1752925	200.1106
#3	.0013672	.0036030	40.41698	.0724457	.0991622	.1706384	198.1323

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.138135	63.36977	.0690071	.0065890	1.693137	.2602575	.5177515
Stddev	.039697	.33524	.0007806	.0003771	.194143	.0012945	.0027402
%RSD	.5561257	.5290173	1.131177	5.722621	11.46646	.4974091	.5292557
#1	7.141894	63.41534	.0695056	.0065617	1.742646	.2593229	.5153116
#2	7.175819	63.67990	.0681075	.0069790	1.857731	.2597145	.5207161
#3	7.096692	63.01408	.0694082	.0062264	1.479033	.2617351	.5172267

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.768531	3.819776	.8007909	-.000143	.3049421	3.670041	.0129059
Stddev	.013795	.008468	.0058218	.000257	.0020868	.020947	.0007346
%RSD	.3660469	.2216839	.7270014	180.4563	.6843294	.5707565	5.691542
#1	3.752673	3.819173	.8007261	.000074	.3067613	3.670897	.0122065
#2	3.777760	3.828529	.8066447	-.000074	.3054008	3.648679	.0136712
#3	3.775160	3.811626	.7950017	-.000427	.3026640	3.690547	.0128401

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-10 Acquired: 1/24/2025 20:31:39 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.682594	.0304878	.1290072
Stddev	.006756	.0006476	.0008136
%RSD	.2518643	2.123986	.6306565
#1	2.677818	.0297940	.1292987
#2	2.679639	.0305934	.1296349
#3	2.690324	.0310761	.1280880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3752.300	77492.21	12183.81	2638.860	4000.570
Stddev	9.925	258.10	58.73	15.775	11.374
%RSD	.2645021	.3330633	.4820668	.5977784	.2843155
#1	3758.981	77302.51	12183.21	2636.515	4003.554
#2	3740.896	77387.99	12242.84	2624.390	3988.002
#3	3757.023	77786.12	12125.37	2655.676	4010.156

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-11 Acquired: 1/24/2025 20:35:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.043466**	**-.009099**	**.0846742**	**.1229728**	**.0609187**	**127.6686**	**1.396867**
Stddev	.006408	.002327	.0008971	.0040793	.0005490	1.0913	.007763
%RSD	.6140755	25.57243	1.059502	3.317205	.9012732	.8547706	.5557661
#1	1.037742	-.006481	.0840537	.1185254	.0603763	126.5744	1.390750
#2	1.050388	-.009883	.0857028	.1265403	.0614742	128.7569	1.405601
#3	1.042267	-.010932	.0842662	.1238526	.0609058	127.6745	1.394252

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025462**	**.0110500**	**32.82104**	**.3998565**	**.2488683**	**.6511589**	**549.7880**
Stddev	.0002242	.0001087	.27194	.0028623	.0006542	.0025145	5.0554
%RSD	8.806952	.9840174	.8285463	.7158181	.2628487	.3861495	.9195182
#1	.0026207	.0111394	32.57861	.3970606	.2482308	.6534794	544.7050
#2	.0022941	.0110816	33.11509	.4027808	.2488361	.6515098	554.8153
#3	.0027237	.0109289	32.76942	.3997282	.2495379	.6484874	549.8438

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.998006**	**65.83045**	**.2690989**	**.0154355**	**1.100679**	**.9639659**	**.8665583**
Stddev	.030896	.63571	.0004676	.0010304	.278991	.0039950	.0116134
%RSD	.7727918	.9656772	.1737528	6.675323	25.34712	.4144316	1.340179
#1	3.971854	65.19906	.2686059	.0145578	1.359666	.9594019	.8558149
#2	4.032097	66.47039	.2691548	.0165700	1.137108	.9668290	.8788803
#3	3.990067	65.82191	.2695360	.0151786	.805264	.9656666	.8649797

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.36403**	**6.733750**	**2.242647**	**.0007859**	**2.139464**	**2.866405**	**.0261177**
Stddev	.09911	.009196	.020736	.0004156	.005077	.002972	.0015199
%RSD	.8721021	.1365651	.9246036	52.88468	.2372962	.1037012	5.819531
#1	11.25099	6.743747	2.222621	.0004170	2.135228	2.869747	.0276744
#2	11.43602	6.731852	2.264026	.0007045	2.145091	2.865411	.0260415
#3	11.40507	6.725652	2.241295	.0012361	2.138073	2.864057	.0246374

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-11 Acquired: 1/24/2025 20:35:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.424583**	**.0999132**	**.3895470**
Stddev	.012543	.0005265	.0026535
%RSD	.2312316	.5269856	.6811742
#1	5.415161	.0997766	.3875603
#2	5.438820	.1004945	.3925604
#3	5.419767	.0994684	.3885202

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3573.351**	**74091.93**	**11891.99**	**2539.430**	**3893.780**
Stddev	1.284	776.79	68.19	30.906	3.703
%RSD	.0359258	1.048408	.5733970	1.217032	.0951124
#1	3571.873	74928.42	11970.30	2568.905	3893.749
#2	3574.188	73393.30	11845.77	2507.269	3890.093
#3	3573.992	73954.07	11859.90	2542.116	3897.500

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-12 Acquired: 1/24/2025 20:39:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1069892	-.009196	.0513186	.0988876	.0479074	138.6581
Stddev	.0025608	.000739	.0009314	.0052174	.0018211	.7619
%RSD	2.393530	8.031033	1.814988	5.276066	3.801198	.5494515
#1	.1040714	-.008457	.0521791	.1016360	.0467101	138.2157
#2	.1088635	-.009935	.0514470	.0928706	.0500031	139.5378
#3	.1080327	-.009197	.0503296	.1021562	.0470091	138.2208

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.455346	.0031209	.0096298	83.54710	.0402395	.2282003
Stddev	.012688	.0000507	.0002207	.37945	.0004612	.0006516
%RSD	.5167384	1.623504	2.291831	.4541695	1.146216	.2855459
#1	2.447783	.0031795	.0095132	83.51277	.0404402	.2288071
#2	2.469994	.0030918	.0098844	83.94254	.0405663	.2282821
#3	2.448261	.0030916	.0094919	83.18598	.0397119	.2275116

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.046778	470.1898	14.27960	80.03707	.0897049	.0136070
Stddev	.003692	1.5353	.05686	.39407	.0008738	.0002925
%RSD	.3527206	.3265176	.3982016	.4923536	.9740332	2.149329
#1	1.048374	471.9592	14.27924	79.91741	.0901549	.0139440
#2	1.042557	469.3993	14.33663	80.47710	.0902619	.0134576
#3	1.049404	469.2109	14.22291	79.71671	.0886978	.0134195

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.932017	.4240293	.9411095	12.04781	F 18.97376	1.916504
Stddev	.203537	.0027353	.0045935	.08155	.01156	.007059
%RSD	5.176398	.6450659	.4880977	.6768844	.0609468	.3683210
#1	4.093670	.4259875	.9380108	12.00752	18.98161	1.924275
#2	3.998936	.4209041	.9463870	12.14166	18.96048	1.914746
#3	3.703446	.4251963	.9389307	11.99424	18.97917	1.910490

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-12 Acquired: 1/24/2025 20:39:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000901**	**4.486233**	**3.957260**	**.0332719**	**9.635728**	**.1064997**
Stddev	.000287	.013532	.023508	.0012572	.028655	.0022146
%RSD	31.85755	.3016264	.5940482	3.778710	.2973846	2.079475
#1	-.000904	4.489962	3.974080	.0331999	9.652368	.1047579
#2	-.001187	4.471228	3.930399	.0320522	9.602640	.1089921
#3	-.000613	4.497509	3.967301	.0345636	9.652177	.1057492

Elem	Sr4077
Units	ppm
Avg	**.4702313**
Stddev	.0023637
%RSD	.5026732
#1	.4687078
#2	.4729543
#3	.4690317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3634.642**	**74172.31**	**11944.40**	**2523.838**	**3902.068**
Stddev	6.775	268.98	70.33	11.868	1.839
%RSD	.1863878	.3626400	.5887866	.4702246	.0471258
#1	3641.656	74053.48	11876.30	2528.470	3904.191
#2	3634.135	73983.21	12016.76	2510.352	3901.032
#3	3628.135	74480.24	11940.14	2532.690	3900.981

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-13 Acquired: 1/24/2025 20:43:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6367586**	**-.003170**	**.3101046**	**.0400712**	**.0224852**	**11.20154**	**.2817580**
Stddev	.0035494	.000700	.0004332	.0024019	.0018804	.01984	.0013832
%RSD	.5574198	22.06741	.1396813	5.994014	8.362694	.1771507	.4909074
#1	.6338362	-.003814	.3100915	.0375206	.0203139	11.21385	.2803214
#2	.6357312	-.002426	.3105442	.0404031	.0235738	11.21211	.2818717
#3	.6407084	-.003270	.3096782	.0422898	.0235678	11.17864	.2830807

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001485**	**.0054075**	**102.5569**	**.0187505**	**.0661313**	**.3670738**	**157.5104**
Stddev	.0000366	.0000822	.2112	.0002531	.0001521	.0030172	.1908
%RSD	24.62124	1.519435	.2059676	1.349790	.2299363	.8219537	.1211032
#1	.0001754	.0055004	102.3131	.0190427	.0662984	.3705529	157.4740
#2	.0001069	.0053445	102.6844	.0186009	.0660944	.3651746	157.7168
#3	.0001631	.0053775	102.6733	.0186079	.0660011	.3654941	157.3405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.549564**	**27.01413**	**.2247842**	**.0102059**	**-.300155**	**.0178758**	**.5174085**
Stddev	.010405	.03841	.0001279	.0003140	.515213	.0024469	.0059002
%RSD	.4081067	.1422031	.0569179	3.076823	171.6488	13.68811	1.140339
#1	2.537742	27.00036	.2246382	.0099726	-.693845	.0182040	.5115213
#2	2.557334	27.05753	.2248374	.0105629	.282955	.0201421	.5173825
#3	2.553615	26.98450	.2248769	.0100822	-.489575	.0152815	.5233216

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.648511**	**5.113272**	**.6429786**	**.0133056**	**9.292415**	**2.009844**	**.0020989**
Stddev	.022815	.025089	.0014686	.0000266	.037312	.004197	.0004386
%RSD	.8614142	.4906639	.2283994	.1999711	.4015280	.2088006	20.89662
#1	2.662986	5.089485	.6423854	.0133318	9.260064	2.007058	.0020744
#2	2.622211	5.110843	.6446509	.0133064	9.283948	2.007804	.0025492
#3	2.660336	5.139486	.6418994	.0132786	9.333232	2.014671	.0016730

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-13 Acquired: 1/24/2025 20:43:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0348638	.0117266	.8165897
Stddev	.0006588	.0015702	.0014827
%RSD	1.889684	13.38984	.1815777
#1	.0349062	.0132905	.8148792
#2	.0355003	.0101502	.8175092
#3	.0341848	.0117390	.8173806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3385.004	71260.25	11167.51	2439.550	3939.926
Stddev	4.427	114.82	15.56	9.521	.681
%RSD	.1307925	.1611282	.1392997	.3902841	.0172915
#1	3386.248	71350.54	11177.03	2443.815	3939.558
#2	3388.675	71131.03	11149.56	2428.642	3940.713
#3	3380.087	71299.20	11175.94	2446.193	3939.509

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV018 Acquired: 1/24/2025 20:47:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV018 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.707409**	**4.659181**	**23.39443**	**4.773983**	**4.833517**	**393.9862**
Stddev	.018664	.011576	.07265	.014123	.020550	3.3364
%RSD	.3964807	.2484620	.3105310	.2958322	.4251665	.8468415
#1	4.689048	4.672548	23.32467	4.762117	4.818573	393.2975
#2	4.706817	4.652541	23.38896	4.770227	4.825025	391.0478
#3	4.726362	4.652454	23.46965	4.789604	4.856952	397.6132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.809870**	**.4635220**	**2.336605**	**383.1110**	**14.66003**	**2.381766**
Stddev	.012985	.0045036	.006971	2.7754	.03265	.005744
%RSD	.1323693	.9716102	.2983396	.7244479	.2227149	.2411729
#1	9.815266	.4675811	2.330840	382.5216	14.66734	2.377503
#2	9.819287	.4643076	2.334623	380.6775	14.62435	2.379498
#3	9.795057	.4586772	2.344352	386.1337	14.68841	2.388298

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.12298**	**392.5674**	**14.44875**	**380.8906**	**2.373623**	**1.232923**
Stddev	.03553	1.3200	.07205	.9816	.007970	.002226
%RSD	.2515583	.3362581	.4986900	.2577170	.3357592	.1805083
#1	14.14466	391.4609	14.40008	380.3753	2.365501	1.233939
#2	14.14231	392.2127	14.41465	380.2740	2.373939	1.230371
#3	14.08198	394.0285	14.53153	382.0226	2.381431	1.234459

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**364.7059**	**2.333372**	**14.83621**	**148.0824**	**4.775750**	F **5.630876**
Stddev	.0947	.008224	.14213	.8765	.019973	.028911
%RSD	.0259750	.3524508	.9579742	.5918759	.4182237	.5134388
#1	364.5982	2.336727	14.73548	147.3532	4.762011	5.658286
#2	364.7760	2.339389	14.77437	147.8393	4.766578	5.633673
#3	364.7436	2.324001	14.99878	149.0548	4.798662	5.600667

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV018 Acquired: 1/24/2025 20:47:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV018 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.697594**	**4.815164**	**4.690515**	**4.730829**	**4.720757**	**4.803810**
Stddev	.019786	.011640	.030163	.015256	.026294	.038168
%RSD	.4212009	.2417418	.6430664	.3224881	.5569926	.7945293
#1	4.689127	4.803557	4.711478	4.720154	4.744093	4.772423
#2	4.683451	4.815098	4.704121	4.724029	4.725909	4.792710
#3	4.720205	4.826837	4.655945	4.748303	4.692267	4.846297

Elem	Sr4077
Units	ppm
Avg	**4.901571**
Stddev	.056888
%RSD	1.160616
#1	4.927528
#2	4.836334
#3	4.940852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2785.335**	**61181.97**	**10181.50**	**2059.472**	**3267.533**
Stddev	7.409	131.91	86.27	12.954	5.887
%RSD	.2660127	.2156031	.8472913	.6290193	.1801635
#1	2791.669	61229.60	10103.73	2066.711	3274.166
#2	2787.149	61283.44	10166.48	2067.188	3265.507
#3	2777.187	61032.86	10274.29	2044.516	3262.927

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB018 Acquired: 1/24/2025 20:56:16 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB018 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013200**	**-.001265**	**-.000351**	**.0006555**	**.0006190**	**.0036341**	**-.007030**
Stddev	.0014303	.001085	.001550	.0010237	.0013952	.0036815	.000687
%RSD	108.3603	85.77683	441.7535	156.1685	225.3938	101.3042	9.772250
#1	.0025165	-.002107	.001181	.0017683	-.000136	.0066592	-.006237
#2	.0017076	-.001647	-.000316	.0004443	-.000236	.0047079	-.007441
#3	-.000264	-.000041	-.001918	-.000246	.002229	-.000465	-.007412

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000004**	**.0000817**	**.0030295**	**.0004518**	**-.000041**	**-.000993**	**.0116385**
Stddev	.000078	.0000807	.0020712	.0001532	.000050	.001465	.0082353
%RSD	2091.033	98.80318	68.36802	33.89768	120.2806	147.5807	70.75929
#1	-.000060	.0001745	.0049719	.0002754	-.000028	-.001986	.0162034
#2	-.000036	.0000292	.0008499	.0005290	-.000096	-.001683	.0021317
#3	.000085	.0000413	.0032667	.0005510	.000000	.000690	.0165804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000267**	**-.011573**	**.0001638**	**.0005192**	**-.027730**	**-.000240**	**-.001033**
Stddev	.000185	.006797	.0004019	.0002798	.218708	.000906	.001575
%RSD	69.41303	58.73325	245.3646	53.89423	788.6976	377.4843	152.3733
#1	-.000411	-.011507	-.000272	.0001961	-.267771	.000195	-.001527
#2	-.000058	-.004809	.000243	.0006767	.160250	-.001281	.000729
#3	-.000331	-.018403	.000520	.0006847	.024330	.000366	-.002302

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3869876**	**.0035010**	**-.006407**	**-.000091**	**.0110608**	**.0018694**	**-.000083**
Stddev	.0807006	.0005460	.000281	.000198	.0015584	.0022004	.000737
%RSD	20.85355	15.59515	4.389918	217.3606	14.08965	117.7090	886.9580
#1	.2948459	.0036313	-.006255	-.000318	.0093931	.0033553	-.000901
#2	.4451012	.0039701	-.006732	.000004	.0113093	-.000659	.000119
#3	.4210158	.0029017	-.006235	.000042	.0124801	.002911	.000532

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB018 Acquired: 1/24/2025 20:56:16 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB018 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000824	-.000661	.0000650
Stddev	.000212	.000867	.0000570
%RSD	25.73632	131.1851	87.63234
#1	-.000808	-.000629	.0000599
#2	-.001043	.000190	.0001244
#3	-.000620	-.001543	.0000108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3484.194	71668.21	10902.10	2500.200	4292.563
Stddev	8.803	164.98	35.44	14.798	15.469
%RSD	.2526555	.2302067	.3250481	.5918776	.3603770
#1	3480.586	71748.07	10912.63	2504.050	4285.636
#2	3494.227	71778.06	10931.09	2512.693	4310.286
#3	3477.767	71478.49	10862.59	2483.858	4281.769

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-14 Acquired: 1/24/2025 21:00:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7667708**	**-.005620**	**.4189789**	**.0443617**	**.0233617**	**13.59939**
Stddev	.0018390	.001388	.0027186	.0003638	.0004128	.02715
%RSD	.2398419	24.70514	.6488543	.8202002	1.767136	.1996162
#1	.7651355	-.006183	.4219073	.0447812	.0237961	13.58954
#2	.7687617	-.006638	.4165356	.0441324	.0229745	13.63008
#3	.7664152	-.004038	.4184937	.0441714	.0233144	13.57853

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3795033**	**.0001748**	**.0054269**	**118.4206**	**.0220519**	**.0802540**
Stddev	.0016286	.0000545	.0000329	.0866	.0002098	.0000682
%RSD	.4291462	31.16330	.6060112	.0731641	.9511539	.0850224
#1	.3797388	.0001865	.0054639	118.5100	.0222312	.0802551
#2	.3810013	.0001155	.0054010	118.4148	.0218212	.0801853
#3	.3777697	.0002225	.0054159	118.3370	.0221032	.0803217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3762049**	**176.2182**	**3.148712**	**34.05222**	**.2226133**	**.0120563**
Stddev	.0061467	.1240	.011900	.03804	.0000912	.0000801
%RSD	1.633872	.0703669	.3779411	.1117190	.0409844	.6641991
#1	.3740146	176.3193	3.158092	34.04001	.2226285	.0120721
#2	.3831468	176.2553	3.152718	34.02178	.2226960	.0121274
#3	.3714534	176.0798	3.135325	34.09487	.2225154	.0119696

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.103692**	**.0209599**	**.5374871**	**3.273878**	**5.879008**	**.7242010**
Stddev	.281752	.0007176	.0043925	.037280	.007062	.0004848
%RSD	271.7193	3.423890	.8172230	1.138723	.1201234	.0669382
#1	-.413390	.0210808	.5424790	3.243143	5.887112	.7243398
#2	-.035154	.0216094	.5357686	3.315348	5.874172	.7236620
#3	.137467	.0201895	.5342137	3.263142	5.875740	.7246012

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-14 Acquired: 1/24/2025 21:00:25 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161383	F 16.02253	1.980597	.0025053	.0263103	.0145571
Stddev	.0001035	.00255	.026808	.0011081	.0010829	.0006180
%RSD	.6411730	.0159078	1.353556	44.23212	4.115696	4.245163
#1	.0160307	16.02213	1.988291	.0012401	.0250603	.0149598
#2	.0161473	16.02526	2.002718	.0029722	.0269105	.0138456
#3	.0162370	16.02021	1.950783	.0033035	.0269601	.0148660

Elem	Sr4077
Units	ppm
Avg	.9837462
Stddev	.0058420
%RSD	.5938512
#1	.9889910
#2	.9774499
#3	.9847976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3503.407	71194.92	11241.95	2441.612	4059.012
Stddev	9.721	189.40	36.24	9.226	10.813
%RSD	.2774671	.2660236	.3223491	.3778665	.2664027
#1	3509.901	71181.81	11203.50	2435.831	4063.569
#2	3508.088	71390.53	11246.86	2452.251	4066.801
#3	3492.231	71012.42	11275.48	2436.751	4046.666

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-15 Acquired: 1/24/2025 21:04:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3997244	-.003039	.1766219	.0375309	.0188691	15.43476	.3067593
Stddev	.0006881	.001008	.0010995	.0021209	.0008071	.07509	.0020861
%RSD	.1721384	33.16420	.6225418	5.651109	4.277347	.4864684	.6800511
#1	.4004239	-.003883	.1758799	.0363323	.0179819	15.35558	.3046907
#2	.3990483	-.003310	.1761007	.0399797	.0195598	15.50494	.3088625
#3	.3997010	-.001923	.1778851	.0362806	.0190657	15.44377	.3067248

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000133	.0039577	42.56710	.0277620	.0430041	.2362232	174.8797
Stddev	.000031	.0000160	.13250	.0000561	.0003345	.0008921	.6626
%RSD	23.32100	.4033627	.3112683	.2021875	.7778438	.3776457	.3789061
#1	-.000157	.0039400	42.45604	.0278253	.0427818	.2357158	174.1332
#2	-.000144	.0039711	42.71376	.0277425	.0428417	.2357006	175.3986
#3	-.000098	.0039620	42.53150	.0277182	.0433888	.2372533	175.1071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.635213	12.99072	.1181840	.0111410	-.066535	.0911819	.3473266
Stddev	.009151	.01002	.0007473	.0001784	.207951	.0009219	.0054519
%RSD	.2517347	.0771016	.6322985	1.601498	312.5417	1.011039	1.569684
#1	3.625377	13.00032	.1186338	.0109948	-.041114	.0913279	.3533474
#2	3.643476	12.98033	.1173213	.0113398	.127536	.0901957	.3427236
#3	3.636785	12.99151	.1185967	.0110884	-.286028	.0920221	.3459087

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.240611	3.383741	.7070549	.0044402	5.096026	2.866912	.0038575
Stddev	.064976	.002761	.0040184	.0002938	.011142	.006499	.0006010
%RSD	2.005050	.0815821	.5683318	6.616215	.2186311	.2266941	15.57876
#1	3.179764	3.384425	.7025066	.0041055	5.085670	2.866728	.0044381
#2	3.309049	3.380703	.7101243	.0046552	5.107814	2.873501	.0038964
#3	3.233021	3.386096	.7085337	.0045601	5.094594	2.860506	.0032381

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-15 Acquired: 1/24/2025 21:04:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2958715	.0093071	.3145587
Stddev	.0008650	.0017639	.0013847
%RSD	.2923623	18.95261	.4402177
#1	.2954739	.0113286	.3132554
#2	.2952768	.0085119	.3160126
#3	.2968639	.0080807	.3144081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3510.410	73015.27	11489.92	2514.922	4077.684
Stddev	4.641	170.91	12.74	2.819	1.734
%RSD	.1322102	.2340697	.1108766	.1120783	.0425242
#1	3513.430	73207.22	11490.93	2517.156	4078.601
#2	3512.733	72879.59	11502.12	2515.856	4078.766
#3	3505.066	72959.01	11476.71	2511.755	4075.684

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-16 Acquired: 1/24/2025 21:08:24 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6536536	-.001525	.5353328	.0437218	.0255810	12.83139	.2764336
Stddev	.0028721	.001790	.0018316	.0007472	.0009063	.12866	.0033584
%RSD	.4393933	117.3784	.3421436	1.708944	3.542924	1.002702	1.214905
#1	.6539793	.000164	.5334387	.0430880	.0266171	12.89865	.2781677
#2	.6506326	-.001337	.5370948	.0445456	.0251901	12.91249	.2785706
#3	.6563491	-.003402	.5354648	.0435317	.0249357	12.68304	.2725627

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001333	.0058912	16.73908	.0231157	.0681324	.3980481	174.5526
Stddev	.0001290	.0001273	.14116	.0003272	.0001606	.0026882	1.4544
%RSD	96.75771	2.160136	.8432924	1.415327	.2356878	.6753428	.8332169
#1	.0001410	.0058114	16.81913	.0231311	.0683044	.3951739	175.3022
#2	.0000007	.0058244	16.82202	.0234349	.0681062	.4005003	175.4794
#3	.0002583	.0060380	16.57609	.0227811	.0679865	.3984702	172.8764

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.276814	7.146304	.2223003	.0121301	.2654767	.0260675	1.097073
Stddev	.020730	.030532	.0009471	.0003867	.1845429	.0015847	.011075
%RSD	.9105003	.4272470	.4260607	3.188186	69.51378	6.079360	1.009546
#1	2.286796	7.176846	.2230919	.0124883	.4784285	.0274864	1.104481
#2	2.290665	7.146285	.2212510	.0121820	.1523124	.0243573	1.102397
#3	2.252981	7.115782	.2225581	.0117201	.1656893	.0263590	1.084341

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.344965	7.117478	.7114173	.0128062	1.854576	2.941955	.0056913
Stddev	.075384	.016421	.0084876	.0003897	.005649	.000995	.0003609
%RSD	2.253646	.2307171	1.193062	3.043249	.3045936	.0338193	6.340296
#1	3.338127	7.117715	.7162083	.0123915	1.860203	2.940889	.0053640
#2	3.423535	7.100940	.7164263	.0128622	1.848905	2.942858	.0056316
#3	3.273233	7.133780	.7016174	.0131649	1.854621	2.942118	.0060783

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-16 Acquired: 1/24/2025 21:08:24 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1145622	.0077541	.2165752
Stddev	.0011946	.0013101	.0021353
%RSD	1.042757	16.89517	.9859543
#1	.1138589	.0086027	.2173087
#2	.1159415	.0062452	.2182471
#3	.1138861	.0084143	.2141698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.480	73426.01	11395.75	2521.560	4299.533
Stddev	10.548	375.54	69.12	19.802	8.435
%RSD	.2910965	.5114496	.6065648	.7853264	.1961736
#1	3626.381	73270.23	11439.48	2513.247	4300.079
#2	3632.275	73153.44	11431.70	2507.268	4307.680
#3	3611.786	73854.37	11316.06	2544.163	4290.838

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-17 Acquired: 1/24/2025 21:12:23 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8598480**	**-.005771**	**.5332609**	**.0494185**	**.0286886**	**18.53793**	**.4080413**
Stddev	.0040496	.002403	.0007311	.0017926	.0010403	.02799	.0017454
%RSD	.4709650	41.63995	.1371032	3.627315	3.626177	.1510089	.4277540
#1	.8563597	-.002997	.5340110	.0482862	.0292577	18.56812	.4074797
#2	.8588953	-.007087	.5325503	.0484840	.0274879	18.51283	.4066459
#3	.8642890	-.007228	.5332213	.0514852	.0293202	18.53284	.4099984

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004429**	**.0070629**	**201.7828**	**.0295593**	**.0852188**	**.3798979**	**204.7852**
Stddev	.0000308	.0000420	.6727	.0002684	.0003155	.0017325	.5378
%RSD	6.958955	.5949298	.3333636	.9078854	.3702486	.4560326	.2626406
#1	.0004528	.0070771	201.9847	.0297542	.0848886	.3815947	205.0591
#2	.0004083	.0070157	201.0323	.0296705	.0852505	.3781318	204.1656
#3	.0004675	.0070960	202.3314	.0292532	.0855173	.3799673	205.1310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.184345**	**35.69856**	**.2820231**	**.0199182**	**-.088575**	**.0308577**	**.7092064**
Stddev	.014453	.05454	.0011085	.0005348	.335082	.0004247	.0040370
%RSD	.4538803	.1527657	.3930668	2.684885	378.3035	1.376373	.5692304
#1	3.185157	35.69306	.2807450	.0203746	.199837	.0313183	.7101208
#2	3.169503	35.64698	.2827229	.0193297	-.456150	.0307734	.7127078
#3	3.198375	35.75564	.2826014	.0200502	-.009411	.0304815	.7047906

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.067393**	**6.741067**	**.8379734**	**.0130939**	**9.461701**	**2.706891**	**.0017962**
Stddev	.039636	.006950	.0037387	.0002553	.002739	.005758	.0001947
%RSD	.9744707	.1031053	.4461587	1.949393	.0289447	.2127112	10.84134
#1	4.023297	6.734394	.8394490	.0133870	9.462049	2.713147	.0017529
#2	4.078829	6.740540	.8337221	.0129734	9.458805	2.701814	.0020089
#3	4.100053	6.748265	.8407491	.0129211	9.464249	2.705712	.0016267

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-17 Acquired: 1/24/2025 21:12:23 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0561427	.0199211	1.120120
Stddev	.0023746	.0008548	.016740
%RSD	4.229623	4.290856	1.494468
#1	.0553220	.0205419	1.109094
#2	.0588188	.0202753	1.139382
#3	.0542873	.0189462	1.111883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3461.732	71095.92	11101.06	2428.529	3944.556
Stddev	8.409	34.52	38.78	7.943	3.701
%RSD	.2429273	.0485543	.3493553	.3270792	.0938355
#1	3467.920	71057.07	11112.64	2429.666	3947.251
#2	3465.119	71107.63	11057.80	2420.079	3940.336
#3	3452.157	71123.07	11132.73	2435.842	3946.081

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-18 Acquired: 1/24/2025 21:16:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3406758	-.002393	.2710886	.0306945	.0168130	7.266329
Stddev	.0023879	.002555	.0001700	.0004872	.0007084	.047197
%RSD	.7009160	106.7786	.0627256	1.587117	4.213405	.6495357
#1	.3421301	-.005310	.2711007	.0306069	.0160175	7.285459
#2	.3379199	-.000556	.2712523	.0312195	.0170453	7.300958
#3	.3419774	-.001312	.2709129	.0302571	.0173760	7.212570

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2246463	.0000225	.0054318	24.06214	.0164042	.0322518
Stddev	.0013958	.0000809	.0001028	.14032	.0002288	.0003617
%RSD	.6213455	359.6597	1.892694	.5831404	1.394972	1.121430
#1	.2256028	.0000377	.0054626	24.14728	.0164221	.0320311
#2	.2252916	.0000948	.0053171	24.13895	.0166236	.0326692
#3	.2230446	-.000065	.0055157	23.90019	.0161670	.0320551

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1411975	127.3170	2.484010	5.697731	.0758810	.0051477
Stddev	.0001552	.5577	.020120	.041369	.0003174	.0002004
%RSD	.1099075	.4380562	.8099705	.7260531	.4183170	3.893083
#1	.1410438	127.6683	2.495158	5.727382	.0755927	.0052111
#2	.1413541	127.6087	2.496088	5.715340	.0758290	.0053087
#3	.1411945	126.6739	2.460784	5.650471	.0762212	.0049232

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1202279	.0249103	1.206355	.6121728	F 11.65620	.5040095
Stddev	.1414753	.0004792	.009755	.0317868	.02321	.0035527
%RSD	117.6726	1.923611	.8086755	5.192451	.1991487	.7048842
#1	.1843031	.0252566	1.208539	.5870109	11.68286	.5067974
#2	-.041948	.0251109	1.214832	.6478959	11.64533	.5052218
#3	.218329	.0243634	1.195692	.6016115	11.64042	.5000094

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-18 Acquired: 1/24/2025 21:16:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049397	2.238694	1.662745	.0076848	.1612161	.0008728
Stddev	.0000746	.007146	.015339	.0005189	.0025622	.0013001
%RSD	1.510863	.3192132	.9225315	6.752651	1.589300	148.9604
#1	.0049481	2.246932	1.668912	.0082406	.1602071	-.000625
#2	.0048612	2.234993	1.674040	.0076007	.1641292	.001704
#3	.0050098	2.234157	1.645282	.0072131	.1593121	.001540

Elem	Sr4077
Units	ppm
Avg	.3670284
Stddev	.0032737
%RSD	.8919504
#1	.3687340
#2	.3690971
#3	.3632541

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3539.600	77152.12	11443.10	2600.191	4147.541
Stddev	2.537	123.29	26.16	5.548	2.596
%RSD	.0716631	.1598041	.2286071	.2133701	.0625952
#1	3541.657	77056.61	11472.13	2594.489	4146.482
#2	3540.378	77291.30	11435.83	2600.512	4150.500
#3	3536.766	77108.45	11421.34	2605.571	4145.642

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-19 Acquired: 1/24/2025 21:20:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8151321	-.011441	.1625285	.0995014	.0548645	105.2493
Stddev	.0033907	.001877	.0017771	.0050800	.0025100	.1581
%RSD	.4159718	16.40355	1.093382	5.105428	4.574978	.1502127
#1	.8145058	-.013183	.1614284	.1028341	.0561407	105.0712
#2	.8120983	-.009454	.1615784	.1020154	.0564799	105.3033
#3	.8187924	-.011687	.1645786	.0936546	.0519727	105.3733

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4500974	.0010069	.0151002	104.9667	.3304627	.2692584
Stddev	.0002600	.0001371	.0002258	.1334	.0006415	.0003322
%RSD	.0577564	13.61354	1.495480	.1270975	.1941132	.1233842
#1	.4498551	.0010460	.0150065	104.8174	.3300404	.2691149
#2	.4503720	.0008545	.0149363	105.0742	.3312008	.2690222
#3	.4500650	.0011202	.0153578	105.0086	.3301468	.2696383

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9021349	417.6471	6.627906	104.0553	1.061961	.0136039
Stddev	.0041173	.9568	.012630	.1754	.002224	.0006148
%RSD	.4564005	.2290900	.1905642	.1685406	.2094297	4.519588
#1	.8995217	417.7650	6.613668	103.9229	1.060727	.0135900
#2	.9068811	418.5394	6.637761	104.2542	1.060628	.0142256
#3	.9000018	416.6368	6.632291	103.9887	1.064528	.0129962

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0732248	.2657371	1.159766	6.723338	F 10.86206	1.693541
Stddev	.2363420	.0012355	.002589	.024770	.05560	.004938
%RSD	322.7619	.4649390	.2232549	.3684140	.5118605	.2915579
#1	-.195638	.2647145	1.156801	6.734159	10.81398	1.695852
#2	.167131	.2671099	1.160919	6.740857	10.84926	1.696900
#3	.248181	.2653869	1.161579	6.694999	10.92295	1.687872

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-19 Acquired: 1/24/2025 21:20:26 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0252764**	**9.148635**	**3.960408**	**.0105052**	**2.414374**	**.1429382**
Stddev	.0007440	.034950	.013190	.0004468	.011678	.0009547
%RSD	2.943387	.3820249	.3330414	4.253392	.4836977	.6679294
#1	.0260003	9.130523	3.958217	.0100747	2.415374	.1426204
#2	.0253150	9.126459	3.974556	.0109667	2.425520	.1421829
#3	.0245138	9.188924	3.948451	.0104740	2.402228	.1440113

Elem	Sr4077
Units	ppm
Avg	**.8221859**
Stddev	.0018450
%RSD	.2243976
#1	.8200586
#2	.8231509
#3	.8233483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3554.501**	**73670.38**	**11762.37**	**2504.535**	**3813.740**
Stddev	4.447	115.94	55.11	2.632	5.601
%RSD	.1250956	.1573706	.4685649	.1050955	.1468531
#1	3556.217	73649.82	11736.73	2506.422	3815.928
#2	3557.833	73566.10	11724.74	2505.655	3817.917
#3	3549.452	73795.22	11825.63	2501.528	3807.376

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-20 Acquired: 1/24/2025 21:24:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0897996**	**-.005155**	**.1159071**	**.0974305**	**.0479915**	**176.5846**
Stddev	.0024532	.000702	.0005532	.0014301	.0008973	1.0747
%RSD	2.731821	13.62692	.4772973	1.467799	1.869798	.6085996
#1	.0891173	-.005532	.1152919	.0985682	.0488032	175.7279
#2	.0925217	-.005588	.1163638	.0958251	.0481434	177.7905
#3	.0877598	-.004344	.1160656	.0978982	.0470279	176.2355

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.045543**	**.0012353**	**.0088430**	**45.03715**	**.2469445**	**.1512704**
Stddev	.009907	.0001327	.0000616	.23129	.0010377	.0002161
%RSD	.9475628	10.73871	.6965014	.5135631	.4202112	.1428674
#1	1.037928	.0013150	.0088884	44.82835	.2471019	.1514354
#2	1.056744	.0010822	.0088678	45.28577	.2458371	.1513500
#3	1.041957	.0013087	.0087729	44.99733	.2478945	.1510257

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4595392**	**428.3904**	**4.471345**	**102.7741**	**.3190233**	**.0122080**
Stddev	.0027310	2.0373	.026224	.4382	.0005544	.0009774
%RSD	.5942936	.4755740	.5864853	.4263887	.1737862	8.006673
#1	.4564957	427.0985	4.451045	102.3620	.3186929	.0111504
#2	.4603461	430.7389	4.500953	103.2345	.3196634	.0130781
#3	.4617759	427.3337	4.462037	102.7259	.3187137	.0123955

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6172831**	**.3736569**	**.6926210**	**21.84116**	**5.141666**	**1.752188**
Stddev	.1426264	.0015409	.0042180	.10591	.021953	.012302
%RSD	23.10551	.4123890	.6089957	.4849159	.4269707	.7020819
#1	.7664989	.3722286	.6904581	21.76872	5.119853	1.746143
#2	.6030346	.3752900	.6974818	21.96271	5.163757	1.766343
#3	.4823157	.3734521	.6899231	21.79205	5.141388	1.744078

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-20 Acquired: 1/24/2025 21:24:28 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184363	F 23.05470	6.622314	.0522378	F 15.71910	.1897883
Stddev	.0003379	.04578	.020553	.0015263	.01956	.0003619
%RSD	1.832843	.1985631	.3103667	2.921825	.1244584	.1906865
#1	.0187082	23.00830	6.620579	.0534384	15.70673	.1900289
#2	.0180580	23.09983	6.602683	.0505202	15.70891	.1899639
#3	.0185426	23.05597	6.643680	.0527548	15.74166	.1893721

Elem	Sr4077
Units	ppm
Avg	.1101812
Stddev	.0009155
%RSD	.8309405
#1	.1093871
#2	.1111826
#3	.1099738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.470	71550.47	11570.03	2476.657	3847.735
Stddev	3.938	112.59	75.68	10.436	3.883
%RSD	.1118106	.1573548	.6540798	.4213829	.1009208
#1	3518.117	71529.78	11509.53	2477.036	3846.402
#2	3523.505	71449.66	11654.89	2466.036	3844.693
#3	3525.787	71671.97	11545.68	2486.898	3852.108

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-21 Acquired: 1/24/2025 21:28:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0899800**	**-.004755**	**.0978425**	**.0817913**	**.0391298**	**157.1104**
Stddev	.0021991	.001485	.0023271	.0027852	.0008193	1.1805
%RSD	2.444031	31.23731	2.378372	3.405197	2.093731	.7513877
#1	.0918163	-.004614	.0978541	.0785870	.0398990	157.2109
#2	.0875429	-.003345	.1001637	.0831558	.0392220	158.2375
#3	.0905807	-.006305	.0955096	.0836311	.0382683	155.8829

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9618838**	**.0019488**	**.0085094**	**70.62542**	**.2190795**	**.1723042**
Stddev	.0127808	.0001465	.0001006	.60978	.0004065	.0010624
%RSD	1.328729	7.518918	1.181768	.8633970	.1855581	.6165529
#1	.9577246	.0018142	.0085345	70.45294	.2189742	.1715175
#2	.9762262	.0019274	.0083987	71.30286	.2195283	.1718825
#3	.9517006	.0021049	.0085950	70.12046	.2187360	.1735127

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4062385**	**360.7327**	**5.638840**	**93.23965**	**.5325776**	**.0091713**
Stddev	.0029433	2.4020	.059813	.53940	.0024239	.0011795
%RSD	.7245210	.6658689	1.060734	.5785086	.4551336	12.86042
#1	.4029151	360.9781	5.626215	93.20120	.5307084	.0096731
#2	.4085157	363.0026	5.703958	93.79724	.5317080	.0100169
#3	.4072848	358.2174	5.586347	92.72050	.5353164	.0078239

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.113160**	**.3397754**	**.7234286**	**25.25550**	**5.517041**	**1.473686**
Stddev	.256520	.0012242	.0076769	.18815	.024652	.012535
%RSD	23.04429	.3602849	1.061177	.7449868	.4468398	.8506193
#1	1.018166	.3385358	.7191412	25.33431	5.498060	1.477391
#2	.917686	.3398069	.7322915	25.39142	5.508159	1.483951
#3	1.403627	.3409835	.7188531	25.04075	5.544903	1.459716

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-21 Acquired: 1/24/2025 21:28:30 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0289038	F 51.14467	6.088797	.0529673	F 16.19497	.1780799
Stddev	.0002447	.18869	.052974	.0009466	.12428	.0010682
%RSD	.8464653	.3689302	.8700261	1.787210	.7674214	.5998561
#1	.0291857	50.93905	6.043421	.0518762	16.10060	.1777993
#2	.0287792	51.18506	6.147010	.0534570	16.33578	.1792605
#3	.0287466	51.30989	6.075959	.0535688	16.14852	.1771800

Elem	Sr4077
Units	ppm
Avg	.1418110
Stddev	.0016764
%RSD	1.182109
#1	.1413848
#2	.1436593
#3	.1403888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3452.143	72372.19	11500.78	2487.565	3764.107
Stddev	8.467	149.95	74.52	8.092	5.391
%RSD	.2452719	.2071950	.6479722	.3252902	.1432260
#1	3456.302	72540.50	11572.07	2496.708	3768.351
#2	3457.726	72252.83	11506.87	2484.664	3765.929
#3	3442.400	72323.23	11423.40	2481.324	3758.041

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-22 Acquired: 1/24/2025 21:32:24 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1387620**	**-.031064**	**.1494126**	**.1268407**	**.0614686**	**191.1480**
Stddev	.0040265	.003049	.0022793	.0048838	.0013895	.6254
%RSD	2.901754	9.815117	1.525517	3.850312	2.260509	.3271552
#1	.1383477	-.031345	.1516002	.1323868	.0622376	191.6386
#2	.1349586	-.027884	.1470515	.1231835	.0623037	191.3616
#3	.1429796	-.033962	.1495860	.1249518	.0598646	190.4438

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9139609**	**.0045014**	**.0227804**	**45.51470**	**.2727577**	**.5993687**
Stddev	.0044826	.0000775	.0004999	.16279	.0007458	.0081712
%RSD	.4904530	1.721300	2.194518	.3576736	.2734244	1.363294
#1	.9159219	.0044855	.0232253	45.54721	.2728374	.6084100
#2	.9171287	.0044332	.0222395	45.65880	.2719753	.5925115
#3	.9088320	.0045857	.0228765	45.33811	.2734605	.5971846

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3960515**	**619.4710**	**11.93518**	**112.1002**	**1.475461**	**.0157004**
Stddev	.0027506	4.6713	.04722	.2664	.019094	.0009370
%RSD	.6945097	.7540754	.3956029	.2376883	1.294110	5.967833
#1	.3968511	624.6136	11.94699	112.3718	1.496647	.0167778
#2	.3983138	618.3091	11.97536	112.0895	1.459579	.0152477
#3	.3929897	615.4904	11.88318	111.8393	1.470159	.0150758

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8569139**	**.3646483**	**1.513103**	**15.97288**	F **10.51999**	**2.508584**
Stddev	.1677110	.0018870	.021284	.07614	.12300	.024490
%RSD	19.57151	.5174847	1.406677	.4767135	1.169174	.9762669
#1	.9652140	.3626144	1.526770	15.94814	10.65748	2.535184
#2	.6637304	.3663421	1.523961	16.05832	10.42041	2.503600
#3	.9417973	.3649885	1.488580	15.91219	10.48209	2.486970

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1105-22 Acquired: 1/24/2025 21:32:24 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128276	2.126467	5.077257	.0418713	F 10.93610	.2202446
Stddev	.0001275	.019775	.014941	.0009138	.03744	.0024965
%RSD	.9936614	.9299369	.2942824	2.182311	.3423255	1.133508
#1	.0129481	2.145127	5.067479	.0410652	10.91455	.2217205
#2	.0126942	2.105740	5.094456	.0416847	10.97933	.2216510
#3	.0128403	2.128534	5.069836	.0428640	10.91443	.2173622

Elem	Sr4077
Units	ppm
Avg	.1554399
Stddev	.0005309
%RSD	.3415356
#1	.1554824
#2	.1559483
#3	.1548891

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4088.492	85185.30	13766.49	2931.654	3699.801
Stddev	32.309	186.74	22.17	24.605	41.658
%RSD	.7902445	.2192147	.1610358	.8392991	1.125947
#1	4051.683	84974.81	13792.09	2904.284	3653.770
#2	4112.158	85250.01	13753.89	2951.939	3734.910
#3	4101.636	85331.08	13753.49	2938.741	3710.722

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166155BL Acquired: 1/24/2025 21:36:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS155 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006894**	**-.000861**	**-.000593**	**-.001429**	**.0005699**	**.0059780**
Stddev	.0010558	.000692	.001044	.001843	.0010807	.0016598
%RSD	153.1403	80.42700	176.1032	128.9497	189.6208	27.76546
#1	-.000012	-.000109	-.001683	.000021	.0018163	.0066173
#2	.001904	-.001472	.000397	-.000806	-.000001	.0072232
#3	.000176	-.001000	-.000492	-.003503	-.000106	.0040936

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006907**	**-.000007**	**.0000011**	**.0077599**	**-.000182**	**.0001632**
Stddev	.000512	.000037	.0000695	.0059977	.000272	.0001207
%RSD	7.411742	559.0547	6367.430	77.29120	149.6549	73.94764
#1	-.006851	-.000048	-.000037	.0139685	-.000110	.0000394
#2	-.007444	.000005	.000081	.0073132	.000047	.0001697
#3	-.006425	.000023	-.000041	.0019980	-.000482	.0002804

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015179**	**.0103087**	**-.000501**	**-.027824**	**-.000065**	**.0001035**
Stddev	.0017687	.0057203	.000093	.008955	.000226	.0000800
%RSD	116.5192	55.49022	18.48198	32.18400	347.1871	77.26440
#1	.0000674	.0113276	-.000601	-.019981	-.000267	.0001137
#2	.0009982	.0154511	-.000484	-.037581	-.000107	.0001779
#3	.0034882	.0041474	-.000418	-.025911	.000179	.0000190

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3699618**	**-.000727**	**-.001512**	**.0432474**	**.0032873**	F **-.013080**
Stddev	.0499291	.000956	.001117	.0222858	.0014290	.000347
%RSD	13.49575	131.5657	73.88637	51.53112	43.47080	2.656071
#1	.4187452	-.001012	-.002507	.0453799	.0028479	-.013211
#2	.3721794	-.001507	-.001728	.0199719	.0021296	-.012686
#3	.3189609	.000340	-.000303	.0643903	.0048845	-.013342

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166155BL Acquired: 1/24/2025 21:36:27 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS155 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000531**	**.0087906**	**.0044904**	**.0000218**	**-.000786**	**-.002391**
Stddev	.000200	.0027748	.0024408	.0006863	.000542	.000472
%RSD	37.67657	31.56520	54.35555	3145.530	68.97910	19.72317
#1	-.000547	.0055906	.0072014	-.000503	-.000324	-.002359
#2	-.000324	.0105302	.0038022	-.000230	-.001383	-.002878
#3	-.000723	.0102510	.0024676	.000798	-.000651	-.001936

Elem	Sr4077
Units	ppm
Avg	**-.000048**
Stddev	.000015
%RSD	31.94552
#1	-.000035
#2	-.000065
#3	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3610.559**	**72255.11**	**10904.68**	**2515.215**	**4512.444**
Stddev	5.581	130.03	45.78	5.047	9.732
%RSD	.1545671	.1799631	.4197871	.2006564	.2156667
#1	3616.318	72179.54	10906.56	2509.387	4520.198
#2	3610.184	72405.26	10949.48	2518.184	4515.612
#3	3605.175	72180.53	10857.99	2518.072	4501.523

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166155BS Acquired: 1/24/2025 21:40:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS155 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192688	.0499209	.0182022	.0597985	.1044124	.3704343	.3673141
Stddev	.0005810	.0006879	.0005659	.0010899	.0014563	.0147067	.0042646
%RSD	3.015485	1.377886	3.108867	1.822631	1.394778	3.970112	1.161019
#1	.0186277	.0498805	.0181264	.0590233	.1029686	.3623449	.3652678
#2	.0194177	.0506281	.0188022	.0593275	.1043876	.3615481	.3644583
#3	.0197608	.0492542	.0176781	.0610447	.1058809	.3874098	.3722162

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097911	.0096979	9.583359	.0212011	.0952734	.0500356	.2078984
Stddev	.0002226	.0000421	.100505	.0003394	.0001392	.0021603	.0032905
%RSD	2.273031	.4344250	1.048749	1.600888	.1460988	4.317594	1.582763
#1	.0100072	.0097395	9.505831	.0215117	.0953670	.0525120	.2067489
#2	.0095626	.0096990	9.547335	.0212530	.0953397	.0485369	.2053369
#3	.0098036	.0096553	9.696912	.0208388	.0951134	.0490580	.2116095

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294948	8.586945	.0777339	.0188328	9.512590	.1030403	.1169771
Stddev	.0004192	.073228	.0004880	.0004397	.235386	.0034293	.0013691
%RSD	1.421384	.8527819	.6278278	2.335028	2.474464	3.328092	1.170398
#1	.0290243	8.545342	.0773335	.0185281	9.615490	.1058955	.1171931
#2	.0296313	8.543996	.0775905	.0186334	9.243276	.0992366	.1155128
#3	.0298287	8.671498	.0782775	.0193369	9.679005	.1039889	.1182253

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.029504	.0210413	-.012013	.0186864	.1735559	.4535537	.0133095
Stddev	.061510	.0007721	.000343	.0001994	.0027684	.0097684	.0007795
%RSD	.6812062	3.669320	2.857013	1.067171	1.595131	2.153740	5.856571
#1	8.976206	.0212443	-.012406	.0189033	.1764053	.4625679	.0140812
#2	9.015495	.0216916	-.011860	.0185109	.1733861	.4431747	.0125225
#3	9.096809	.0201880	-.011774	.0186451	.1708763	.4549185	.0133248

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: PB166155BS Acquired: 1/24/2025 21:40:37 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS155 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2011598	.0250366	.1731555
Stddev	.0039028	.0012399	.0021771
%RSD	1.940175	4.952266	1.257305
#1	.2028713	.0236156	.1721979
#2	.1966937	.0255964	.1716214
#3	.2039146	.0258979	.1756473

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.820	70863.41	10907.52	2472.167	4323.186
Stddev	4.958	173.35	179.09	6.684	8.290
%RSD	.1403337	.2446305	1.641892	.2703885	.1917582
#1	3533.855	71024.10	10726.17	2471.208	4322.867
#2	3537.179	70886.43	11084.26	2466.014	4331.631
#3	3527.427	70679.69	10912.12	2479.280	4315.060

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-01 Acquired: 1/24/2025 21:44:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1342901**	**-.017392**	**.1027628**	**.1094912**	**.0518087**	**194.5363**
Stddev	.0020439	.002117	.0011920	.0018571	.0021971	.4832
%RSD	1.522018	12.17423	1.159929	1.696097	4.240850	.2483681
#1	.1341744	-.015543	.1034873	.1074149	.0492840	194.3546
#2	.1363894	-.019702	.1034141	.1109934	.0528550	194.1703
#3	.1323065	-.016930	.1013871	.1100653	.0532872	195.0840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.130342**	**.0015916**	**.0194543**	**50.73334**	**.2749768**	**.3883979**
Stddev	.000978	.0001020	.0001093	.11680	.0012059	.0005786
%RSD	.0864779	6.406658	.5616808	.2302182	.4385386	.1489693
#1	1.129383	.0015099	.0193292	50.64714	.2755439	.3877834
#2	1.131337	.0017059	.0195020	50.68660	.2735920	.3884782
#3	1.130305	.0015591	.0195316	50.86626	.2757947	.3889322

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6559651**	**487.0678**	**6.216421**	**105.8323**	**.5475833**	**.0099942**
Stddev	.0043062	.4634	.006706	.3225	.0005735	.0007590
%RSD	.6564717	.0951469	.1078764	.3046907	.1047307	7.593991
#1	.6513730	486.5637	6.211379	105.7450	.5478016	.0093488
#2	.6599129	487.4753	6.213853	105.5625	.5469327	.0108304
#3	.6566094	487.1645	6.224032	106.1894	.5480155	.0098035

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7569455**	**.4392870**	**.8351671**	**27.25357**	F **10.20783**	**1.979164**
Stddev	.3631328	.0008810	.0047676	.03841	.02970	.003762
%RSD	47.97344	.2005638	.5708567	.1409486	.2909731	.1900579
#1	.4116211	.4391404	.8333072	27.25528	10.18899	1.975474
#2	.7236253	.4402322	.8316098	27.21433	10.19244	1.979024
#3	1.135590	.4384885	.8405843	27.29110	10.24207	1.982993

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-01 Acquired: 1/24/2025 21:44:41 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151771	F 13.96347	1.858079	.0705787	F 21.57088	.2045098
Stddev	.0001546	.03817	.007452	.0013769	.05491	.0004318
%RSD	1.018526	.2733707	.4010756	1.950930	.2545355	.2111142
#1	.0150801	13.92306	1.861785	.0694306	21.58884	.2040978
#2	.0153554	13.96845	1.862952	.0721053	21.61455	.2049589
#3	.0150958	13.99891	1.849500	.0702002	21.50924	.2044728

Elem	Sr4077
Units	ppm
Avg	.1383321
Stddev	.0002366
%RSD	.1710463
#1	.1381385
#2	.1382620
#3	.1385958

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.656	79696.54	12766.40	2737.164	3748.764
Stddev	3.638	240.70	10.29	19.794	6.241
%RSD	.0954414	.3020242	.0805686	.7231397	.1664760
#1	3809.597	79750.54	12757.74	2746.592	3741.590
#2	3809.516	79905.65	12763.69	2750.481	3752.941
#3	3815.857	79433.42	12777.77	2714.419	3751.761

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-02 Acquired: 1/24/2025 21:48:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2156752	-.027003	.1320293	.0903114	.0461384	149.9993	1.457880
Stddev	.0016139	.003432	.0012058	.0028672	.0004809	.4405	.005759
%RSD	.7482772	12.70930	.9132959	3.174761	1.042226	.2936408	.3950460
#1	.2175339	-.027286	.1322579	.0870083	.0466894	150.0573	1.458171
#2	.2148614	-.023439	.1307255	.0917673	.0458036	150.4079	1.463488
#3	.2146303	-.030285	.1331044	.0921585	.0459222	149.5328	1.451980

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041956	.0163729	21.99934	.2945739	.2638775	.3692585	445.2705
Stddev	.0000560	.0006467	.04574	.0001084	.0042040	.0025779	2.1450
%RSD	1.334149	3.949512	.2079239	.0367917	1.593173	.6981274	.4817185
#1	.0042356	.0162435	21.95691	.2944775	.2639212	.3706172	445.7936
#2	.0041316	.0158007	22.04780	.2945530	.2596518	.3708729	447.1056
#3	.0042196	.0170745	21.99330	.2946913	.2680595	.3662855	442.9124

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.11170	64.70951	.6131351	.0079755	.3887159	.5831587	.7701611
Stddev	.03075	.13000	.0086092	.0007848	.1502803	.0026056	.0019020
%RSD	.2178767	.2008923	1.404125	9.839628	38.66071	.4468110	.2469626
#1	14.10521	64.71384	.6125629	.0087392	.3349908	.5828258	.7692707
#2	14.14517	64.83729	.6048263	.0080163	.5584749	.5807356	.7688675
#3	14.08472	64.57741	.6220161	.0071712	.2726821	.5859148	.7723450

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.59785	7.381147	1.785795	.0228350	.6324150	.9144860	.0349469
Stddev	.07835	.110348	.009878	.0002702	.0111136	.0037724	.0012105
%RSD	.4452059	1.495003	.5531489	1.183489	1.757325	.4125166	3.463864
#1	17.63460	7.369167	1.787050	.0226160	.6353417	.9185403	.0338157
#2	17.65107	7.277277	1.794985	.0227519	.6201310	.9138383	.0348013
#3	17.50789	7.496996	1.775349	.0231370	.6417724	.9110793	.0362236

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-02 Acquired: 1/24/2025 21:48:44 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.398038	.1147217	.1195610
Stddev	.010342	.0009009	.0005482
%RSD	.1397952	.7852713	.4585353
#1	7.395594	.1143031	.1197680
#2	7.409383	.1141062	.1199755
#3	7.389137	.1157557	.1189394

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4722.817	95945.89	15184.01	3301.383	3911.105
Stddev	43.694	80.24	34.62	5.624	53.440
%RSD	.9251583	.0836271	.2279935	.1703389	1.366371
#1	4737.674	95869.97	15177.10	3306.160	3920.970
#2	4757.145	96029.84	15221.56	3302.803	3958.926
#3	4673.632	95937.87	15153.37	3295.186	3853.420

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-03 Acquired: 1/24/2025 21:52:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2183859	-.025777	.1346098	.0956154	.0470668	151.5818	1.488375
Stddev	.0013298	.000511	.0026001	.0010052	.0000689	.4364	.008110
%RSD	.6089281	1.981046	1.931597	1.051308	.1464623	.2879046	.5449221
#1	.2190564	-.026353	.1361331	.0962122	.0471374	152.0477	1.494830
#2	.2168543	-.025382	.1360887	.0961791	.0469997	151.5151	1.491024
#3	.2192469	-.025595	.1316076	.0944548	.0470633	151.1825	1.479271

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040136	.0171475	22.06820	.2933108	.2681803	.3790925	449.9558
Stddev	.0000367	.0001186	.14503	.0001792	.0017470	.0007171	1.9631
%RSD	.9145266	.6915838	.6571738	.0610994	.6514203	.1891729	.4362939
#1	.0040086	.0171057	22.22656	.2935111	.2664096	.3799096	452.1682
#2	.0040525	.0170555	22.03617	.2931656	.2682286	.3788005	449.2771
#3	.0039796	.0172814	21.94186	.2932556	.2699026	.3785674	448.4221

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.35699	65.73483	.6249585	.0102805	.3351665	.5894877	.7833856
Stddev	.06620	.24532	.0013589	.0002997	.0818481	.0052115	.0006201
%RSD	.4611176	.3731945	.2174368	2.915244	24.42014	.8840773	.0791582
#1	14.41975	66.00917	.6240167	.0105331	.3652752	.5836382	.7830649
#2	14.36340	65.65876	.6243425	.0103589	.2425286	.5936362	.7841004
#3	14.28781	65.53655	.6265163	.0099493	.3976959	.5911887	.7829916

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.57669	7.526715	1.809101	.0226903	.6335449	.9584816	.0341197
Stddev	.04486	.007972	.011492	.0002044	.0020251	.0037726	.0012957
%RSD	.2551992	.1059184	.6352052	.9006668	.3196448	.3936055	3.797503
#1	17.62762	7.524037	1.821948	.0229207	.6325797	.9558112	.0352830
#2	17.55936	7.520426	1.805554	.0226195	.6321830	.9568362	.0343530
#3	17.54307	7.535681	1.799802	.0225308	.6358721	.9627975	.0327233

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-03 Acquired: 1/24/2025 21:52:47 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.488433**	**.1176183**	**.1214794**
Stddev	.020902	.0022262	.0005519
%RSD	.2791202	1.892773	.4543185
#1	7.485262	.1197486	.1219960
#2	7.510739	.1177993	.1215441
#3	7.469297	.1153071	.1208980

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4668.447**	**96749.64**	**15390.13**	**3322.359**	**3846.917**
Stddev	4.548	49.96	53.40	10.364	6.876
%RSD	.0974108	.0516418	.3469864	.3119533	.1787525
#1	4664.723	96698.12	15450.75	3333.892	3849.303
#2	4673.515	96797.89	15369.60	3319.360	3852.282
#3	4667.101	96752.90	15350.04	3313.825	3839.165

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-02LX5 Acquired: 1/24/2025 21:56:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0579923	-.002715	.0277304	.0237715	.0118528	37.49918	.3513241
Stddev	.0022520	.001021	.0006846	.0014726	.0004468	.17761	.0012557
%RSD	3.883362	37.61774	2.468760	6.194980	3.770019	.4736314	.3574343
#1	.0603235	-.003576	.0269985	.0254690	.0113685	37.35450	.3513728
#2	.0558288	-.001587	.0278376	.0228365	.0119408	37.44566	.3500447
#3	.0578245	-.002981	.0283551	.0230089	.0122492	37.69740	.3525548

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012078	.0024000	5.711072	.0804926	.0543349	.0993582	117.6677
Stddev	.0001210	.0000813	.013763	.0002663	.0002939	.0019514	.5347
%RSD	10.01579	3.386905	.2409881	.3307822	.5409398	1.964020	.4544478
#1	.0013192	.0023156	5.726848	.0807096	.0540899	.0992123	117.3735
#2	.0012251	.0024777	5.701527	.0801955	.0542539	.0974838	117.3447
#3	.0010791	.0024067	5.704840	.0805728	.0546608	.1013784	118.2849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.628346	16.51169	.1302639	.0017726	.3477600	.1585722	.1954058
Stddev	.011863	.07076	.0002690	.0002023	.3453700	.0009748	.0026166
%RSD	.3269579	.4285374	.2065245	11.41227	99.31273	.6147674	1.339062
#1	3.616030	16.43167	.1299623	.0016898	.5415289	.1594263	.1983776
#2	3.629311	16.53740	.1303505	.0020031	-.050986	.1575101	.1943921
#3	3.639697	16.56599	.1304790	.0016248	.552737	.1587801	.1934478

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.210626	1.534367	.4577249	.0059313	.1330334	.3501262	.0073423
Stddev	.080023	.006668	.0033097	.0002147	.0021823	.0099219	.0006708
%RSD	1.900509	.4345643	.7230837	3.620194	1.640425	2.833816	9.135766
#1	4.234311	1.534571	.4554270	.0058446	.1305397	.3614373	.0073810
#2	4.121434	1.527600	.4562293	.0061758	.1345939	.3428929	.0079929
#3	4.276134	1.540931	.4615185	.0057734	.1339666	.3460485	.0066530

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-02LX5 Acquired: 1/24/2025 21:56:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.002160	.0265348	.0301559
Stddev	.011663	.0002464	.0001261
%RSD	.5825022	.9283965	.4183055
#1	2.015266	.0262821	.0301797
#2	1.998292	.0265481	.0300195
#3	1.992923	.0267742	.0302684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.980	76882.16	11445.40	2665.127	4174.794
Stddev	12.045	148.51	101.60	6.749	12.537
%RSD	.3195943	.1931629	.8877105	.2532415	.3002918
#1	3760.430	77013.63	11329.20	2672.615	4169.912
#2	3782.756	76911.78	11489.49	2663.255	4189.038
#3	3763.755	76721.07	11517.51	2659.511	4165.434

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-04 Acquired: 1/24/2025 22:00:50 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2683630	.0623863	.1686612	.2112533	.1655133	155.1034	4.150884
Stddev	.0019741	.0009741	.0016323	.0033619	.0025727	1.5886	.028646
%RSD	.7356202	1.561340	.9677659	1.591393	1.554383	1.024241	.6901180
#1	.2706224	.0631565	.1668507	.2095493	.1626073	156.3909	4.167261
#2	.2669715	.0627110	.1700201	.2151259	.1675005	153.3280	4.117807
#3	.2674951	.0612913	.1691128	.2090846	.1664320	155.5912	4.167585

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0674976	.1078830	22.22253	.5748717	1.183636	.7039864	455.1735
Stddev	.0006906	.0002910	.16663	.0021258	.001084	.0038702	1.7685
%RSD	1.023166	.2697594	.7498161	.3697779	.0915565	.5497546	.3885233
#1	.0669741	.1079240	22.34207	.5761729	1.184670	.7049358	453.6795
#2	.0682804	.1075737	22.03220	.5724186	1.182508	.7072936	454.7149
#3	.0672384	.1081514	22.29333	.5760236	1.183730	.6997299	457.1261

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.09603	66.16811	1.529192	.0621797	.3794434	1.245797	1.417627
Stddev	.09538	.45598	.000477	.0001622	.0634011	.005234	.013251
%RSD	.6317912	.6891229	.0312129	.2609374	16.70896	.4201450	.9347188
#1	15.17400	66.56040	1.529172	.0621056	.3575759	1.241903	1.431526
#2	14.98969	65.66783	1.529679	.0620677	.3298706	1.251747	1.405136
#3	15.12440	66.27610	1.528725	.0623658	.4508838	1.243740	1.416220

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.81710	7.520816	1.837111	.0223156	.6276764	1.189517	.0351690
Stddev	.20032	.006463	.009482	.0001448	.0021706	.013498	.0015468
%RSD	1.124321	.0859353	.5161223	.6486747	.3458111	1.134734	4.398093
#1	17.96160	7.527131	1.833340	.0223068	.6251781	1.184357	.0334968
#2	17.58843	7.521104	1.830095	.0224646	.6290988	1.204833	.0365485
#3	17.90128	7.514214	1.847898	.0221755	.6287524	1.179360	.0354618

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-04 Acquired: 1/24/2025 22:00:50 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.506492**	**.1185476**	**.1222725**
Stddev	.028470	.0015169	.0011046
%RSD	.3792758	1.279568	.9033903
#1	7.494236	.1202657	.1231774
#2	7.539037	.1173933	.1210416
#3	7.486202	.1179839	.1225987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4645.714**	**95148.93**	**15261.98**	**3287.512**	**3834.456**
Stddev	7.762	304.90	146.42	10.425	6.666
%RSD	.1670797	.3204458	.9593877	.3171224	.1738568
#1	4642.444	95105.51	15390.58	3283.793	3827.661
#2	4640.122	95473.21	15102.63	3299.286	3834.720
#3	4654.576	94868.06	15292.74	3279.455	3840.986

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-05 Acquired: 1/24/2025 22:05:01 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1029386**	**-.020427**	**.1433281**	**.0822129**	**.0435848**	**164.3680**
Stddev	.0024175	.001842	.0023178	.0046435	.0016732	.3110
%RSD	2.348472	9.019660	1.617129	5.648185	3.838908	.1891811
#1	.1004944	-.019383	.1406809	.0801083	.0422398	164.1418
#2	.1053285	-.019344	.1449928	.0789942	.0430561	164.7226
#3	.1029929	-.022554	.1443107	.0875360	.0454584	164.2397

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9037831**	**.0022279**	**.0133914**	**43.62650**	**.2152758**	**.2063904**
Stddev	.0027443	.0000826	.0000584	.10400	.0005332	.0010000
%RSD	.3036453	3.705395	.4361675	.2383933	.2476667	.4845347
#1	.9006296	.0021504	.0134117	43.50714	.2154521	.2055712
#2	.9050908	.0023147	.0134369	43.67467	.2156986	.2060952
#3	.9056290	.0022185	.0133255	43.69768	.2146769	.2075048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4299799**	**401.1263**	**5.151308**	**76.74298**	**.3889232**	**.0100361**
Stddev	.0040081	.6311	.007305	.13284	.0008612	.0004439
%RSD	.9321554	.1573253	.1418004	.1730947	.2214349	4.422980
#1	.4328579	401.8541	5.145091	76.61733	.3884780	.0099520
#2	.4254020	400.7322	5.149481	76.88200	.3883757	.0096403
#3	.4316798	400.7925	5.159353	76.72961	.3899159	.0105160

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2353598**	**.4260275**	**.7338926**	**12.20540**	**5.624570**	**1.626255**
Stddev	.2212627	.0026980	.0041146	.04891	.014138	.003864
%RSD	94.01041	.6332920	.5606565	.4007324	.2513681	.2375930
#1	.3693688	.4229890	.7326099	12.16001	5.617675	1.630493
#2	-.020028	.4269512	.7305721	12.25720	5.615203	1.625344
#3	.356739	.4281424	.7384958	12.19901	5.640834	1.622928

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-05 Acquired: 1/24/2025 22:05:01 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234470	.5478757	1.402138	.0435160	F 11.96367	.1085009
Stddev	.0003992	.0081970	.008157	.0007679	.05172	.0011482
%RSD	1.702425	1.496142	.5817651	1.764759	.4323010	1.058200
#1	.0231389	.5517936	1.404298	.0440793	11.93138	.1071917
#2	.0233042	.5533784	1.393118	.0426412	11.93630	.1089744
#3	.0238980	.5384549	1.408998	.0438274	12.02332	.1093366

Elem	Sr4077
Units	ppm
Avg	.1931434
Stddev	.0001021
%RSD	.0528838
#1	.1932033
#2	.1930255
#3	.1932015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4225.192	87860.86	14157.22	3044.384	3789.791
Stddev	.792	83.75	36.51	10.474	4.987
%RSD	.0187528	.0953178	.2578916	.3440496	.1315894
#1	4225.514	87793.89	14154.80	3053.933	3792.039
#2	4225.772	87833.93	14194.88	3046.036	3793.259
#3	4224.289	87954.76	14121.98	3033.181	3784.076

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-06 Acquired: 1/24/2025 22:09:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0913254**	**-.021874**	**.1392116**	**.0847192**	**.0402758**	**165.3008**
Stddev	.0013420	.002244	.0001933	.0012819	.0012948	.3895
%RSD	1.469430	10.25739	.1388716	1.513101	3.214873	.2356404
#1	.0926846	-.022635	.1390165	.0836573	.0415666	165.7448
#2	.0900014	-.023638	.1394031	.0861432	.0389770	165.0165
#3	.0912900	-.019349	.1392152	.0843571	.0402836	165.1411

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9316404**	**.0021698**	**.0131547**	**44.54015**	**.2133125**	**.2012770**
Stddev	.0037270	.0001712	.0000895	.10183	.0006546	.0004384
%RSD	.4000415	7.889917	.6801923	.2286226	.3068718	.2178250
#1	.9358406	.0019721	.0131901	44.65637	.2136925	.2010106
#2	.9303519	.0022694	.0132209	44.46660	.2125567	.2010374
#3	.9287286	.0022679	.0130529	44.49747	.2136884	.2017830

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4430534**	**396.0941**	**4.984028**	**77.15120**	**.3809834**	**.0092184**
Stddev	.0015616	1.5969	.010306	.27582	.0008983	.0005117
%RSD	.3524689	.4031642	.2067862	.3575109	.2357735	5.551052
#1	.4443065	397.3883	4.995901	77.36953	.3804514	.0098067
#2	.4435498	394.3095	4.977383	76.84121	.3804783	.0088765
#3	.4413039	396.5845	4.978801	77.24285	.3820205	.0089719

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5430869**	**.4284077**	**.7424305**	**12.69370**	**5.453115**	**1.603361**
Stddev	.1343494	.0029670	.0045797	.03429	.007057	.009504
%RSD	24.73810	.6925655	.6168542	.2701467	.1294137	.5927680
#1	.6600253	.4252252	.7451964	12.72500	5.448976	1.611656
#2	.5729002	.4310975	.7449509	12.65705	5.461264	1.592991
#3	.3963351	.4289005	.7371442	12.69906	5.449106	1.605435

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-06 Acquired: 1/24/2025 22:09:04 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223019	.5157557	2.436211	.0464237	F 12.87382	.1076758
Stddev	.0001539	.0026750	.009688	.0015015	.02111	.0005473
%RSD	.6899152	.5186538	.3976597	3.234264	.1639479	.5082875
#1	.0222656	.5128440	2.447350	.0454736	12.88656	.1073510
#2	.0224707	.5163186	2.431534	.0456429	12.88545	.1083077
#3	.0221695	.5181044	2.429749	.0481547	12.84946	.1073688

Elem	Sr4077
Units	ppm
Avg	.1966442
Stddev	.0008957
%RSD	.4555179
#1	.1976356
#2	.1964037
#3	.1958932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4312.534	87815.07	14060.08	3026.555	3888.209
Stddev	4.729	396.54	49.06	13.243	1.593
%RSD	.1096554	.4515649	.3488967	.4375523	.0409773
#1	4309.704	87721.43	14092.48	3011.330	3886.437
#2	4317.993	88250.05	14084.12	3032.931	3889.522
#3	4309.905	87473.73	14003.64	3035.404	3888.670

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-07 Acquired: 1/24/2025 22:13:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1372119	-.013449	.1329355	.0779832	.0398247	157.3677	.7059755
Stddev	.0025367	.001034	.0023299	.0018413	.0037294	.0819	.0036062
%RSD	1.848784	7.692048	1.752652	2.361186	9.364636	.0520235	.5108126
#1	.1401101	-.014196	.1340653	.0796238	.0398536	157.2906	.7035366
#2	.1361308	-.012268	.1302561	.0759917	.0435396	157.4536	.7042720
#3	.1353949	-.013882	.1344850	.0783340	.0360809	157.3588	.7101179

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024941	.0150676	107.3130	.5532701	.1785503	.5601987	367.5110
Stddev	.0001100	.0000906	.1599	.0014856	.0003749	.0019750	2.9973
%RSD	4.410427	.6014415	.1489860	.2685206	.2099996	.3525619	.8155728
#1	.0026060	.0151688	107.1748	.5542054	.1782271	.5586643	364.9686
#2	.0024903	.0150397	107.2760	.5515571	.1784625	.5595047	366.7484
#3	.0023861	.0149941	107.4881	.5540479	.1789614	.5624271	370.8159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.668433	79.27347	.8482859	.0128765	.2317764	.3914543	.8655968
Stddev	.018913	.03135	.0012813	.0010304	.2147867	.0025527	.0049017
%RSD	.3336583	.0395426	.1510479	8.001794	92.66978	.6521064	.5662835
#1	5.663161	79.23766	.8468560	.0120088	.4463064	.3926862	.8682635
#2	5.652716	79.28681	.8486715	.0126055	.2322890	.3885192	.8599398
#3	5.689423	79.29594	.8493301	.0140153	.0167339	.3931574	.8685871

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.420310	6.379939	1.484438	.0095734	1.021975	1.146719	.0237985
Stddev	.010306	.016565	.014226	.0004951	.008003	.007934	.0006151
%RSD	.3013159	.2596367	.9583152	5.171899	.7830701	.6919205	2.584621
#1	3.416889	6.365936	1.472765	.0090936	1.031102	1.137774	.0236867
#2	3.412149	6.375657	1.480267	.0095439	1.018668	1.149474	.0244619
#3	3.431891	6.398224	1.500283	.0100826	1.016156	1.152908	.0232470

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-07 Acquired: 1/24/2025 22:13:07 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.005775	.1778053	.2622004
Stddev	.017859	.0011694	.0009380
%RSD	.2973719	.6576769	.3577262
#1	5.993875	.1791120	.2615114
#2	5.997138	.1774467	.2618212
#3	6.026311	.1768572	.2632686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4029.236	83413.34	13351.21	2862.155	3834.503
Stddev	3.846	166.36	42.82	13.544	7.289
%RSD	.0954556	.1994436	.3206909	.4732263	.1900870
#1	4030.702	83313.48	13342.02	2848.651	3837.929
#2	4032.134	83605.39	13397.87	2875.740	3839.449
#3	4024.873	83321.15	13313.73	2862.073	3826.133

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-08 Acquired: 1/24/2025 22:17:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1645428**	**-.023637**	**.1984229**	**.1015390**	**.0502951**	**171.3699**
Stddev	.0022733	.002043	.0019633	.0012254	.0007963	.1283
%RSD	1.381576	8.644211	.9894481	1.206781	1.583318	.0748425
#1	.1670153	-.023570	.1964954	.1027420	.0500106	171.5179
#2	.1625431	-.025712	.2004202	.1002925	.0511946	171.2899
#3	.1640700	-.021628	.1983532	.1015825	.0496800	171.3020

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.939188**	**.0033074**	**.0160544**	**43.74188**	**.3296680**	**.2649988**
Stddev	.010123	.0000451	.0000084	.05268	.0014996	.0009923
%RSD	.5220412	1.363684	.0522768	.1204421	.4548814	.3744494
#1	1.934456	.0032720	.0160455	43.72671	.3294467	.2650887
#2	1.950811	.0033582	.0160557	43.80048	.3282914	.2639647
#3	1.932297	.0032920	.0160621	43.69844	.3312660	.2659431

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5305556**	**467.9987**	**11.04267**	**67.51757**	**.4486697**	**.0123017**
Stddev	.0044207	4.3304	.01854	.17616	.0010189	.0005920
%RSD	.8332126	.9253106	.1678526	.2609117	.2270944	4.812115
#1	.5279313	467.5607	11.02970	67.50491	.4491624	.0119617
#2	.5356595	463.9039	11.06390	67.34808	.4474981	.0119580
#3	.5280761	472.5315	11.03441	67.69972	.4493487	.0129852

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5260635**	**.7319996**	**.8884053**	**31.80530**	F **19.78302**	**1.896588**
Stddev	.1086321	.0016636	.0038438	.01757	.05111	.019196
%RSD	20.65000	.2272665	.4326616	.0552450	.2583707	1.012146
#1	.5310407	.7331519	.8847260	31.78774	19.72403	1.893510
#2	.4150283	.7327544	.8923948	31.82289	19.81430	1.879117
#3	.6321214	.7300924	.8880952	31.80525	19.81073	1.917137

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: Q1135-08 Acquired: 1/24/2025 22:17:10 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8J0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0132502**	**1.295423**	**1.175262**	**.0352282**	**7.338619**	**.1168299**
Stddev	.0001942	.005503	.006502	.0007511	.021232	.0012042
%RSD	1.465838	.4247713	.5532075	2.132118	.2893160	1.030764
#1	.0131404	1.297270	1.177931	.0348469	7.332177	.1171171
#2	.0131359	1.299765	1.180005	.0347441	7.362325	.1178646
#3	.0134745	1.289235	1.167851	.0360934	7.321353	.1155080

Elem	Sr4077
Units	ppm
Avg	**.3132208**
Stddev	.0014530
%RSD	.4638862
#1	.3126370
#2	.3148749
#3	.3121506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4417.461**	**92065.62**	**14696.10**	**3151.111**	**3807.987**
Stddev	7.741	291.91	41.00	12.184	5.969
%RSD	.1752310	.3170682	.2789923	.3866701	.1567554
#1	4421.866	92151.92	14716.20	3164.925	3814.139
#2	4421.993	92304.64	14723.17	3146.513	3807.603
#3	4408.523	91740.29	14648.93	3141.894	3802.219

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV019 Acquired: 1/24/2025 22:21:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV019 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.600548**	**4.572203**	**23.16124**	**4.645098**	**4.746009**	**401.1992**
Stddev	.017417	.051308	.01401	.018841	.017522	.7999
%RSD	.3785798	1.122169	.0604715	.4056097	.3691941	.1993655
#1	4.591883	4.555417	23.16379	4.635136	4.734733	401.0568
#2	4.589163	4.531392	23.14613	4.633330	4.737099	400.4801
#3	4.620597	4.629802	23.17380	4.666829	4.766196	402.0607

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.20909**	**.4639310**	**2.318138**	**393.4840**	**14.74233**	**2.361049**
Stddev	.03310	.0026516	.004056	4.0687	.02980	.003220
%RSD	.3242671	.5715508	.1749644	1.034013	.2021057	.1363855
#1	10.24540	.4661631	2.317829	389.4382	14.73946	2.360130
#2	10.18058	.4646300	2.314246	393.4387	14.71408	2.358388
#3	10.20128	.4609999	2.322340	397.5752	14.77346	2.364629

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.53816**	**402.4726**	**14.98459**	**391.2887**	**2.350998**	**1.244930**
Stddev	.02893	1.8775	.09172	1.9789	.002552	.000906
%RSD	.1990259	.4664873	.6120671	.5057309	.1085626	.0727482
#1	14.56657	401.1968	14.92845	389.8401	2.348813	1.244852
#2	14.53917	401.5925	14.93489	390.4827	2.350378	1.244066
#3	14.50873	404.6285	15.09043	393.5434	2.353803	1.245872

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**375.1373**	**2.364608**	**15.23699**	**148.9562**	**4.700528**	F **5.687841**
Stddev	.9682	.005975	.03536	.6403	.022465	.015542
%RSD	.2581002	.2526644	.2320583	.4298413	.4779322	.2732559
#1	376.2298	2.365231	15.25167	148.5875	4.689660	5.693760
#2	374.3852	2.370246	15.19666	148.5856	4.685562	5.699555
#3	374.7970	2.358346	15.26264	149.6956	4.726360	5.670209

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCV019 Acquired: 1/24/2025 22:21:12 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV019 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.646976**	**4.686700**	**4.804648**	**4.677577**	**4.808884**	**4.940489**
Stddev	.014103	.018252	.007304	.010285	.016424	.027257
%RSD	.3034935	.3894476	.1520200	.2198748	.3415414	.5516983
#1	4.637474	4.670861	4.805398	4.677417	4.825401	4.937328
#2	4.640274	4.682578	4.796998	4.667374	4.808696	4.914951
#3	4.663181	4.706660	4.811548	4.687942	4.792554	4.969189

Elem	Sr4077
Units	ppm
Avg	**5.059916**
Stddev	.079270
%RSD	1.566633
#1	5.119089
#2	4.969850
#3	5.090808

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2834.709**	**60324.01**	**10177.27**	**2045.289**	**3312.142**
Stddev	8.080	199.26	39.36	5.619	5.360
%RSD	.2850286	.3303214	.3867872	.2747261	.1618435
#1	2841.138	60438.40	10149.51	2041.947	3314.689
#2	2837.349	60439.71	10159.97	2051.776	3315.755
#3	2825.639	60093.92	10222.32	2042.144	3305.983

Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB019 Acquired: 1/24/2025 22:29:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB019 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004817**	**-.000257**	**.0009734**	**.0003747**	**-.000058**	**.0193802**	**-.006596**
Stddev	.0020502	.000427	.0009151	.0015792	.000490	.0085013	.000505
%RSD	425.6171	166.3878	94.01291	421.4104	848.2473	43.86571	7.651025
#1	.0011636	-.000586	.0013134	-.001448	.000425	.0147418	-.006608
#2	-.001823	.000226	-.000063	.001326	-.000554	.0142071	-.007094
#3	.002104	-.000411	.001670	.001246	-.000044	.0291918	-.006085

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000031**	**.0001185**	**.0185435**	**.0013249**	**.0000325**	**-.004109**	**.0260433**
Stddev	.000111	.0000190	.0068317	.0001500	.0002556	.002149	.0098406
%RSD	352.9709	16.01488	36.84165	11.31950	786.4591	52.29206	37.78562
#1	.000092	.0000976	.0180448	.0014928	.0001992	-.006183	.0219739
#2	-.000124	.0001346	.0119748	.0012778	.0001601	-.004252	.0188901
#3	-.000062	.0001232	.0256109	.0012042	-.000262	-.001893	.0372659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002924**	**.0055981**	**.0005717**	**.0003097**	**-.032072**	**.0008702**	**-.000643**
Stddev	.0003161	.0145688	.0002385	.0003387	.149984	.0010459	.001587
%RSD	108.0916	260.2445	41.72205	109.3879	467.6453	120.1989	246.6361
#1	.0003592	-.001501	.0007186	.0000911	-.132276	-.000243	.000500
#2	-.000052	-.004061	.0002965	.0006999	-.104301	.001833	-.002455
#3	.000570	.022356	.0007001	.0001380	.140360	.001021	.000025

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0696166**	**.0029686**	**-.006781**	**.0002940**	**.0071569**	**.0011689**	**.0008423**
Stddev	.0580256	.0003774	.000973	.0000330	.0029664	.0027089	.0003010
%RSD	83.35019	12.71411	14.35298	11.22795	41.44760	231.7440	35.73286
#1	.0665831	.0034042	-.005737	.0002621	.0104577	.0025613	.0009498
#2	.0131673	.0027395	-.007663	.0002918	.0062992	.0028985	.0010747
#3	.1290994	.0027621	-.006945	.0003280	.0047139	-.001953	.0005023

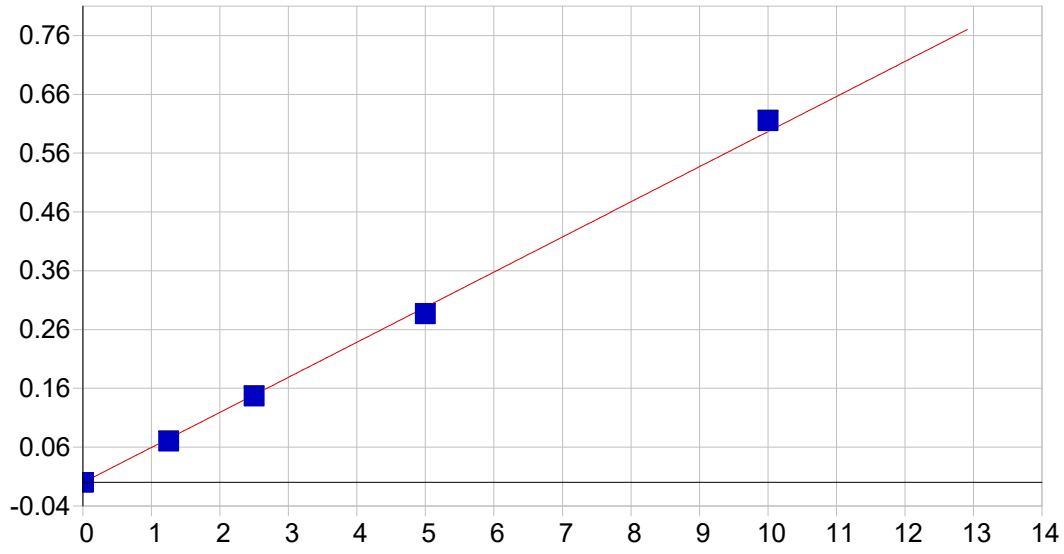
Reviewed By:Mohan
On:1/27/2025 6:21:46 AM
Inst Id :P4

Sample Name: CCB019 Acquired: 1/24/2025 22:29:49 Type: Unk
Method: EPA SFAM01.0(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB019 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000426	-.002252	.0002303
Stddev	.000952	.000282	.0001376
%RSD	223.2227	12.52700	59.76651
#1	-.001375	-.002187	.0001255
#2	.000528	-.002008	.0001792
#3	-.000432	-.002561	.0003861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3523.321	72186.22	10837.58	2524.898	4341.896
Stddev	3.050	283.43	22.72	5.620	5.711
%RSD	.0865709	.3926350	.2096616	.2225778	.1315434
#1	3520.954	71889.88	10841.39	2519.628	4347.458
#2	3526.763	72214.13	10813.20	2524.256	4342.184
#3	3522.247	72454.67	10858.16	2530.812	4336.046

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



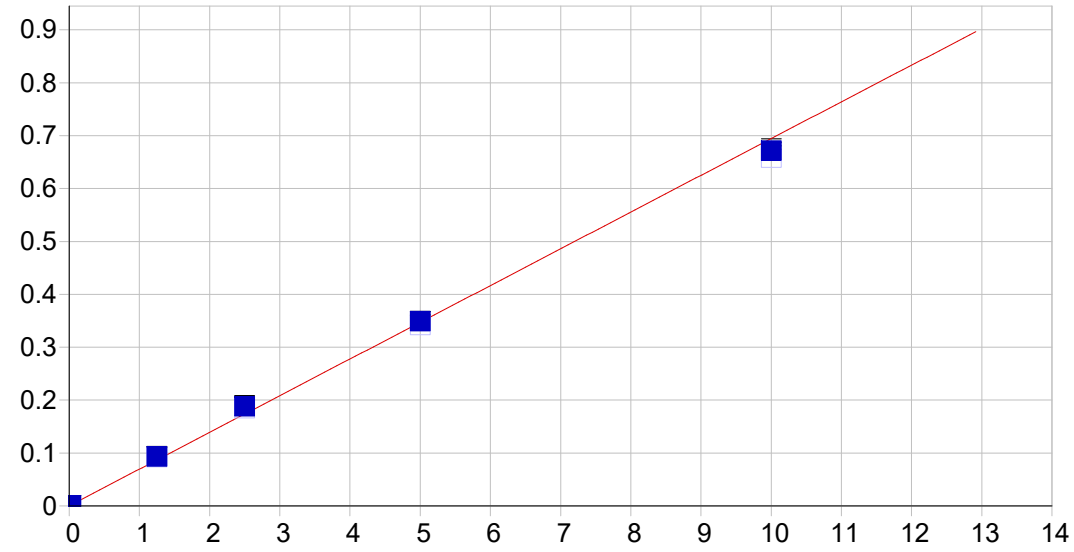
As 189.042 {479}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000095	Re-Slope:	1.000000
A1 (Gain):	0.059662	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999390	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.002457		
Predicted MQL:	0.008189		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.01000	.01029	.000	2.88	.00052	.000	1
S3	2.5000	2.4575	-.042	-1.70	.14626	.001	1
S4	5.0000	4.8008	-.199	-3.98	.28580	.001	1
S5	10.000	10.314	.314	3.14	.61422	.001	1
S2	1.2500	1.1769	-.073	-5.85	.06999	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



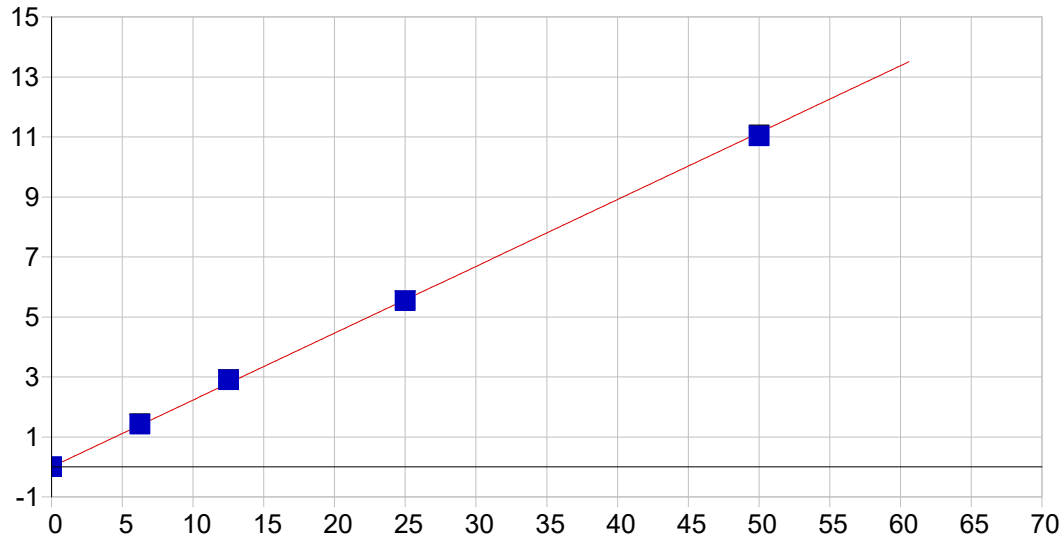
Tl 190.856 {477}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000071	Re-Slope:	1.000000
A1 (Gain):	0.069429	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999038	Status:	OK.
Std Error of Est:	0.000079		
Predicted MDL:	0.001848		
Predicted MQL:	0.006160		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00007	.000	1
S1	.02500	.02747	.002	9.87	.00190	.000	1
S3	2.5000	2.7049	.205	8.19	.18451	.002	1
S4	5.0000	5.0228	.023	.457	.34209	.000	1
S5	10.000	9.6755	-.325	-3.25	.65840	.003	1
S2	1.2500	1.3445	.094	7.56	.09174	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



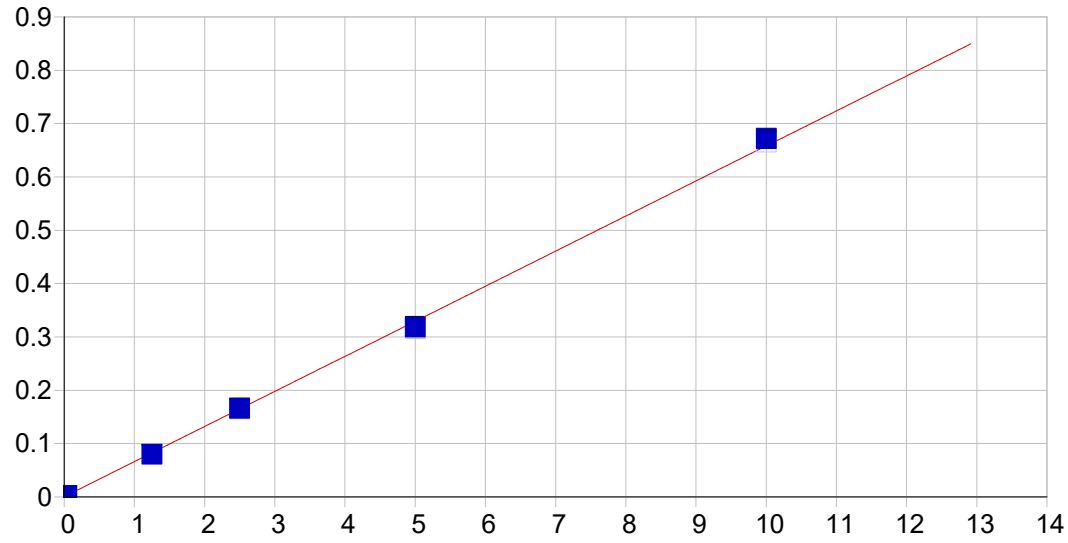
Pb 220.353 {453}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000310	Re-Slope:	1.000000
A1 (Gain):	0.222865	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.001400		
Predicted MQL:	0.004666		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00031	.000	1
S1	.01000	.01088	.001	8.83	.00210	.000	1
S3	12.500	13.016	.516	4.13	2.8982	.013	1
S4	25.000	24.860	-.140	-.561	5.5354	.014	1
S5	50.000	49.483	-.517	-1.03	11.018	.036	1
S2	6.2500	6.3902	.140	2.24	1.4227	.004	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



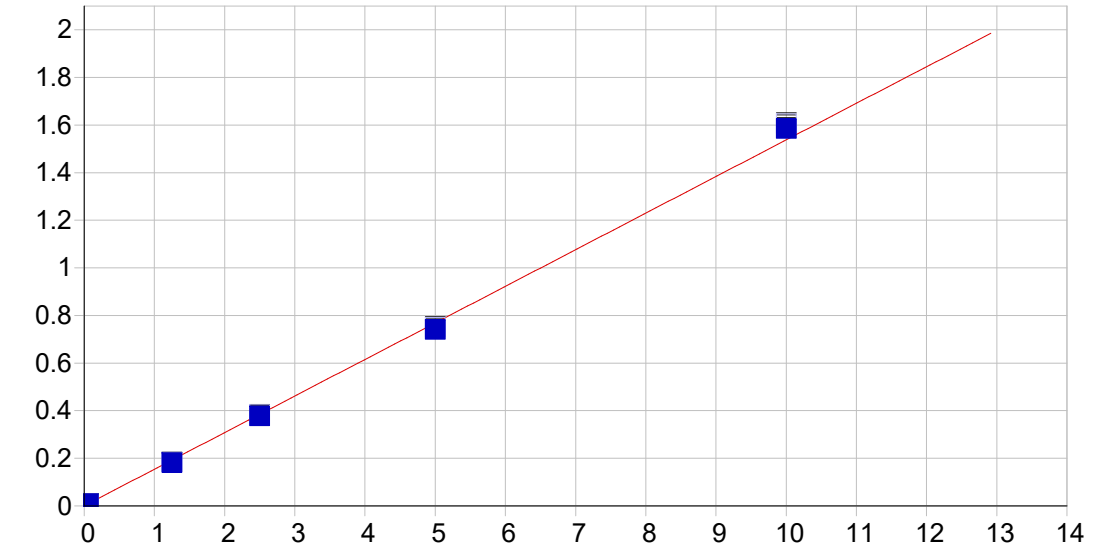
Se 196.090 {472}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000360	Re-Slope:	1.000000
A1 (Gain):	0.065763	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.002760		
Predicted MQL:	0.009200		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00036	.000	1
S1	.03500	.03109	-.004	-11.2	.00240	.000	1
S3	2.5000	2.5131	.013	.524	.16411	.001	1
S4	5.0000	4.8339	-.166	-3.32	.31522	.001	1
S5	10.000	10.200	.200	2.00	.66505	.002	1
S2	1.2500	1.2075	-.043	-3.40	.07901	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



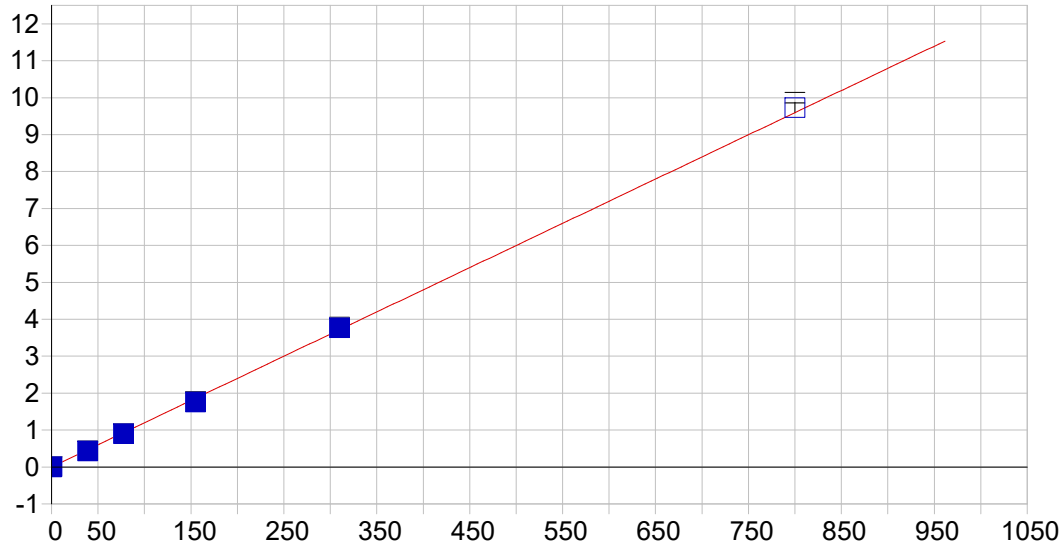
Sb 206.833 {463}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000341	Re-Slope:	1.000000
A1 (Gain):	0.153719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999434	Status:	OK.
Std Error of Est:	0.000216		
Predicted MDL:	0.001476		
Predicted MQL:	0.004920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00034	.000	1
S1	.06000	.05582	-.004	-6.96	.00890	.000	1
S3	2.5000	2.4541	-.046	-1.83	.38272	.001	1
S4	5.0000	4.8153	-.185	-3.69	.75080	.002	1
S5	10.000	10.309	.309	3.09	1.6055	.004	1
S2	1.2500	1.1759	-.074	-5.93	.18366	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



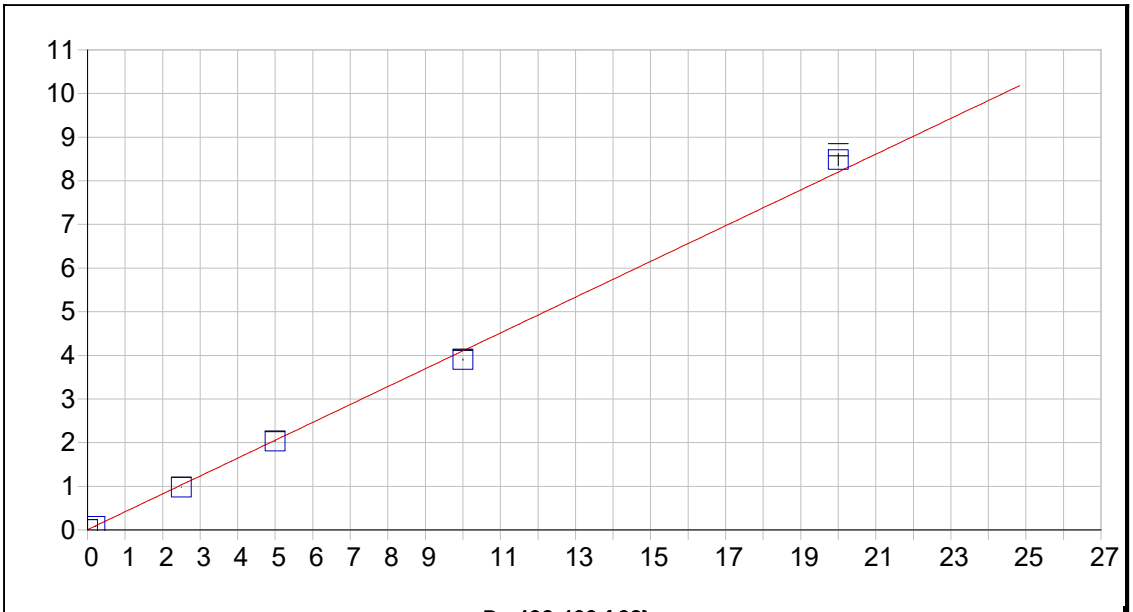
Al 396.152 { 85}

Date of Fit: 1/27/2025 1:59:51 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.000040	Re-Slope:	1.000000
A1 (Gain):	0.011994	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999605	Status:	OK.
Std Error of Est:	0.000210		
Predicted MDL:	0.008158		
Predicted MQL:	0.027193		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	-.00004	.000	1
S1	.20000	.17715	-.023	-11.4	.00209	.000	1
S3	77.500	74.572	-2.93	-3.78	.89546	.002	1
S4	155.00	146.15	-8.85	-5.71	1.7551	.012	1
S5	310.00	313.76	3.76	1.21	3.7675	.018	1
S2	38.750	35.516	-3.23	-8.35	.42648	.002	1
S6	800.00	811.28	11.3	1.41	9.7303	.144	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



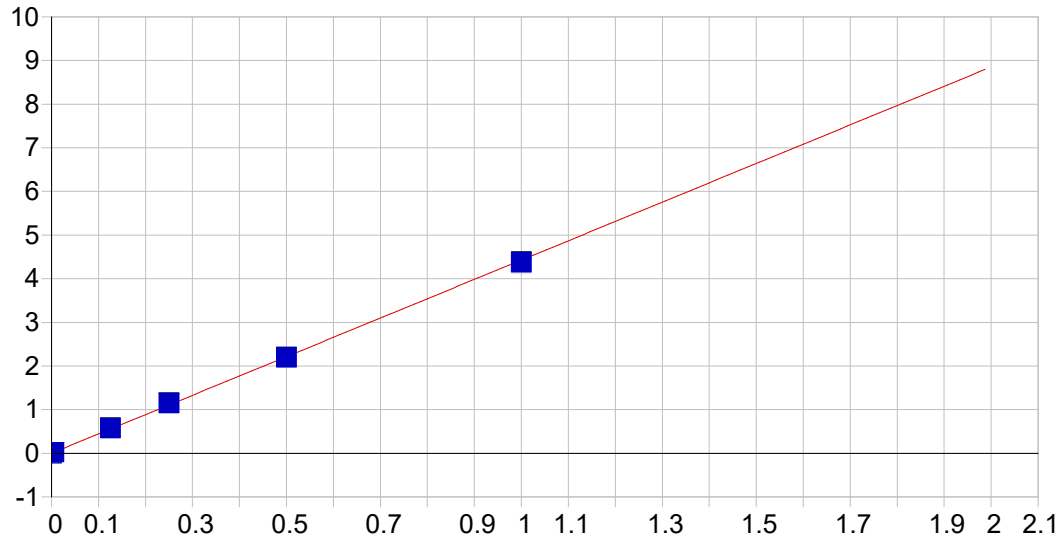
Ba 493.409 { 68}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006465	Re-Slope:	1.000000
A1 (Gain):	0.409719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999252	Status:	OK.
Std Error of Est:	0.001685		
Predicted MDL:	0.000826		
Predicted MQL:	0.002752		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00648	.000	1
S1	.20000	.18702	-.013	-6.49	.08309	.000	1
S3	5.0000	4.9434	-.057	-1.13	2.0319	.008	1
S4	10.000	9.5043	-.496	-4.96	3.9006	.015	1
S5	20.000	20.692	.692	3.46	8.4844	.137	1
S2	2.5000	2.3732	-.127	-5.07	.97881	.006	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



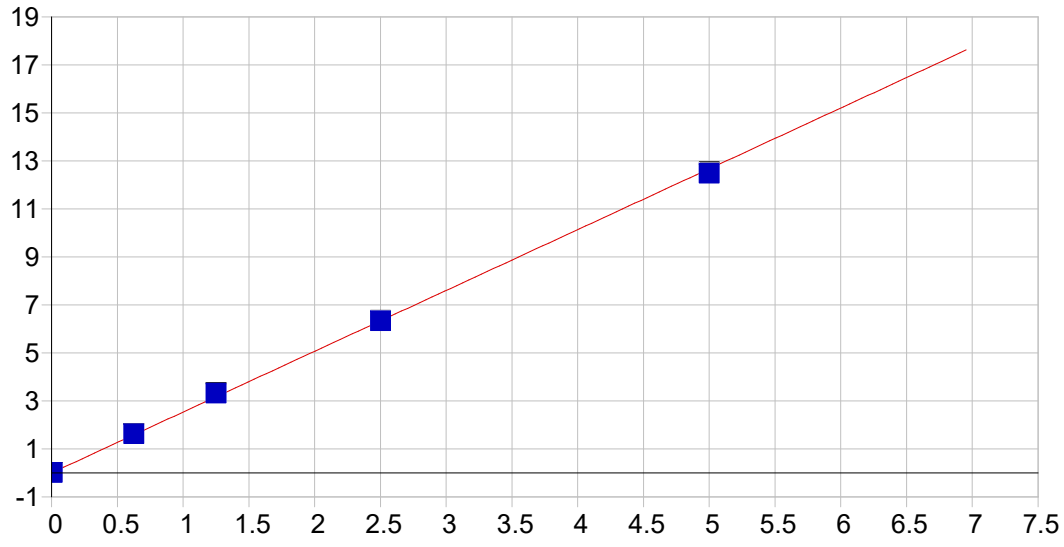
Be 234.861 {144}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000041	Re-Slope:	1.000000
A1 (Gain):	4.426662	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000334		
Predicted MDL:	0.000074		
Predicted MQL:	0.000247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.00500	.00531	.000	6.13	.02350	.000	1
S3	.25000	.25983	.010	3.93	1.1452	.003	1
S4	.50000	.49669	-.003	-.662	2.1888	.005	1
S5	1.0000	.98825	-.012	-1.18	4.3548	.017	1
S2	.12500	.12993	.005	3.94	.57269	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



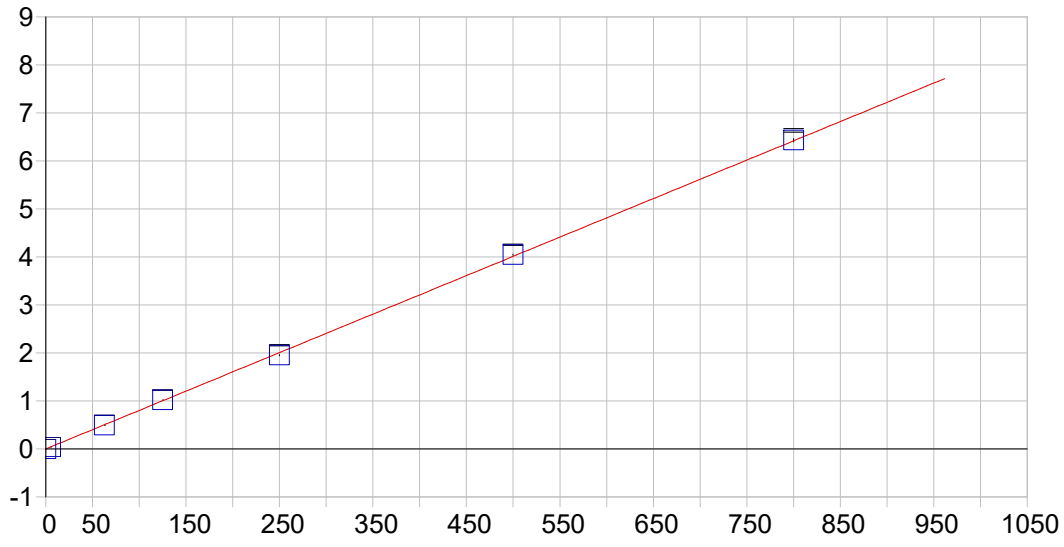
Cd 214.438 {457}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	2.534050	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999759	Status:	OK.
Std Error of Est:	0.000467		
Predicted MDL:	0.000077		
Predicted MQL:	0.000258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.00500	.00511	.000	2.14	.01292	.000	1
S3	1.2500	1.3100	.060	4.80	3.3259	.021	1
S4	2.5000	2.4996	-.000	-.016	6.3466	.016	1
S5	5.0000	4.9232	-.077	-1.54	12.501	.041	1
S2	.62500	.64206	.017	2.73	1.6301	.004	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



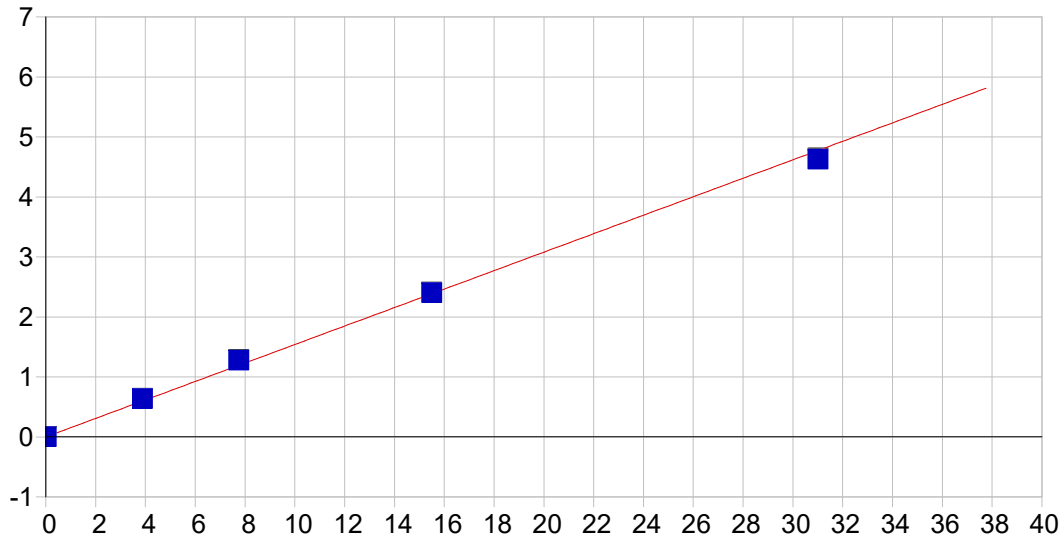
Ca 373.690 { 90}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.008023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000355		
Predicted MDL:	0.009472		
Predicted MQL:	0.031572		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00014	.000	.000	.00002	.000	1
S2	62.500	61.418	-1.08	-1.73	.49276	.001	1
S3	125.00	127.08	2.08	1.66	1.0196	.002	1
S4	250.00	243.18	-6.82	-2.73	1.9510	.013	1
S5	500.00	504.32	4.32	.864	4.0461	.014	1
S1	5.0000	4.9509	-.049	-.982	.03973	.000	1
S6	800.00	801.55	1.55	.194	6.4307	.037	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



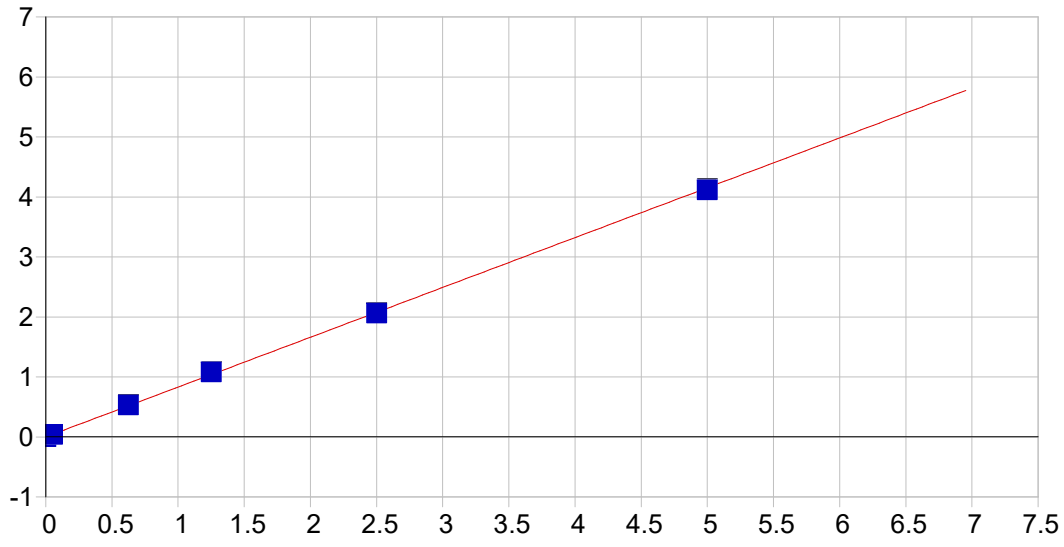
Cr 267.716 {126}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.153956	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999231	Status:	OK.
Std Error of Est:	0.000178		
Predicted MDL:	0.000420		
Predicted MQL:	0.001401		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01000	.01133	.001	13.3	.00174	.000	1
S3	7.7500	8.3114	.561	7.24	1.2799	.003	1
S4	15.500	15.589	.089	.575	2.4006	.010	1
S5	31.000	30.068	-.932	-3.01	4.6304	.015	1
S2	3.8750	4.1548	.280	7.22	.63980	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



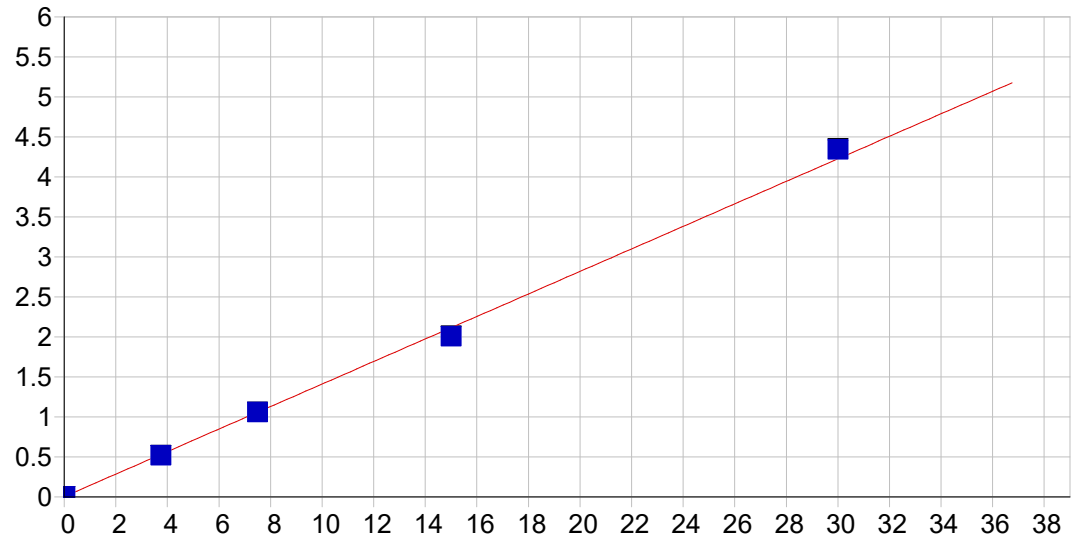
Co 228.616 {448}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.830442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.000377		
Predicted MDL:	0.000260		
Predicted MQL:	0.000866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00000	.000	1
S1	.05000	.04980	-.000	-.394	.04151	.000	1
S3	1.2500	1.2993	.049	3.95	1.0830	.005	1
S4	2.5000	2.4817	-.018	-.733	2.0688	.005	1
S5	5.0000	4.9559	-.044	-.882	4.1314	.012	1
S2	.62500	.63828	.013	2.12	.53202	.002	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



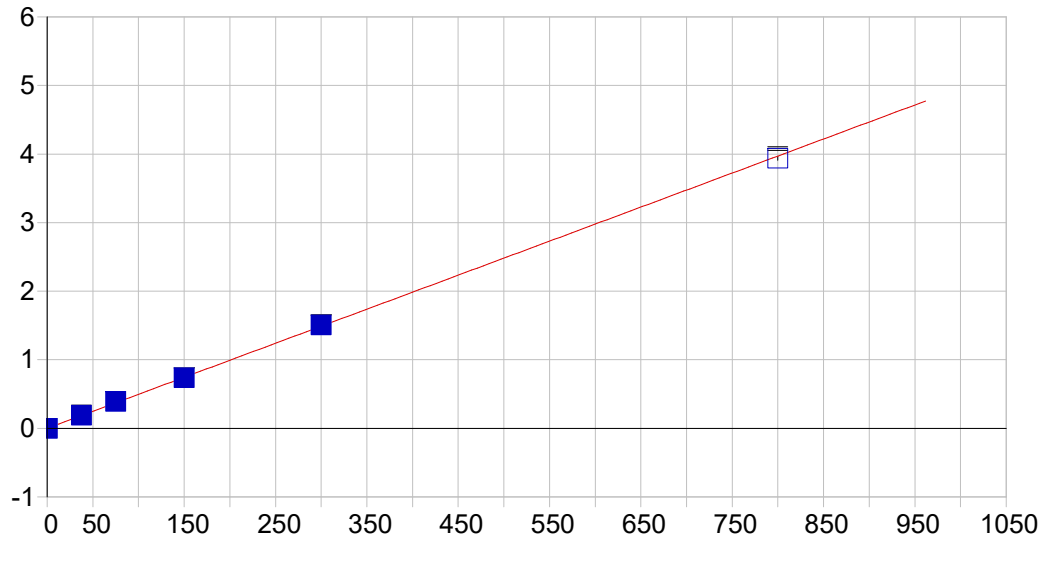
Cu 324.754 {104}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003692	Re-Slope:	1.000000
A1 (Gain):	0.140741	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999418	Status:	OK.
Std Error of Est:	0.000220		
Predicted MDL:	0.002482		
Predicted MQL:	0.008273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00369	.000	1
S1	.02500	.02924	.004	17.0	.00781	.000	1
S3	7.5000	7.4981	-.002	-.025	1.0589	.002	1
S4	15.000	14.239	-.761	-5.07	2.0075	.005	1
S5	30.000	30.849	.849	2.83	4.3450	.011	1
S2	3.7500	3.6594	-.091	-2.42	.51866	.003	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



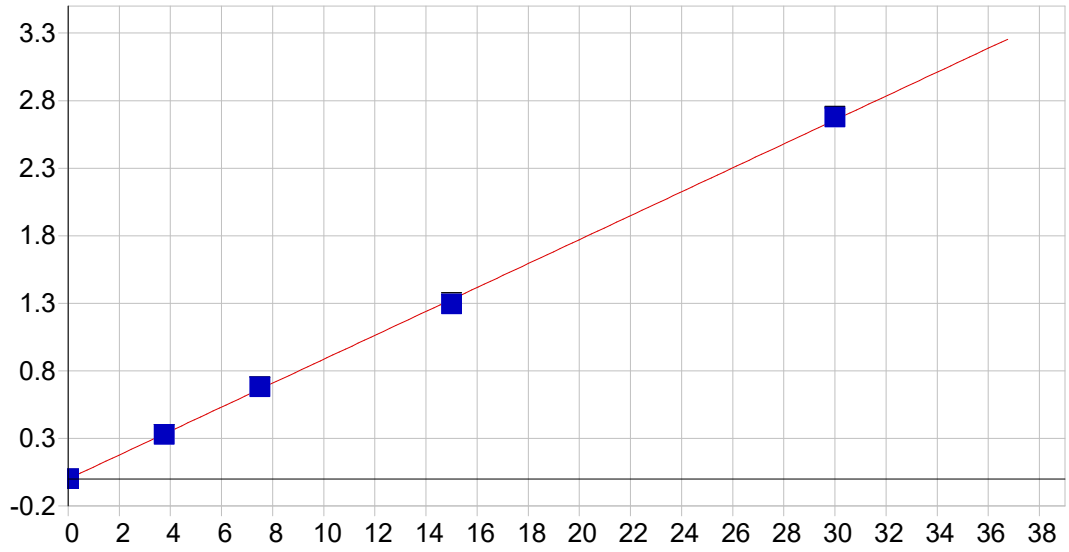
Fe 259.837 {130}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.004964	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.006491		
Predicted MQL:	0.021637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00000	.000	1
S1	.10000	.10574	.006	5.74	.00051	.000	1
S3	75.000	78.612	3.61	4.82	.38984	.001	1
S4	150.00	148.70	-1.30	-.866	.73738	.004	1
S5	300.00	303.79	3.79	1.26	1.5065	.009	1
S2	37.500	38.315	.815	2.17	.19000	.001	1
S6	800.00	793.08	-6.92	-.865	3.9368	.026	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



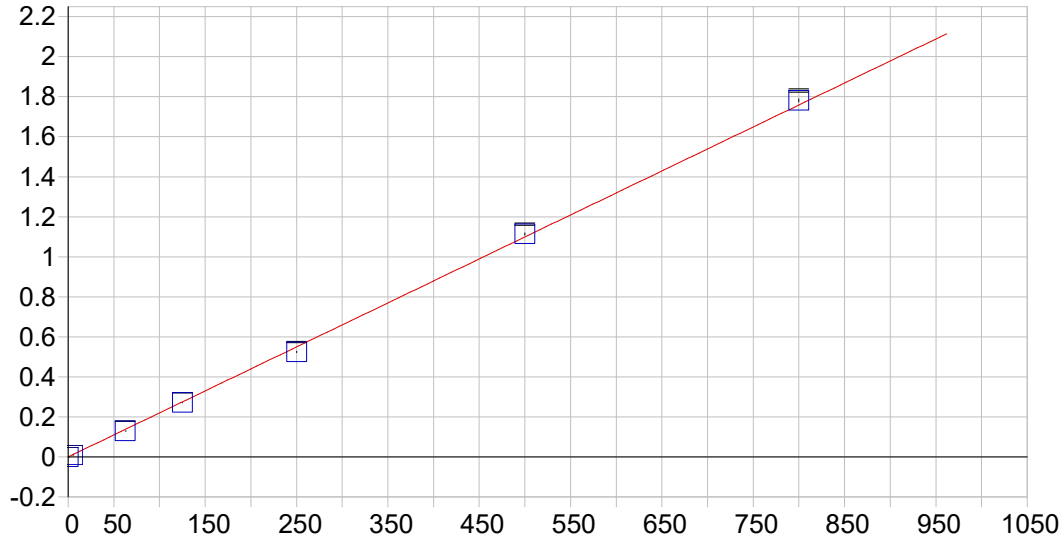
Mn 257.610 {131}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.088554	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.000347		
Predicted MQL:	0.001158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01500	.01530	.000	2.01	.00135	.000	1
S3	7.5000	7.6812	.181	2.42	.67974	.001	1
S4	15.000	14.615	-.385	-2.56	1.2933	.010	1
S5	30.000	30.247	.247	.824	2.6767	.007	1
S2	3.7500	3.7060	-.044	-1.17	.32795	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



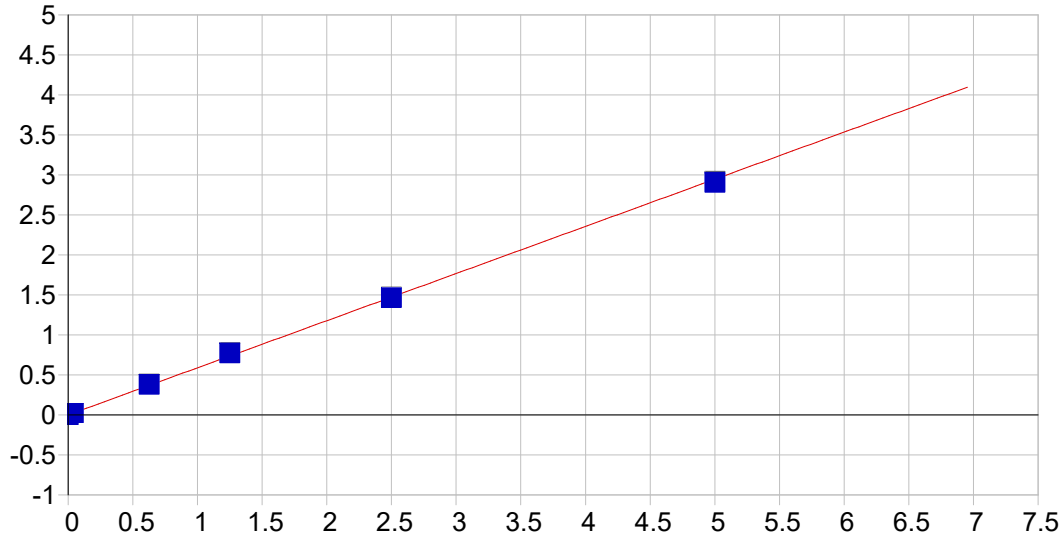
Mg 279.079 {121}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000033	Re-Slope:	1.000000
A1 (Gain):	0.002199	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999715	Status:	OK.
Std Error of Est:	0.000183		
Predicted MDL:	0.017983		
Predicted MQL:	0.059944		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00099	.001	.000	-.00003	.000	1
S2	62.500	59.083	-3.42	-5.47	.12986	.000	1
S3	125.00	123.55	-1.45	-1.16	.27159	.001	1
S4	250.00	238.70	-11.3	-4.52	.52476	.003	1
S5	500.00	506.65	6.65	1.33	1.1139	.005	1
S1	5.0000	4.4331	-.567	-11.3	.00971	.000	1
S6	800.00	810.08	10.1	1.26	1.7809	.008	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



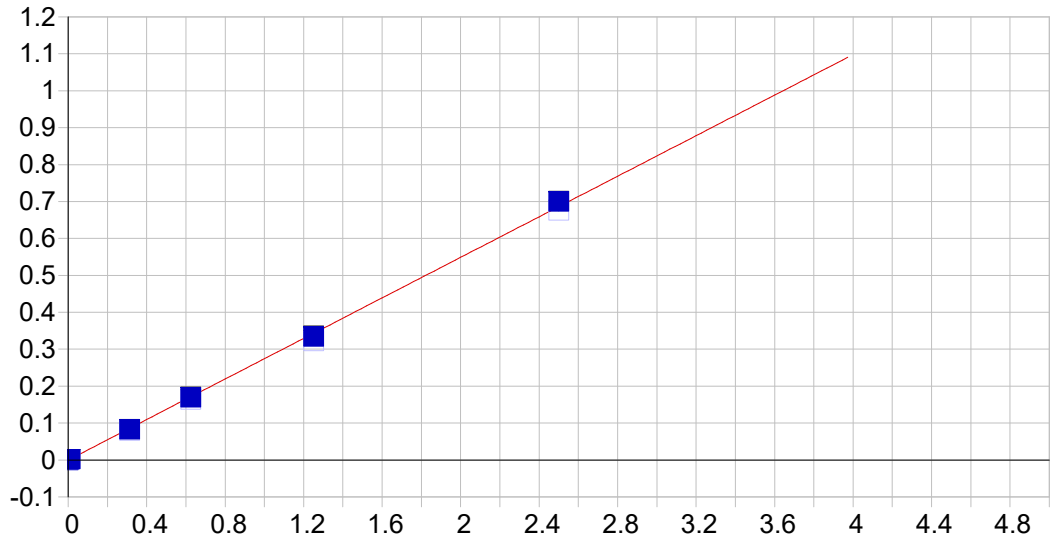
Ni 231.604 {446}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000339	Re-Slope:	1.000000
A1 (Gain):	0.589180	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.000318		
Predicted MDL:	0.000410		
Predicted MQL:	0.001366		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.04000	.04087	.001	2.18	.02377	.000	1
S3	1.2500	1.3120	.062	4.96	.77441	.004	1
S4	2.5000	2.4868	-.013	-.526	1.4683	.004	1
S5	5.0000	4.9294	-.071	-1.41	2.9108	.009	1
S2	.62500	.64589	.021	3.34	.38107	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



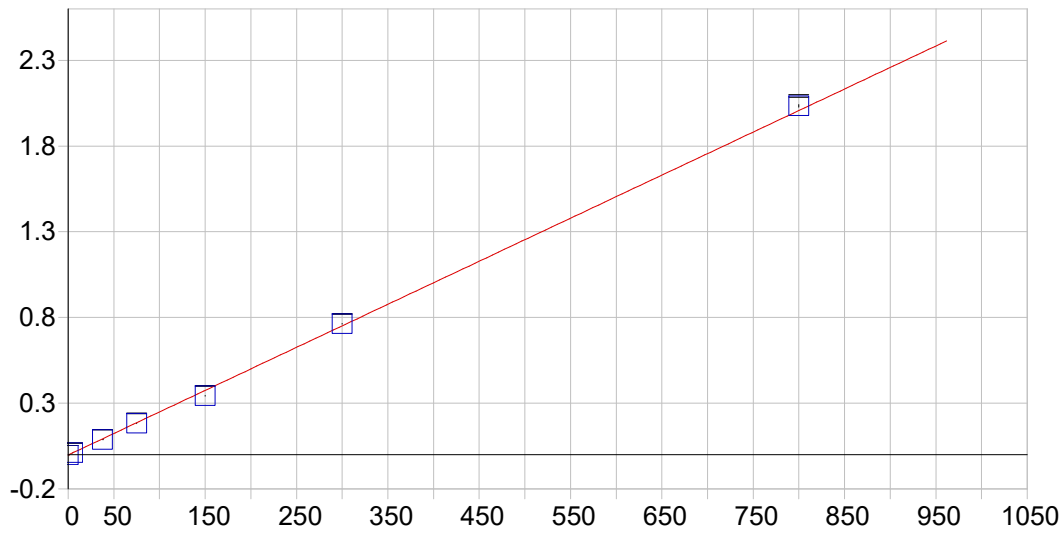
Ag 328.068 {103}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000242	Re-Slope:	1.000000
A1 (Gain):	0.274548	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.000381		
Predicted MQL:	0.001269		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00024	.000	1
S1	.01000	.00961	-.000	-3.85	.00238	.000	1
S3	.62500	.61931	-.006	-.911	.16374	.000	1
S4	1.2500	1.2174	-.033	-2.61	.32190	.002	1
S5	2.5000	2.5495	.049	1.98	.67553	.001	1
S2	.31250	.30169	-.011	-3.46	.07956	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



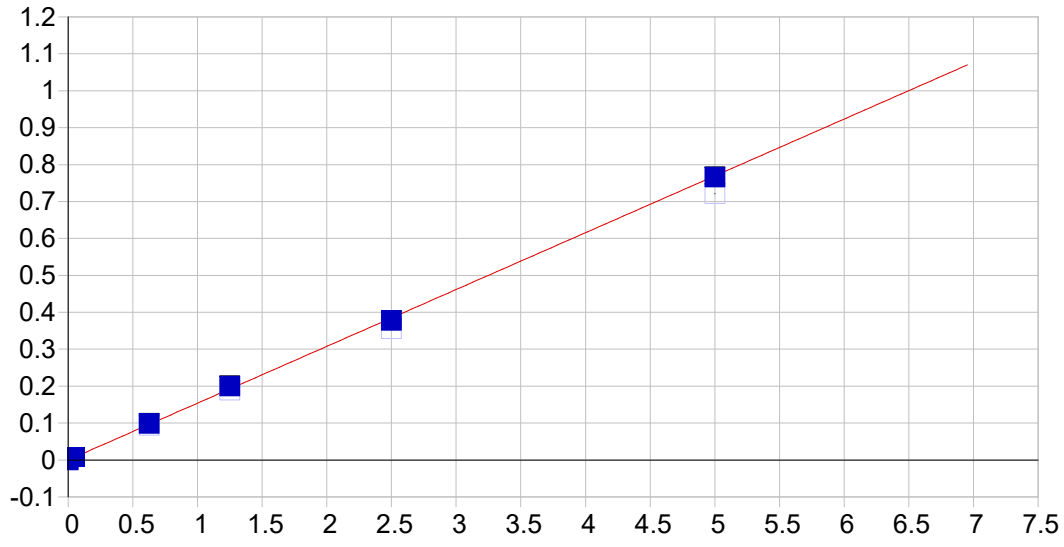
Na 818.326 { 41}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002157	Re-Slope:	1.000000
A1 (Gain):	0.002512	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999515	Status:	OK.
Std Error of Est:	0.000242		
Predicted MDL:	0.411716		
Predicted MQL:	1.372387		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00066	.001	.000	-.00216	.001	1
S2	37.500	35.728	-1.77	-4.73	.08758	.000	1
S3	75.000	73.637	-1.36	-1.82	.18279	.001	1
S4	150.00	137.76	-12.2	-8.16	.34384	.002	1
S5	300.00	304.59	4.59	1.53	.76285	.002	1
S1	5.0000	4.9289	-.071	-1.42	.01022	.001	1
S6	800.00	810.86	10.9	1.36	2.0344	.008	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



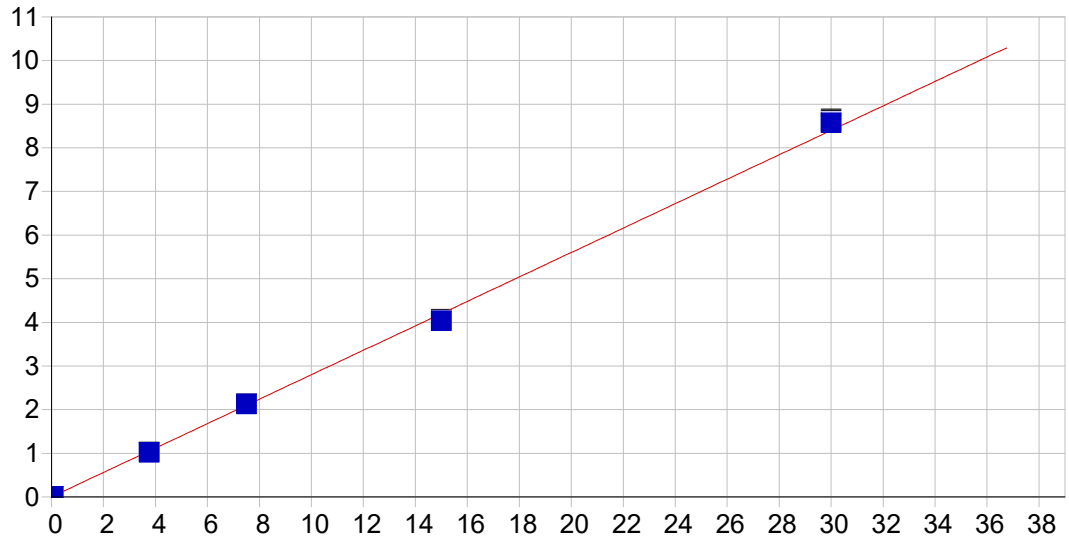
V 292.402 {115}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.153878	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999774	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.001978		
Predicted MQL:	0.006595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00002	.000	1
S1	.05000	.05375	.004	7.51	.00827	.000	1
S3	1.2500	1.3009	.051	4.07	.18895	.001	1
S4	2.5000	2.4512	-.049	-1.95	.35471	.000	1
S5	5.0000	4.9784	-.022	-.433	.72108	.001	1
S2	.62500	.64053	.016	2.48	.09296	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



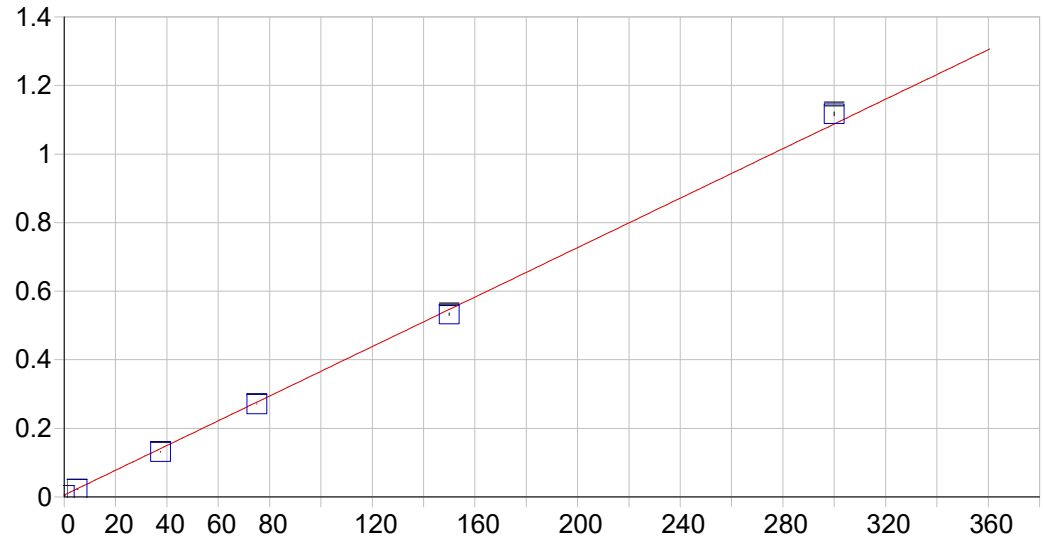
Zn 213.856 {158}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000350	Re-Slope:	1.000000
A1 (Gain):	0.280008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999642	Status:	OK.
Std Error of Est:	0.000535		
Predicted MDL:	0.001750		
Predicted MQL:	0.005832		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00035	.000	1
S1	.06000	.05876	-.001	-2.06	.01690	.000	1
S3	7.5000	7.5956	.096	1.27	2.1351	.007	1
S4	15.000	14.411	-.589	-3.92	4.0515	.020	1
S5	30.000	30.613	.613	2.04	8.6039	.055	1
S2	3.7500	3.6312	-.119	-3.17	1.0211	.004	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



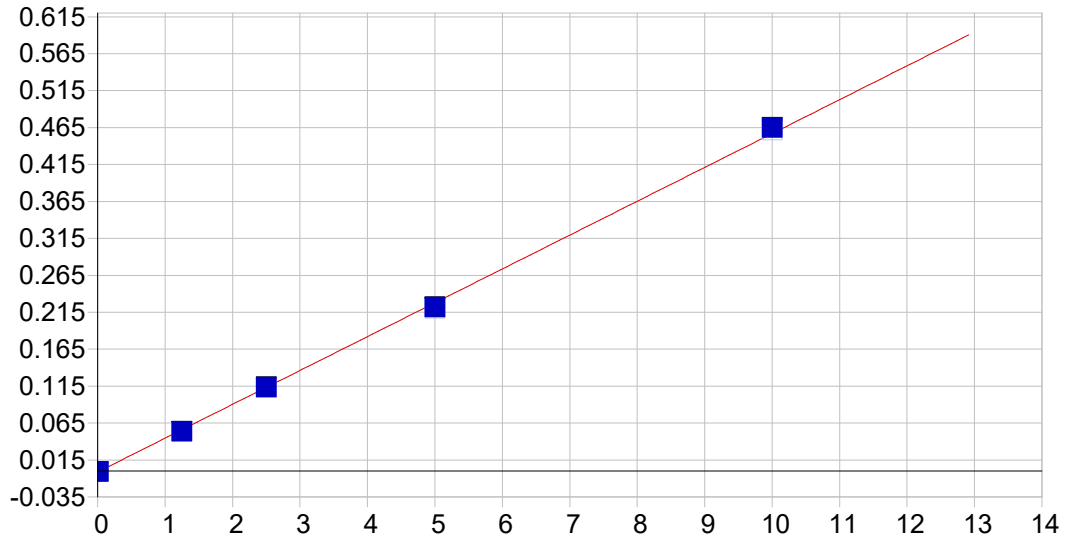
K 769.896 { 44}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005618	Re-Slope:	1.000000
A1 (Gain):	0.003607	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999515	Status:	OK.
Std Error of Est:	0.000232		
Predicted MDL:	0.050504		
Predicted MQL:	0.168346		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00086	.001	.000	.00562	.000	1
S2	37.500	34.965	-2.54	-6.76	.13174	.001	1
S3	75.000	73.605	-1.39	-1.86	.27112	.001	1
S4	150.00	146.23	-3.77	-2.51	.53308	.004	1
S5	300.00	308.14	8.14	2.71	1.1171	.006	1
S1	5.0000	4.5657	-.434	-8.69	.02209	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



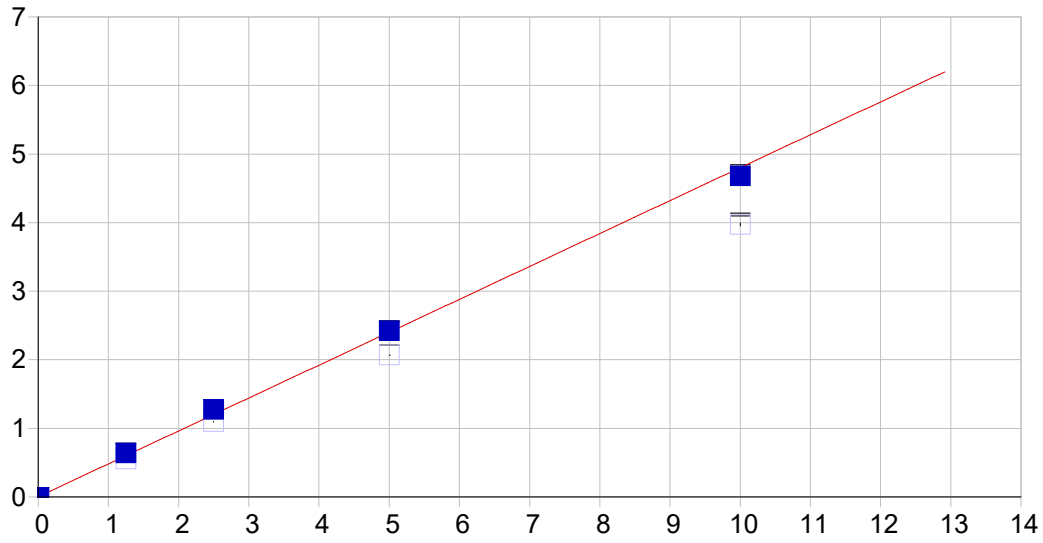
P 177.495 {490}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001331	Re-Slope:	1.000000
A1 (Gain):	0.045827	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.002255		
Predicted MQL:	0.007517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00133	.000	1
S1	.01000	.00894	-.001	-10.6	-.00092	.000	1
S3	2.5000	2.5075	.007	.299	.11276	.000	1
S4	5.0000	4.8696	-.130	-2.61	.22019	.001	1
S5	10.000	10.175	.175	1.75	.46168	.000	1
S2	1.2500	1.1992	-.051	-4.06	.05322	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



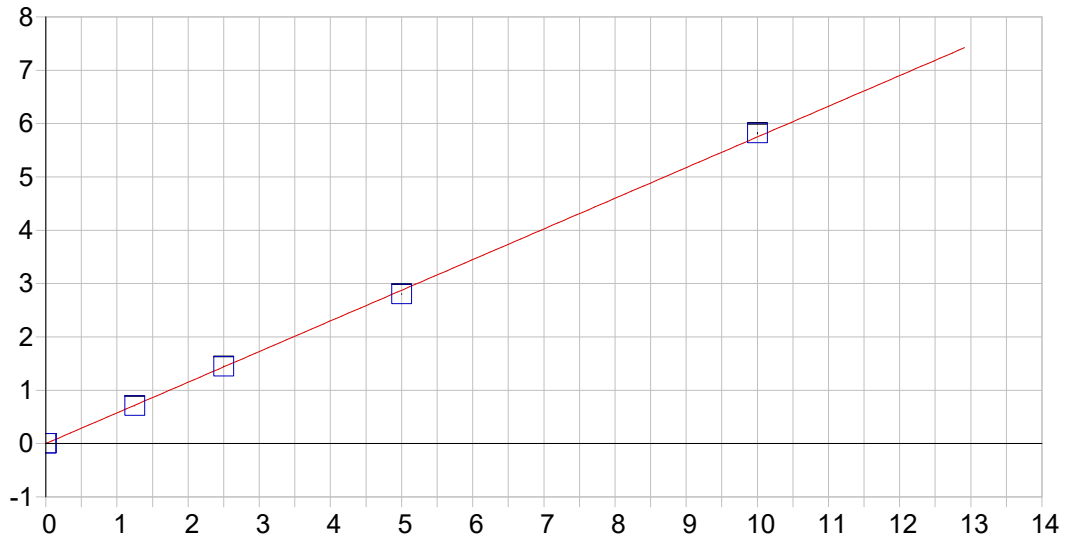
B 249.678 {135}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002008	Re-Slope:	1.000000
A1 (Gain):	0.479883	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998901	Status:	OK.
Std Error of Est:	0.000322		
Predicted MDL:	0.000728		
Predicted MQL:	0.002426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00201	.000	1
S1	.01000	.00009	-.010	-99.1	.00181	.000	1
S3	2.5000	2.6489	.149	5.96	1.0967	.003	1
S4	5.0000	5.0390	.039	.780	2.0672	.002	1
S5	10.000	9.7469	-.253	-2.53	3.9735	.021	1
S2	1.2500	1.3261	.076	6.09	.55015	.002	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



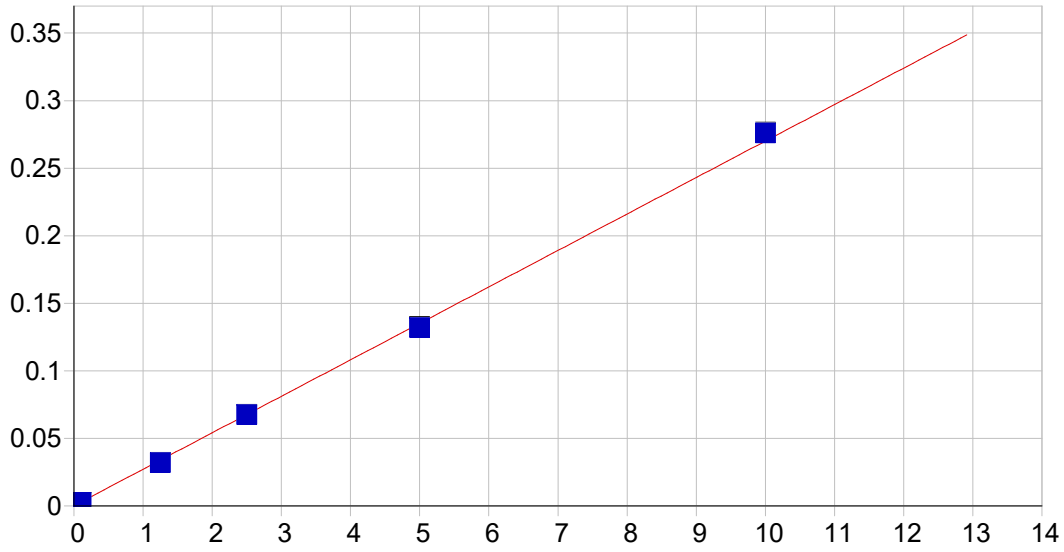
Mo 202.030 {467}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000108	Re-Slope:	1.000000
A1 (Gain):	0.574900	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000157		
Predicted MDL:	0.000337		
Predicted MQL:	0.001122		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00011	.000	1
S1	.01000	.01039	.000	3.91	.00608	.000	1
S3	2.5000	2.5197	.020	.789	1.4487	.005	1
S4	5.0000	4.8758	-.124	-2.48	2.8032	.007	1
S5	10.000	10.122	.122	1.22	5.8192	.012	1
S2	1.2500	1.2322	-.018	-1.42	.70850	.002	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



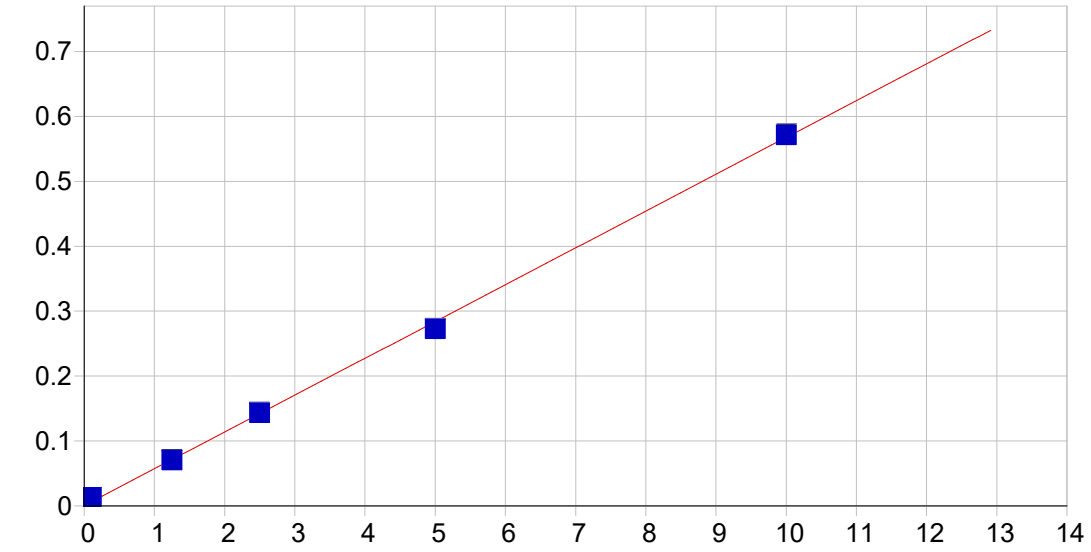
S 182.034 {485}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.026990	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999634	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003823		
Predicted MQL:	0.012744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00016	.000	1
S1	.10000	.08619	-.014	-13.8	.00249	.000	1
S3	2.5000	2.4922	-.008	-.310	.06751	.000	1
S4	5.0000	4.8784	-.122	-2.43	.13200	.001	1
S5	10.000	10.216	.216	2.16	.27624	.001	1
S2	1.2500	1.1769	-.073	-5.85	.03197	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



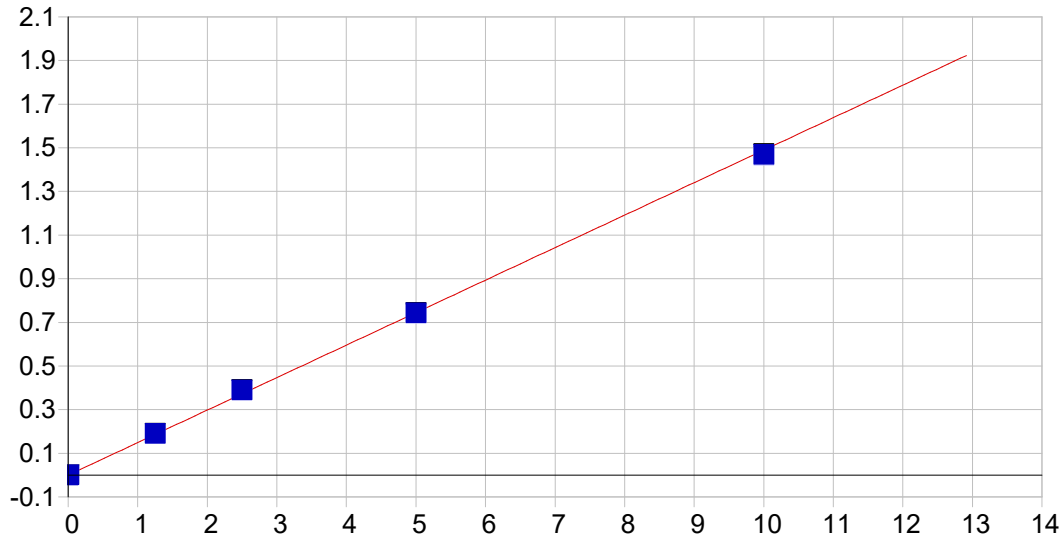
Si 251.611 {134}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000497	Re-Slope:	1.000000
A1 (Gain):	0.056705	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995170	Status:	OK.
Std Error of Est:	0.000298		
Predicted MDL:	0.003364		
Predicted MQL:	0.011213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00013	-.000	.000	.00049	.000	1
S1	.10000	.23234	.132	132.	.01367	.000	1
S3	2.5000	2.5216	.022	.865	.14391	.001	1
S4	5.0000	4.7964	-.204	-4.07	.27333	.000	1
S5	10.000	10.068	.068	.679	.57310	.001	1
S2	1.2500	1.2320	-.018	-1.44	.07057	.000	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



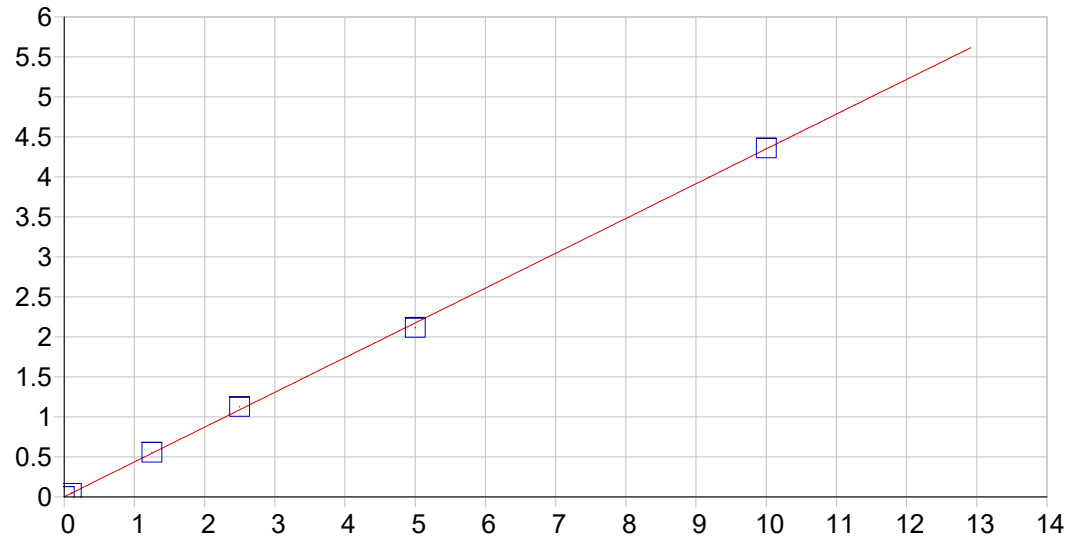
Sn 189.989 {478}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.148914	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.000799		
Predicted MQL:	0.002662		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00010	.000	1
S1	.00700	.00739	.000	5.52	.00116	.000	1
S3	2.5000	2.6191	.119	4.76	.38897	.002	1
S4	5.0000	4.9869	-.013	-.262	.74042	.002	1
S5	10.000	9.8631	-.137	-1.37	1.4642	.005	1
S2	1.2500	1.2805	.030	2.44	.19021	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

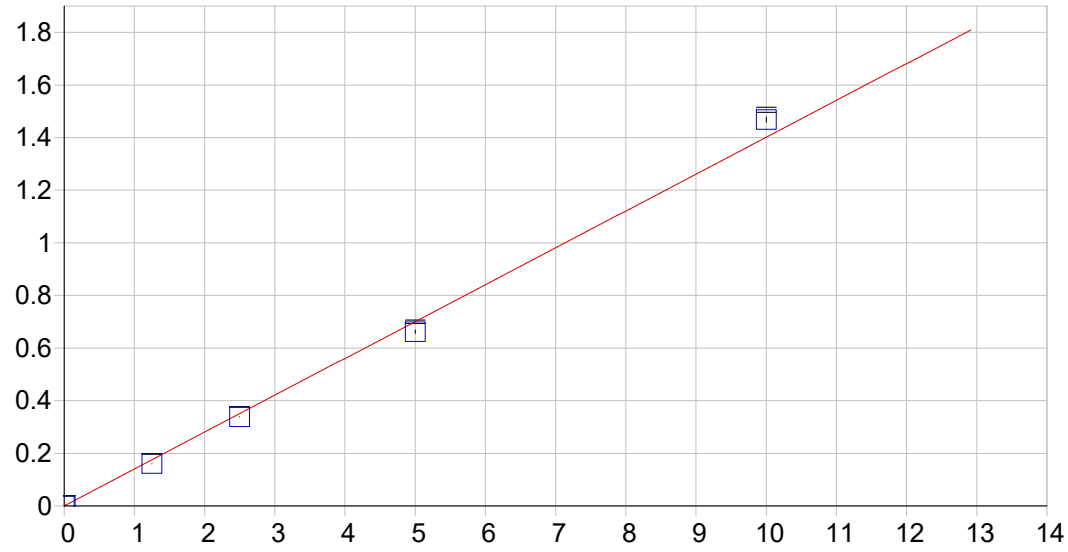


Ti 336.121 {100}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002398	Re-Slope:	1.000000
A1 (Gain):	0.434672	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000469		
Predicted MDL:	0.000930		
Predicted MQL:	0.003101		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00239	.000	1
S1	.10000	.10479	.005	4.79	.04795	.000	1
S3	2.5000	2.5878	.088	3.51	1.1273	.003	1
S4	5.0000	4.8600	-.140	-2.80	2.1149	.004	1
S5	10.000	10.023	.023	.227	4.3590	.002	1
S2	1.2500	1.2747	.025	1.97	.55645	.002	1



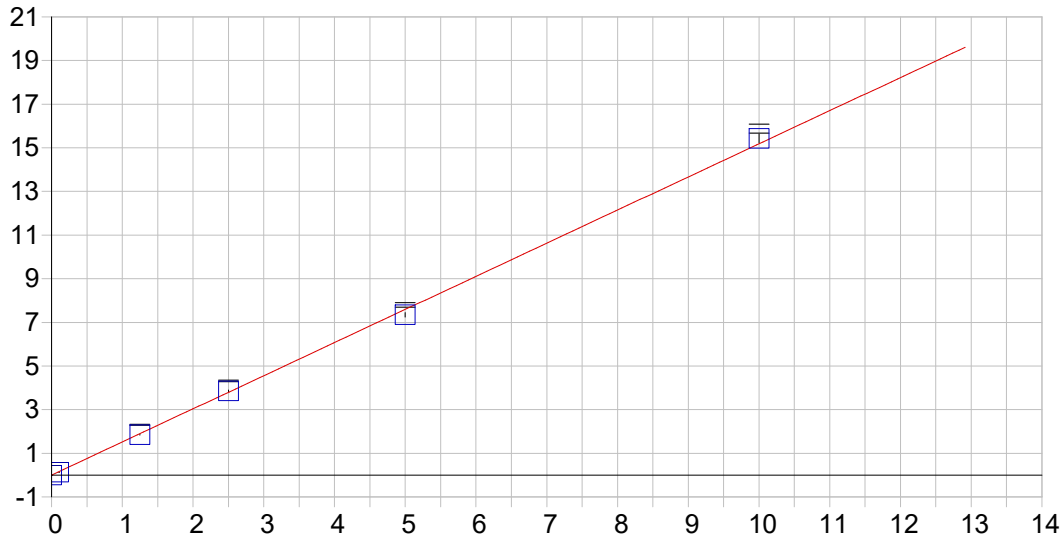
Li 670.784 { 50}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000594	Re-Slope:	1.000000
A1 (Gain):	0.140049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998631	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.001300		
Predicted MQL:	0.004334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00059	.000	1
S5	10.000	10.478	.478	4.78	1.4681	.009	1
S4	5.0000	4.7224	-.278	-5.55	.66196	.007	1
S3	2.5000	2.4128	-.087	-3.49	.33850	.001	1
S1	.01500	.01364	-.001	-9.09	.00250	.000	1
S2	1.2500	1.1379	-.112	-8.97	.15996	.001	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



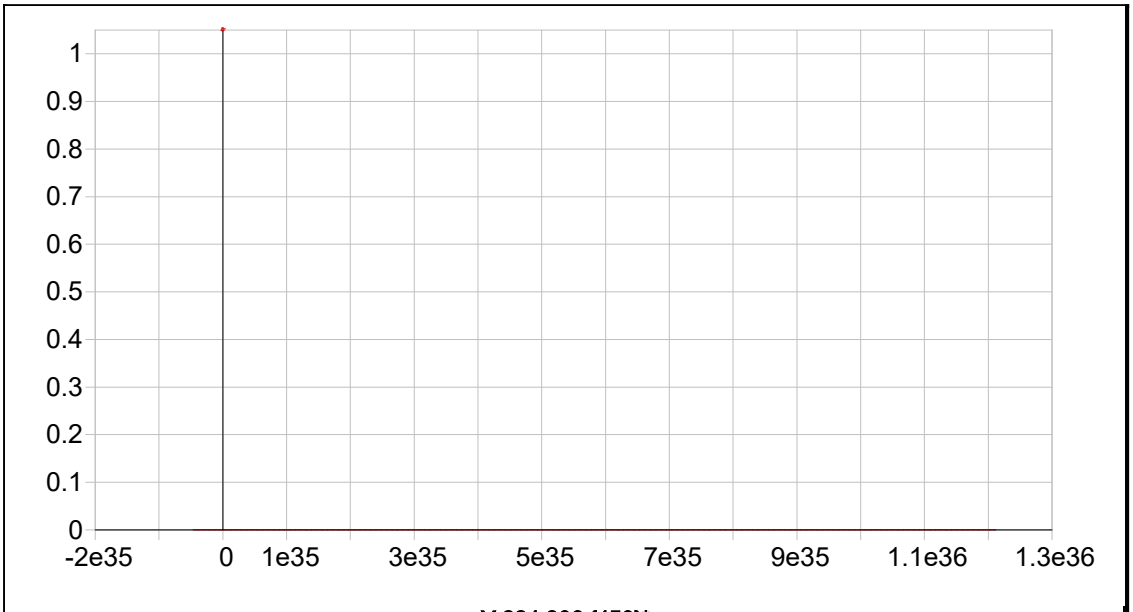
Sr 407.771 { 83}

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	1.518358	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999713	Status:	OK.
Std Error of Est:	0.001934		
Predicted MDL:	0.000064		
Predicted MQL:	0.000213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00004	.000	1
S1	.10000	.08751	-.012	-12.5	.13288	.001	1
S3	2.5000	2.5407	.041	1.63	3.8577	.039	1
S4	5.0000	4.8403	-.160	-3.19	7.3493	.103	1
S5	10.000	10.164	.164	1.64	15.432	.206	1
S2	1.2500	1.2179	-.032	-2.57	1.8492	.025	1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

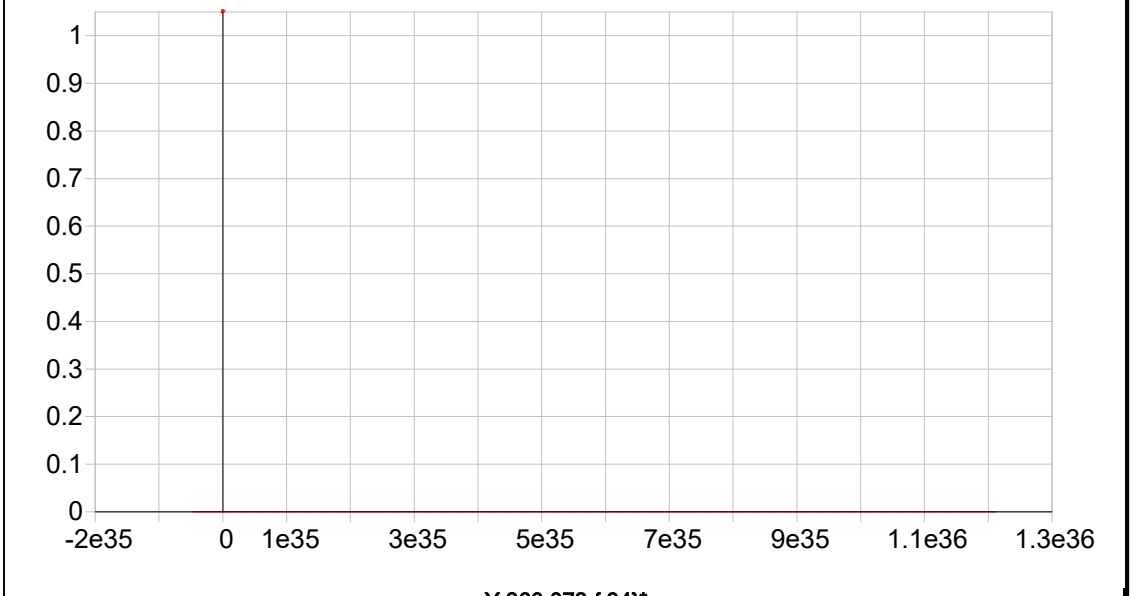


Y 224.306 {450}*

Date of Fit:	1/27/2025 1:59:51	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

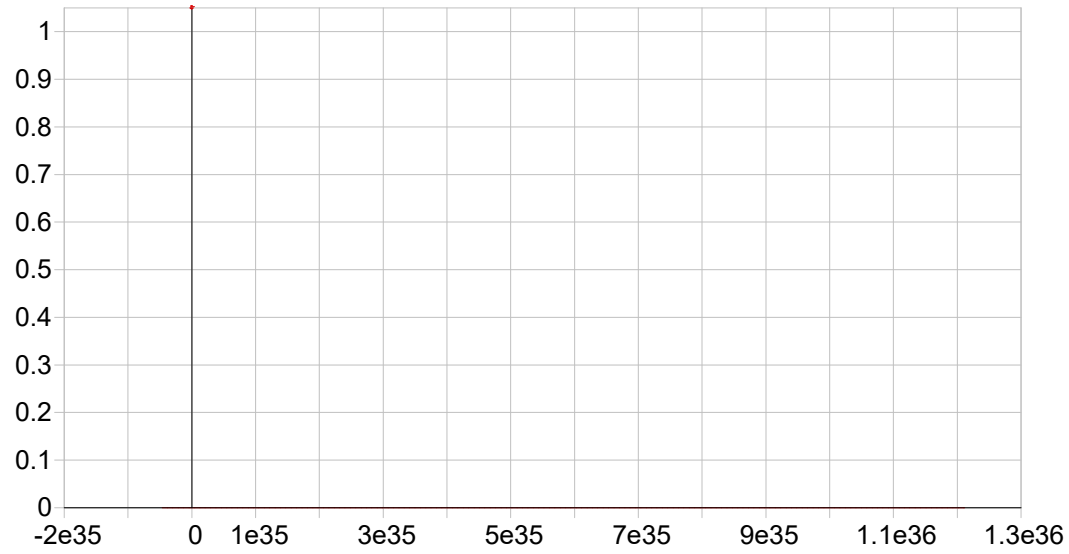
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

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

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



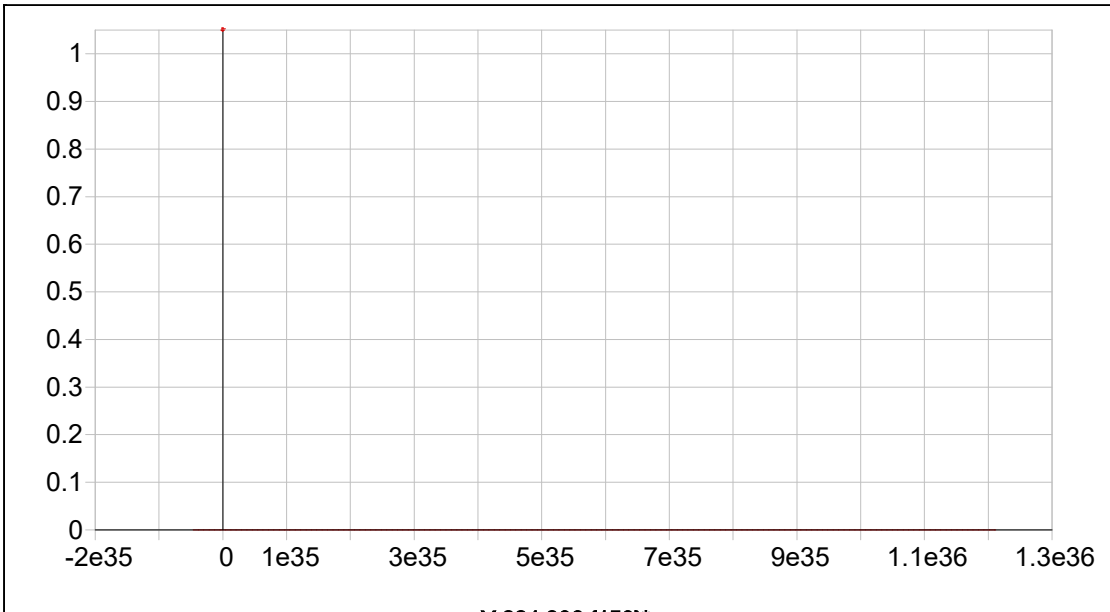
Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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

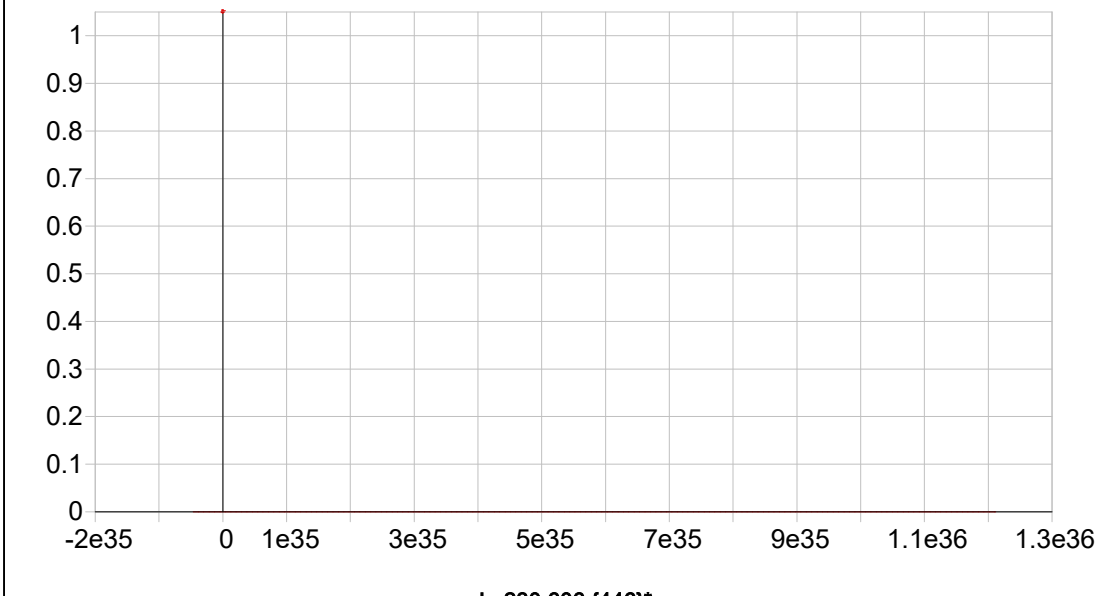
Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S0 Acquired: 1/27/2025 14:23:39 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00009**	**.00007**	**-.00031**	**.00036**	**.00034**	**-.00004**	**.00648**	**.00004**
Stddev	.00009	.00001	.00007	.00006	.00014	.00013	.00023	.00016
%RSD	98.992	20.708	23.596	15.946	41.468	325.66	3.5651	427.59
#1	-.00001	.00006	-.00039	.00041	.00046	.00007	.00642	-.00013
#2	-.00020	.00009	-.00028	.00030	.00038	-.00000	.00673	.00020
#3	-.00007	.00006	-.00026	.00037	.00018	-.00018	.00628	.00004

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00003**	**.00002**	**-.00001**	**-.00000**	**.00369**	**-.00000**	**-.00001**	**-.00003**
Stddev	.00012	.00002	.00001	.00007	.00007	.00001	.00004	.00004
%RSD	356.51	152.65	172.95	1514.4	1.9402	2914.3	600.91	114.57
#1	.00007	-.00001	-.00002	.00007	.00377	-.00000	.00004	-.00003
#2	-.00016	.00002	.00001	-.00002	.00363	.00002	-.00002	.00000
#3	-.00001	.00003	-.00001	-.00006	.00368	-.00001	-.00003	-.00007

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00034**	**-.00024**	**-.00216**	**.00002**	**.00035**	**.00562**	**-.00133**	**.00201**
Stddev	.00018	.00002	.00078	.00014	.00029	.00006	.00006	.00021
%RSD	51.843	9.0647	36.208	787.77	82.517	1.1126	4.2043	10.266
#1	-.00014	-.00024	-.00126	-.00014	.00068	.00557	-.00135	.00203
#2	-.00043	-.00022	-.00256	.00009	.00024	.00560	-.00127	.00221
#3	-.00046	-.00026	-.00265	.00011	.00014	.00569	-.00138	.00180

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00011**	**.00016**	**.00049**	**.00010**	**.00239**	**.00059**	**.00004**
Stddev	.00014	.00004	.00006	.00013	.00011	.00014	.00004
%RSD	130.31	21.427	12.633	123.40	4.6816	23.748	100.19
#1	.00014	.00013	.00056	.00012	.00250	.00053	.00007
#2	-.00005	.00020	.00046	-.00003	.00228	.00050	-.00001
#3	.00023	.00016	.00045	.00022	.00240	.00076	.00006

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S0 Acquired: 1/27/2025 14:23:39 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.3	77141.	10941.	2574.2	4698.6
Stddev	4.9	412.	38.	15.0	4.0
%RSD	.13119	.53411	.34829	.58186	.08615
#1	3722.6	76665.	10933.	2557.2	4699.0
#2	3725.5	77385.	10907.	2580.1	4702.4
#3	3716.0	77373.	10982.	2585.3	4694.4

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S1 Acquired: 1/27/2025 14:27:55 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00052**	**.00190**	**.00210**	**.00240**	**.00890**	**.00209**	**.08309**	**.02350**
Stddev	.00007	.00009	.00016	.00018	.00008	.00005	.00045	.00019
%RSD	12.945	4.7803	7.6163	7.5152	.89797	2.3760	.54737	.82349
#1	.00053	.00197	.00215	.00259	.00883	.00204	.08342	.02329
#2	.00045	.00194	.00192	.00238	.00889	.00208	.08327	.02366
#3	.00058	.00180	.00223	.00223	.00899	.00214	.08257	.02357

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01292**	**.03973**	**.00174**	**.04151**	**.00781**	**.00051**	**.00135**	**.00971**
Stddev	.00006	.00008	.00003	.00031	.00008	.00002	.00002	.00004
%RSD	.49572	.21208	1.9312	.74433	.99954	3.0568	1.5932	.44953
#1	.01287	.03983	.00175	.04145	.00772	.00053	.00137	.00968
#2	.01289	.03970	.00176	.04124	.00788	.00050	.00134	.00976
#3	.01299	.03967	.00170	.04185	.00782	.00052	.00133	.00970

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02377**	**.00238**	**.01022**	**.00827**	**.01690**	**.02209**	**-.00092**	**.00181**
Stddev	.00011	.00004	.00057	.00031	.00029	.00014	.00008	.00017
%RSD	.46023	1.8549	5.5395	3.7022	1.6864	.65111	9.0244	9.2530
#1	.02382	.00243	.00996	.00858	.01668	.02225	-.00098	.00162
#2	.02364	.00234	.00984	.00797	.01680	.02198	-.00096	.00187
#3	.02384	.00237	.01087	.00827	.01723	.02203	-.00083	.00194

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00608**	**.00249**	**.01367**	**.00116**	**.04795**	**.00250**	**.13288**
Stddev	.00012	.00014	.00010	.00010	.00029	.00016	.00116
%RSD	1.9889	5.7832	.75431	9.0330	.60796	6.4551	.87243
#1	.00602	.00252	.01371	.00127	.04819	.00234	.13404
#2	.00601	.00233	.01356	.00106	.04802	.00251	.13289
#3	.00622	.00261	.01375	.00114	.04762	.00266	.13172

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S1 Acquired: 1/27/2025 14:27:55 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.8	74781.	11122.	2485.3	4475.5
Stddev	10.9	95.	43.	6.9	10.5
%RSD	.30306	.12766	.38471	.27731	.23468
#1	3600.2	74890.	11171.	2478.9	4466.1
#2	3621.1	74713.	11107.	2484.4	4486.9
#3	3605.2	74739.	11089.	2492.6	4473.4

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S2 Acquired: 1/27/2025 14:32:08 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06999	.09174	1.4227	.07901	.18366	.42648	.97881	.57269
Stddev	.00049	.00015	.0043	.00022	.00055	.00168	.00593	.00096
%RSD	.70044	.16698	.30216	.28250	.30047	.39280	.60573	.16766
#1	.06979	.09178	1.4202	.07926	.18340	.42736	.98428	.57309
#2	.06963	.09186	1.4202	.07883	.18329	.42754	.97964	.57160
#3	.07055	.09157	1.4276	.07894	.18430	.42455	.97251	.57338

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6301	.49276	.63980	.53202	.51866	.19000	.32795	.12986
Stddev	.0040	.00134	.00059	.00154	.00264	.00069	.00086	.00025
%RSD	.24463	.27255	.09190	.29023	.50959	.36342	.26083	.19265
#1	1.6294	.49329	.63992	.53128	.52134	.19000	.32824	.12999
#2	1.6265	.49376	.64033	.53099	.51860	.19069	.32861	.13003
#3	1.6344	.49123	.63917	.53380	.51605	.18931	.32698	.12958

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.38107	.07956	.08758	.09296	1.0211	.13174	.05322	.55015
Stddev	.00100	.00016	.00045	.00045	.0041	.00066	.00007	.00202
%RSD	.26192	.20462	.51297	.47873	.39940	.49969	.12618	.36799
#1	.38075	.07968	.08707	.09274	1.0198	.13202	.05316	.54983
#2	.38027	.07938	.08774	.09266	1.0256	.13222	.05321	.54830
#3	.38219	.07962	.08793	.09347	1.0178	.13099	.05329	.55231

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.70850	.03197	.07057	.19021	.55645	.15996	1.8492
Stddev	.00157	.00013	.00043	.00083	.00197	.00109	.0249
%RSD	.22139	.41849	.61128	.43489	.35436	.67914	1.3466
#1	.70795	.03194	.07027	.18957	.55677	.16120	1.8315
#2	.70729	.03212	.07106	.18992	.55825	.15950	1.8384
#3	.71027	.03186	.07038	.19114	.55434	.15918	1.8777

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S2 Acquired: 1/27/2025 14:32:08 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.2**	**71247.**	**11035.**	**2344.1**	**4008.7**
Stddev	6.9	252.	19.	9.3	6.0
%RSD	.20303	.35357	.17140	.39675	.14891
#1	3403.3	71187.	11049.	2343.3	4013.6
#2	3408.5	71030.	11014.	2335.2	4010.3
#3	3394.8	71523.	11043.	2353.7	4002.0

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S3 Acquired: 1/27/2025 14:36:11 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14626	.18451	2.8982	.16411	.38272	.89546	2.0319	1.1452
Stddev	.00084	.00180	.0127	.00093	.00146	.00194	.0080	.0030
%RSD	.57208	.97649	.43951	.56961	.38140	.21675	.39400	.25991
#1	.14572	.18407	2.8957	.16379	.38341	.89401	2.0319	1.1454
#2	.14583	.18297	2.8869	.16338	.38104	.89766	2.0239	1.1422
#3	.14722	.18649	2.9120	.16517	.38370	.89469	2.0399	1.1481

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3259	1.0196	1.2799	1.0830	1.0589	.38984	.67974	.27159
Stddev	.0208	.0016	.0031	.0052	.0019	.00119	.00102	.00077
%RSD	.62671	.15480	.23829	.47984	.18148	.30541	.15051	.28365
#1	3.3201	1.0178	1.2764	1.0820	1.0605	.38865	.67855	.27070
#2	3.3086	1.0202	1.2809	1.0783	1.0568	.39103	.68030	.27202
#3	3.3491	1.0207	1.2823	1.0886	1.0594	.38985	.68035	.27205

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.77441	.16374	.18279	.18895	2.1351	.27112	.11276	1.0967
Stddev	.00441	.00035	.00120	.00086	.0067	.00066	.00029	.0026
%RSD	.56965	.21179	.65809	.45626	.31244	.24170	.26084	.23818
#1	.77290	.16341	.18199	.18852	2.1414	.27074	.11261	1.0946
#2	.77095	.16410	.18221	.18994	2.1281	.27188	.11257	1.0960
#3	.77938	.16372	.18418	.18839	2.1357	.27075	.11310	1.0996

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4487	.06751	.14391	.38897	1.1273	.33850	3.8577
Stddev	.0053	.00032	.00066	.00174	.0026	.00063	.0389
%RSD	.36788	.47831	.46069	.44845	.22762	.18598	1.0082
#1	1.4478	.06732	.14413	.38810	1.1249	.33901	3.8163
#2	1.4439	.06734	.14317	.38784	1.1270	.33869	3.8636
#3	1.4544	.06789	.14444	.39098	1.1300	.33780	3.8934

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S3 Acquired: 1/27/2025 14:36:11 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.2**	**69389.**	**10947.**	**2265.9**	**3791.4**
Stddev	6.4	181.	33.	3.4	9.6
%RSD	.19820	.26100	.30296	.14817	.25231
#1	3245.3	69598.	10970.	2264.1	3792.3
#2	3251.6	69281.	10962.	2263.9	3800.5
#3	3238.8	69288.	10909.	2269.8	3781.5

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S4 Acquired: 1/27/2025 14:40:20 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.28580	.34209	5.5354	.31522	.75080	1.7551	3.9006	2.1888
Stddev	.00113	.00028	.0143	.00149	.00236	.0117	.0153	.0047
%RSD	.39707	.08166	.25774	.47241	.31425	.66489	.39237	.21323
#1	.28647	.34192	5.5434	.31580	.75250	1.7630	3.9182	2.1857
#2	.28449	.34194	5.5189	.31353	.74811	1.7417	3.8912	2.1941
#3	.28644	.34241	5.5438	.31633	.75181	1.7605	3.8922	2.1865

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.3466	1.9510	2.4006	2.0688	2.0075	.73738	1.2933	.52476
Stddev	.0159	.0126	.0104	.0045	.0048	.00430	.0104	.00278
%RSD	.25091	.64504	.43457	.21920	.23939	.58319	.80713	.52966
#1	6.3550	1.9594	2.4092	2.0722	2.0126	.73995	1.3004	.52655
#2	6.3283	1.9365	2.3890	2.0636	2.0030	.73242	1.2813	.52156
#3	6.3566	1.9570	2.4037	2.0705	2.0071	.73978	1.2982	.52618

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4683	.32190	.34384	.35471	4.0515	.53308	.22019	2.0672
Stddev	.0044	.00214	.00193	.00024	.0197	.00383	.00058	.0018
%RSD	.30071	.66483	.56221	.06636	.48658	.71833	.26533	.08849
#1	1.4717	.32308	.34409	.35445	4.0699	.53585	.22042	2.0666
#2	1.4633	.31943	.34563	.35477	4.0307	.52871	.21953	2.0692
#3	1.4699	.32319	.34179	.35491	4.0538	.53469	.22063	2.0657

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8032	.13200	.27333	.74042	2.1149	.66196	7.3493
Stddev	.0069	.00053	.00039	.00242	.0042	.00682	.1034
%RSD	.24512	.40080	.14409	.32633	.19833	1.0298	1.4069
#1	2.8067	.13253	.27377	.74199	2.1196	.66662	7.3167
#2	2.7953	.13147	.27302	.73764	2.1114	.65414	7.2662
#3	2.8076	.13201	.27319	.74163	2.1137	.66512	7.4651

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S4 Acquired: 1/27/2025 14:40:20 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3053.6	66585.	10684.	2171.8	3563.6
Stddev	6.7	285.	36.	5.4	8.5
%RSD	.21983	.42832	.33826	.24854	.23879
#1	3051.1	66349.	10681.	2165.5	3558.6
#2	3061.2	66902.	10649.	2174.7	3573.5
#3	3048.6	66503.	10721.	2175.1	3558.8

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S5 Acquired: 1/27/2025 14:44:24 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.61422**	**.65840**	**11.018**	**.66505**	**1.6055**	**3.7675**	**8.4844**	**4.3548**
Stddev	.00084	.00328	.036	.00155	.0042	.0182	.1367	.0173
%RSD	.13731	.49778	.32769	.23261	.26125	.48293	1.6108	.39722
#1	.61368	.65536	11.032	.66357	1.6027	3.7710	8.5342	4.3414
#2	.61379	.65797	10.977	.66492	1.6035	3.7478	8.3298	4.3743
#3	.61519	.66187	11.045	.66666	1.6103	3.7837	8.5892	4.3486

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.501**	**4.0461**	**4.6304**	**4.1314**	**4.3450**	**1.5065**	**2.6767**	**1.1139**
Stddev	.041	.0144	.0151	.0121	.0107	.0088	.0072	.0053
%RSD	.32608	.35540	.32555	.29160	.24686	.58360	.26733	.47786
#1	12.503	4.0598	4.6364	4.1352	4.3358	1.5151	2.6714	1.1187
#2	12.459	4.0474	4.6416	4.1179	4.3425	1.4975	2.6848	1.1082
#3	12.540	4.0311	4.6133	4.1411	4.3568	1.5068	2.6737	1.1146

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.9108**	**.67553**	**.76285**	**.72108**	**8.6039**	**1.1171**	**.46168**	**3.9735**
Stddev	.0086	.00069	.00203	.00060	.0555	.0060	.00037	.0206
%RSD	.29409	.10209	.26565	.08386	.64456	.53475	.07972	.51773
#1	2.9144	.67529	.76117	.72133	8.6382	1.1222	.46187	3.9534
#2	2.9011	.67499	.76228	.72040	8.5399	1.1106	.46125	3.9945
#3	2.9170	.67631	.76510	.72153	8.6336	1.1185	.46191	3.9726

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.8192**	**.27624**	**.57310**	**1.4642**	**4.3590**	**1.4681**	**15.432**
Stddev	.0124	.00053	.00085	.0051	.0016	.0095	.206
%RSD	.21242	.19249	.14789	.35099	.03650	.64487	1.3318
#1	5.8112	.27624	.57223	1.4658	4.3582	1.4716	15.602
#2	5.8129	.27571	.57314	1.4585	4.3580	1.4573	15.490
#3	5.8334	.27678	.57392	1.4684	4.3608	1.4753	15.204

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S5 Acquired: 1/27/2025 14:44:24 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2711.8	63463.	10454.	2066.7	3262.4
Stddev	5.2	203.	40.	12.6	7.9
%RSD	.19081	.31934	.38586	.61172	.24204
#1	2715.1	63229.	10453.	2053.2	3261.3
#2	2714.5	63568.	10414.	2078.2	3270.8
#3	2705.8	63590.	10494.	2068.7	3255.1

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: S6 Acquired: 1/27/2025 14:48:59 Type: Cal
Method: EPA SFAM01.0(v56) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.7303**	**6.4307**	**3.9368**	**1.7809**	**2.0344**
Stddev	.1439	.0367	.0258	.0083	.0081
%RSD	1.4785	.57019	.65535	.46546	.39768
#1	9.7072	6.4327	3.9087	1.7726	2.0342
#2	9.5994	6.3931	3.9421	1.7809	2.0264
#3	9.8843	6.4663	3.9595	1.7892	2.0426

Int. Std.	Y_3600	Y_3710
Units	Cts/S	Cts/S
Avg	**59621.**	**10065.**
Stddev	202.	74.
%RSD	.33883	.73435
#1	59774.	9980.5
#2	59698.	10099.
#3	59392.	10116.

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICV003 Acquired: 1/27/2025 15:41:59 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9268194**	**1.079328**	**1.012936**	**.9539148**	**1.025221**	**2.487107**
Stddev	.0036777	.005877	.000404	.0013201	.003029	.016441
%RSD	.3968092	.5445195	.0398446	.1383903	.2954529	.6610406
#1	.9270146	1.075816	1.012530	.9528703	1.021725	2.473938
#2	.9230480	1.086113	1.013337	.9534757	1.027068	2.505534
#3	.9303957	1.076056	1.012942	.9553986	1.026869	2.481850

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5138612**	**.5108384**	**.5008677**	**9.544351**	**.5664082**	**.5016677**
Stddev	.0016271	.0007536	.0005825	.010181	.0019084	.0002766
%RSD	.3166368	.1475239	.1163065	.1066680	.3369322	.0551449
#1	.5123908	.5099695	.5013425	9.536093	.5642494	.5019179
#2	.5156092	.5112313	.5002176	9.555726	.5678707	.5013707
#3	.5135836	.5113144	.5010429	9.541234	.5671046	.5017147

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4975535**	**10.03601**	**.4897166**	**5.966106**	**.5106198**	**.2346933**
Stddev	.0037554	.02693	.0013586	.041378	.0009282	.0007654
%RSD	.7547670	.2683606	.2774184	.6935528	.1817722	.3261089
#1	.5013085	10.00877	.4881526	5.989458	.5112191	.2342847
#2	.4937978	10.06263	.4903939	5.990528	.5095507	.2355762
#3	.4975542	10.03662	.4906035	5.918330	.5110896	.2342189

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.23930**	**.5033207**	**.9719463**	**9.576793**	F **.0031986**	F **.0417262**
Stddev	.28515	.0028168	.0035653	.094688	.0010260	.0001652
%RSD	2.784859	.5596352	.3668161	.9887256	32.07459	.3959791
#1	10.34695	.5047458	.9696371	9.576546	.0027411	.0416065
#2	9.91600	.5000761	.9701492	9.671604	.0043737	.0419147
#3	10.45495	.5051401	.9760524	9.482228	.0024810	.0416574

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICV003 Acquired: 1/27/2025 15:41:59 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000526	F .0035762	F -.001806	F .0001571	F -.001084	F .0004090
Stddev	.000043	.0019492	.000691	.0005499	.000397	.0013689
%RSD	8.186578	54.50289	38.27061	350.1518	36.66506	334.6759
#1	-.000478	.0013448	-.001501	-.000399	-.001417	.0017183
#2	-.000563	.0044375	-.002597	.000701	-.001190	.0005215
#3	-.000535	.0049464	-.001320	.000169	-.000644	-.001013

Elem	Sr4077
Units	ppm
Avg	F .0011221
Stddev	.0000143
%RSD	1.278112
#1	.0011357
#2	.0011071
#3	.0011235

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3607.403	74343.97	11244.17	2450.872	4435.499
Stddev	4.825	122.40	8.10	1.994	5.311
%RSD	.1337529	.1646373	.0720624	.0813469	.1197400
#1	3612.593	74454.85	11246.80	2448.614	4431.042
#2	3606.564	74212.63	11250.62	2451.612	4441.375
#3	3603.053	74364.44	11235.07	2452.389	4434.079

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICB003 Acquired: 1/27/2025 15:45:56 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008965**	**.0007413**	**.0001810**	**-.000761**	**.0004518**	**.0095554**	**-.002458**
Stddev	.0008502	.0010532	.0005983	.001852	.0006579	.0027009	.000218
%RSD	94.82789	142.0851	330.6057	243.3800	145.6246	28.26578	8.872469
#1	.0014925	-.000158	.0007818	.000517	.0005030	.0071201	-.002223
#2	-.000077	.001900	-.000415	.000085	-.000230	.0124603	-.002498
#3	.001274	.000482	.000176	-.002885	.001083	.0090857	-.002654

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000009**	**-.000018**	**.0077181**	**.0000843**	**.0000042**	**.0011649**	**.0053115**
Stddev	.000087	.000059	.0038883	.0003430	.0002699	.0016597	.0018910
%RSD	964.1065	321.3854	50.37812	406.9291	6463.498	142.4739	35.60243
#1	.000044	.000045	.0040433	.0004344	-.000097	.0030013	.0071417
#2	-.000109	-.000030	.0117894	.0000695	-.000201	.0007218	.0033651
#3	.000039	-.000070	.0073217	-.000251	.000310	-.000228	.0054277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000506**	**-.012748**	**.0001415**	**-.000319**	**.0431904**	**-.000499**	**.0002598**
Stddev	.0001894	.009890	.0002080	.000170	.1997997	.002363	.0007708
%RSD	374.7125	77.57912	147.0655	53.28983	462.6020	473.6773	296.6780
#1	.0000816	-.001328	-.000051	-.000125	-.006975	.002217	-.000627
#2	.0002225	-.018468	.000362	-.000390	-.126746	-.002083	.000772
#3	-.000152	-.018448	.000114	-.000442	.263292	-.001631	.000634

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.137754**	**-.000456**	**-.000781**	**.0004223**	**-.001718**	**-.001545**	**.0005172**
Stddev	.011066	.001336	.000390	.0001292	.002902	.001428	.0005590
%RSD	8.032964	292.6814	49.98969	30.58574	168.9466	92.41084	108.0946
#1	-.142207	-.000878	-.001212	.0003105	.000141	-.000071	.0011297
#2	-.125156	-.001531	-.000451	.0005638	-.000232	-.001643	.0003875
#3	-.145900	.001039	-.000680	.0003927	-.005062	-.002922	.0000344

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICB003 Acquired: 1/27/2025 15:45:56 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007881	-.001043	.0000239
Stddev	.0004265	.000388	.0000374
%RSD	54.11917	37.22026	156.0228
#1	.0011805	-.001402	.0000251
#2	.0008498	-.001096	.0000607
#3	.0003341	-.000631	-.000014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.037	75359.44	10979.58	2471.211	4501.347
Stddev	5.986	76.31	49.29	12.971	5.941
%RSD	.1668753	.1012663	.4489030	.5248984	.1319748
#1	3590.968	75332.65	10995.96	2478.130	4506.565
#2	3580.148	75445.54	10924.19	2456.247	4494.882
#3	3589.996	75300.14	11018.60	2479.256	4502.594

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICSA003 Acquired: 1/27/2025 15:56:30 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008332**	**.0019135**	**.0054677**	**.0200191**	**.0069128**	**224.9219**
Stddev	.0021578	.0006698	.0013166	.0006985	.0009632	1.5235
%RSD	258.9784	35.00276	24.08021	3.489249	13.93310	.6773515
#1	.0033197	.0011473	.0061675	.0194753	.0069287	224.2694
#2	-.000549	.0022057	.0062867	.0197751	.0078680	223.8333
#3	-.000271	.0023876	.0039490	.0208069	.0059418	226.6630

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079114**	**-.000704**	**.0005059**	**240.1774**	**.0598314**	**.0008650**
Stddev	.0010199	.000015	.0000947	1.3583	.0005113	.0002977
%RSD	12.89204	2.159878	18.72470	.5655377	.8545223	34.42024
#1	.0080498	-.000718	.0005626	238.9588	.0603057	.0005864
#2	.0088550	-.000688	.0003966	239.9315	.0592898	.0011787
#3	.0068293	-.000705	.0005587	241.6418	.0598987	.0008299

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007643**	**98.70624**	**.0099967**	**233.1837**	**.0030492**	**-.001155**
Stddev	.001806	.68818	.0001777	1.3583	.0002908	.000514
%RSD	23.63399	.6972006	1.777336	.5825166	9.535827	44.54493
#1	-.005571	98.22936	.0098980	232.2472	.0027367	-.000938
#2	-.008883	98.39419	.0102018	232.5622	.0030992	-.001742
#3	-.008476	99.49516	.0098902	234.7415	.0033118	-.000785

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.437481**	**-.006219**	**-.009572**	**-.104753**	**.0040572**	F **.4115306**
Stddev	.442460	.001361	.002259	.029624	.0004122	.0037103
%RSD	101.1380	21.88895	23.60059	28.28004	10.16035	.9015936
#1	-.812233	-.005859	-.008897	-.100545	.0035854	.4092660
#2	.050630	-.005074	-.007727	-.077458	.0043476	.4095132
#3	-.550840	-.007724	-.012092	-.136257	.0042386	.4158125

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICSA003 Acquired: 1/27/2025 15:56:30 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000630	.0184330	.0033632	-.003177	-.002776	.0050316
Stddev	.000052	.0071957	.0018756	.000659	.000673	.0006052
%RSD	8.318534	39.03694	55.76902	20.75754	24.24558	12.02891
#1	-.000690	.0206295	.0037216	-.003096	-.002700	.0053030
#2	-.000595	.0103950	.0050336	-.002561	-.002144	.0054538
#3	-.000604	.0242744	.0013342	-.003873	-.003483	.0043382

Elem	Sr4077
Units	ppm
Avg	.0902908
Stddev	.0005857
%RSD	.6487207
#1	.0897310
#2	.0902420
#3	.0908994

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3319.126	68087.90	10715.90	2309.467	3747.999
Stddev	6.489	114.35	52.74	5.539	8.174
%RSD	.1955095	.1679498	.4921557	.2398414	.2180991
#1	3326.619	68158.99	10710.36	2308.385	3756.479
#2	3315.444	68148.74	10666.15	2304.548	3740.169
#3	3315.315	67955.99	10771.19	2315.467	3747.350

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICSAB003 Acquired: 1/27/2025 16:01:16 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0976883**	**.1102426**	**.0575089**	**.0643529**	**.5629873**	**233.0849**
Stddev	.0034526	.0014409	.0017930	.0039875	.0013113	.5378
%RSD	3.534314	1.306995	3.117839	6.196297	.2329164	.2307233
#1	.0963757	.1118592	.0557536	.0608170	.5616332	233.5284
#2	.1016048	.1090937	.0574356	.0635669	.5630774	233.2395
#3	.0950846	.1097750	.0593374	.0686749	.5642512	232.4867

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4944284**	**.5163196**	**1.018637**	**246.0646**	**.6147760**	**.5115692**
Stddev	.0018489	.0023077	.002769	.5286	.0020814	.0010141
%RSD	.3739396	.4469513	.2717962	.2148192	.3385709	.1982389
#1	.4962536	.5139367	1.017108	245.9041	.6126866	.5104024
#2	.4944749	.5164783	1.016969	245.6349	.6147921	.5120665
#3	.4925567	.5185439	1.021833	246.6549	.6168494	.5122387

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4874980**	**101.9497**	**.5098181**	**239.3722**	**1.023512**	**.2040284**
Stddev	.0028075	.0995	.0005996	.6962	.002576	.0010920
%RSD	.5758964	.0976343	.1176209	.2908304	.2516465	.5352245
#1	.4849502	102.0267	.5092815	238.9622	1.020581	.2051830
#2	.4870358	101.8373	.5097074	238.9784	1.024542	.2038901
#3	.4905078	101.9850	.5104654	240.1760	1.025414	.2030122

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.538449**	**.4883120**	**.9731382**	**-.333603**	**.0054921**	F **.4263345**
Stddev	.257399	.0017105	.0108594	.041952	.0035009	.0009798
%RSD	47.80380	.3502825	1.115917	12.57555	63.74436	.2298277
#1	-.830204	.4896811	.9851528	-.381587	.0014846	.4274655
#2	-.343441	.4863946	.9640221	-.303853	.0079556	.4257943
#3	-.441703	.4888604	.9702399	-.315368	.0070362	.4257436

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: ICSAB003 Acquired: 1/27/2025 16:01:16 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000345	.0182632	-.000782	-.003199	-.003958	.0059729
Stddev	.000105	.0059853	.001983	.001615	.000385	.0003247
%RSD	30.54911	32.77222	253.7488	50.49538	9.722520	5.435427
#1	-.000261	.0189484	.001334	-.002986	-.003595	.0062678
#2	-.000463	.0238763	-.001080	-.001701	-.004361	.0056250
#3	-.000311	.0119648	-.002599	-.004911	-.003917	.0060259

Elem	Sr4077
Units	ppm
Avg	.0916935
Stddev	.0000850
%RSD	.0926876
#1	.0917029
#2	.0916042
#3	.0917734

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3269.239	67487.32	10790.51	2244.903	3725.423
Stddev	4.144	187.94	52.39	7.727	8.559
%RSD	.1267532	.2784772	.4855581	.3442214	.2297373
#1	3273.053	67609.28	10828.93	2236.735	3732.962
#2	3269.835	67581.80	10811.78	2252.098	3727.185
#3	3264.830	67270.89	10730.82	2245.875	3716.120

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCV021 Acquired: 1/27/2025 16:10:42 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV021 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.247377**	**5.035009**	**25.83331**	**5.244305**	**5.258986**	**403.6074**
Stddev	.019788	.018661	.06789	.009859	.015989	5.5892
%RSD	.3770933	.3706258	.2628153	.1879939	.3040390	1.384813
#1	5.231176	5.017067	25.80165	5.238012	5.254742	402.0050
#2	5.241525	5.054314	25.78703	5.239236	5.245546	409.8227
#3	5.269430	5.033645	25.91125	5.255667	5.276669	398.9943

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.912933**	**.5337179**	**2.606693**	**402.6336**	**16.23518**	**2.607961**
Stddev	.088502	.0009603	.003626	2.1912	.04532	.005374
%RSD	.8927946	.1799332	.1391004	.5442089	.2791773	.2060663
#1	9.916769	.5331971	2.603991	402.3945	16.24172	2.604958
#2	9.999455	.5348261	2.605274	404.9345	16.27688	2.604759
#3	9.822575	.5331304	2.610814	400.5718	16.18694	2.614165

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.72845**	**407.3363**	**14.97760**	**399.6196**	**2.605308**	**1.340373**
Stddev	.05236	.7099	.03974	1.1442	.008465	.002669
%RSD	.3555323	.1742679	.2653196	.2863209	.3248965	.1991125
#1	14.69115	407.5141	14.96391	399.5059	2.602383	1.342502
#2	14.78832	407.9404	15.02238	400.8164	2.598695	1.341238
#3	14.70589	406.5545	14.94652	398.5365	2.614848	1.337379

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**384.5646**	**2.514594**	**15.29756**	**159.3561**	**5.307222**	F **6.273370**
Stddev	2.1134	.010542	.03079	.1424	.013777	.011893
%RSD	.5495603	.4192382	.2012976	.0893765	.2595897	.1895773
#1	382.8799	2.505585	15.33310	159.4506	5.296940	6.262618
#2	386.9359	2.526188	15.27898	159.4253	5.301849	6.286145
#3	383.8779	2.512010	15.28059	159.1923	5.322876	6.271349

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCV021 Acquired: 1/27/2025 16:10:42 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV021 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.111177**	**5.337638**	**4.770677**	**5.218744**	**5.001700**	**5.019914**
Stddev	.011153	.008687	.018360	.008869	.014360	.007362
%RSD	.2182100	.1627483	.3848445	.1699507	.2871038	.1466601
#1	5.103810	5.327904	4.769514	5.219682	4.999300	5.023971
#2	5.105711	5.344603	4.789591	5.209444	5.017109	5.024355
#3	5.124008	5.340408	4.752927	5.227108	4.988691	5.011416

Elem	Sr4077
Units	ppm
Avg	**5.006941**
Stddev	.027015
%RSD	.5395558
#1	5.030959
#2	4.977694
#3	5.012171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2819.142**	**62661.27**	**10087.71**	**2017.870**	**3252.446**
Stddev	7.076	203.20	42.13	5.860	6.431
%RSD	.2509942	.3242758	.4176850	.2904170	.1977397
#1	2821.757	62566.29	10084.22	2011.530	3254.903
#2	2824.539	62522.95	10047.42	2023.088	3257.286
#3	2811.131	62894.56	10131.48	2018.993	3245.148

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCB021 Acquired: 1/27/2025 16:14:59 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB021 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000240**	**.0002790**	**.0017592**	**-.000893**	**.0008431**	**.0039258**	**.0007473**
Stddev	.000879	.0007821	.0006710	.001433	.0009156	.0008733	.0002446
%RSD	365.4732	280.3640	38.14375	160.5431	108.5972	22.24577	32.73223
#1	.000711	.0003364	.0018781	-.002517	.0001107	.0029898	.0006869
#2	-.000409	.0010308	.0010366	-.000356	.0005489	.0047189	.0010164
#3	-.001023	-.000530	.0023628	.000195	.0018695	.0040687	.0005385

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000076**	**.0000199**	**.0097190**	**.0002771**	**.0000192**	**-.000888**	**.0096743**
Stddev	.000025	.0000294	.0059402	.0001956	.0002774	.001065	.0042439
%RSD	32.61273	147.6864	61.11933	70.60548	1446.458	119.8381	43.86771
#1	-.000058	.0000081	.0044118	.0004571	-.000290	-.001318	.0119023
#2	-.000067	.0000534	.0086095	.0003052	.000245	.000324	.0047804
#3	-.000105	-.000002	.0161358	.0000689	.000103	-.001671	.0123402

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001748**	**-.018069**	**-.000023**	**-.000099**	**.0479992**	**.0004691**	**.0003386**
Stddev	.0000801	.009409	.000093	.000078	.0474877	.0009046	.0010801
%RSD	45.80385	52.07001	407.8628	78.54391	98.93426	192.8232	319.0232
#1	.0002426	-.015457	.000025	-.000188	.1024950	.0013194	.0012255
#2	.0000865	-.028507	-.000130	-.000067	.0260184	-.000481	.0006546
#3	.0001955	-.010242	.000036	-.000043	.0154843	.000569	-.000864

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0689899**	**.0007276**	**.0031957**	**.0003724**	**-.000084**	**.0002979**	**.0002368**
Stddev	.0327522	.0005464	.0004544	.0003805	.002627	.0023676	.0007130
%RSD	47.47394	75.09454	14.21803	102.1678	3131.081	794.6583	301.0318
#1	.0341189	.0001134	.0037006	-.000058	-.000440	.0010287	-.000221
#2	.0991029	.0009096	.0030665	.000663	-.002515	.0022141	-.000127
#3	.0737480	.0011597	.0028199	.000512	.002703	-.002349	.001058

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCB021 Acquired: 1/27/2025 16:14:59 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB021 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000204	.0002154	.0000720
Stddev	.000300	.0004162	.0000280
%RSD	147.0522	193.2214	38.87164
#1	-.000155	.0002608	.0000419
#2	-.000526	-.000222	.0000767
#3	.000068	.000607	.0000973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3690.812	75557.42	11181.15	2532.458	4640.577
Stddev	10.126	306.60	101.94	16.100	5.080
%RSD	.2743567	.4057839	.9117476	.6357350	.1094706
#1	3698.779	75362.68	11094.48	2529.985	4640.441
#2	3694.241	75398.73	11155.49	2517.738	4645.724
#3	3679.417	75910.83	11293.47	2549.651	4635.566

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-01DLX2 Acquired: 1/27/2025 16:19:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001871**	**-.001071**	**.0030862**	**-.008672**	**.0009223**	**-.137540**
Stddev	.002764	.002676	.0005973	.001402	.0011066	.006925
%RSD	147.6776	249.9592	19.35302	16.17118	119.9753	5.035109
#1	.000036	.000656	.0036614	-.008467	.0006992	-.129787
#2	-.000610	.000286	.0024691	-.010165	-.000056	-.143111
#3	-.005041	-.004154	.0031282	-.007383	.002123	-.139723

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1096313**	**.0000008**	**-.000081**	**522.2007**	**.1250440**	**-.001130**
Stddev	.0009902	.0000348	.000001	2.8420	.0004822	.000115
%RSD	.9032193	4473.689	1.484374	.5442290	.3856149	10.21092
#1	.1099157	.0000310	-.000080	523.5069	.1250837	-.001024
#2	.1085300	.0000086	-.000083	518.9405	.1245432	-.001253
#3	.1104481	-.000037	-.000081	524.1548	.1255051	-.001114

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001462**	**.0074229**	**.0004559**	**.0155994**	**-.000473**	**-.000675**
Stddev	.001145	.0044260	.0000357	.0178105	.000341	.000332
%RSD	78.31914	59.62625	7.835522	114.1742	72.10715	49.22786
#1	-.000969	.0124926	.0004379	.0338911	-.000842	-.000340
#2	-.000646	.0054483	.0004971	.0145943	-.000170	-.000680
#3	-.002770	.0043279	.0004328	-.001687	-.000406	-.001005

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.18763**	**-.000263**	**.0177900**	**56.27371**	**-.002708**	**.0259589**
Stddev	.25285	.000769	.0031812	.36109	.001061	.0011546
%RSD	1.917308	292.2133	17.88178	.6416701	39.19262	4.447589
#1	13.01954	-.000674	.0178167	56.33760	-.001608	.0260759
#2	13.47841	-.000740	.0209577	55.88494	-.003726	.0270505
#3	13.06493	.000624	.0145955	56.59859	-.002791	.0247503

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-01DLX2 Acquired: 1/27/2025 16:19:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0922617	F 123.5439	.0844550	-.003562	-.015946	.1352333
Stddev	.0004247	.2640	.0023689	.000232	.000668	.0006820
%RSD	.4603109	.2136568	2.804964	6.513970	4.189379	.5043109
#1	.0917756	123.2619	.0818698	-.003408	-.016079	.1358757
#2	.0924486	123.5849	.0865217	-.003450	-.015221	.1345176
#3	.0925609	123.7850	.0849736	-.003829	-.016538	.1353065

Elem	Sr4077
Units	ppm
Avg	2.609138
Stddev	.021437
%RSD	.8216290
#1	2.586212
#2	2.612515
#3	2.628686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3292.852	69482.23	10377.93	2320.423	3792.576
Stddev	13.238	381.90	37.74	6.702	11.513
%RSD	.4020292	.5496343	.3636287	.2888085	.3035798
#1	3308.053	69470.81	10403.28	2318.972	3805.861
#2	3286.648	69869.71	10334.56	2327.731	3786.378
#3	3283.855	69106.17	10395.96	2314.566	3785.490

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-02DLX2 Acquired: 1/27/2025 16:23:32 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040213	.0034701	.0127578	.0075141	.0040239	30.02319
Stddev	.0019886	.0010105	.0008136	.0016958	.0005879	.13712
%RSD	49.45223	29.11911	6.377400	22.56850	14.61041	.4567023
#1	.0022106	.0023089	.0126242	.0087038	.0038240	30.11996
#2	.0037037	.0039519	.0120193	.0082661	.0035620	30.08333
#3	.0061496	.0041495	.0136300	.0055723	.0046857	29.86628

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0368667	.0069503	.0047413	76.77702	.2047697	.2994923
Stddev	.0005268	.0001912	.0000834	.15736	.0009317	.0005317
%RSD	1.428827	2.750438	1.759667	.2049538	.4550173	.1775447
#1	.0363245	.0069577	.0047210	76.92572	.2050937	.2996489
#2	.0368990	.0067556	.0046699	76.79309	.2037192	.2988999
#3	.0373765	.0071377	.0048330	76.61224	.2054962	.2999282

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6014398	75.83876	16.48684	24.66050	.1138826	-.000369
Stddev	.0012387	.25188	.05339	.06355	.0005768	.000176
%RSD	.2059629	.3321229	.3238510	.2577084	.5064702	47.76793
#1	.6021431	76.07169	16.51405	24.71928	.1134540	-.000198
#2	.6000094	75.87314	16.52115	24.59306	.1136554	-.000551
#3	.6021667	75.57147	16.42533	24.66917	.1145384	-.000359

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.727452	.2146035	.6237325	4.386278	1.532138	.6440730
Stddev	.421141	.0023784	.0052419	.063672	.004807	.0014898
%RSD	5.449937	1.108281	.8404071	1.451620	.3137597	.2313021
#1	8.192109	.2171566	.6292212	4.446446	1.526801	.6456448
#2	7.619345	.2142035	.6231981	4.392788	1.533486	.6438923
#3	7.370903	.2124505	.6187783	4.319602	1.536128	.6426818

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-02DLX2 Acquired: 1/27/2025 16:23:32 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022023	F 202.6793	F 13.18894	-.000486	.0006017	.0297822
Stddev	.0003349	.4070	.01345	.000641	.0006920	.0003959
%RSD	15.20495	.2008132	.1019849	132.0815	115.0102	1.329444
#1	.0018557	202.3328	13.17342	-.001224	.0007909	.0293381
#2	.0022273	202.5776	13.19724	-.000169	-.000165	.0299103
#3	.0025240	203.1275	13.19615	-.000064	.001179	.0300982

Elem	Sr4077
Units	ppm
Avg	.5119958
Stddev	.0030156
%RSD	.5889811
#1	.5135558
#2	.5139118
#3	.5085198

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3966.383	84162.42	11975.70	2756.612	4189.398
Stddev	11.636	68.18	58.58	2.439	12.542
%RSD	.2933703	.0810076	.4891890	.0884778	.2993759
#1	3975.612	84110.91	12012.98	2754.291	4195.084
#2	3970.225	84239.73	12005.94	2759.154	4198.090
#3	3953.312	84136.62	11908.17	2756.391	4175.020

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-07DLX2 Acquired: 1/27/2025 16:27:29 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0765547	-.007371	.0101642	.0437739	.0236069	7.258971
Stddev	.0022352	.001444	.0024278	.0011102	.0011332	.028874
%RSD	2.919812	19.59397	23.88580	2.536308	4.800361	.3977706
#1	.0786102	-.005727	.0077369	.0426457	.0230087	7.250235
#2	.0741751	-.007951	.0101631	.0438108	.0249139	7.235474
#3	.0768786	-.008436	.0125925	.0448652	.0228982	7.291205

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513011	.0039154	.0056602	60.85525	.0492562	.3535934
Stddev	.0005609	.0002408	.0001082	.03489	.0003343	.0006770
%RSD	1.093397	6.150129	1.910976	.0573294	.6785928	.1914510
#1	.0510566	.0041468	.0057806	60.88187	.0490958	.3529025
#2	.0509040	.0039334	.0056287	60.81575	.0496404	.3536223
#3	.0519428	.0036662	.0055712	60.86812	.0490324	.3542555

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009171	306.5822	18.82885	17.54589	.0940428	.0012567
Stddev	.000936	.1289	.03667	.01330	.0005437	.0008006
%RSD	10.20411	.0420333	.1947456	.0757819	.5781751	63.70693
#1	-.008091	306.4344	18.86191	17.54276	.0943622	.0008951
#2	-.009671	306.6710	18.78941	17.56047	.0934150	.0007007
#3	-.009750	306.6413	18.83523	17.53444	.0943512	.0021742

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.748085	.3968887	.4734223	2.854195	.3303186	1.553936
Stddev	.229886	.0024936	.0070826	.042190	.0010931	.001669
%RSD	6.133417	.6282736	1.496039	1.478181	.3309139	.1073743
#1	3.996679	.3985377	.4770234	2.817343	.3293845	1.554790
#2	3.704399	.3981084	.4652628	2.900216	.3300506	1.555004
#3	3.543177	.3940201	.4779808	2.845026	.3315208	1.552013

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-07DLX2 Acquired: 1/27/2025 16:27:29 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003715	F 191.2106	4.509870	-.000277	-.000797	.0029586
Stddev	.000361	.3568	.008763	.000379	.000787	.0007551
%RSD	9.708998	.1866150	.1942976	137.0270	98.72948	25.52068
#1	-.003734	191.2549	4.505096	-.000433	.000030	.0038287
#2	-.003344	190.8338	4.519983	.000156	-.001537	.0025716
#3	-.004065	191.5433	4.504531	-.000553	-.000885	.0024755

Elem	Sr4077
Units	ppm
Avg	.5081389
Stddev	.0015674
%RSD	.3084605
#1	.5096678
#2	.5065357
#3	.5082131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3740.447	77854.06	11928.67	2557.659	4218.931
Stddev	13.682	229.78	56.84	3.681	13.870
%RSD	.3657742	.2951412	.4765135	.1439084	.3287631
#1	3754.800	77887.88	11941.90	2554.541	4231.700
#2	3738.988	77609.25	11866.39	2561.719	4220.920
#3	3727.554	78065.06	11977.74	2556.717	4204.174

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-12DLX2 Acquired: 1/27/2025 16:31:28 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033932**	**.0046568**	**.0061094**	**.0007923**	**-.000234**	**34.49029**
Stddev	.0023400	.0003692	.0015152	.0008397	.001975	.23009
%RSD	68.96097	7.927845	24.80111	105.9906	842.5493	.6671264
#1	.0006942	.0050708	.0066647	.0011199	.001465	34.23203
#2	.0046327	.0043618	.0072686	.0014187	-.002402	34.56540
#3	.0048527	.0045377	.0043949	-.000162	.000233	34.67345

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0429292**	**.0092938**	**.0039972**	**124.1793**	**.0217645**	**.3746265**
Stddev	.0005916	.0000630	.0000300	.4599	.0001318	.0006695
%RSD	1.378099	.6776033	.7518933	.3703424	.6057791	.1787057
#1	.0431233	.0093080	.0040091	123.6571	.0218493	.3743495
#2	.0422649	.0092250	.0039631	124.5239	.0218315	.3741399
#3	.0433993	.0093485	.0040196	124.3570	.0216126	.3753900

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8261859**	**36.60855**	**29.54168**	**30.52424**	**.1044800**	**.0032825**
Stddev	.0011335	.12533	.29967	.09323	.0002706	.0001973
%RSD	.1371901	.3423585	1.014407	.3054455	.2589642	6.009848
#1	.8251606	36.46660	29.37197	30.41775	.1042447	.0031775
#2	.8274030	36.70394	29.36538	30.56380	.1047757	.0031599
#3	.8259942	36.65511	29.88769	30.59117	.1044197	.0035100

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.88668**	**.1492915**	**1.123658**	**12.51410**	**4.962538**	**.4269650**
Stddev	.23901	.0010405	.006799	.11301	.009519	.0006203
%RSD	1.721180	.6969507	.6051118	.9030802	.1918184	.1452859
#1	13.65929	.1491025	1.117482	12.38502	4.965667	.4274693
#2	13.86490	.1483585	1.130944	12.59523	4.951848	.4262723
#3	14.13583	.1504136	1.122548	12.56205	4.970098	.4271532

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1106-12DLX2 Acquired: 1/27/2025 16:31:28 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8H6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000897	F 226.2879	F 16.59609	-.001728	-.002615	.0308780
Stddev	.000281	.0461	.04745	.000538	.000149	.0002590
%RSD	31.37630	.0203604	.2859251	31.10310	5.686860	.8386527
#1	-.001173	226.3068	16.64826	-.001412	-.002756	.0305929
#2	-.000907	226.2354	16.58452	-.001424	-.002630	.0309425
#3	-.000610	226.3216	16.55549	-.002349	-.002459	.0310986

Elem	Sr4077
Units	ppm
Avg	.6979582
Stddev	.0037697
%RSD	.5401034
#1	.6937754
#2	.7010930
#3	.6990063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3975.070	83843.82	13030.79	2763.387	4005.833
Stddev	1.519	388.15	41.50	6.033	.412
%RSD	.0382028	.4629461	.3184464	.2183273	.0102762
#1	3974.028	84237.58	13003.08	2768.494	4005.792
#2	3974.370	83832.36	13078.50	2756.730	4006.264
#3	3976.813	83461.53	13010.80	2764.937	4005.444

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1045-17DLX2 Acquired: 1/27/2025 16:39:31 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221622**	**-.003568**	**.5047582**	**-.002136**	**.0100102**	**14.59530**
Stddev	.0018003	.000697	.0010083	.004792	.0005898	.06943
%RSD	8.123368	19.53768	.1997627	224.3641	5.892011	.4757280
#1	.0204450	-.004093	.5036082	.000207	.0105792	14.67345
#2	.0240354	-.003833	.5051758	-.007648	.0100497	14.57177
#3	.0220061	-.002777	.5054906	.001034	.0094016	14.54070

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.98728**	**.0019890**	**.0034838**	F **906.0691**	**.0522391**	**.0243162**
Stddev	.14036	.0000785	.0000421	7.9233	.0002950	.0004460
%RSD	.7392081	3.948276	1.208736	.8744746	.5646355	1.834349
#1	18.98675	.0019551	.0035276	904.0242	.0525783	.0244169
#2	19.12790	.0019331	.0034800	899.3687	.0520970	.0247033
#3	18.84719	.0020787	.0034437	914.8145	.0520422	.0238284

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.202630**	**63.78684**	**7.411170**	**459.5242**	**.0282611**	**-.000391**
Stddev	.006199	.28654	.024115	1.2357	.0006157	.000316
%RSD	.5154605	.4492166	.3253822	.2689141	2.178442	80.78744
#1	1.207922	64.10439	7.438886	460.8338	.0287015	-.000085
#2	1.195810	63.70854	7.394990	459.3601	.0275576	-.000371
#3	1.204159	63.54759	7.399634	458.3788	.0285242	-.000716

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.21669**	**.0728870**	**.7639608**	**1.597042**	**1.678404**	**.2882971**
Stddev	.05847	.0002159	.0083913	.046310	.002908	.0012750
%RSD	4.805811	.2962653	1.098396	2.899744	.1732619	.4422369
#1	-1.27679	.0730845	.7550303	1.621808	1.676576	.2890939
#2	-1.15999	.0726564	.7651706	1.543614	1.681757	.2889708
#3	-1.21330	.0729200	.7716816	1.625702	1.676878	.2868267

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1045-17DLX2 Acquired: 1/27/2025 16:39:31 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: GCQ12 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014713	6.443462	5.708219	-.001184	.3076573	.0276306
Stddev	.0000920	.004112	.016460	.000017	.0021794	.0004775
%RSD	6.255516	.0638127	.2883506	1.410870	.7083937	1.728330
#1	.0015403	6.447573	5.689354	-.001197	.3096275	.0274336
#2	.0015069	6.443465	5.719652	-.001189	.3080282	.0281751
#3	.0013668	6.439349	5.715651	-.001165	.3053162	.0272830

Elem	Sr4077
Units	ppm
Avg	.3989473
Stddev	.0019730
%RSD	.4945455
#1	.4012175
#2	.3979776
#3	.3976469

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3126.716	66020.81	10636.49	2166.701	3414.465
Stddev	2.733	80.85	39.66	11.464	5.444
%RSD	.0874072	.1224682	.3728349	.5291104	.1594378
#1	3123.671	65927.57	10678.15	2171.936	3408.307
#2	3128.955	66071.61	10632.10	2174.614	3418.637
#3	3127.522	66063.24	10599.20	2153.554	3416.452

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: PB166225TB Acquired: 1/27/2025 16:43:49 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB225 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010425**	**.0013899**	**.0006659**	**-.000616**	**-.001122**	**-.002431**	**.0041765**
Stddev	.0010358	.0005279	.0003721	.001087	.000746	.007445	.0008370
%RSD	99.35564	37.97937	55.88445	176.4421	66.50573	306.2388	20.04122
#1	.0003438	.0019965	.0007529	-.001598	-.001856	-.008757	.0050291
#2	.0005512	.0011382	.0002580	.000552	-.001147	.005773	.0041442
#3	.0022326	.0010350	.0009868	-.000802	-.000364	-.004309	.0033560

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000031**	**.0000408**	**.0191408**	**-.000068**	**-.000049**	**-.001684**	**.0097478**
Stddev	.000051	.0000607	.0110816	.000241	.000041	.000600	.0043964
%RSD	164.2834	149.0309	57.89510	357.2788	82.58917	35.61057	45.10099
#1	-.000070	.0000923	.0304511	-.000307	-.000032	-.001177	.0132161
#2	-.000049	-.000026	.0083030	.000175	-.000020	-.002345	.0112241
#3	.000026	.000056	.0186683	-.000071	-.000096	-.001529	.0048033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017155**	**.0018228**	**.0001478**	**-.000129**	**-.171517**	**.0003380**	**.0014895**
Stddev	.0001351	.0095514	.0002484	.000422	.391376	.0009110	.0014100
%RSD	7.873417	523.9997	168.0029	328.1876	228.1850	269.5213	94.66141
#1	.0018634	-.004693	.0002941	-.000613	-.612298	.0003915	-.000054
#2	.0016847	.012787	.0002883	.000160	-.037496	.0012211	.002710
#3	.0015986	-.002625	-.000139	.000067	.135242	-.000599	.001812

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-1.43935**	**.0014230**	**-.001665**	**.0000709**	**7.549383**	**-.001865**	**-.000140**
Stddev	.02563	.0007661	.000729	.0002335	.010912	.003302	.000109
%RSD	1.780927	53.83860	43.79692	329.5988	.1445385	177.0168	78.07670
#1	-1.46828	.0022875	-.001223	-.000157	7.561151	.001740	-.000023
#2	-1.43030	.0008280	-.002507	.000310	7.547400	-.002595	-.000239
#3	-1.41947	.0011537	-.001265	.000059	7.539599	-.004741	-.000157

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: PB166225TB Acquired: 1/27/2025 16:43:49 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB225 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0010247	-.002276	-.000014
Stddev	.0002770	.001172	.000008
%RSD	27.03123	51.50718	52.48912
#1	.0010203	-.003089	-.000023
#2	.0007499	-.000932	-.000009
#3	.0013039	-.002808	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3815.796	79421.72	11486.41	2670.094	4838.271
Stddev	17.913	538.06	69.37	15.303	14.903
%RSD	.4694406	.6774712	.6039401	.5731163	.3080199
#1	3834.858	78822.23	11565.65	2658.646	4854.874
#2	3813.219	79862.77	11456.98	2687.475	4833.885
#3	3799.311	79580.17	11436.61	2664.163	4826.053

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-01 Acquired: 1/27/2025 16:47:57 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060448**	**.0050903**	**.0109529**	**.0047741**	**.0002074**	**77.99161**
Stddev	.0020790	.0003040	.0013435	.0016701	.0011297	.47931
%RSD	34.39287	5.971580	12.26631	34.98357	544.7990	.6145650
#1	.0082447	.0052638	.0115859	.0028948	-.000130	78.30807
#2	.0041128	.0047393	.0094098	.0060887	-.000715	77.44015
#3	.0057768	.0052677	.0118630	.0053387	.001467	78.22661

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0943564**	**.0034820**	**.0121082**	**93.30189**	**.0583490**	**1.490300**
Stddev	.0011167	.0001043	.0000284	.33712	.0002815	.002560
%RSD	1.183434	2.996657	.2343524	.3613257	.4825291	.1717450
#1	.0956075	.0033693	.0121393	93.64214	.0586741	1.487351
#2	.0934606	.0035015	.0121013	92.96798	.0581857	1.491943
#3	.0940012	.0035752	.0120839	93.29554	.0581871	1.491607

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8522279**	**47.26364**	**11.83362**	**46.82327**	**.7991922**	**.0003580**
Stddev	.0005327	.13160	.05604	.12298	.0015810	.0002125
%RSD	.0625119	.2784288	.4735913	.2626433	.1978186	59.36746
#1	.8528102	47.35589	11.88838	46.96441	.7974634	.0005751
#2	.8521086	47.11295	11.77637	46.76626	.7995486	.0003486
#3	.8517650	47.32208	11.83611	46.73914	.8005645	.0001503

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.305030**	**.1471073**	**1.035040**	**9.769803**	**4.615478**	**.6530935**
Stddev	.255728	.0020456	.006641	.081928	.008949	.0028691
%RSD	4.055942	1.390566	.6416469	.8385851	.1938835	.4393146
#1	6.079594	.1468367	1.034931	9.782437	4.620512	.6535967
#2	6.582918	.1492748	1.028454	9.682291	4.620776	.6556778
#3	6.252578	.1452104	1.041735	9.844680	4.605146	.6500061

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-01 Acquired: 1/27/2025 16:47:57 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000538	F 327.7085	F 28.08739	-.002787	.0956077	.1101415
Stddev	.000247	.5630	.12764	.001455	.0003903	.0011923
%RSD	45.94328	.1717987	.4544558	52.20403	.4082674	1.082541
#1	-.000271	327.2385	28.17352	-.002364	.0959875	.1111506
#2	-.000759	328.3325	28.14791	-.004407	.0956281	.1088258
#3	-.000584	327.5546	27.94075	-.001591	.0952076	.1104480

Elem	Sr4077
Units	ppm
Avg	.3989891
Stddev	.0030409
%RSD	.7621518
#1	.4010249
#2	.3954935
#3	.4004488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4380.197	91004.34	14095.90	3041.527	4135.943
Stddev	13.553	92.09	82.61	17.068	10.361
%RSD	.3094191	.1011939	.5860753	.5611506	.2505007
#1	4393.689	90917.66	14103.04	3055.849	4147.883
#2	4380.319	91101.02	14009.95	3046.090	4130.623
#3	4366.584	90994.34	14174.72	3022.641	4129.324

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-02 Acquired: 1/27/2025 16:56:08 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146953**	**.0072248**	**.0088653**	**-.003959**	**-.003280**	**32.01960**
Stddev	.0011960	.0009187	.0010527	.000727	.000788	.20203
%RSD	8.138760	12.71578	11.87384	18.35634	24.04128	.6309524
#1	.0154020	.0062729	.0089186	-.003441	-.002811	31.97911
#2	.0133144	.0072954	.0077871	-.004790	-.004190	31.84087
#3	.0153694	.0081062	.0098904	-.003646	-.002838	32.23880

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0394623**	**.0026067**	**.0016662**	**54.41217**	**.0293643**	**.1098856**
Stddev	.0005846	.0000199	.0000761	.32742	.0003179	.0002392
%RSD	1.481376	.7651375	4.565057	.6017358	1.082426	.2176906
#1	.0398189	.0026268	.0017488	54.44298	.0290969	.1101490
#2	.0387877	.0025869	.0016508	54.07043	.0292802	.1096819
#3	.0397804	.0026063	.0015991	54.72309	.0297157	.1098259

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1203837**	**11.50054**	**2.237321**	**23.99326**	**.1030756**	**-.002314**
Stddev	.0003464	.07753	.010144	.18445	.0005389	.000063
%RSD	.2877549	.6741274	.4533944	.7687730	.5228178	2.722136
#1	.1199937	11.50316	2.237865	24.03815	.1036880	-.002386
#2	.1205015	11.42174	2.226915	23.79051	.1028655	-.002284
#3	.1206559	11.57673	2.247181	24.15113	.1026735	-.002272

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.780586**	**.0234275**	**.5252356**	**13.52778**	**.6660636**	**.3095265**
Stddev	.177834	.0004196	.0021782	.12495	.0008540	.0020473
%RSD	6.395551	1.791124	.4147049	.9236865	.1282235	.6614314
#1	2.576558	.0229817	.5270634	13.49922	.6654154	.3106181
#2	2.902709	.0238148	.5228254	13.41958	.6670314	.3107966
#3	2.862489	.0234859	.5258181	13.66454	.6657441	.3071647

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-02 Acquired: 1/27/2025 16:56:08 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001577	F 320.3987	F 11.05320	-.002038	.0120930	.0234766
Stddev	.0001738	.2985	.05481	.001249	.0000875	.0007521
%RSD	110.1595	.0931642	.4958897	61.27886	.7232231	3.203746
#1	.0000656	320.7324	11.10429	-.002982	.0121489	.0226280
#2	.0003582	320.3065	11.06001	-.002510	.0121378	.0240609
#3	.0000494	320.1571	10.99530	-.000622	.0119922	.0237410

Elem	Sr4077
Units	ppm
Avg	.2763597
Stddev	.0016163
%RSD	.5848446
#1	.2763826
#2	.2747321
#3	.2779644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7597.578	159977.2	24561.43	5246.753	4129.489
Stddev	19.721	548.3	137.67	34.345	9.273
%RSD	.2595737	.3427189	.5605233	.6545931	.2245650
#1	7620.349	160032.9	24478.10	5237.933	4139.534
#2	7585.984	160495.4	24485.85	5284.648	4127.677
#3	7586.401	159403.1	24720.34	5217.679	4121.255

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1105-01DLX5 Acquired: 1/27/2025 17:00:07 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0656971	.0001636	.0698264	.0006272	.0057649	23.05545
Stddev	.0038691	.0007090	.0018252	.0013550	.0019793	.10822
%RSD	5.889318	433.4070	2.613943	216.0247	34.33386	.4694002
#1	.0692397	.0005807	.0698381	-.000367	.0039624	23.16519
#2	.0662833	.0005651	.0716458	.002171	.0054492	22.94881
#3	.0615684	-.000655	.0679954	.000078	.0078831	23.05235

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2357544	.0009555	.0030419	553.2820	.0797812	.0113204
Stddev	.0013556	.0000443	.0000403	2.2756	.0001595	.0002174
%RSD	.5750148	4.639231	1.323916	.4112882	.1998890	1.920023
#1	.2365787	.0009856	.0030026	550.6623	.0799370	.0114542
#2	.2341898	.0009764	.0030399	554.4156	.0796183	.0110696
#3	.2364947	.0009046	.0030831	554.7681	.0797884	.0114374

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0731189	31.92654	1.064574	7.207608	.0301768	-.000609
Stddev	.0021673	.12517	.006641	.039268	.0000614	.000415
%RSD	2.964093	.3920639	.6238461	.5448101	.2035442	68.10831
#1	.0750303	32.06313	1.068409	7.246843	.0302378	-.001015
#2	.0735621	31.81731	1.056906	7.168308	.0301778	-.000626
#3	.0707642	31.89917	1.068408	7.207673	.0301149	-.000186

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3461497	.1261801	.4939139	6.325316	.5918018	.1650954
Stddev	.0677551	.0011234	.0011058	.053945	.0036404	.0005611
%RSD	19.57392	.8902807	.2238856	.8528501	.6151415	.3398498
#1	.3345839	.1249765	.4950878	6.345309	.5879339	.1650628
#2	.2849220	.1272008	.4928919	6.264228	.5951613	.1645514
#3	.4189432	.1263631	.4937621	6.366410	.5923101	.1656721

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1105-01DLX5 Acquired: 1/27/2025 17:00:07 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8G3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0926339	F 12.18106	1.885746	.0040527	1.346987	.0309748
Stddev	.0003166	.03607	.006763	.0008172	.003486	.0007464
%RSD	.3417974	.2961211	.3586245	20.16390	.2588273	2.409826
#1	.0926814	12.19142	1.881104	.0037955	1.344718	.0309472
#2	.0922962	12.14094	1.882629	.0049676	1.345240	.0317347
#3	.0929241	12.21081	1.893505	.0033951	1.351001	.0302426

Elem	Sr4077
Units	ppm
Avg	.5863565
Stddev	.0050921
%RSD	.8684353
#1	.5915014
#2	.5813189
#3	.5862492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3319.201	69850.79	10945.93	2311.046	3712.855
Stddev	3.366	205.63	76.54	5.135	6.362
%RSD	.1014023	.2943799	.6992610	.2221891	.1713559
#1	3315.451	69951.69	11033.55	2313.371	3705.510
#2	3321.960	69986.48	10912.18	2305.160	3716.439
#3	3320.193	69614.20	10892.07	2314.608	3716.618

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-03 Acquired: 1/27/2025 17:04:17 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0152263**	**.0054877**	**.0074558**	**-.002623**	**-.003462**	**31.74589**
Stddev	.0015723	.0006744	.0018942	.000432	.000841	.08404
%RSD	10.32620	12.28864	25.40574	16.46064	24.30105	.2647124
#1	.0144038	.0057737	.0075108	-.002493	-.004357	31.69793
#2	.0142358	.0047175	.0093220	-.003105	-.003341	31.84292
#3	.0170392	.0059720	.0055348	-.002271	-.002688	31.69682

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0410652**	**.0026765**	**.0016509**	**54.55599**	**.0291932**	**.1091885**
Stddev	.0003593	.0000425	.0000343	.17085	.0001008	.0001778
%RSD	.8749177	1.586545	2.078986	.3131589	.3451618	.1628289
#1	.0414687	.0027198	.0016202	54.65499	.0292951	.1093322
#2	.0409470	.0026350	.0016445	54.65426	.0291907	.1089897
#3	.0407799	.0026746	.0016879	54.35871	.0290936	.1092435

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1222387**	**11.44020**	**2.271326**	**24.11338**	**.1017429**	**-.002560**
Stddev	.0007545	.02061	.007946	.06782	.0004882	.000180
%RSD	.6172579	.1801372	.3498290	.2812648	.4798204	7.028492
#1	.1228597	11.42995	2.278380	24.16140	.1022993	-.002767
#2	.1213990	11.46392	2.272881	24.14295	.1013864	-.002471
#3	.1224574	11.42672	2.262718	24.03580	.1015430	-.002441

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.993151**	**.0245857**	**.5220601**	**13.29924**	**.6864713**	**.3123202**
Stddev	.208066	.0006501	.0042167	.08781	.0032009	.0011700
%RSD	6.951414	2.644084	.8076996	.6602837	.4662847	.3746296
#1	2.768918	.0238979	.5262359	13.22340	.6900884	.3120533
#2	3.030561	.0246693	.5178037	13.39544	.6840043	.3113066
#3	3.179975	.0251899	.5221407	13.27887	.6853213	.3136006

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-03 Acquired: 1/27/2025 17:04:17 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000714	F 321.7125	F 11.40273	-.001358	.0116570	.0239460
Stddev	.0000408	1.0756	.04116	.000388	.0003529	.0002275
%RSD	57.15944	.3343459	.3609461	28.58299	3.027142	.9500525
#1	.0000998	322.5493	11.45016	-.001803	.0112547	.0238840
#2	.0000898	320.4993	11.37633	-.001187	.0119143	.0241981
#3	.0000246	322.0891	11.38172	-.001085	.0118020	.0237560

Elem	Sr4077
Units	ppm
Avg	.2785562
Stddev	.0010410
%RSD	.3737124
#1	.2784354
#2	.2796523
#3	.2775808

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7633.366	160162.5	24234.49	5379.271	4140.956
Stddev	11.566	74.0	82.18	26.985	9.335
%RSD	.1515190	.0462248	.3390916	.5016507	.2254363
#1	7646.688	160092.5	24156.22	5349.900	4150.403
#2	7627.515	160154.9	24320.08	5402.969	4140.726
#3	7625.894	160240.0	24227.17	5384.944	4131.737

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-02LX5 Acquired: 1/27/2025 17:08:16 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052004**	**.0008728**	**.0024617**	**-.002073**	**-.001698**	**10.57208**
Stddev	.0015544	.0006597	.0017661	.000749	.000419	.05116
%RSD	29.88908	75.58023	71.74420	36.10319	24.66358	.4839095
#1	.0069199	.0010885	.0006126	-.001224	-.001899	10.52067
#2	.0047865	.0001323	.0026414	-.002637	-.001979	10.62298
#3	.0038950	.0013977	.0041310	-.002358	-.001217	10.57260

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122575**	**.0009101**	**.0002418**	**18.20564**	**.0099149**	**.0213033**
Stddev	.0008015	.0000562	.0000662	.10482	.0000388	.0001014
%RSD	6.538551	6.173710	27.40004	.5757756	.3914376	.4757493
#1	.0120106	.0009479	.0002822	18.08516	.0098880	.0212579
#2	.0131533	.0008455	.0001653	18.27593	.0099594	.0212326
#3	.0116084	.0009369	.0002779	18.25583	.0098972	.0214195

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0426056**	**3.900429**	**.7636094**	**7.936518**	**.0201207**	**-.001125**
Stddev	.0009304	.021865	.0049122	.034016	.0004661	.000133
%RSD	2.183748	.5605879	.6432833	.4285966	2.316494	11.80679
#1	.0431653	3.875749	.7580854	7.897264	.0202672	-.001270
#2	.0431199	3.917382	.7674865	7.957324	.0195989	-.001009
#3	.0415316	3.908156	.7652563	7.954967	.0204959	-.001096

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7899448**	**.0084408**	**.1734866**	**4.250642**	**.1288588**	**.1120423**
Stddev	.1757672	.0012575	.0035375	.044590	.0012643	.0016504
%RSD	22.25057	14.89777	2.039055	1.049007	.9811662	1.473060
#1	.6024390	.0071436	.1697325	4.233932	.1294548	.1138827
#2	.9509680	.0085246	.1767578	4.216822	.1297150	.1106935
#3	.8164274	.0096544	.1739696	4.301173	.1274067	.1115508

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-02LX5 Acquired: 1/27/2025 17:08:16 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002004	F 61.55930	3.888666	-.000660	.0043662	.0079643
Stddev	.0003422	.10074	.001119	.000373	.0003962	.0009854
%RSD	170.7360	.1636423	.0287828	56.60599	9.074269	12.37271
#1	-.000182	61.47419	3.888250	-.000336	.0048232	.0068283
#2	.000478	61.53319	3.889934	-.001068	.0041546	.0085886
#3	.000305	61.67052	3.887815	-.000574	.0041206	.0084759

Elem	Sr4077
Units	ppm
Avg	.0914938
Stddev	.0005927
%RSD	.6477625
#1	.0908124
#2	.0917796
#3	.0918893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4529.693	93399.80	13616.40	3112.835	4496.200
Stddev	6.441	175.94	81.74	18.706	1.990
%RSD	.1421853	.1883722	.6003409	.6009370	.0442530
#1	4523.787	93544.90	13532.41	3133.262	4494.653
#2	4528.731	93450.41	13695.69	3108.702	4495.504
#3	4536.560	93204.11	13621.10	3096.541	4498.445

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-04 Acquired: 1/27/2025 17:12:18 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313922	.0528880	.0276423	.0423731	.0383515	33.47322
Stddev	.0004567	.0011993	.0014590	.0011370	.0001345	.15224
%RSD	1.454746	2.267611	5.278252	2.683230	.3506104	.4548004
#1	.0308795	.0525535	.0289325	.0432302	.0383080	33.29936
#2	.0317553	.0542190	.0279354	.0410833	.0382441	33.53765
#3	.0315418	.0518914	.0260590	.0428059	.0385023	33.58264

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9068185	.0261158	.0516259	55.55499	.1290278	.5995280
Stddev	.0065448	.0000744	.0000718	.21717	.0002632	.0003301
%RSD	.7217322	.2850422	.1391495	.3909171	.2039629	.0550631
#1	.8993203	.0261994	.0517055	55.31925	.1293292	.5998868
#2	.9113843	.0260918	.0516064	55.74692	.1289107	.5992373
#3	.9097509	.0260564	.0515659	55.59880	.1288435	.5994598

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2370482	12.17516	2.531310	24.51287	.5992398	.0153733
Stddev	.0009556	.04105	.013259	.05268	.0018094	.0000545
%RSD	.4031226	.3371209	.5237831	.2149105	.3019419	.3542126
#1	.2360077	12.13088	2.519590	24.48553	.5977888	.0154345
#2	.2372501	12.18267	2.545700	24.57360	.5986634	.0153549
#3	.2378866	12.21193	2.528638	24.47949	.6012671	.0153304

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.730885	.2512766	.7589184	13.66786	.6565574	.3093127
Stddev	.135791	.0003638	.0059688	.06052	.0045831	.0008817
%RSD	4.972415	.1447684	.7864908	.4427939	.6980496	.2850382
#1	2.575643	.2512550	.7520264	13.59838	.6548193	.3102082
#2	2.789423	.2516507	.7624104	13.70904	.6617553	.3084455
#3	2.827589	.2509241	.7623184	13.69618	.6530976	.3092844

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-04 Acquired: 1/27/2025 17:12:18 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001299	F 312.2732	F 11.27596	-.002844	.0112634	.0250535
Stddev	.0001539	.3386	.01853	.001653	.0001897	.0006125
%RSD	118.5316	.1084339	.1643265	58.12501	1.684113	2.444717
#1	.0000505	312.5714	11.28613	-.004602	.0114257	.0250458
#2	.0000318	311.9051	11.28718	-.001320	.0110549	.0256697
#3	.0003072	312.3432	11.25458	-.002610	.0113096	.0244448

Elem	Sr4077
Units	ppm
Avg	.2850887
Stddev	.0015318
%RSD	.5373211
#1	.2835999
#2	.2866602
#3	.2850059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7660.760	158822.1	24707.24	5241.464	4201.707
Stddev	12.862	282.7	68.37	20.668	5.656
%RSD	.1678999	.1780176	.2767069	.3943198	.1346080
#1	7670.811	159137.7	24629.83	5265.230	4206.404
#2	7665.204	158591.9	24759.37	5231.465	4203.290
#3	7646.265	158736.7	24732.53	5227.697	4195.429

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-05 Acquired: 1/27/2025 17:16:13 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051659**	**.0080284**	**.0045420**	**-.002454**	**-.001698**	**52.58885**
Stddev	.0013046	.0016762	.0018105	.002368	.001464	.18162
%RSD	25.25360	20.87857	39.86051	96.49439	86.18673	.3453650
#1	.0039481	.0068748	.0024622	-.004235	-.000059	52.79854
#2	.0050070	.0072594	.0057654	-.003359	-.002164	52.48734
#3	.0065427	.0099512	.0053984	.000233	-.002873	52.48068

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0537353**	**.0024195**	**.0050992**	**92.31056**	**.0301248**	**.3219934**
Stddev	.0006727	.0000520	.0001156	.39285	.0003151	.0010091
%RSD	1.251956	2.148719	2.267699	.4255745	1.045861	.3133772
#1	.0544578	.0023846	.0050009	92.76398	.0297802	.3211286
#2	.0536210	.0023946	.0050700	92.09571	.0303981	.3217497
#3	.0531269	.0024792	.0052266	92.07199	.0301960	.3231020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1971299**	**17.96318**	**5.633731**	**35.89504**	**.3134176**	**-.001314**
Stddev	.0009113	.07113	.027801	.17203	.0004718	.000052
%RSD	.4622903	.3959935	.4934697	.4792453	.1505436	3.952799
#1	.1978885	18.04468	5.662826	36.04204	.3133635	-.001274
#2	.1961190	17.93129	5.607437	35.93723	.3129751	-.001373
#3	.1973823	17.91357	5.630929	35.70584	.3139141	-.001295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.769775**	**.0021921**	**.7399914**	**6.727267**	**.2123960**	**.3886646**
Stddev	.200345	.0007401	.0046028	.067824	.0030088	.0003792
%RSD	5.314518	33.76389	.6220058	1.008200	1.416621	.0975606
#1	4.000039	.0029891	.7394904	6.802008	.2106336	.3890740
#2	3.673939	.0015264	.7356597	6.669637	.2106842	.3885943
#3	3.635348	.0020608	.7448242	6.710155	.2158702	.3883255

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-05 Acquired: 1/27/2025 17:16:13 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000400	F 328.4756	F 20.15239	-.001986	.0111241	.0523991
Stddev	.000352	.5327	.07429	.000887	.0001244	.0002973
%RSD	88.08178	.1621650	.3686608	44.67055	1.118182	.5673217
#1	-.000786	329.0106	20.23551	-.002482	.0110647	.0524136
#2	-.000319	328.4709	20.09246	-.000962	.0110407	.0520948
#3	-.000095	327.9453	20.12921	-.002514	.0112671	.0526888

Elem	Sr4077
Units	ppm
Avg	.5205397
Stddev	.0029637
%RSD	.5693589
#1	.5236052
#2	.5176895
#3	.5203245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6111.966	131382.3	20364.95	4240.821	4045.383
Stddev	11.896	153.1	33.86	14.595	7.324
%RSD	.1946405	.1165641	.1662813	.3441558	.1810538
#1	6099.767	131207.2	20372.75	4254.454	4042.335
#2	6123.535	131491.5	20327.87	4242.585	4053.739
#3	6112.597	131448.2	20394.24	4225.425	4040.074

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-06 Acquired: 1/27/2025 17:20:10 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649583	.0037192	.5889364	-.001837	.0015253	28.92558
Stddev	.0041580	.0035359	.0008769	.000489	.0013519	.08115
%RSD	6.401062	95.07320	.1489025	26.64546	88.63401	.2805576
#1	.0617158	-.000274	.5895694	-.001682	.0003683	28.83332
#2	.0696461	.004978	.5879355	-.002385	.0011963	28.98594
#3	.0635128	.006453	.5893044	-.001444	.0030114	28.95748

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0733786	.0086223	.0206620	120.2955	.0338231	.3450497
Stddev	.0008762	.0000251	.0001289	.2437	.0003528	.0006772
%RSD	1.194017	.2914176	.6238548	.2025673	1.043035	.1962723
#1	.0724304	.0085951	.0206044	120.1896	.0342282	.3448035
#2	.0735473	.0086272	.0205720	120.1228	.0335837	.3445300
#3	.0741582	.0086446	.0208097	120.5742	.0336574	.3458156

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.320301	33.57976	17.26317	45.75559	.3821590	.0013749
Stddev	.005230	.11140	.03529	.12171	.0002421	.0001981
%RSD	.3961051	.3317569	.2044146	.2660018	.0633465	14.40791
#1	1.325939	33.45508	17.24751	45.64541	.3820190	.0013524
#2	1.315608	33.61466	17.23842	45.73512	.3820194	.0015833
#3	1.319357	33.66953	17.30358	45.88624	.3824385	.0011891

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.304636	.0431899	3.381917	6.733963	.3025923	1.153607
Stddev	.315688	.0007789	.020876	.037241	.0009047	.003698
%RSD	3.392799	1.803476	.6172933	.5530284	.2989687	.3205809
#1	9.013940	.0424227	3.392210	6.695508	.3035740	1.157812
#2	9.640459	.0431670	3.357892	6.769857	.3024105	1.150862
#3	9.259510	.0439800	3.395647	6.736526	.3017923	1.152147

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-06 Acquired: 1/27/2025 17:20:10 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001662**	F **337.0246**	F **10.12680**	**-.002645**	**.0048544**	**.0177647**
Stddev	.000226	.4403	.01746	.000511	.0007995	.0005693
%RSD	13.60881	.1306328	.1724001	19.32172	16.46933	3.204734
#1	-.001831	336.5190	10.14692	-.003164	.0040605	.0175797
#2	-.001750	337.2317	10.11779	-.002143	.0056593	.0184035
#3	-.001405	337.3232	10.11569	-.002627	.0048434	.0173108

Elem	Sr4077
Units	ppm
Avg	**.8780764**
Stddev	.0050601
%RSD	.5762692
#1	.8836022
#2	.8769576
#3	.8736693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4059.311**	**90445.88**	**13685.08**	**2868.480**	**4067.723**
Stddev	8.012	204.94	36.07	14.512	7.561
%RSD	.1973798	.2265901	.2635866	.5059092	.1858812
#1	4067.318	90564.17	13647.15	2856.353	4076.009
#2	4059.323	90564.24	13718.96	2884.558	4065.962
#3	4051.293	90209.23	13689.13	2864.528	4061.198

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-07 Acquired: 1/27/2025 17:24:13 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237312	.0005166	.0138606	.0130153	.0059713	71.97623
Stddev	.0014283	.0032539	.0010037	.0015973	.0006709	.38087
%RSD	6.018807	629.8127	7.241633	12.27270	11.23594	.5291641
#1	.0227159	.0033416	.0133310	.0137158	.0053303	71.84652
#2	.0231132	.0012495	.0150182	.0111874	.0059149	71.67716
#3	.0253645	-.003041	.0132325	.0141428	.0066686	72.40502

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0846911	.0065217	.0051412	85.73584	.0890874	.2521792
Stddev	.0004743	.0000868	.0000939	.30832	.0002761	.0010670
%RSD	.5600794	1.330728	1.825441	.3596155	.3098866	.4231133
#1	.0841631	.0065020	.0051593	85.58854	.0892749	.2532244
#2	.0850812	.0066166	.0052247	85.52880	.0892169	.2510916
#3	.0848291	.0064464	.0050396	86.09018	.0887704	.2522217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3590273	110.5699	8.184525	71.45542	.3879786	-.000062
Stddev	.0015901	.4301	.035627	.23757	.0013897	.000204
%RSD	.4428811	.3889669	.4353018	.3324741	.3581946	327.4755
#1	.3586456	110.4290	8.152942	71.42745	.3895735	-.000100
#2	.3576628	110.2279	8.177488	71.23307	.3870271	.000158
#3	.3607734	111.0528	8.223147	71.70574	.3873353	-.000246

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.18044	.0943229	1.985829	2.998007	.2204876	1.686733
Stddev	.14762	.0010972	.010041	.036916	.0033437	.004697
%RSD	.9724260	1.163209	.5056114	1.231342	1.516509	.2784399
#1	15.09212	.0939365	1.974474	3.022204	.2213310	1.690078
#2	15.35086	.0955610	1.993531	2.955517	.2168029	1.688757
#3	15.09834	.0934711	1.989483	3.016299	.2233288	1.681363

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-07 Acquired: 1/27/2025 17:24:13 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001592	F 613.0205	F 26.69356	-.001363	.0186545	.0596581
Stddev	.000137	1.4544	.03138	.000996	.0007644	.0013183
%RSD	8.579628	.2372549	.1175579	73.01530	4.097599	2.209757
#1	-.001691	613.9802	26.70277	-.000697	.0190570	.0581394
#2	-.001437	611.3471	26.71930	-.002508	.0177730	.0603281
#3	-.001650	613.7341	26.65860	-.000886	.0191336	.0605068

Elem	Sr4077
Units	ppm
Avg	.6343842
Stddev	.0039636
%RSD	.6247918
#1	.6318053
#2	.6323993
#3	.6389481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4675.119	96939.80	15473.21	3178.663	4130.867
Stddev	9.613	41.16	84.41	13.120	12.544
%RSD	.2056272	.0424578	.5455400	.4127569	.3036681
#1	4666.493	96952.24	15434.40	3185.366	4117.446
#2	4685.483	96973.30	15415.19	3163.545	4142.296
#3	4673.380	96893.85	15570.05	3187.077	4132.858

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-08 Acquired: 1/27/2025 17:28:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101751	.0028440	.0067236	-.001021	.0002590	36.48779
Stddev	.0014887	.0021977	.0013575	.001316	.0009535	.07613
%RSD	14.63032	77.27734	20.18958	128.9135	368.0623	.2086438
#1	.0086824	.0038045	.0056805	-.002502	.0008233	36.40369
#2	.0116597	.0003295	.0062319	-.000575	.0007956	36.50770
#3	.0101833	.0043979	.0082583	.000015	-.000842	36.55199

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1109657	.0025176	.0005600	143.2165	.0362005	.0253966
Stddev	.0006193	.0001029	.0000884	.1895	.0003035	.0003764
%RSD	.5580869	4.087787	15.79378	.1322936	.8382805	1.482066
#1	.1111282	.0025534	.0006621	143.3746	.0365198	.0250546
#2	.1102814	.0025979	.0005126	143.0065	.0361657	.0253354
#3	.1114876	.0024016	.0005054	143.2685	.0359159	.0257998

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1640946	28.21181	2.597806	109.7811	.2058504	-.000421
Stddev	.0011429	.02164	.003564	.1136	.0004195	.000296
%RSD	.6964962	.0766976	.1372084	.1035203	.2037960	70.34235
#1	.1641050	28.19109	2.601564	109.9003	.2053890	-.000347
#2	.1629465	28.21007	2.594473	109.6739	.2059534	-.000747
#3	.1652322	28.23426	2.597382	109.7690	.2062089	-.000169

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.76384	.0747643	1.588113	1.619744	.0625102	1.319696
Stddev	.03896	.0004597	.005582	.042123	.0004703	.002255
%RSD	.2193235	.6149100	.3514828	2.600603	.7524215	.1708746
#1	17.77759	.0743936	1.582262	1.649378	.0627423	1.318265
#2	17.79406	.0752787	1.588697	1.638329	.0628193	1.322295
#3	17.71987	.0746206	1.593380	1.571525	.0619689	1.318527

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-08 Acquired: 1/27/2025 17:28:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000871	F 348.3328	F 20.59377	-.004148	.0082838	.0549839
Stddev	.000059	.5863	.07179	.000238	.0008198	.0004466
%RSD	6.795040	.1683040	.3486125	5.726807	9.896904	.8122537
#1	-.000893	347.8682	20.66992	-.003886	.0091737	.0548696
#2	-.000915	348.1387	20.58408	-.004350	.0075592	.0546055
#3	-.000804	348.9915	20.52732	-.004208	.0081185	.0554765

Elem	Sr4077
Units	ppm
Avg	.9591637
Stddev	.0020144
%RSD	.2100160
#1	.9601093
#2	.9568504
#3	.9605313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3540.759	76154.68	11466.55	2500.913	4060.067
Stddev	11.904	46.56	35.52	3.711	14.490
%RSD	.3362060	.0611373	.3097439	.1483697	.3569022
#1	3549.796	76168.29	11453.29	2504.523	4071.968
#2	3545.209	76102.84	11439.57	2501.106	4064.302
#3	3527.270	76192.93	11506.79	2497.110	4043.931

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-09 Acquired: 1/27/2025 17:32:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2679724**	**.0024836**	**.1150756**	**.0032574**	**.0011077**	**9.270709**
Stddev	.0004943	.0004461	.0004512	.0014604	.0008812	.040387
%RSD	.1844641	17.96302	.3921007	44.83127	79.55164	.4356367
#1	.2674639	.0019743	.1147790	.0016133	.0014358	9.238525
#2	.2680020	.0028055	.1155949	.0044040	.0017779	9.257575
#3	.2684512	.0026708	.1148530	.0037550	.0001095	9.316028

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0820676**	**.0009172**	**.0068778**	**56.66956**	**.0354074**	**.0281982**
Stddev	.0009516	.0000043	.0000258	.18427	.0000934	.0001640
%RSD	1.159527	.4723792	.3749884	.3251733	.2637751	.5816993
#1	.0810194	.0009179	.0068500	56.49216	.0353061	.0283758
#2	.0823061	.0009125	.0068824	56.65650	.0354261	.0280524
#3	.0828772	.0009211	.0069009	56.86001	.0354901	.0281663

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8418186**	**21.56944**	**.3878933**	**7.256366**	**.2139934**	**-.000621**
Stddev	.0031331	.10124	.0010691	.030561	.0010451	.000180
%RSD	.3721804	.4693794	.2756103	.4211607	.4883877	29.04399
#1	.8404958	21.46848	.3870426	7.240414	.2130425	-.000425
#2	.8453961	21.56890	.3875440	7.237081	.2138253	-.000781
#3	.8395639	21.67096	.3890934	7.291602	.2151123	-.000658

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.662496**	**.0322170**	**.7986590**	**3.277232**	F **23.30781**	**.6869935**
Stddev	.295624	.0005633	.0026440	.041991	.06591	.0033704
%RSD	4.437137	1.748560	.3310604	1.281301	.2827694	.4906036
#1	6.895980	.0328653	.7957788	3.271273	23.23253	.6908549
#2	6.761409	.0318465	.7992219	3.238539	23.33581	.6854839
#3	6.330098	.0319392	.8009763	3.321885	23.35510	.6846419

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-09 Acquired: 1/27/2025 17:32:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013176	F 345.7872	4.860927	-.002182	.0060003	.0126905
Stddev	.0001393	1.0829	.012771	.000989	.0005115	.0006194
%RSD	10.57383	.3131714	.2627315	45.30860	8.525159	4.881034
#1	.0012651	344.5600	4.870521	-.003230	.0056946	.0131280
#2	.0014755	346.1930	4.865829	-.002053	.0065908	.0129617
#3	.0012121	346.6086	4.846431	-.001265	.0057154	.0119817

Elem	Sr4077
Units	ppm
Avg	.5899891
Stddev	.0024087
%RSD	.4082630
#1	.5872327
#2	.5910457
#3	.5916890

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3936.968	84671.35	12817.56	2811.068	4396.985
Stddev	10.473	113.96	71.15	10.773	11.298
%RSD	.2660212	.1345911	.5550893	.3832403	.2569450
#1	3948.038	84595.25	12738.03	2814.575	4409.520
#2	3935.650	84802.37	12839.46	2819.651	4393.849
#3	3927.216	84616.42	12875.17	2798.979	4387.587

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-10 Acquired: 1/27/2025 17:36:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.036306**	**.0001567**	**.1072746**	**.0026781**	**.0037340**	**24.69129**
Stddev	.005469	.0010509	.0015764	.0018464	.0004640	.03177
%RSD	.5276916	670.7230	1.469504	68.94653	12.42784	.1286741
#1	1.031313	-.000619	.1088880	.0030831	.0032773	24.68658
#2	1.035456	.001353	.1071978	.0006628	.0037196	24.66213
#3	1.042150	-.000264	.1057380	.0042884	.0042050	24.72515

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0635124**	**.0082794**	**.0126491**	**132.2111**	**.0833354**	**.0866976**
Stddev	.0003074	.0001177	.0001298	.3282	.0001827	.0003485
%RSD	.4840189	1.422029	1.025902	.2482589	.2192709	.4019505
#1	.0632270	.0082721	.0127989	132.2909	.0831531	.0869092
#2	.0638379	.0084006	.0125770	132.4921	.0835186	.0862954
#3	.0634723	.0081654	.0125712	131.8504	.0833346	.0868883

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0776568**	**54.51224**	**1.104892**	**21.19798**	**1.460985**	**-.002625**
Stddev	.0022067	.05869	.005648	.02836	.002534	.000172
%RSD	2.841583	.1076691	.5111674	.1337996	.1734315	6.559085
#1	.0790841	54.47650	1.109314	21.17630	1.462010	-.002823
#2	.0751152	54.48025	1.106832	21.23008	1.458099	-.002543
#3	.0787712	54.57998	1.098530	21.18757	1.462846	-.002509

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.938383**	**.0599271**	**1.579983**	**3.572895**	F **63.73352**	**.7046771**
Stddev	.047178	.0010489	.012695	.015517	.01933	.0014343
%RSD	.7944585	1.750279	.8034721	.4342839	.0303254	.2035372
#1	5.912839	.0587242	1.573885	3.581262	63.71717	.7059346
#2	5.909486	.0604065	1.594576	3.554990	63.72853	.7049818
#3	5.992825	.0606507	1.571487	3.582432	63.75485	.7031150

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-10 Acquired: 1/27/2025 17:36:09 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000255	F 342.9296	F 11.67344	-.002807	.0003494	.0467821
Stddev	.000325	.6410	.08983	.000128	.0003567	.0012359
%RSD	127.6202	.1869329	.7695454	4.567565	102.0949	2.641785
#1	.000011	342.4598	11.73254	-.002953	.0007581	.0454386
#2	-.000618	342.6690	11.71770	-.002709	.0001011	.0478705
#3	-.000159	343.6599	11.57006	-.002761	.0001888	.0470371

Elem	Sr4077
Units	ppm
Avg	.8514446
Stddev	.0117614
%RSD	1.381351
#1	.8546171
#2	.8612944
#3	.8384223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4896.774	102650.4	15394.56	3337.967	4200.743
Stddev	7.107	297.0	71.72	15.555	5.865
%RSD	.1451361	.2893298	.4658468	.4660085	.1396211
#1	4903.529	102858.6	15395.36	3355.548	4196.619
#2	4897.432	102310.3	15322.45	3325.992	4207.458
#3	4889.361	102782.4	15465.87	3332.361	4198.153

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-11 Acquired: 1/27/2025 17:40:14 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114080**	**.0041858**	**.0657403**	**.0118900**	**.0039465**	**44.93761**
Stddev	.0011816	.0013853	.0012297	.0015387	.0003305	.17998
%RSD	10.35769	33.09621	1.870580	12.94122	8.375507	.4005100
#1	.0101156	.0027532	.0661082	.0108530	.0039202	44.73146
#2	.0124329	.0042857	.0643686	.0136580	.0042893	45.01789
#3	.0116756	.0055185	.0667441	.0111591	.0036299	45.06348

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0737391**	**.0059673**	**.0250555**	**77.81420**	**.1606986**	**.0379511**
Stddev	.0005584	.0001140	.0000930	.17215	.0006200	.0003401
%RSD	.7572618	1.911146	.3712243	.2212346	.3858170	.8960872
#1	.0742371	.0060092	.0249600	77.77104	.1603897	.0381167
#2	.0738446	.0060543	.0250607	78.00383	.1614124	.0375600
#3	.0731354	.0058382	.0251458	77.66774	.1602937	.0381767

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0524678**	**84.48269**	**1.085738**	**23.18435**	**.2487825**	**-.001511**
Stddev	.0013903	.23369	.001339	.07782	.0006324	.000348
%RSD	2.649753	.2766187	.1233365	.3356456	.2541869	23.05572
#1	.0519732	84.27322	1.087221	23.18863	.2495031	-.001395
#2	.0513924	84.73475	1.085378	23.25994	.2483202	-.001235
#3	.0540377	84.44010	1.084616	23.10448	.2485241	-.001902

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.153134**	**.1245943**	**2.064897**	**11.07030**	F **30.36292**	**.8363844**
Stddev	.250344	.0002896	.006383	.07064	.04597	.0014060
%RSD	4.858083	.2324383	.3091387	.6381373	.1514152	.1681069
#1	5.037545	.1248920	2.059555	10.99063	30.38810	.8372633
#2	5.440387	.1243135	2.063170	11.12531	30.30986	.8371272
#3	4.981470	.1245775	2.071966	11.09497	30.39081	.8347628

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-11 Acquired: 1/27/2025 17:40:14 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012894	F 330.4668	F 19.77319	-.002149	.0096765	.0473262
Stddev	.0003265	.5046	.09423	.001547	.0006276	.0006338
%RSD	25.32209	.1527022	.4765521	72.02242	6.485528	1.339157
#1	.0010486	330.2642	19.88183	-.001770	.0103582	.0480304
#2	.0016610	330.0949	19.72408	-.000825	.0091228	.0468017
#3	.0011585	331.0412	19.71365	-.003850	.0095485	.0471464

Elem	Sr4077
Units	ppm
Avg	.2913034
Stddev	.0011583
%RSD	.3976208
#1	.2905534
#2	.2907195
#3	.2926375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4246.851	88730.18	13844.74	2895.281	4274.823
Stddev	5.189	320.41	64.80	7.522	3.643
%RSD	.1221848	.3611038	.4680226	.2598175	.0852231
#1	4245.650	88942.67	13804.97	2903.542	4274.952
#2	4252.535	88361.64	13809.73	2893.477	4278.399
#3	4242.367	88886.22	13919.51	2888.825	4271.116

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-12 Acquired: 1/27/2025 17:44:11 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069505**	**.0028762**	**.0101157**	**-.000179**	**-.002359**	**78.54679**
Stddev	.0023363	.0025393	.0028328	.001672	.000777	.33624
%RSD	33.61414	88.28476	28.00373	934.8931	32.93581	.4280706
#1	.0092189	.0036668	.0097674	-.000311	-.003169	78.86909
#2	.0070807	.0049262	.0131066	.001555	-.001620	78.19816
#3	.0045517	.0000357	.0074732	-.001780	-.002289	78.57312

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0854820**	**.0040633**	**.0091428**	**167.7603**	**.0802023**	**.8256059**
Stddev	.0004683	.0000505	.0001293	.3204	.0003465	.0018114
%RSD	.5478242	1.243643	1.414628	.1909669	.4320066	.2194060
#1	.0859985	.0041170	.0092379	168.1260	.0798703	.8236344
#2	.0853622	.0040560	.0089955	167.5290	.0805616	.8259866
#3	.0850852	.0040168	.0091949	167.6260	.0801748	.8271967

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2695093**	**14.66318**	**13.55782**	**73.13506**	**.5911144**	**.0018053**
Stddev	.0008104	.00946	.02904	.13296	.0017342	.0002150
%RSD	.3006982	.0645406	.2142098	.1818059	.2933695	11.90760
#1	.2690318	14.66869	13.59081	73.26860	.5899096	.0015681
#2	.2690511	14.65225	13.54653	73.13389	.5903317	.0018605
#3	.2704450	14.66859	13.53612	73.00267	.5931019	.0019873

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.393821**	**.0098201**	**1.251488**	**5.304848**	**1.501797**	**.6307729**
Stddev	.210270	.0015896	.006359	.014143	.008339	.0019675
%RSD	2.843861	16.18711	.5080783	.2666036	.5552885	.3119173
#1	7.151050	.0105822	1.258610	5.300388	1.497777	.6285011
#2	7.512027	.0108851	1.249472	5.320683	1.496229	.6319229
#3	7.518386	.0079929	1.246381	5.293472	1.511385	.6318948

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: Q1136-12 Acquired: 1/27/2025 17:44:11 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000385**	F **363.6503**	F **34.89908**	**-.002668**	**-.001743**	**.1728548**
Stddev	.000111	.7229	.06300	.000657	.000620	.0020598
%RSD	28.73565	.1987857	.1805341	24.61445	35.59520	1.191610
#1	-.000504	363.1550	34.89786	-.003049	-.002458	.1751146
#2	-.000367	363.3160	34.96269	-.001910	-.001428	.1710826
#3	-.000285	364.4798	34.83670	-.003046	-.001343	.1723672

Elem	Sr4077
Units	ppm
Avg	**1.132124**
Stddev	.003733
%RSD	.3296977
#1	1.131723
#2	1.136040
#3	1.128607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4216.196**	**90443.20**	**14372.87**	**2923.512**	**3992.914**
Stddev	8.777	136.88	81.74	12.048	13.397
%RSD	.2081644	.1513483	.5687063	.4121171	.3355312
#1	4224.629	90563.50	14444.30	2910.211	4004.355
#2	4216.846	90294.26	14283.73	2933.695	3996.211
#3	4207.112	90471.85	14390.58	2926.630	3978.176

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCV022 Acquired: 1/27/2025 17:57:23 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV022 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.927239**	**4.585303**	**24.24443**	**4.799041**	**4.838258**	**396.1362**
Stddev	.008675	.058521	.02554	.018675	.005590	6.3614
%RSD	.1760625	1.276272	.1053328	.3891468	.1155438	1.605874
#1	4.937225	4.652877	24.27386	4.810396	4.840449	403.4034
#2	4.922930	4.551443	24.22811	4.809240	4.831904	391.5760
#3	4.921563	4.551588	24.23133	4.777487	4.842420	393.4291

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.10107**	**.4860494**	**2.426584**	**401.8904**	**15.21873**	**2.431059**
Stddev	.04306	.0035858	.006067	2.3190	.12688	.002082
%RSD	.4262987	.7377333	.2500368	.5770334	.8336975	.0856560
#1	10.12369	.4867430	2.433337	403.9036	15.36089	2.432237
#2	10.05141	.4892376	2.424820	399.3547	15.17832	2.432285
#3	10.12810	.4821675	2.421593	402.4128	15.11698	2.428655

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.96209**	**402.3464**	**14.98204**	**393.8580**	**2.423222**	**1.267053**
Stddev	.10530	2.4413	.08366	2.4098	.001274	.010274
%RSD	.7037919	.6067661	.5583687	.6118468	.0525757	.8108917
#1	14.88812	405.0737	15.07528	396.6221	2.423673	1.278586
#2	15.08265	401.6003	14.95731	392.7534	2.424209	1.263698
#3	14.91549	400.3652	14.91355	392.1984	2.421784	1.258875

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**394.5294**	**2.436838**	**15.05304**	**154.8304**	**5.032598**	F **5.906798**
Stddev	3.0251	.012407	.08001	.7880	.011595	.032788
%RSD	.7667556	.5091602	.5315004	.5089571	.2303980	.5550872
#1	392.5425	2.431298	15.14514	155.7238	5.044957	5.916028
#2	398.0109	2.451050	15.01330	154.5331	5.021959	5.933981
#3	393.0350	2.428166	15.00069	154.2343	5.030880	5.870384

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCV022 Acquired: 1/27/2025 17:57:23 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV022 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.769774**	**4.945264**	F **3.116080**	**4.880760**	**4.946312**	**5.161619**
Stddev	.009066	.013581	.015077	.008337	.038046	.025375
%RSD	.1900710	.2746276	.4838585	.1708170	.7691809	.4916084
#1	4.780178	4.960732	3.116106	4.889115	4.931084	5.184791
#2	4.765574	4.939770	3.131144	4.880724	4.989613	5.165563
#3	4.763569	4.935291	3.100989	4.872440	4.918238	5.134503

Elem	Sr4077
Units	ppm
Avg	**4.824743**
Stddev	.015999
%RSD	.3316128
#1	4.807500
#2	4.827619
#3	4.839109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2936.858**	**65065.92**	**10709.19**	**2121.625**	**3366.945**
Stddev	3.204	437.03	56.54	14.513	2.762
%RSD	.1090964	.6716681	.5279990	.6840590	.0820212
#1	2935.055	64562.55	10722.89	2104.895	3365.579
#2	2940.558	65286.57	10647.05	2130.834	3370.123
#3	2934.962	65348.63	10757.63	2129.145	3365.132

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCB022 Acquired: 1/27/2025 18:01:41 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB022 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005722	.0003532	.0008554	.0008276	.0001706	.0034339	-.002395
Stddev	.0009579	.0003024	.0011805	.0016708	.0017160	.0081677	.000508
%RSD	167.3887	85.60831	138.0004	201.8857	1005.937	237.8572	21.19724
#1	.0016658	.0001190	.0017567	.0022160	-.000444	-.005084	-.002905
#2	.0001688	.0006945	-.000481	-.001027	.002109	.011200	-.002390
#3	-.000118	.0002460	.001290	.001294	-.001153	.004186	-.001889

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000083	.0000509	.0072949	.0004607	-.000058	-.000698	.0054757
Stddev	.000025	.0000079	.0060509	.0002145	.000111	.000493	.0013887
%RSD	30.38888	15.54500	82.94712	46.55501	190.6103	70.56862	25.36041
#1	-.000097	.0000543	.0089015	.0003098	.000066	-.001209	.0045854
#2	-.000097	.0000565	.0006028	.0007062	-.000093	-.000660	.0070758
#3	-.000054	.0000419	.0123805	.0003661	-.000148	-.000226	.0047659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001599	.0012677	-.000154	-.000681	-.231025	-.001817	.0000305
Stddev	.0001074	.0110158	.000374	.000325	.268275	.000362	.0018059
%RSD	67.17711	868.9694	242.4245	47.71457	116.1240	19.92451	5921.057
#1	.0000516	-.002192	-.000010	-.000347	.078681	-.001960	-.001884
#2	.0002663	.013598	.000126	-.000700	-.380092	-.001405	.001704
#3	.0001616	-.007603	-.000579	-.000996	-.391663	-.002086	.000272

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300465	.0002984	.0063706	.0004121	.0121522	-.001977	.0006184
Stddev	.0102863	.0011686	.0006315	.0004525	.0023244	.000597	.0005800
%RSD	34.23475	391.6700	9.913266	109.8017	19.12692	30.18437	93.78338
#1	.0198449	-.000976	.0069104	.0002747	.0143160	-.001814	.0000117
#2	.0298790	.001320	.0065252	.0009174	.0124455	-.001479	.0011674
#3	.0404156	.000551	.0056761	.0000443	.0096952	-.002639	.0006763

Reviewed By:kareem
On:1/28/2025 12:16:01 PM
Inst Id :P4

Sample Name: CCB022 Acquired: 1/27/2025 18:01:41 Type: Unk
Method: EPA SFAM01.0(v56) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB022 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000205	-.000108	.0000588
Stddev	.0007217	.000976	.0000467
%RSD	3516.252	901.2215	79.37170
#1	-.000812	.000252	.0000281
#2	.000407	.000636	.0000358
#3	.000467	-.001213	.0001126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3720.159	77571.77	11431.70	2565.133	4713.809
Stddev	10.188	155.77	9.00	19.343	9.803
%RSD	.2738598	.2008111	.0787356	.7540863	.2079661
#1	3718.972	77644.47	11427.10	2576.528	4710.141
#2	3730.888	77392.94	11442.07	2542.799	4724.917
#3	3710.616	77677.91	11425.92	2576.072	4706.368

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

Prep Standard - Chemical Standard Summary

Order ID : Q1105

Test : Metals CLP12

Prepbatch ID : PB166155,

Sequence ID/Qc Batch ID: LB134411,LB134438,

Standard ID :
MP83500,MP84041,MP84058,MP84059,MP84060,MP84061,MP84062,MP84063,MP84064,MP84065,MP84066,MP840
67,MP84069,MP84070,MP84071,MP84072,MP84204,MP84206,MP84207,MP84208,MP84209,MP84210,MP 84211,MP
84212,MP84213,MP84214,MP84215,MP84216,MP84218,MP84219,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5298,M5393,M5429,M5466,M5472,M5476,M5496,M5497,M5513,M5516
,M5519,M5565,M5658,M5697,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5819,M5820,M587
5,M5942,M5959,M5961,M5962,M5970,M5976,M5977,M5978,M5985,M5990,M6021,M6023,M6025,M6028,M6030,M60
32,M6077,M6121,M6125,M6126,M6127,M6128,M6144,W3112,

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP84058	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5497 + 4.00000ml of M5806 + 4.00000ml of M6127 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP84059	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5806 + 12.50000ml of M5819 + 12.50000ml of M6128 + 13.75000ml of M5697 + 14.50000ml of M5298 + 14.50000ml of M5496 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M6127 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

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

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP84060	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 250.00000ml of MP83500 + 250.00000ml of MP84059 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP84061	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of MP84059 + 75.00000ml of MP83500 = 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
1008	ICPAES ISM01.2(S2)	MP84062	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 12.50000ml of MP84059 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP84063	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M5806 + 10.00000ml of M6127 + 2.00000ml of M5942 + 4.00000ml of M6032 + 34.24000ml of MP83500 = 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
1003	ICPAES ISM01.2 S1	MP84064	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.50000ml of MP84063 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP84065	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.50000ml of M5218 + 0.50000ml of M5472 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 10.00000ml of M5295 + 87.50000ml of MP83500 = 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
904	ICP AES ICSA SOLN	MP84066	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of M5130 + 225.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP84067	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP83500 = 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
1119	ICPAES ISM01.2(CCV)	MP84069	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.75000ml of M5497 + 0.75000ml of M6127 + 1.22500ml of M5496 + 1.25000ml of M5298 + 1.25000ml of M5516 + 19.77500ml of MP83500 + 25.00000ml of MP84059 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP84070	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 2.50000ml of M5962 + 50.00000ml of M5565 + 50.00000ml of M5990 + 147.50000ml of MP83500 = 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
919	ICP AES INTERNAL STD	MP84071	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP84072	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP84204	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP84206	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5497 + 4.00000ml of M6127 + 4.00000ml of M6144 + 30.00000ml of MP84204 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP84207	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5819 + 12.50000ml of M6128 + 12.50000ml of M6144 + 13.75000ml of M5697 + 14.50000ml of M5298 + 14.50000ml of M5496 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M6127 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5875 + 5.00000ml of M6077 + 303.50000ml of MP84204 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP84208	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 250.00000ml of MP84204 + 250.00000ml of MP84207 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP84209	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of MP84207 + 75.00000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP84210	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 12.50000ml of MP84207 + 87.50000ml of MP84204 = 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
994	ICPAES ISM01.2 S1 (CONC.)	MP84211	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5977 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M6127 + 10.00000ml of M6144 + 2.00000ml of M5978 + 4.00000ml of M6032 + 34.24000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP84212	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.50000ml of MP84211 + 99.50000ml of MP84204 = 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
912	ICP AES ICV SOLN	MP84213	01/24/2025	02/05/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5466 + 0.25000ml of M5218 + 0.25000ml of M5472 + 10.00000ml of M5295 + 89.77500ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP84214	01/24/2025	01/31/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of M5130 + 225.00000ml of MP84204 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP84215	01/24/2025	01/31/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP84204 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP84216	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.75000ml of M5497 + 0.75000ml of M6127 + 1.22500ml of M5496 + 1.25000ml of M5298 + 1.25000ml of M6144 + 19.77500ml of MP84204 + 25.00000ml of MP84207 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP84218	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP84219	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5223

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	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

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 #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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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 #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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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.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Selenium, Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead

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	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

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

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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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

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503

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

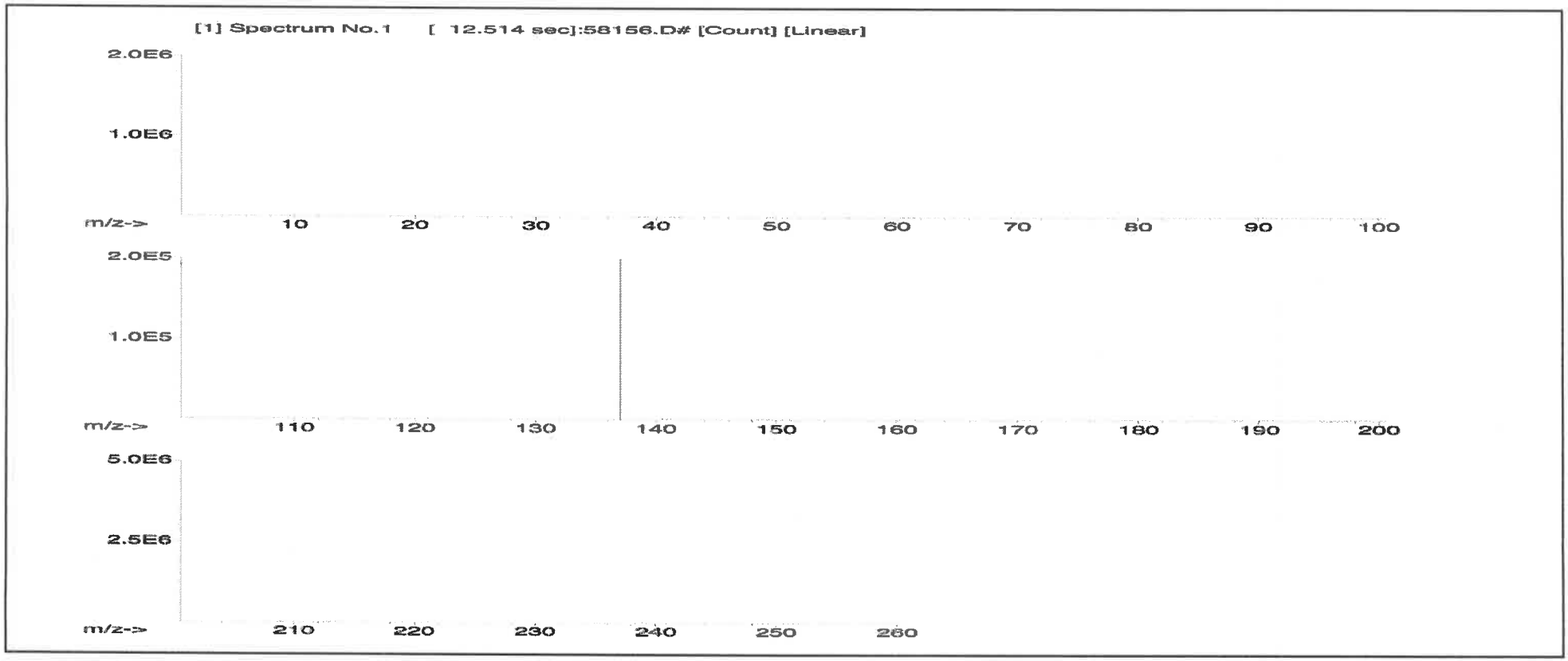
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



504

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R 8/15/24

M6028

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505

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

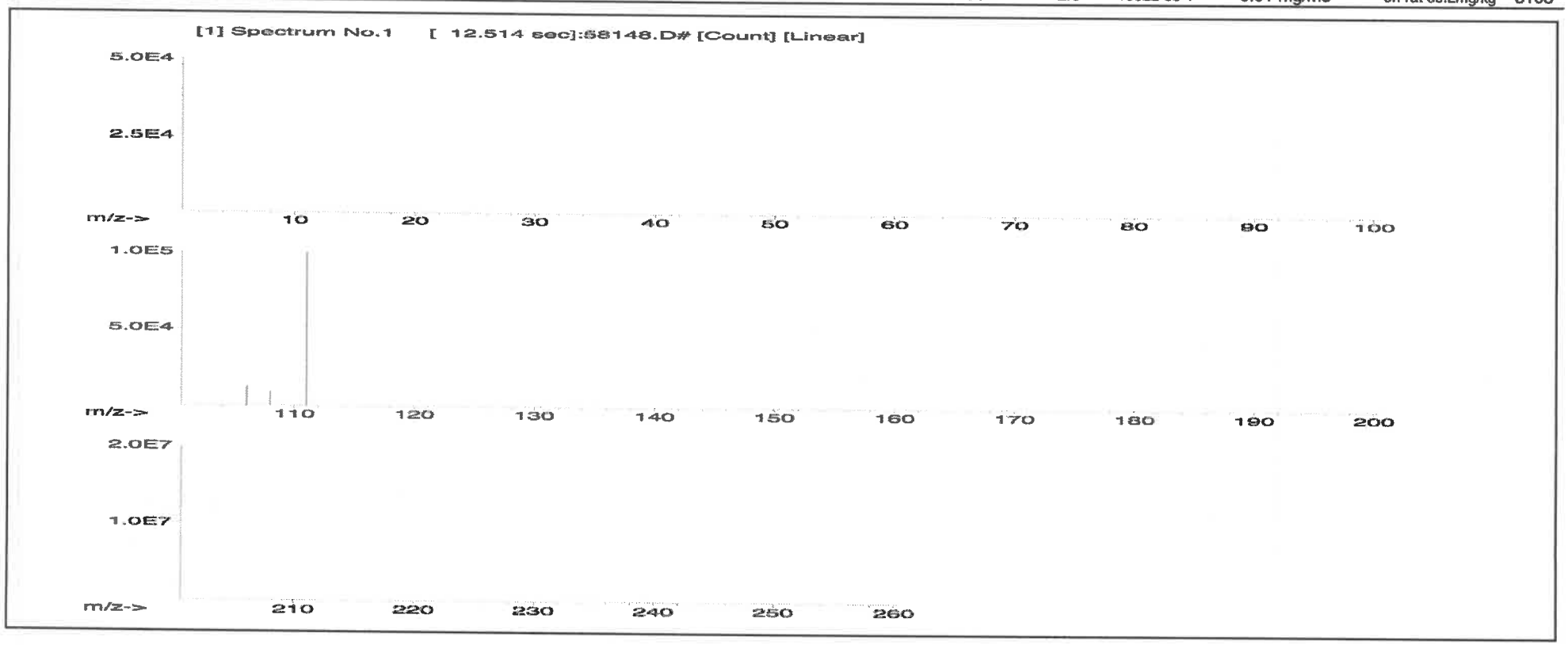
Weight shown below was diluted to (mL): 2000.07

		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
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



506

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

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.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- 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.

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

November 02, 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

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 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**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 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

- **January 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

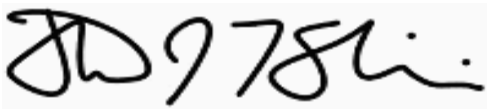
- Sealed TCT Bag Open Date: _____

- 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



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Certificate of Analysis

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inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

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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.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- 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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 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

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

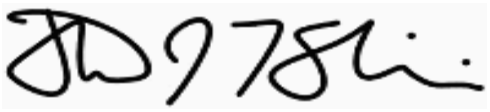
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

517

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

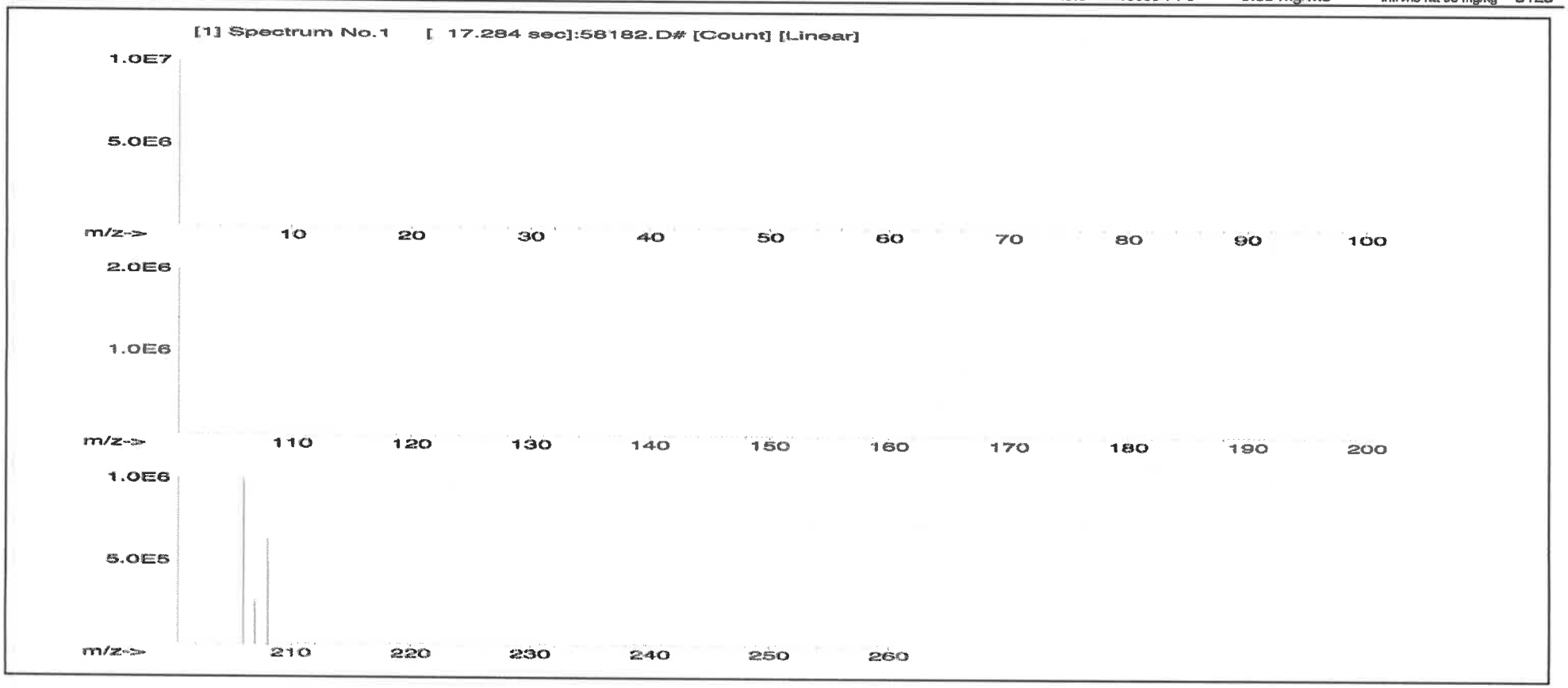
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,



Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

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.

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

November 02, 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

- **November 02, 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-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (BH)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

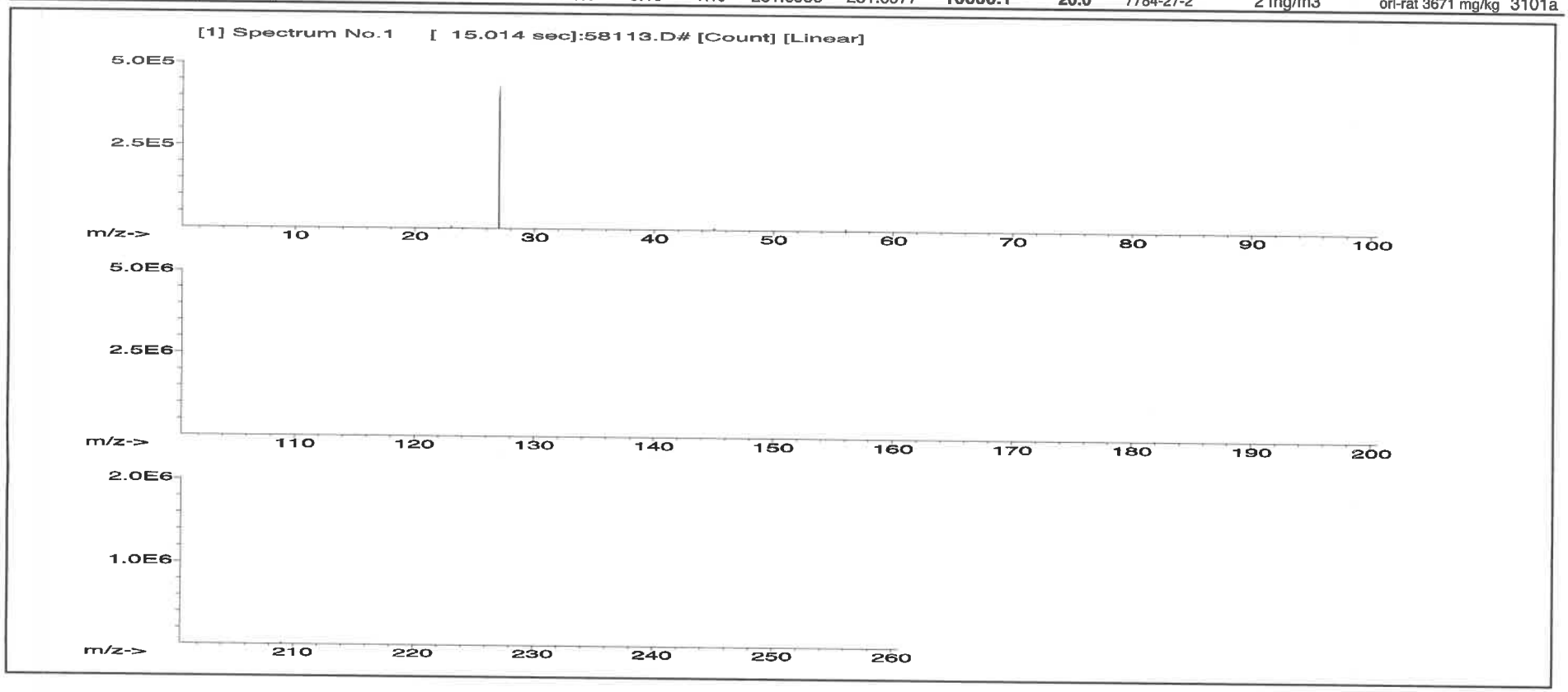
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



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:

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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

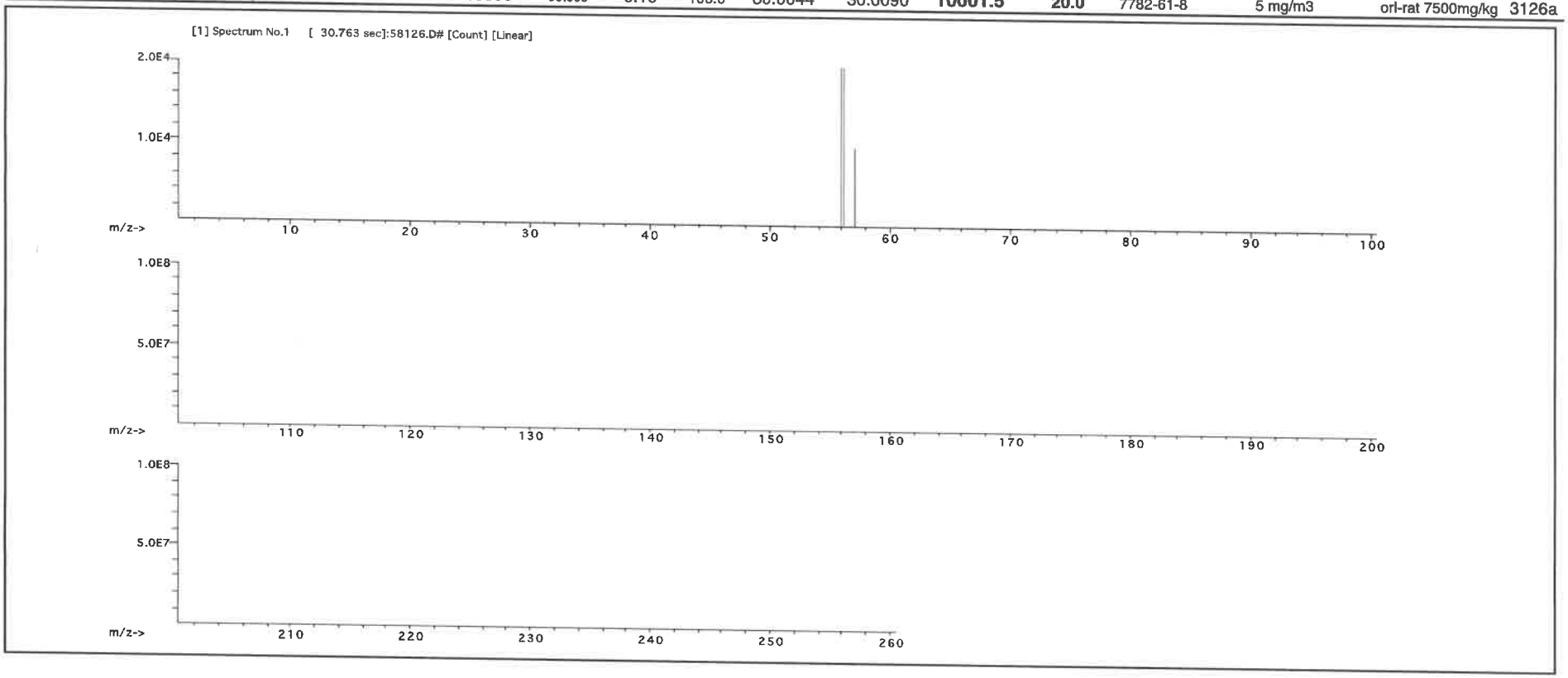
Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



530

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

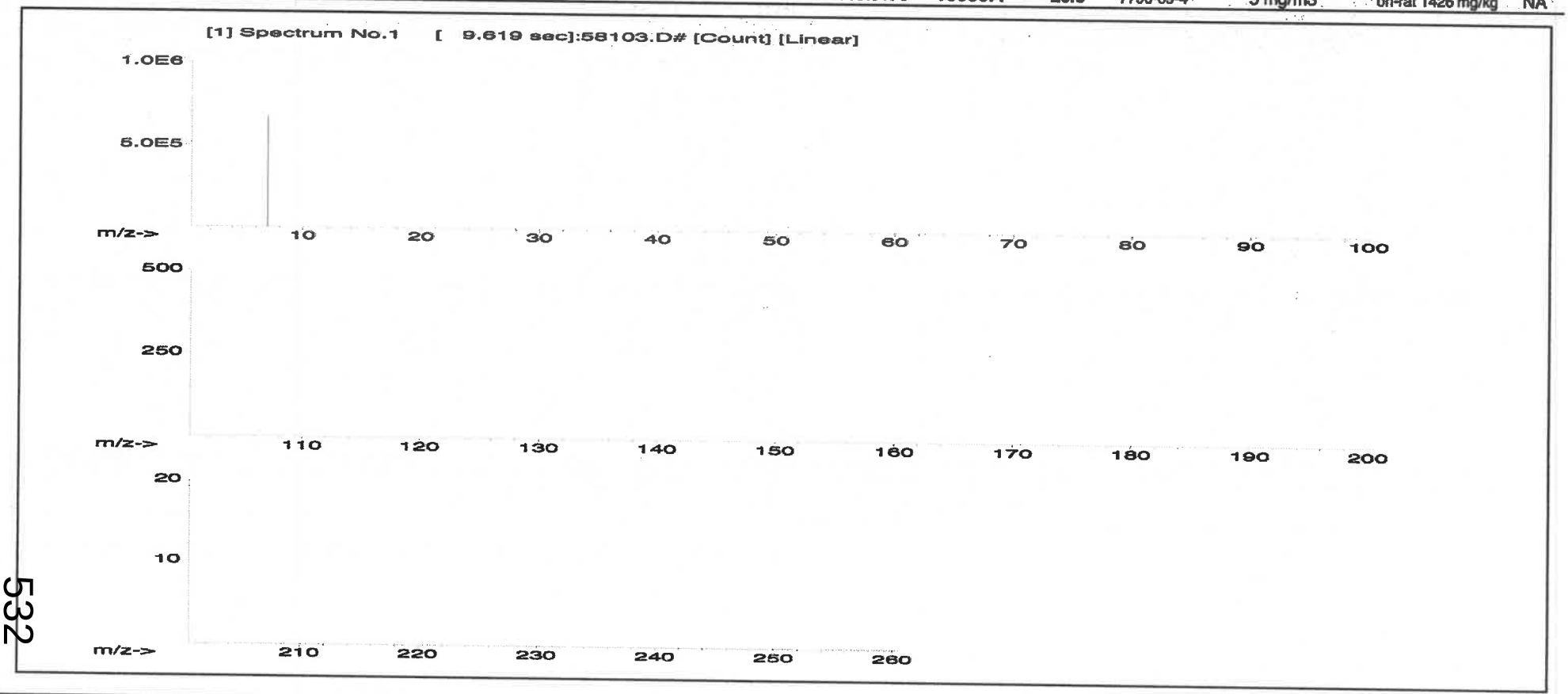
Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	± 5E-05 Balance 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. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



532

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	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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534

CERTIFIED WEIGHT REPORT:

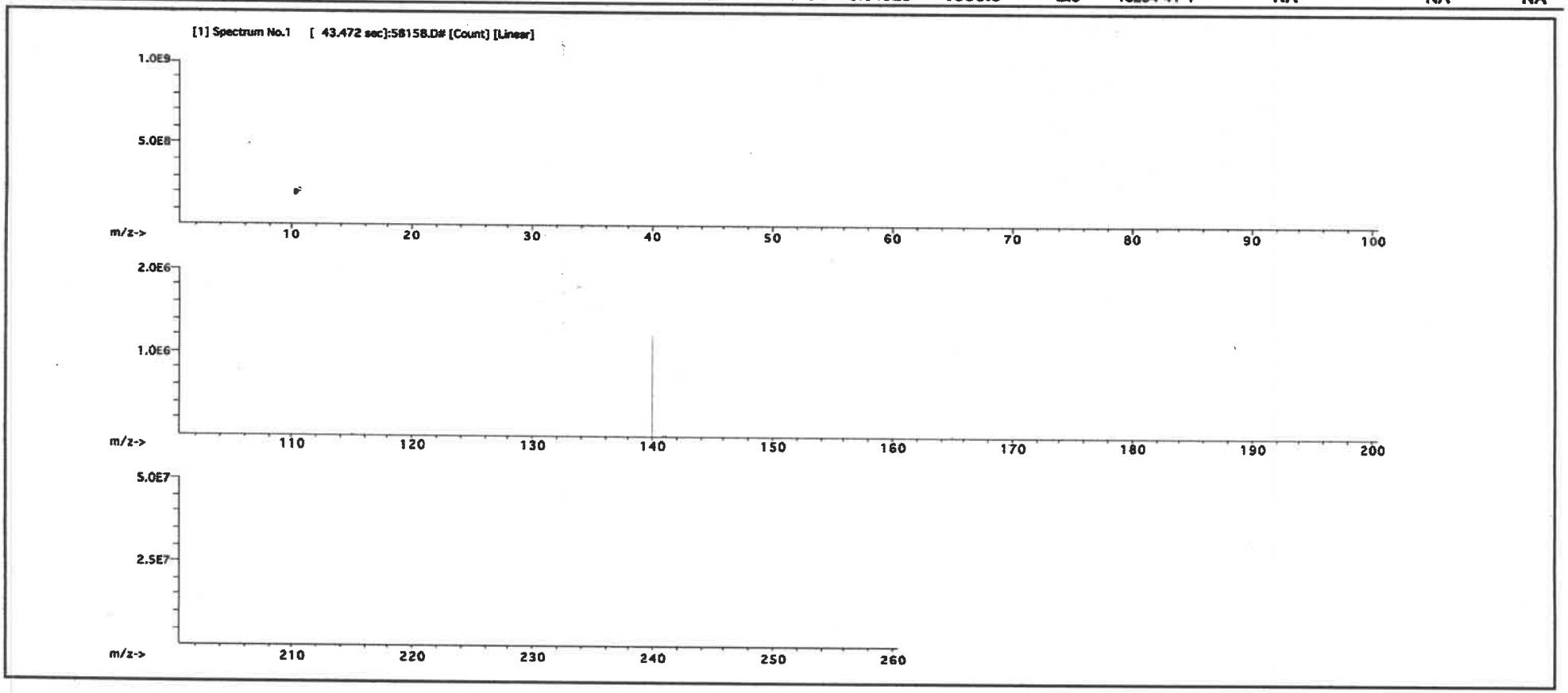
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	061322
Reviewed By:	Pedro L. Rentas	061322

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04923	1000.0	2.0	10294-41-4	NA	NA	NA



535

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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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* 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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536

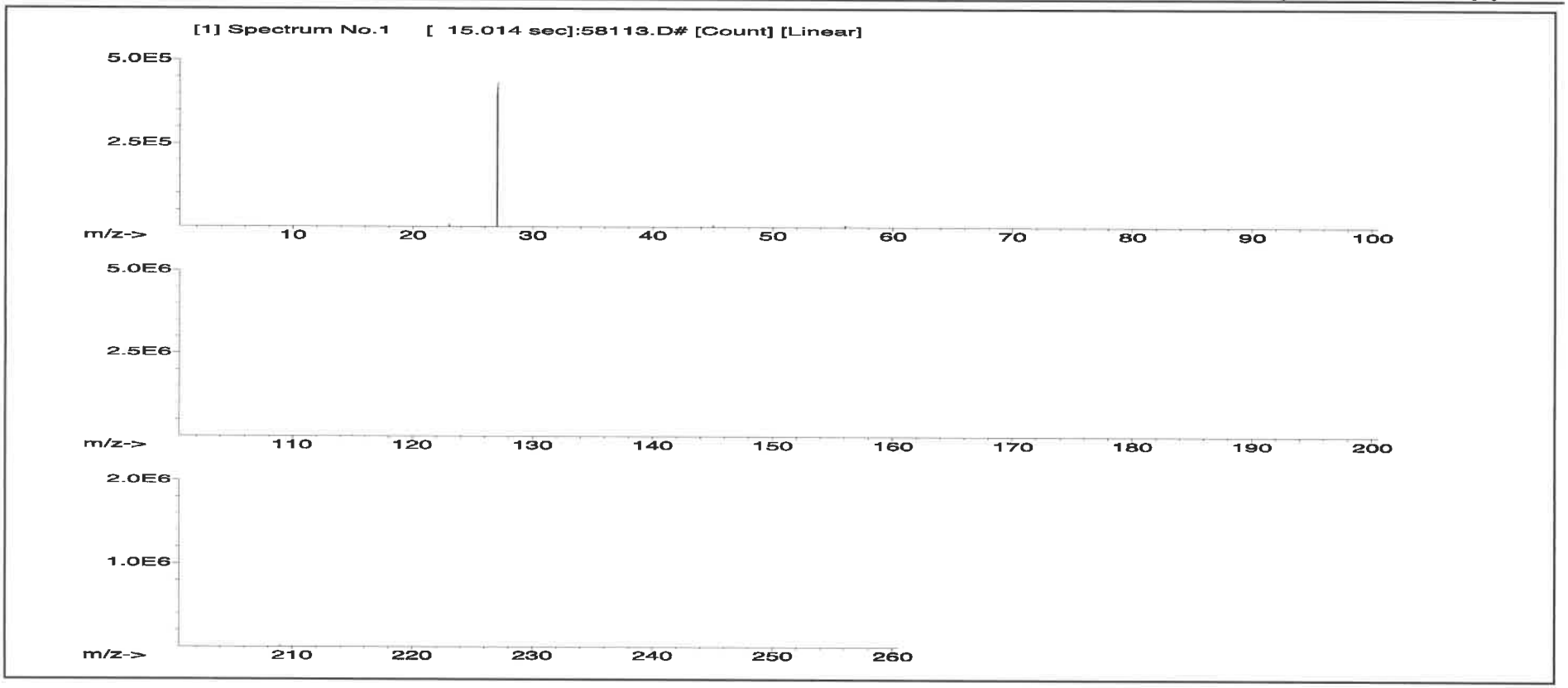
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**011623**	**Solvent:**	20510011	Nitric Acid	
Description:	**Aluminum (Al)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

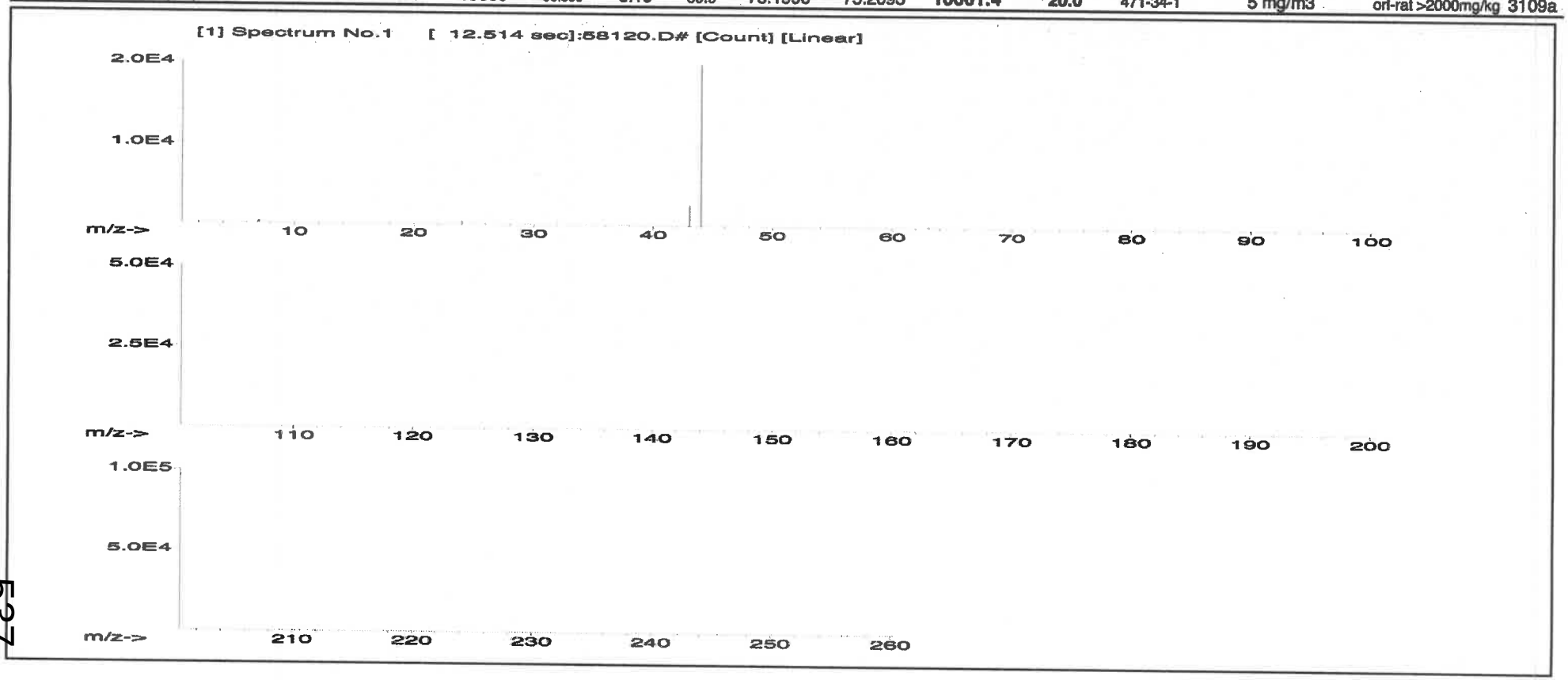
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



537

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MA513 R:03/17/23

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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

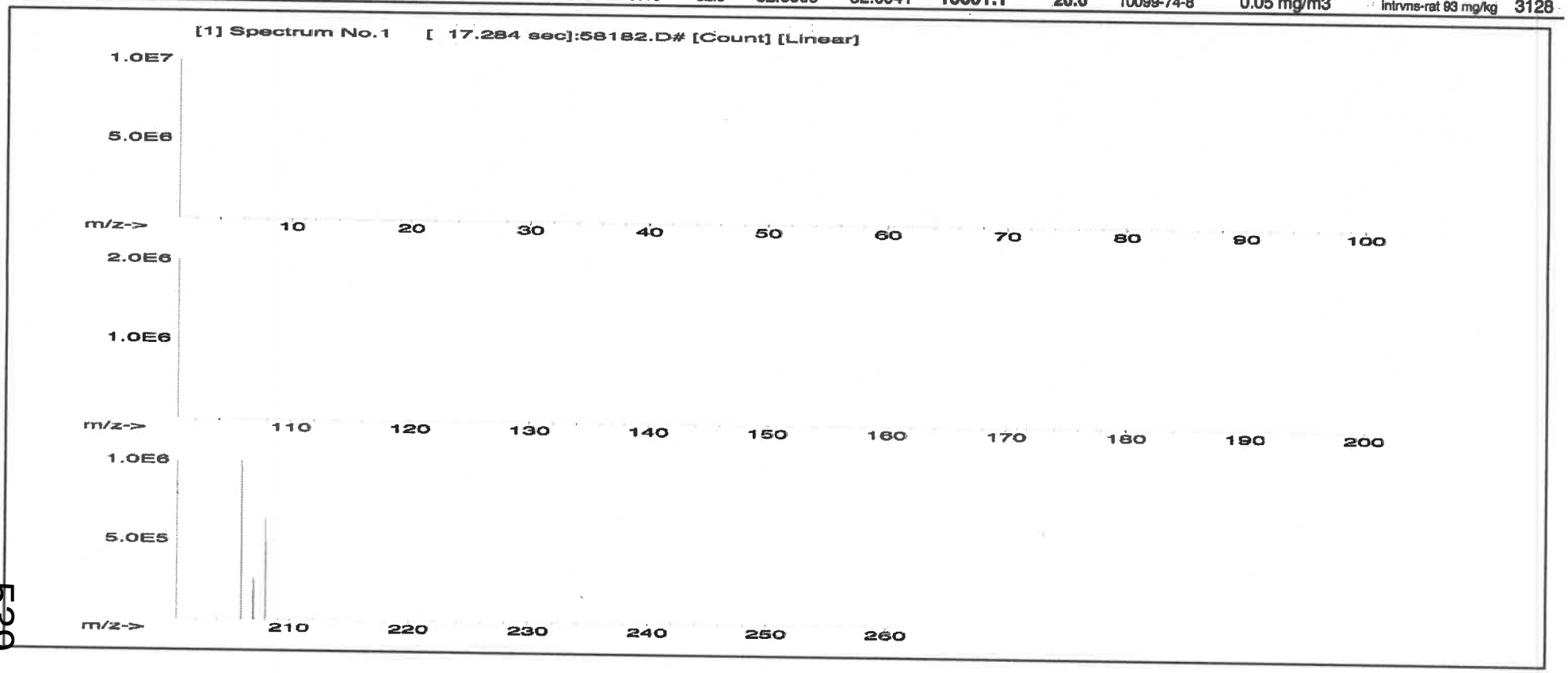
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



539

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M546 M517 R: 03/17/22 BH

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

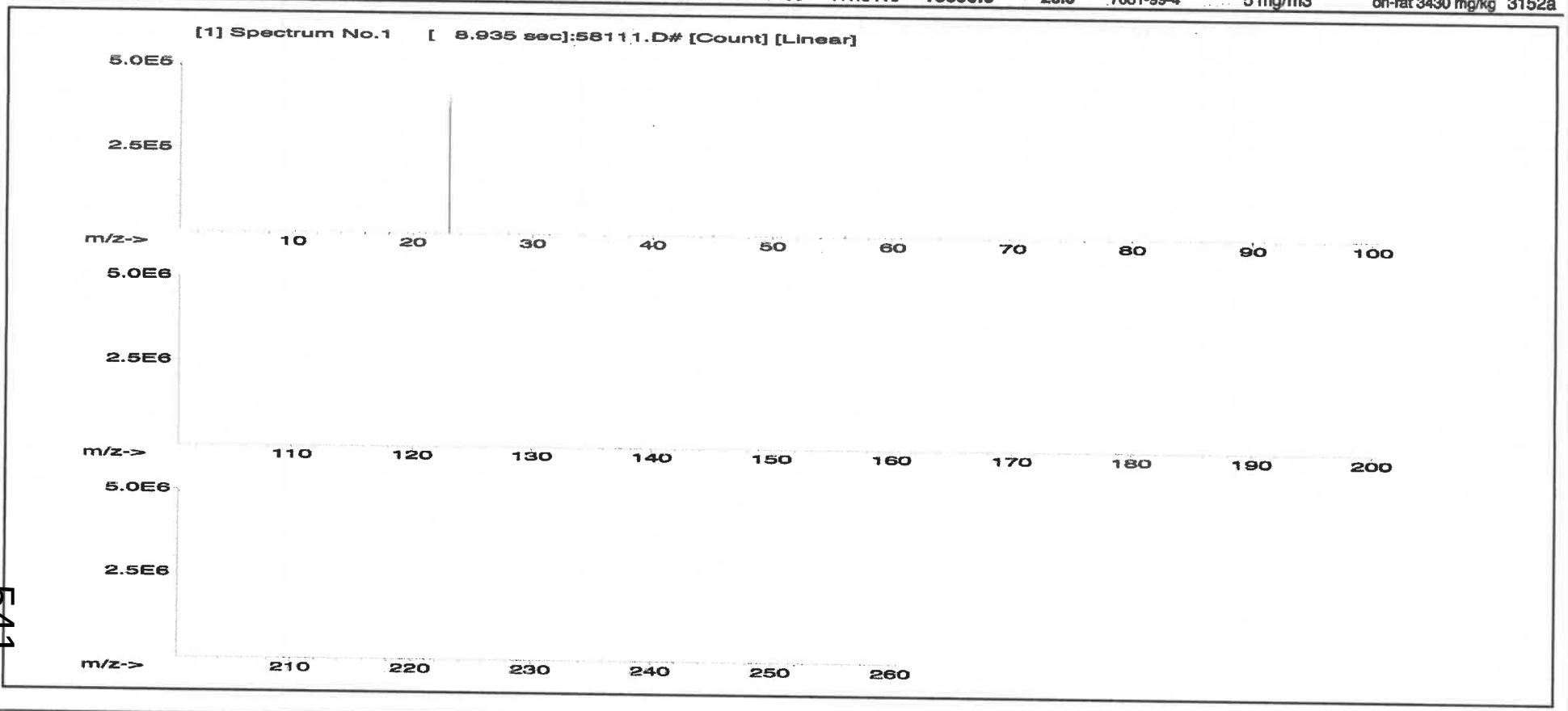
Expiration Date: 022126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	022123
Reviewed By:	Pedro L. Rentas	022123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5410	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



541

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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).

542

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Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

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543

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

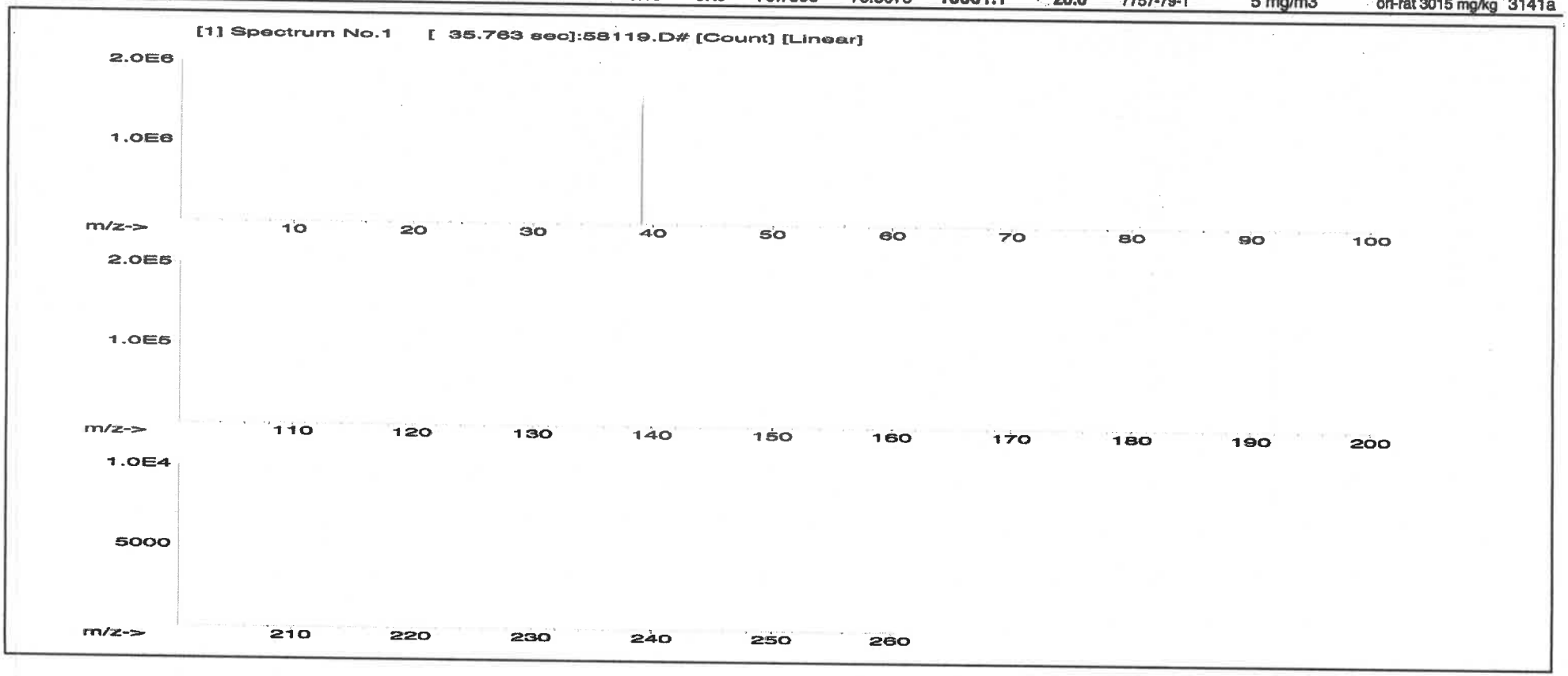
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.06	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 120822

Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



544

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

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:

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 (t) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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 (t) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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



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M5658 R ! 8/25/23

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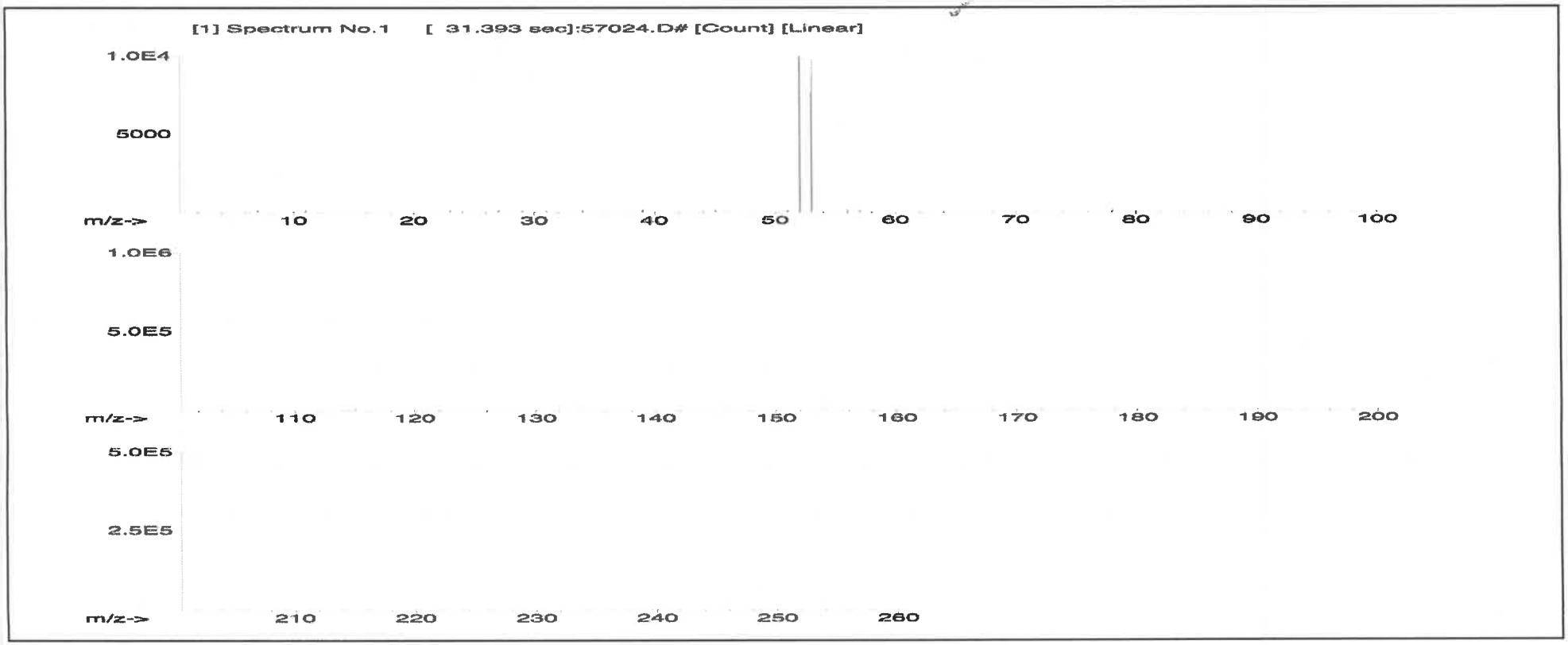
549

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



550

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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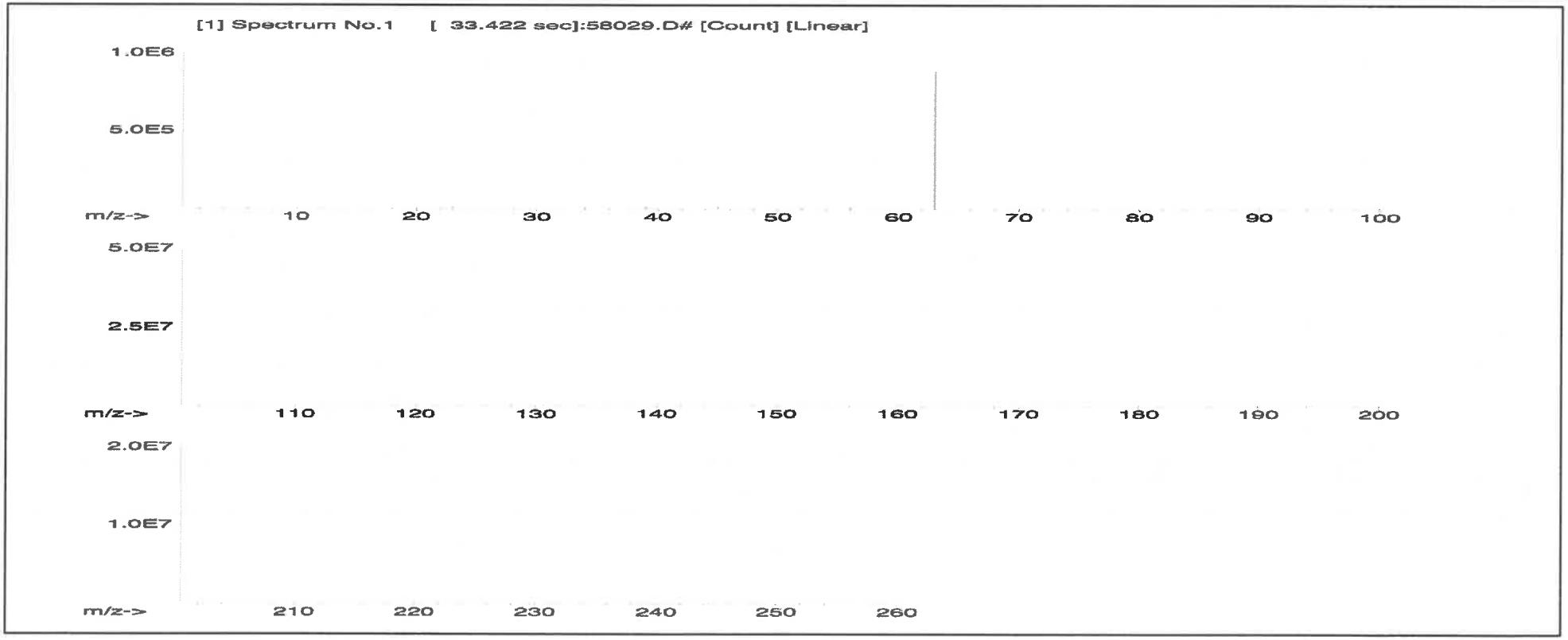
551

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



552

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are 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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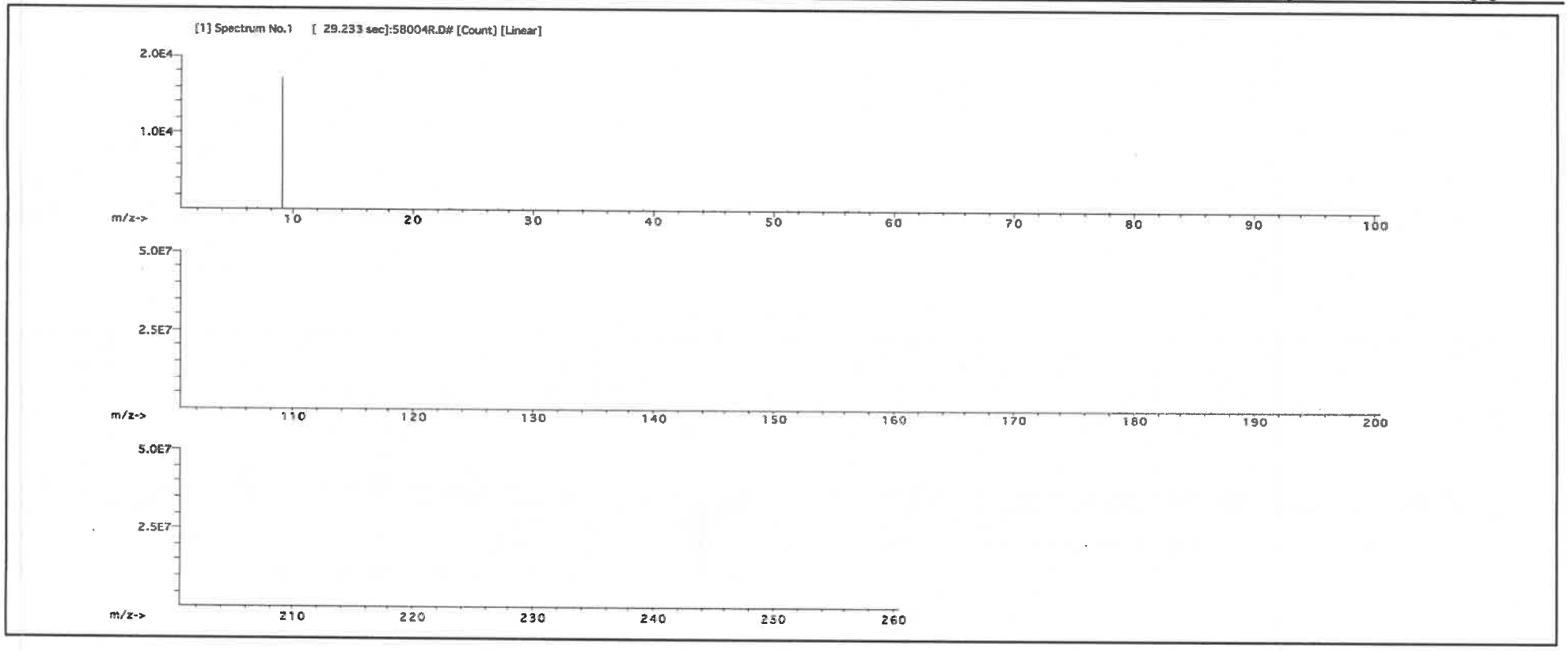
553

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).

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555

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

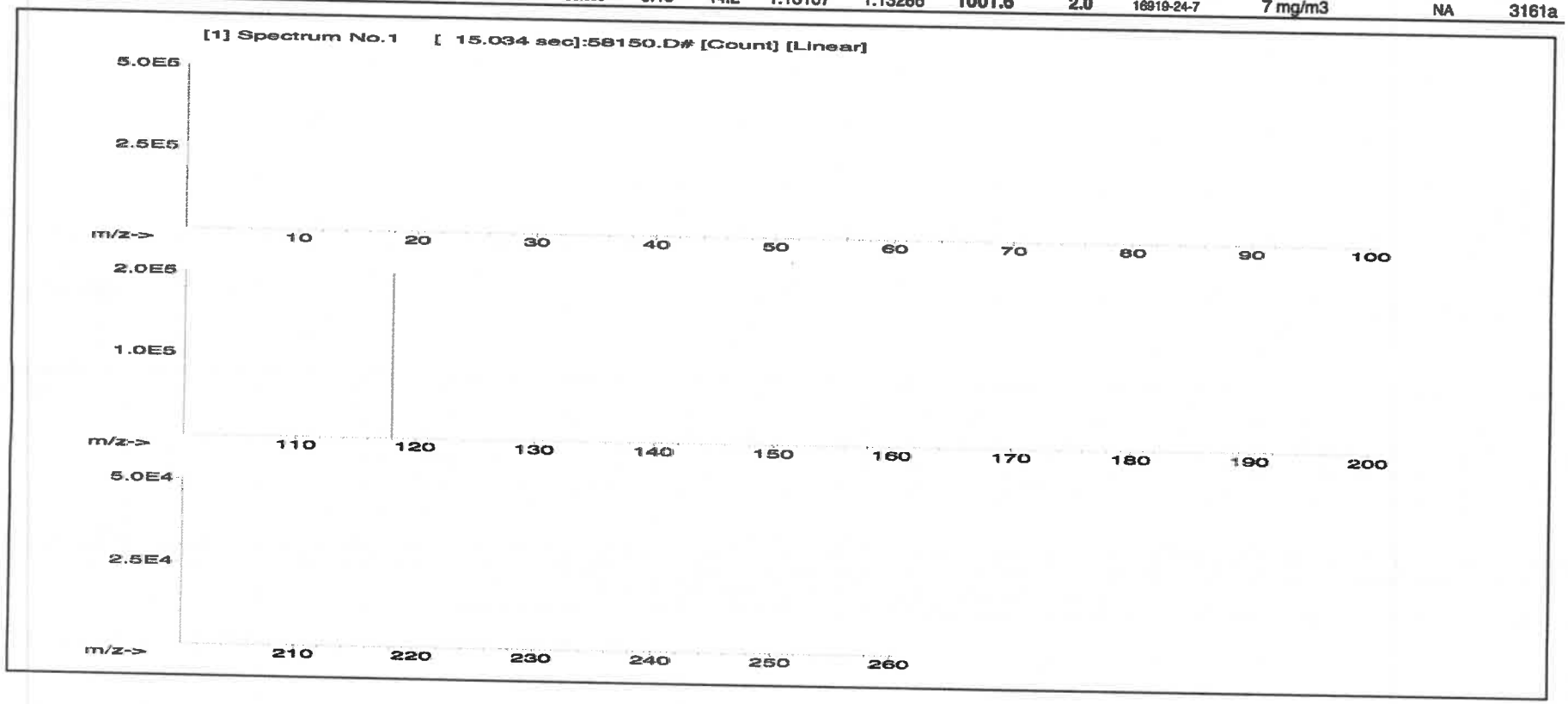
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



556

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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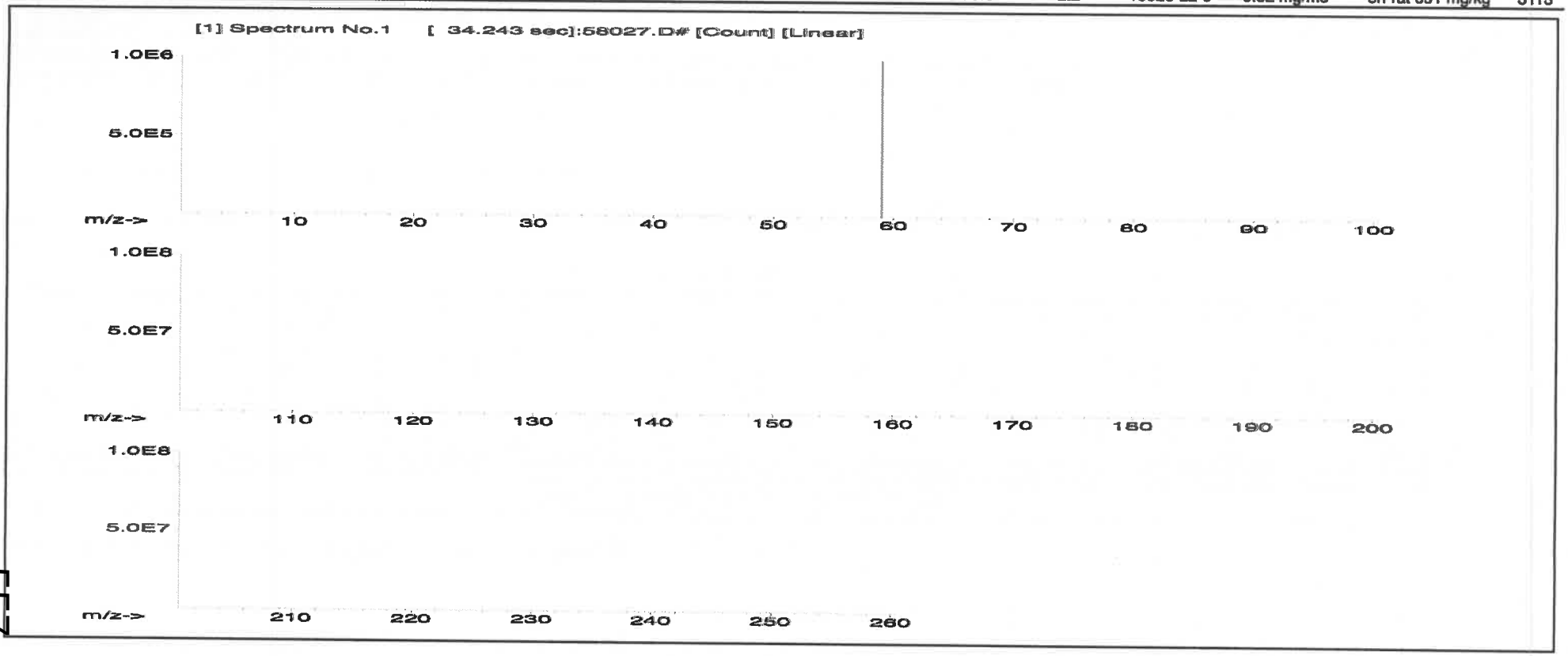
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



557

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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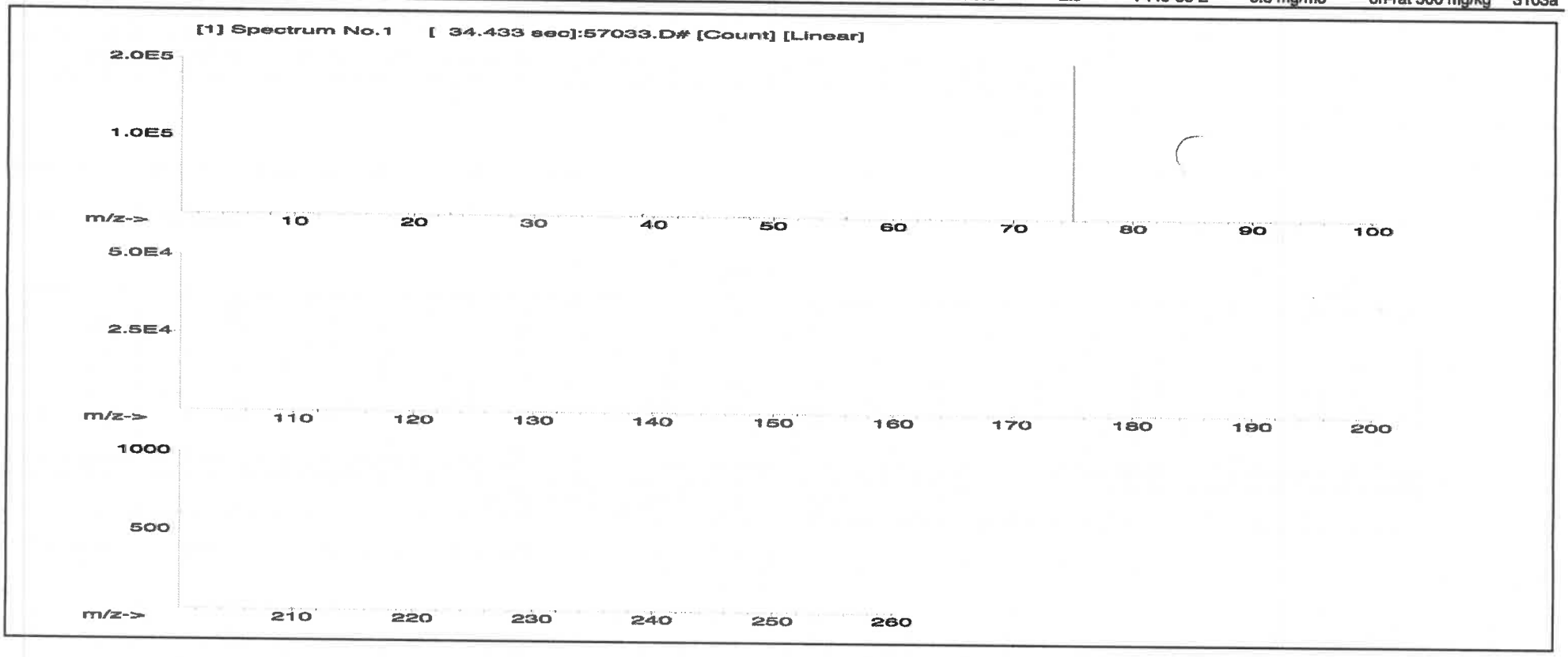
559

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



560

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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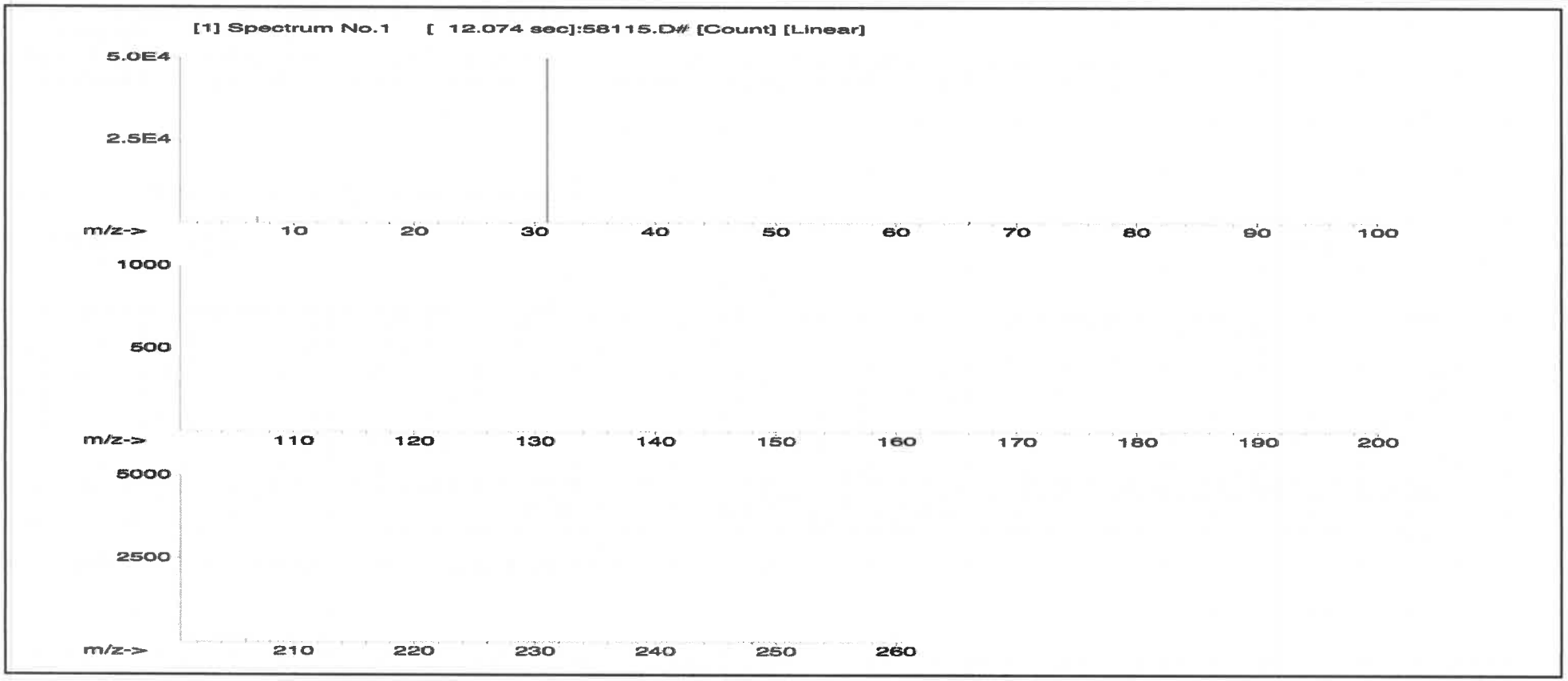
561

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



562

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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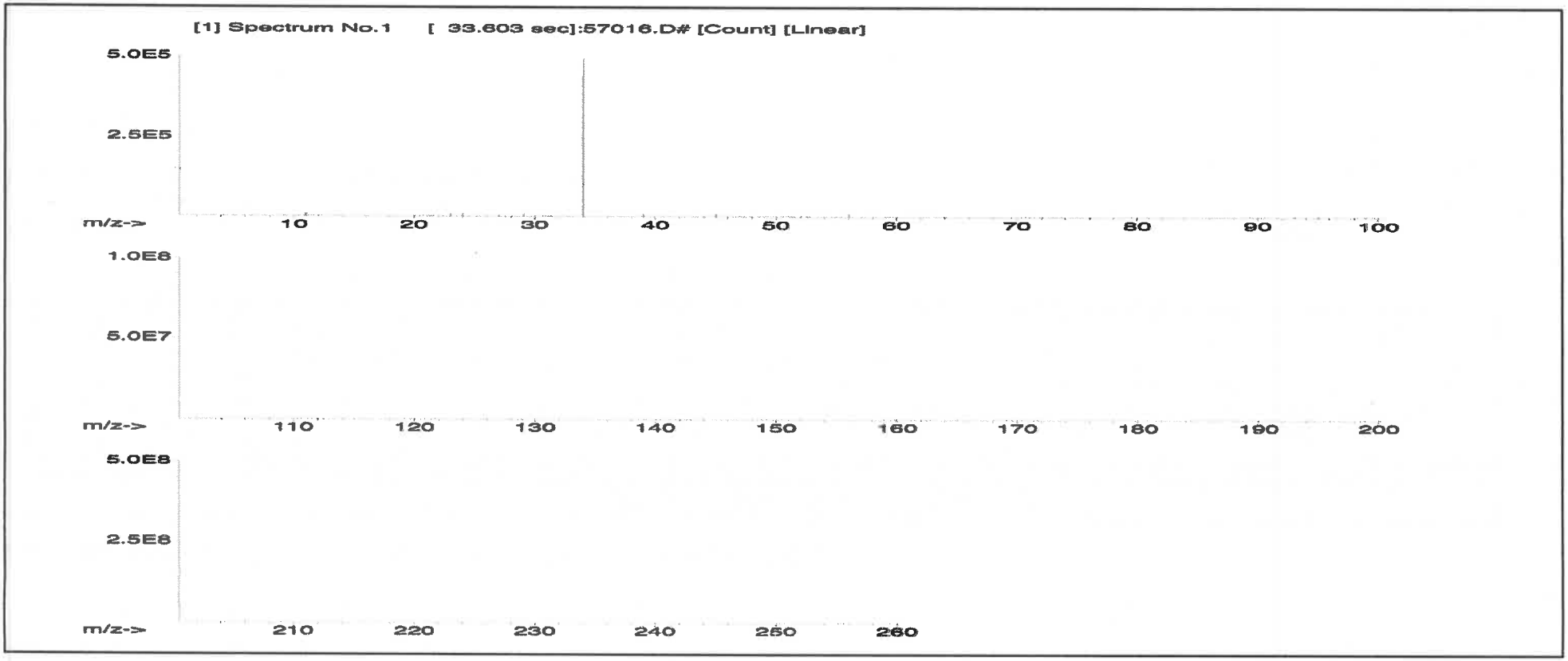
563

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



564

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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5817

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565

CERTIFIED WEIGHT REPORT:

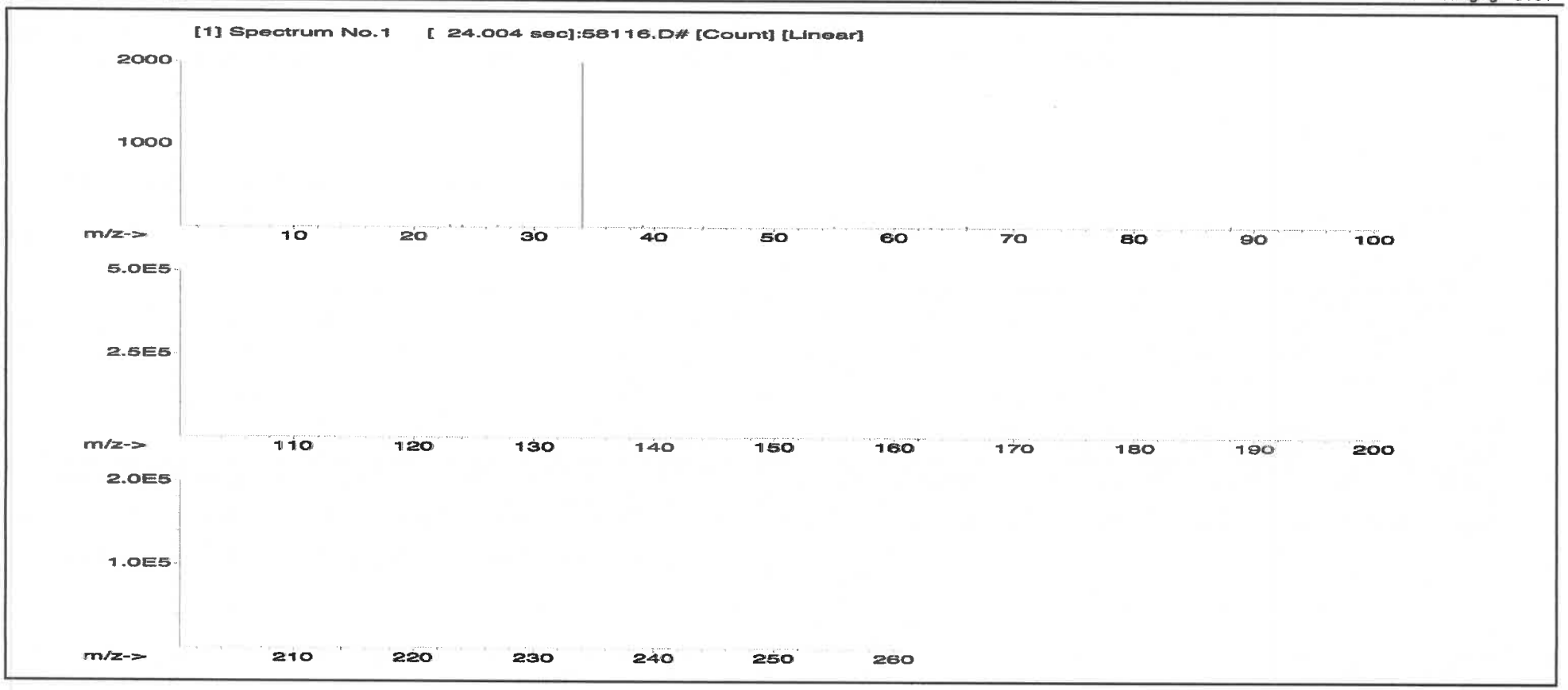
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



566

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.
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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

R: 02/09/24 M5819

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567

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

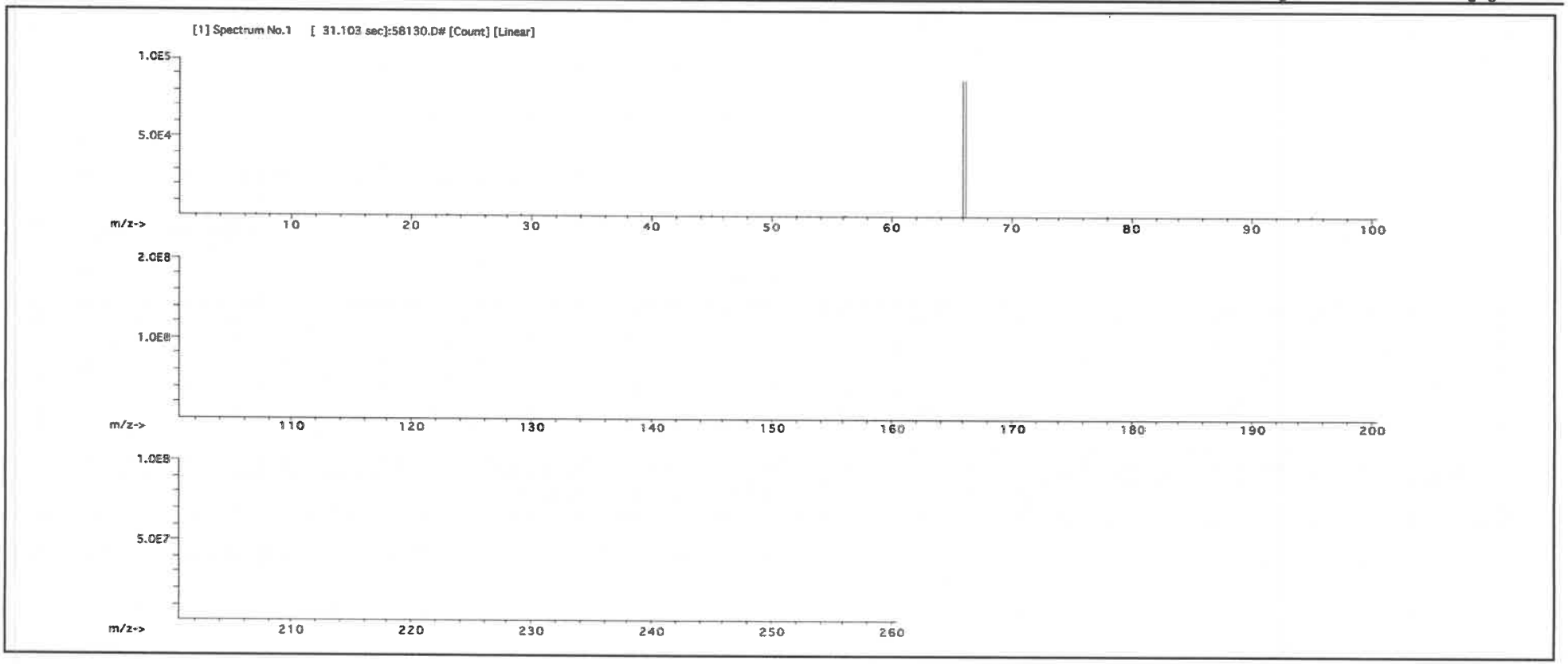
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	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



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:

* 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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R: 02/09/24 M5820

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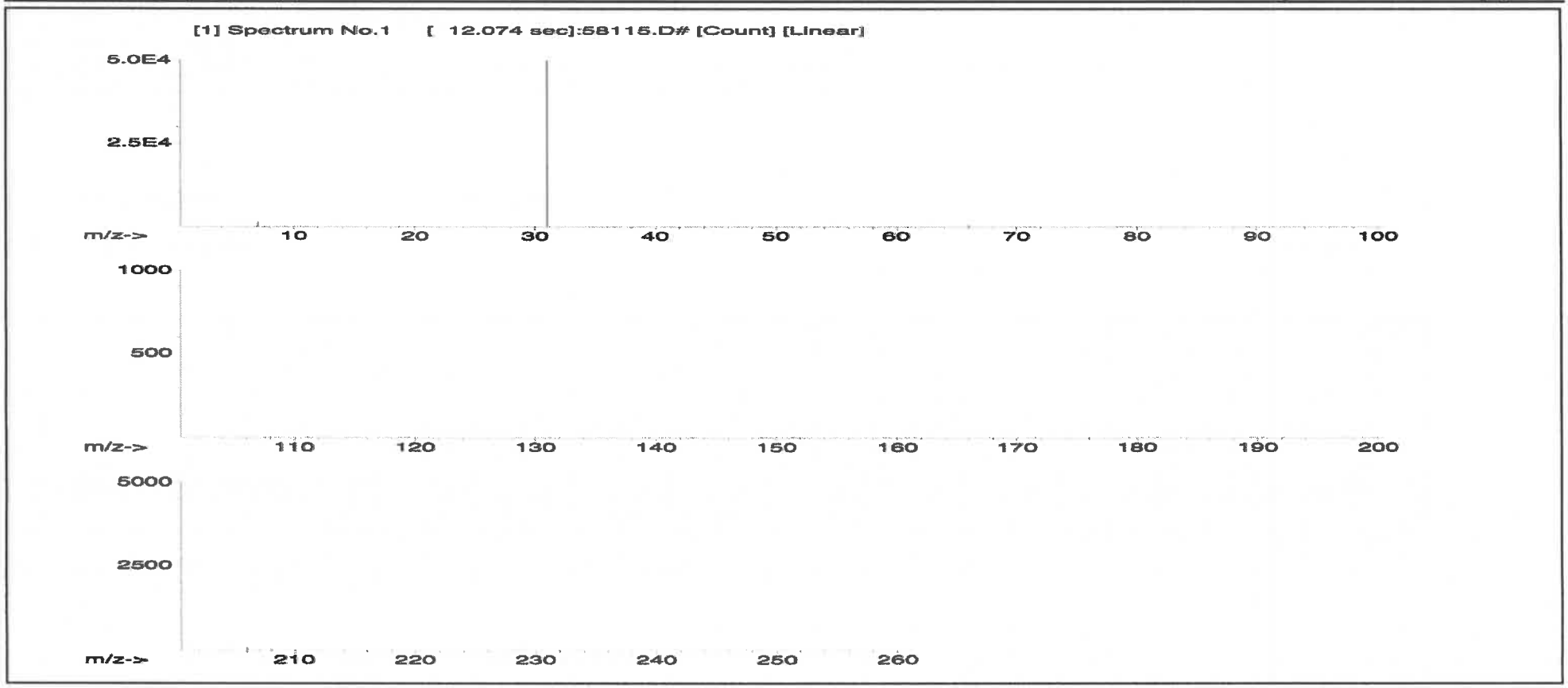
569

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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) HNO_3 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:

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

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



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Certificate of Analysis

M5959 R: 6/14/24.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5961 R: 6/11/24

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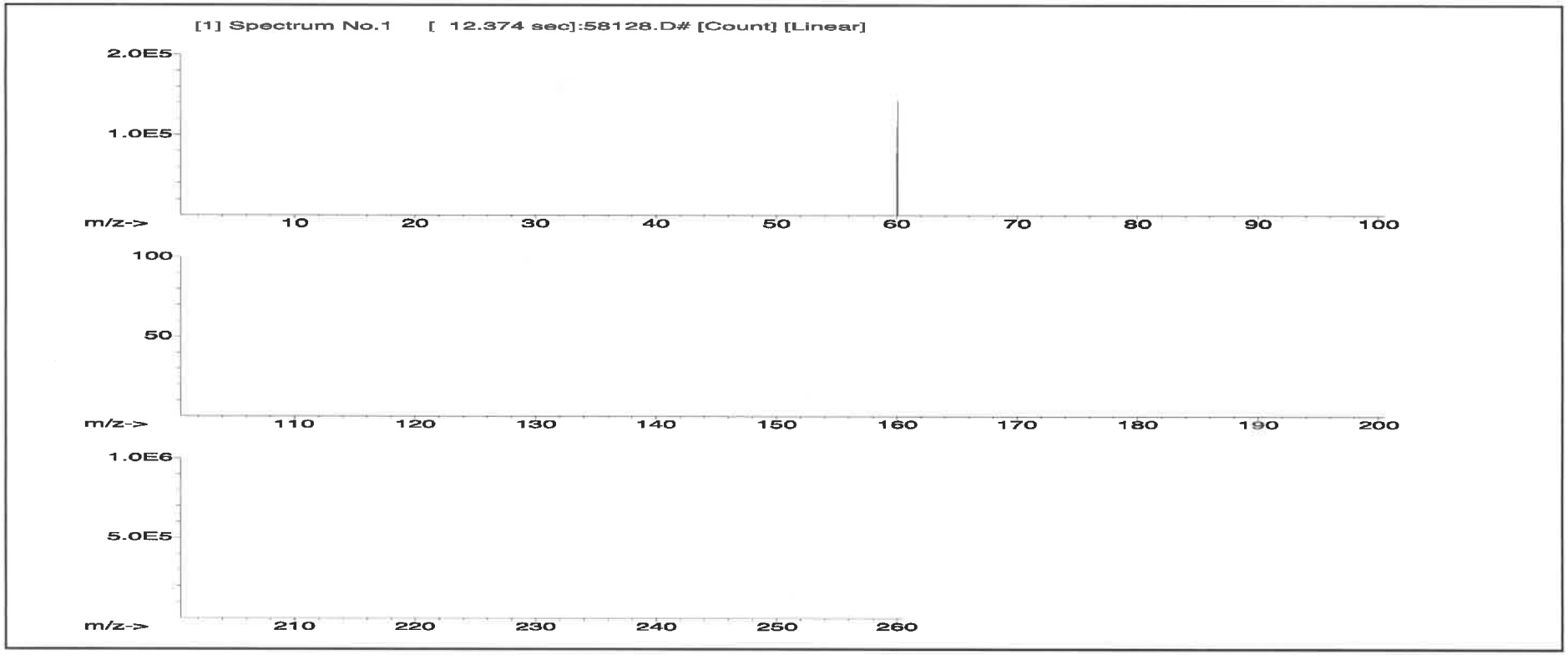
579

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5962 R! 06/14/24.

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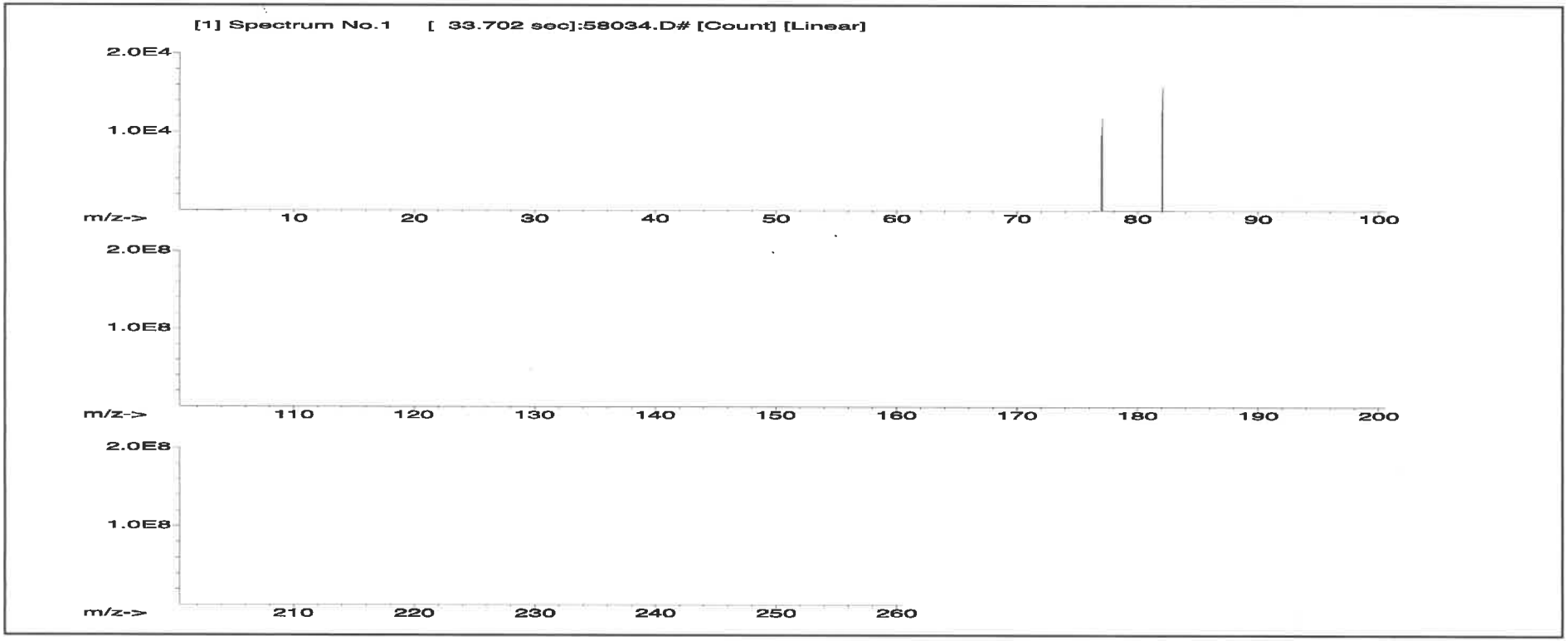
581

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



582

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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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

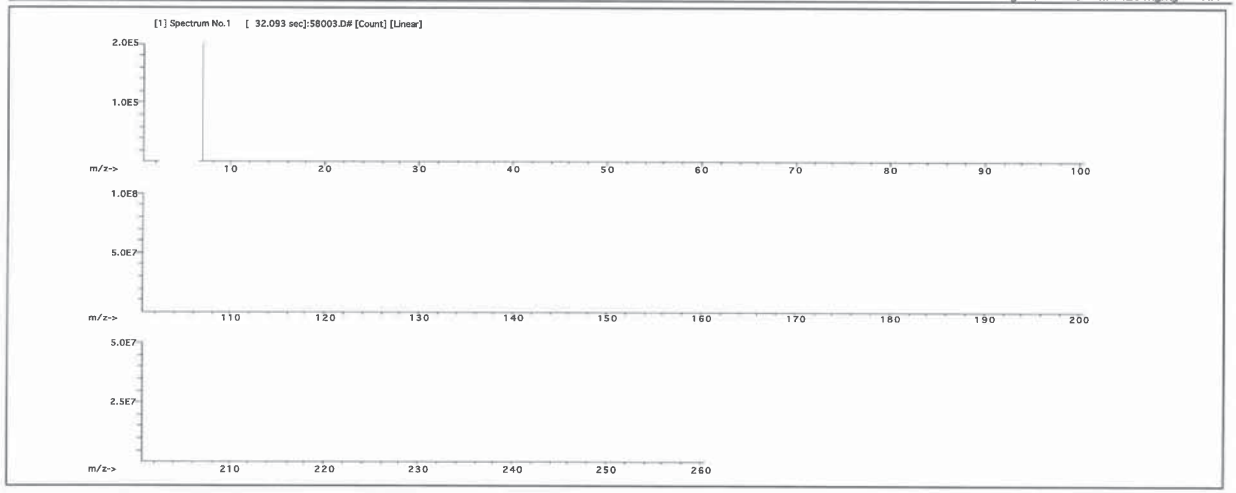
		Lot #	Solvent:		
Part Number:	**57003**	24002546	Nitric Acid		
Lot Number:	**062124**				
Description:	**Lithium (Li)**				
		2.0%	5.0 (mL)	Nitric Acid	
Expiration Date:	062127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	250.11	0.016	Flask Uncertainty		

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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Certified Reference Material CRM

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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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R: 02/22/24

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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

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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



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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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- 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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 06, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

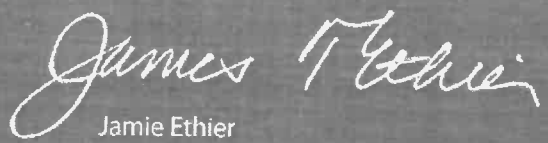
605

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

606

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

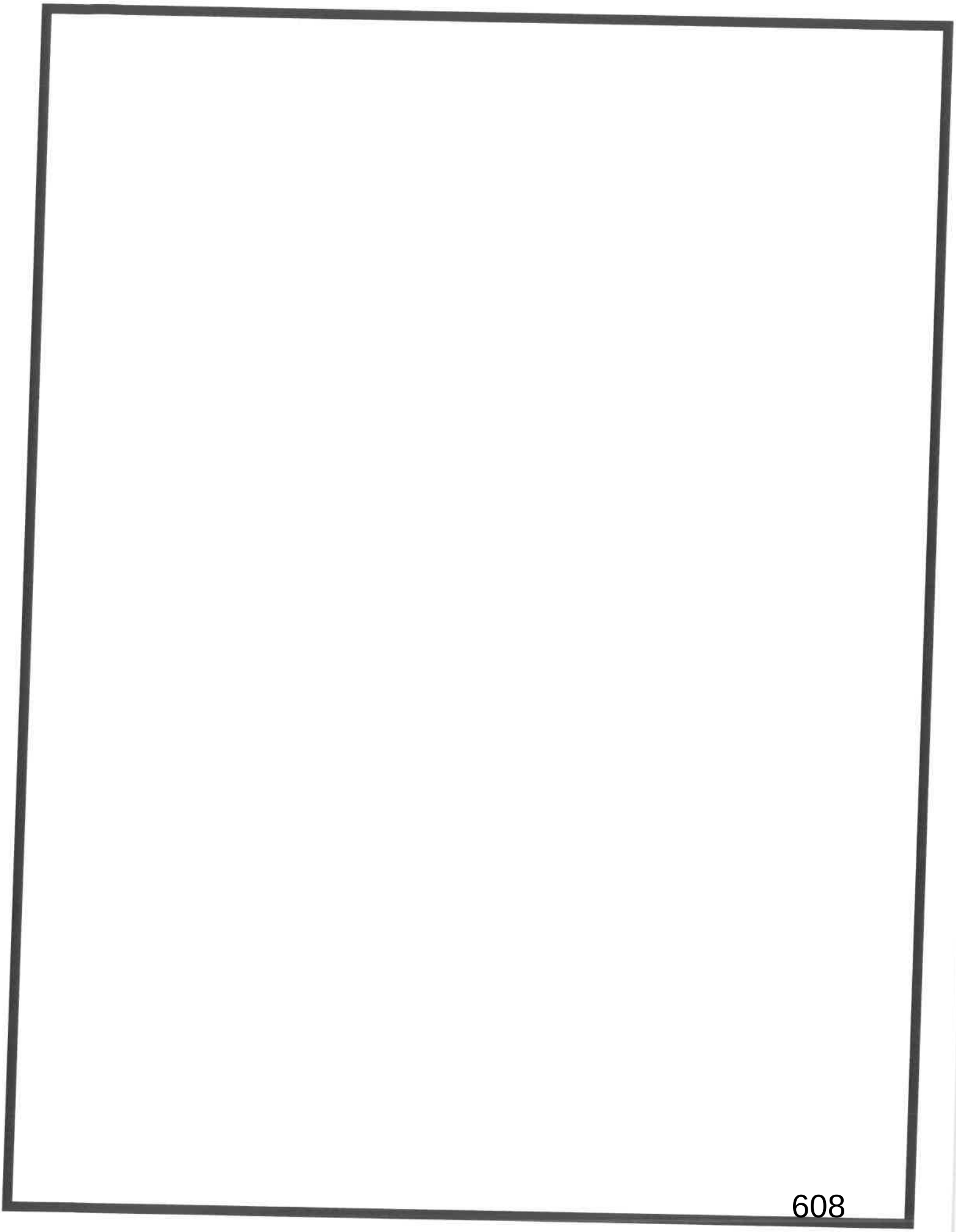
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

M6126

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

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www.absolutestandards.com

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611

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

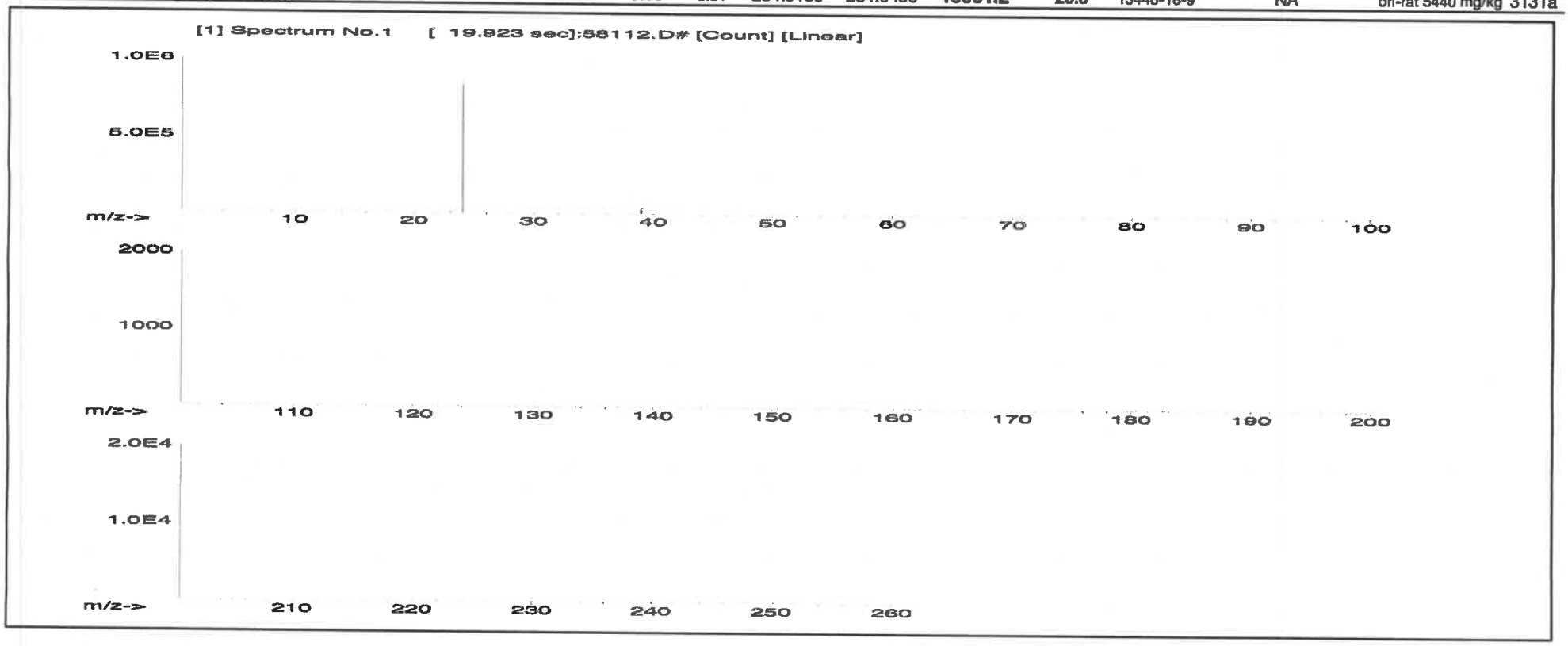
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



612

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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613

CERTIFIED WEIGHT REPORT:

R->1/13/25
M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

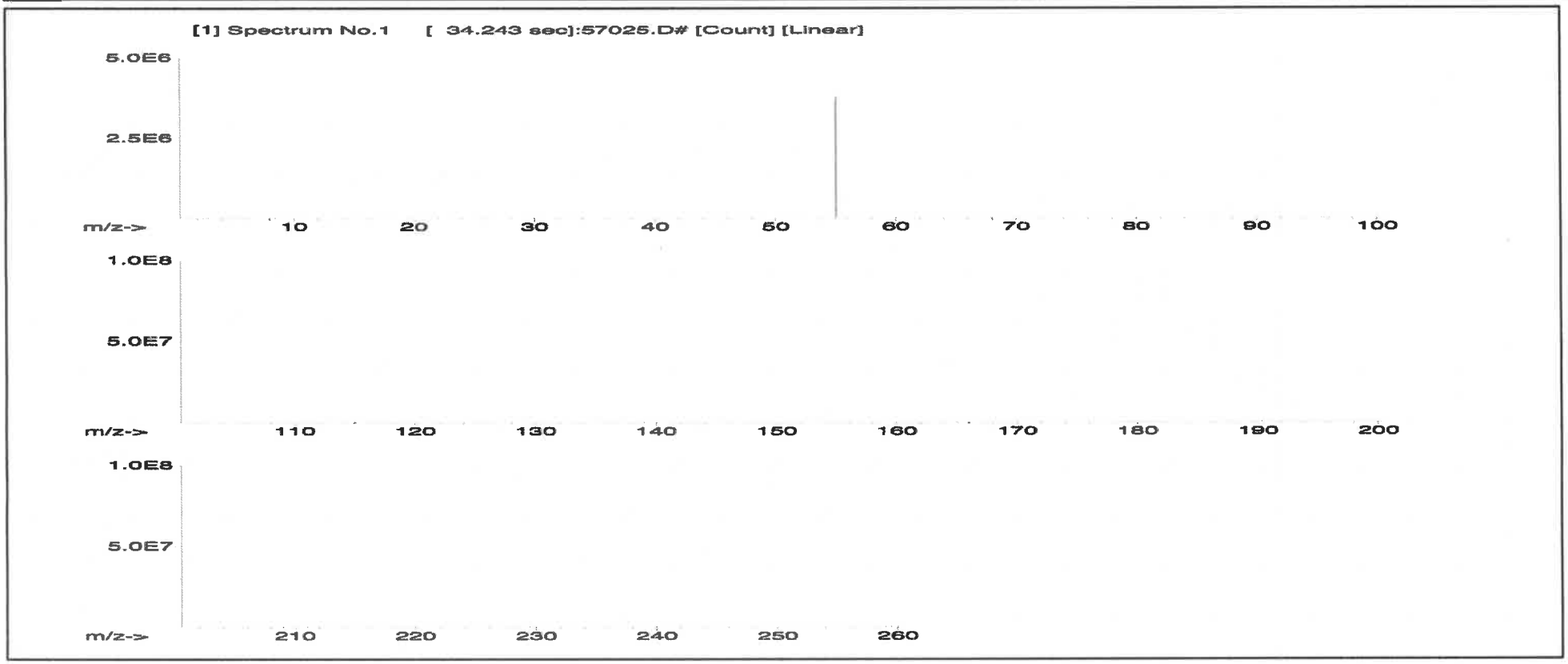
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



614

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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615

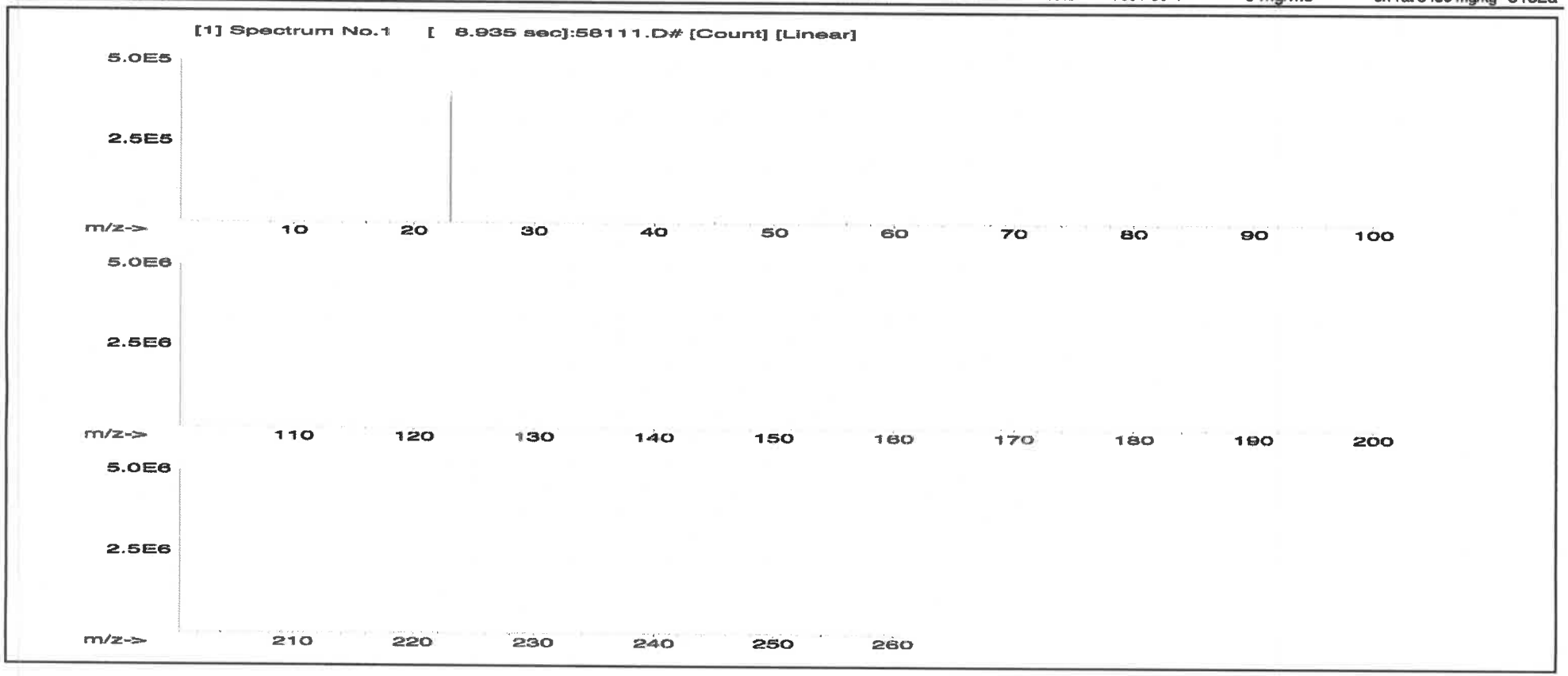
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**			**Lot #**	
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



616

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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

R: 01/03/24 M5806, M5807

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617

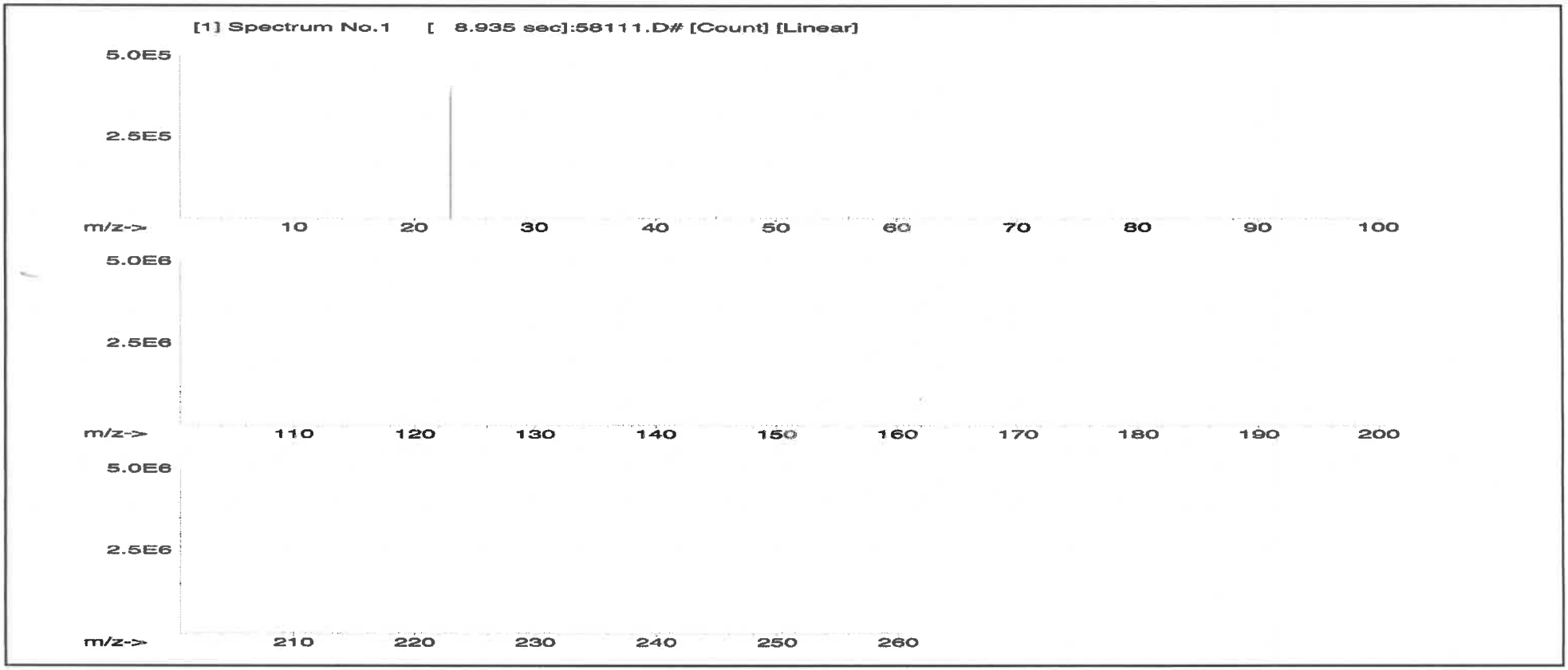
CERTIFIED WEIGHT REPORT:

			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



618

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).

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Certified Reference Material CRM

R: 01/03/24 M5802, M5803

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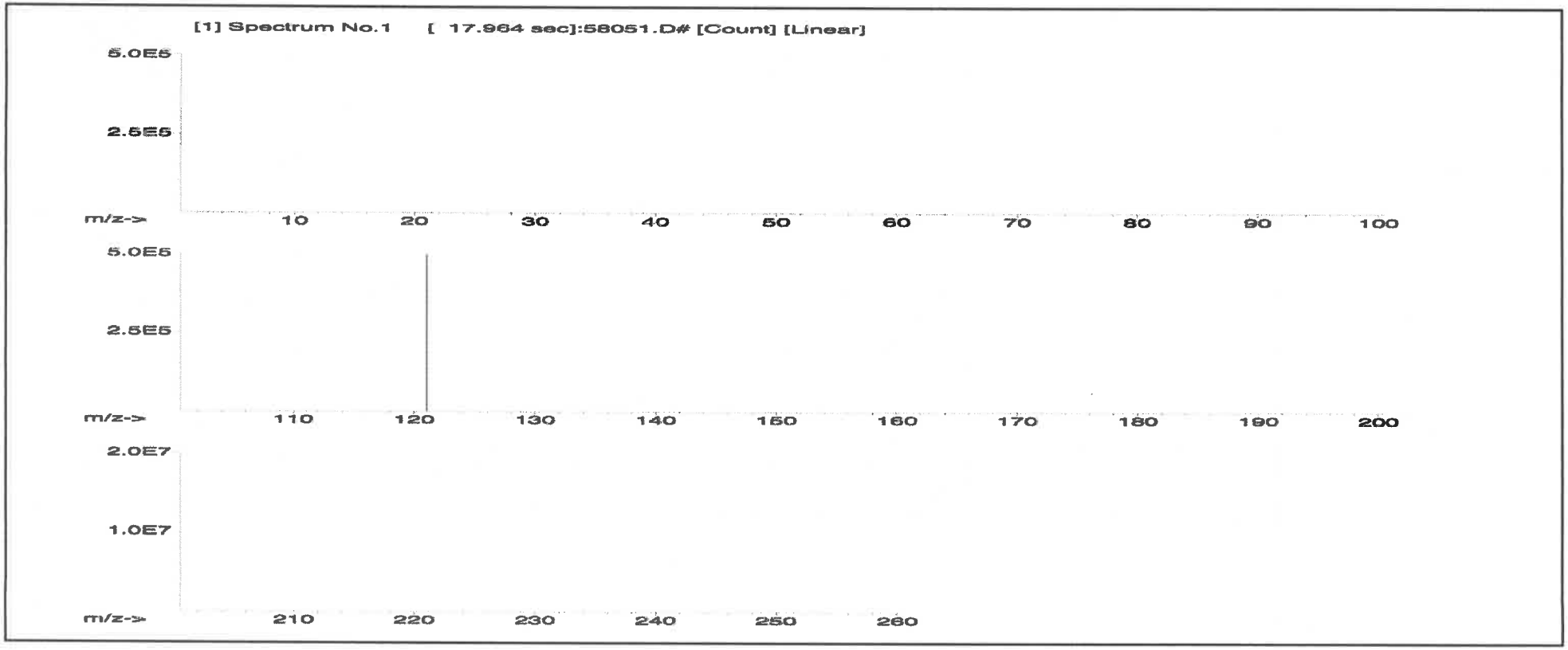
619

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57051**	24002546	Nitric Acid		
Lot Number:	**120523**				
Description:	**Antimony (Sb)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	120526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



620

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6030

R: 8/5/24

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AR-1539 Certificate Number
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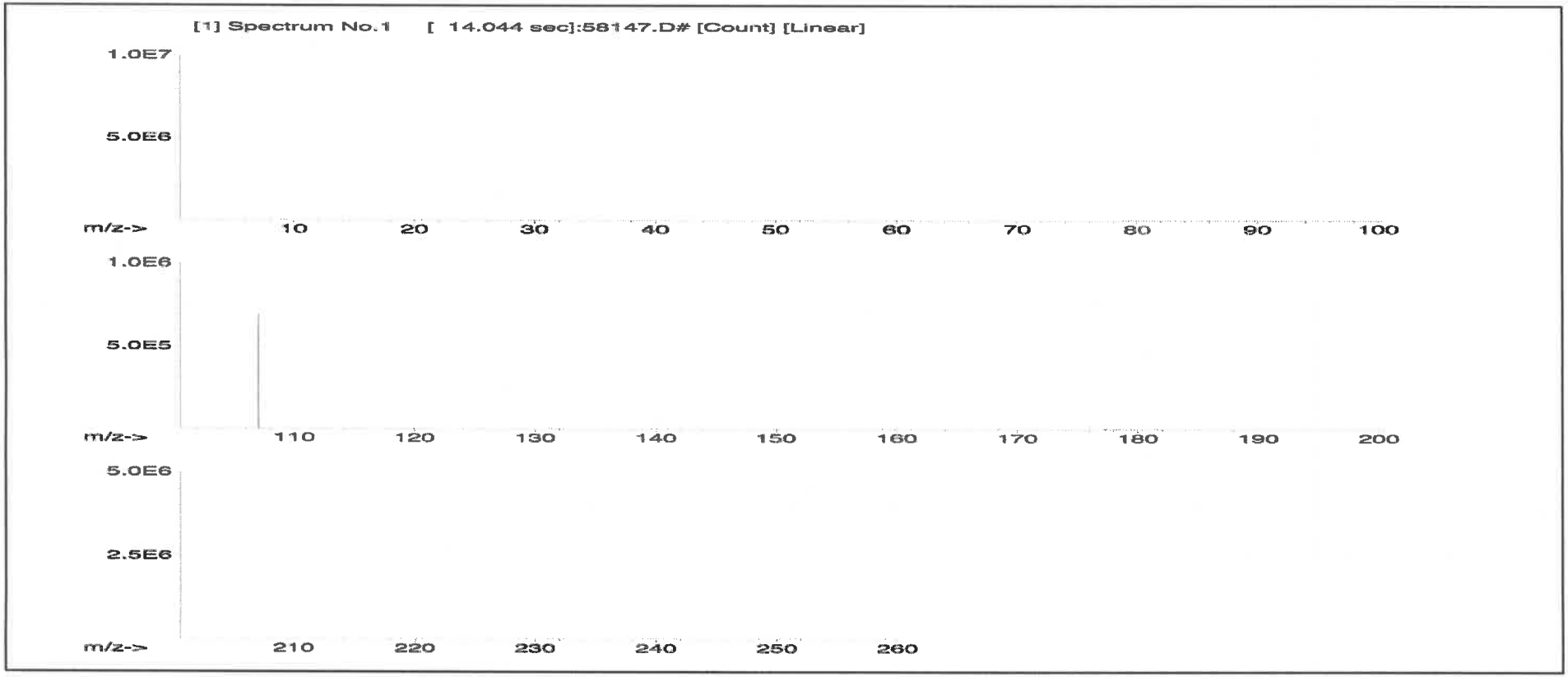
621

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



622

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:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

R: 8/5/24 M6019

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**998 ± 4 µg/mL** ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	**1001 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**1001 ± 2 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

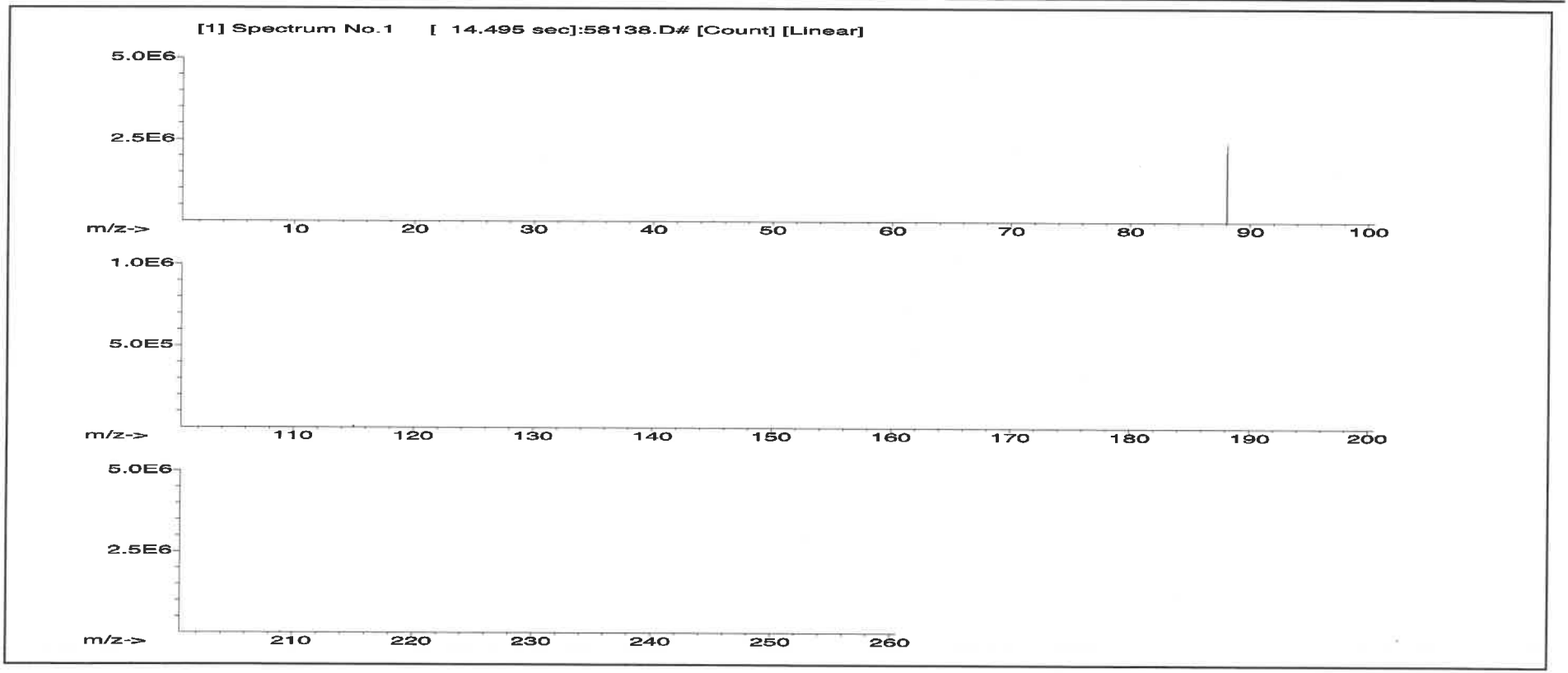
627

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



628

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6023

R ! 8/5/24

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AR-1539 Certificate Number
https://Absolutestandards.com

629

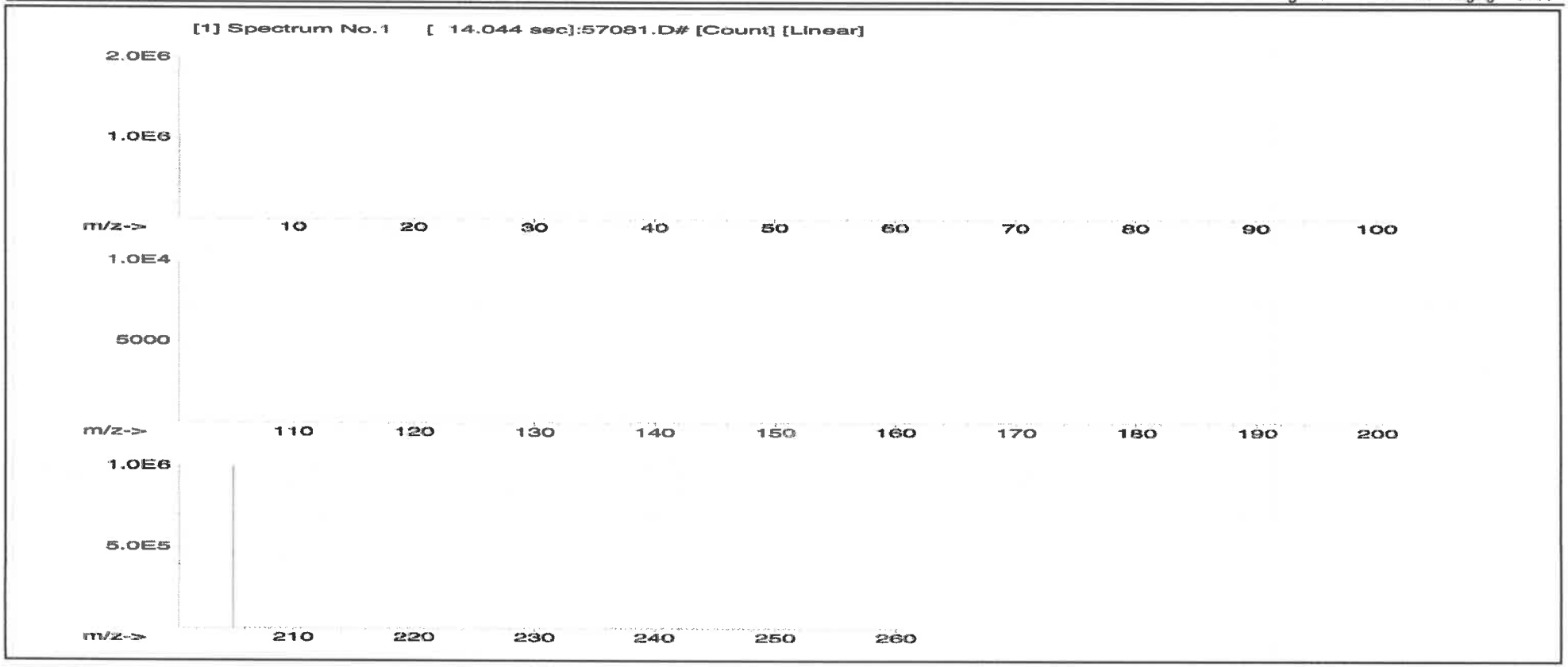
CERTIFIED WEIGHT REPORT:

		Lot #	
Part Number:	**57081**	**Solvent:** 24002546	Nitric Acid
Lot Number:	**062724**		
Description:	**Thallium (Tl)**	2% 40.0 (mL)	Nitric Acid
Expiration Date:	062727		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.1	0.10 Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



630

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
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https://Absolutestandards.com

Rc. 8/5/24

631

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	

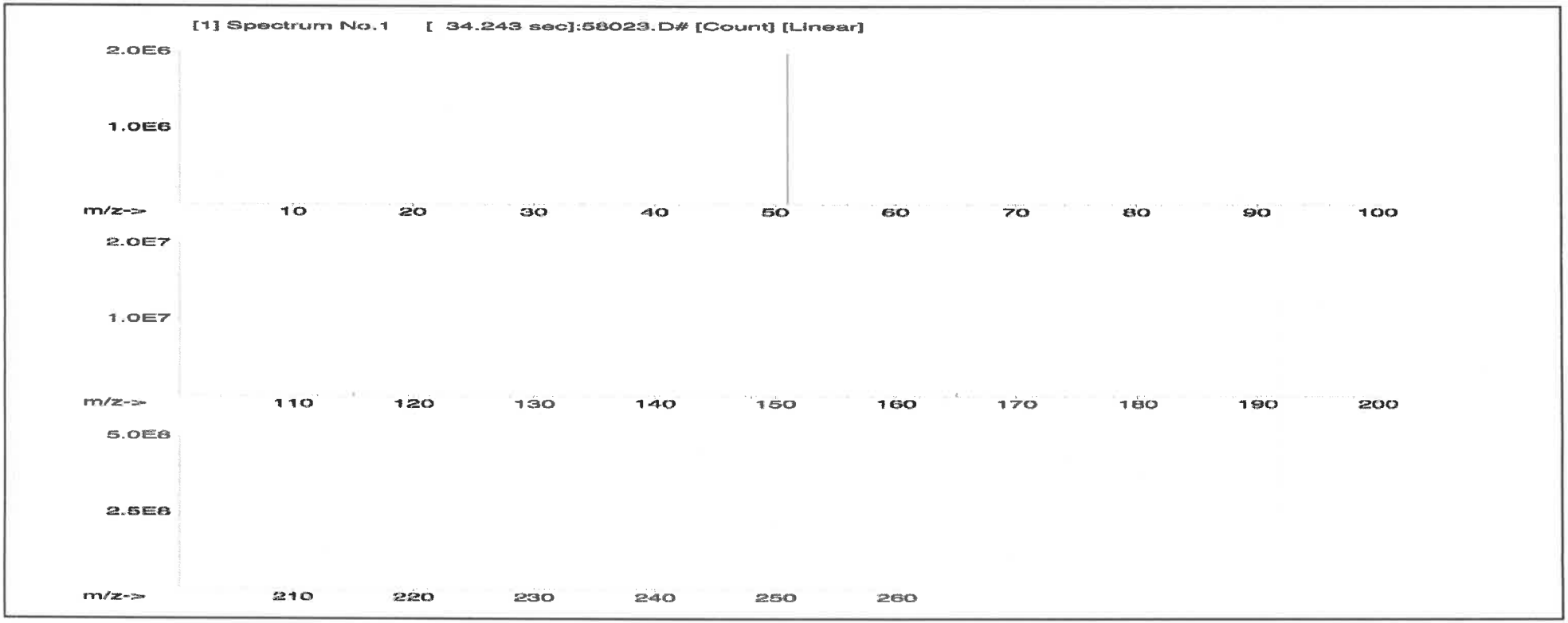
Aleah O'Brady

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



632

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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Certified by:

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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166155

SJ 02/06/25

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : YE8G3 **Start Digest Date:** 01/21/2025 **Time :** ~~10:15~~ 10:45 **Temp :** 96 °C

Matrix : SOIL **End Digest Date:** 01/21/2025 **Time :** 12:45 **Temp :** 96 °C

Pippete ID: ICP A **Digestion tube ID:** M6054

Balance ID : M SC-2 **Block thermometer ID:** MET-DIG. #5

Filter paper ID : N/A **Dig Technician Signature:** SLG.

pH Strip ID : N/A **Supervisor Signature:** JP

Hood ID : #3 **Temp :** **1.** 96°C **2.** N/A

Block ID: **1.** HOT BLOCK #5 **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP84063
Spike Sol 6	1.00	MP84070
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	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
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 #5 CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/21/25 13:45	SKS. mot digestion.	JP / MET DIG
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166155

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166155BL	PBS155	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166155BS	LCS155	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP84063	2
Q1105-01	YE8G3	N/A	1.15	100	Gray	Yellow	Medium	N/A	N/A	3
Q1105-02	YE8G5	N/A	1.14	100	Gray	Yellow	Medium	N/A	N/A	4
Q1105-03	YE8G6	N/A	1.41	100	Gray	Yellow	Medium	N/A	N/A	5
Q1105-04	YE8G6D	N/A	1.19	100	Gray	Yellow	Medium	N/A	N/A	6
Q1105-05	YE8G6S	N/A	1.08	100	Gray	Yellow	Medium	N/A	MP84070	7
Q1105-06	YE8H0	N/A	1.30	100	Gray	Yellow	Medium	N/A	N/A	8
Q1105-07	YE8H1	N/A	1.18	100	Gray	Yellow	Medium	N/A	N/A	9
Q1105-08	YE8H2	N/A	1.07	100	Black	Yellow	Medium	N/A	N/A	10
Q1105-09	YE8H3	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	11
Q1105-10	YE8H4	N/A	1.19	100	Gray	Yellow	Medium	N/A	N/A	12
Q1105-11	YE8H5	N/A	1.19	100	Brown	Yellow	Medium	N/A	N/A	13
Q1105-12	YE8H6	N/A	1.26	100	Gray	Yellow	Medium	N/A	N/A	14
Q1105-13	YE8E9	N/A	1.30	100	Gray	Yellow	Medium	N/A	N/A	15
Q1105-14	YE8F0	N/A	1.22	100	Gray	Yellow	Medium	N/A	N/A	16
Q1105-15	YE8F1	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	17
Q1105-16	YE8F2	N/A	1.16	100	Brown	Yellow	Medium	N/A	N/A	18
Q1105-17	YE8F3	N/A	1.40	100	Gray	Yellow	Medium	N/A	N/A	19
Q1105-18	YE8F4	N/A	1.36	100	Brown	Yellow	Medium	N/A	N/A	20
Q1105-19	YE8F6	N/A	1.46	100	Gray	Yellow	Medium	N/A	N/A	21
Q1105-20	YE8G0	N/A	1.12	100	Gray	Yellow	Medium	N/A	N/A	22
Q1105-21	YE8G1	N/A	1.33	100	Gray	Yellow	Medium	N/A	N/A	23
Q1105-22	YE8G2	N/A	1.36	100	Gray	Yellow	Medium	N/A	N/A	24

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134411

Review By	Sarabjit Jaswal	Review On	1/27/2025 6:20:54 AM
Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/24/25 11:36		Kareem	OK
2	S1	S01	CAL2	01/24/25 11:40		Kareem	OK
3	S2	S02	CAL3	01/24/25 11:44		Kareem	OK
4	S3	S03	CAL4	01/24/25 11:48		Kareem	OK
5	S4	S04	CAL5	01/24/25 11:52		Kareem	OK
6	S5	S05	CAL6	01/24/25 11:56		Kareem	OK
7	S6	S06	CAL7	01/24/25 12:01		Kareem	OK
8	ICV002	ICV002	ICV	01/24/25 12:18	Inst. paused for calibration review	Kareem	OK
9	ICB002	ICB002	ICB	01/24/25 12:23		Kareem	OK
10	ICSA002	ICSA002	ICSA	01/24/25 12:29	Inst. paused for review	Kareem	OK
11	ICSAB002	ICSAB002	ICSAB	01/24/25 12:36	Inst. paused for review	Kareem	OK
12	CCV013	CCV013	CCV	01/24/25 12:59	Inst. paused for review	Kareem	OK
13	CCB013	CCB013	CCB	01/24/25 13:03		Kareem	OK
14	Q1046-02	GCQ19	SAM	01/24/25 13:07		Kareem	OK
15	Q1046-03	GCQ19D	DUP	01/24/25 13:12		Kareem	OK
16	Q1046-02L	GCQ19L	SD	01/24/25 13:16		Kareem	OK
17	Q1046-04	GCQ19S	MS	01/24/25 13:20		Kareem	OK
18	Q1045-07DL	GCQ04	SAM	01/24/25 13:24	2x for Ba	Kareem	Confirms

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134411

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ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

19	Q1045-08DL	GCQ04D	DUP	01/24/25 13:28	2x for Ba	Kareem	Confirms
20	Q1045-07LDL	GCQ04L	SD	01/24/25 13:32	10x for Ba	Kareem	Confirms
21	Q1045-09DL	GCQ04S	MS	01/24/25 13:36	2x for Ba	Kareem	Confirms
22	Q1039-10DL	GCPE5	SAM	01/24/25 13:40	2x for Ba	Kareem	Confirms
23	Q1042-09DL	GCPJ2	SAM	01/24/25 13:45	2x for Ba	Kareem	Confirms
24	Q1044-13DL	GCPY8	SAM	01/24/25 13:49	2x for Ba	Kareem	Confirms
25	Q1044-16DL	GCPZ1	SAM	01/24/25 13:53	2x for Ba	Kareem	Confirms
26	Q1044-18DL	GCPZ3	SAM	01/24/25 13:57	2x for Ba	Kareem	Confirms
27	Q1044-19DL	GCPZ4	SAM	01/24/25 14:01	2x for Ba	Kareem	Confirms
28	Q1044-20DL	GCPZ5	SAM	01/24/25 14:05	2x for Ba	Kareem	Confirms
29	Q1044-21DL	GCPZ6	SAM	01/24/25 14:09	2x for Ba	Kareem	Confirms
30	Q1045-01DL	GCPZ8	SAM	01/24/25 14:14	2x for Ba	Kareem	Confirms
31	Q1045-03DL	GCQ00	SAM	01/24/25 14:18	2x for Ba	Kareem	Confirms
32	Q1045-04DL	GCQ01	SAM	01/24/25 14:22	2x for Ba	Kareem	Confirms
33	Q1045-05DL	GCQ02	SAM	01/24/25 14:26	2x for Ba	Kareem	Confirms
34	CCV014	CCV014	CCV	01/24/25 14:30		Kareem	OK
35	CCB014	CCB014	CCB	01/24/25 14:35		Kareem	OK
36	Q1045-10DL	GCQ05	SAM	01/24/25 14:39	NOT USE	Kareem	Not Ok
37	Q1045-11DL	GCQ06	SAM	01/24/25 14:43	2x for Ba	Kareem	Confirms
38	Q1045-13DL	GCQ08	SAM	01/24/25 14:47	2x for Ba	Kareem	Confirms

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134411

Review By	Sarabjit Jaswal	Review On	1/27/2025 6:20:54 AM
Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

39	Q1045-16DL	GCQ11	SAM	01/24/25 14:51	2x for Ba	Kareem	Confirms
40	Q1045-18DL	GCQ13	SAM	01/24/25 14:55	2x for Ba	Kareem	Confirms
41	Q1045-20DL	GCQ15	SAM	01/24/25 14:59	2x for Ba	Kareem	Confirms
42	Q1045-22DL	GCQ17	SAM	01/24/25 15:03	NOT USE	Kareem	Not Ok
43	Q1046-01DL	GCQ18	SAM	01/24/25 15:08	NOT USE	Kareem	Not Ok
44	Q1046-10DL	GCQ25	SAM	01/24/25 15:12	2x for Ba	Kareem	Confirms
45	Q1046-11DL	GCQ26	SAM	01/24/25 15:16	NOT USE	Kareem	Not Ok
46	Q1047-07DL	GCQ42	SAM	01/24/25 15:20	2x for Ba	Kareem	Confirms
47	Q1047-08DL	GCQ43	SAM	01/24/25 15:25	2x for Ba	Kareem	Confirms
48	Q1047-09DL	GCQ44	SAM	01/24/25 15:29	2x for Ba	Kareem	Confirms
49	Q1047-10DL	GCQ45	SAM	01/24/25 15:33	2x for Ba	Kareem	Confirms
50	Q1047-11DL	GCQ46	SAM	01/24/25 15:37	2x for Ba	Kareem	Confirms
51	Q1045-22DL2	GCQ17	SAM	01/24/25 15:41	5x for Ba	Kareem	Confirms
52	Q1045-10DL2	GCQ05	SAM	01/24/25 15:45	5x for Ba	Kareem	Confirms
53	Q1046-01DL2	GCQ18	SAM	01/24/25 15:49	5x for Ba	Kareem	Confirms
54	Q1046-11DL2	GCQ26	SAM	01/24/25 15:53	5x for Ba	Kareem	Confirms
55	Q1047-12DL	GCQ47	SAM	01/24/25 15:58	2x for Ba	Kareem	Confirms
56	CCV015	CCV015	CCV	01/24/25 16:02		Kareem	OK
57	CCB015	CCB015	CCB	01/24/25 16:06		Kareem	OK
58	Q1047-21	GCQ56	SAM	01/24/25 16:10	Already analyzed	Kareem	Not Ok

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

Instrument ID: P4

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STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

59	Q1043-15	GCPL7	SAM	01/24/25 16:14	Already analyzed	Kareem	Not Ok
60	Q1047-13DL	GCQ48	SAM	01/24/25 16:18	2x for Ba	Kareem	Confirms
61	Q1047-14DL	GCQ49	SAM	01/24/25 16:22	2x for Ba	Kareem	Confirms
62	Q1047-15DL	GCQ50	SAM	01/24/25 16:26	2x for Ba	Kareem	Confirms
63	Q1047-17DL	GCQ52	SAM	01/24/25 16:30	2x for Ba	Kareem	Confirms
64	Q1047-18DL	GCQ53	SAM	01/24/25 16:34	2x for Ba	Kareem	Confirms
65	Q1047-19DL	GCQ54	SAM	01/24/25 16:38	2x for Ba	Kareem	Confirms
66	Q1047-20DL	GCQ55	SAM	01/24/25 16:42	2x for Ba	Kareem	Confirms
67	PB166163TB	LEB163	MB	01/24/25 16:46		Kareem	OK
68	Q1106-01	YE8G3	SAM	01/24/25 16:50	Ca high	Kareem	Dilution
69	Q1106-02	YE8G5	SAM	01/24/25 16:55	Mn high	Kareem	Dilution
70	Q1106-03	YE8G6	SAM	01/24/25 16:59		Kareem	OK
71	Q1106-04	YE8G6D	DUP	01/24/25 17:03		Kareem	OK
72	Q1106-03L	YE8G6L	SD	01/24/25 17:08		Kareem	OK
73	Q1106-05	YE8G6S	MS	01/24/25 17:12		Kareem	OK
74	Q1106-06	YE8H0	SAM	01/24/25 17:16		Kareem	OK
75	Q1106-07	YE8H1	SAM	01/24/25 17:20	Mn high	Kareem	Dilution
76	Q1106-08	YE8H2	SAM	01/24/25 17:24		Kareem	OK
77	Q1106-09	YE8H3	SAM	01/24/25 17:29		Kareem	OK
78	CCV016	CCV016	CCV	01/24/25 17:42		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134411

Review By	Sarabjit Jaswal	Review On	1/27/2025 6:20:54 AM
Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

79	CCB016	CCB016	CCB	01/24/25 17:46		Kareem	OK
80	Q1106-10	YE8H4	SAM	01/24/25 17:50		Kareem	OK
81	Q1106-11	YE8H5	SAM	01/24/25 17:54		Kareem	OK
82	Q1106-12	YE8H6	SAM	01/24/25 17:59	Mn high	Kareem	Dilution
83	Q1106-13	YE8F6	SAM	01/24/25 18:03		Kareem	OK
84	Q1106-14	YE8F9	SAM	01/24/25 18:07		Kareem	OK
85	Q1106-15	YE8G0	SAM	01/24/25 18:11		Kareem	OK
86	Q1106-16	YE8G1	SAM	01/24/25 18:15		Kareem	OK
87	Q1106-17	YE8G2	SAM	01/24/25 18:19		Kareem	OK
88	Q1106-18	YE8H9	SAM	01/24/25 18:23		Kareem	OK
89	Q1106-19	YE8J0	SAM	01/24/25 18:28		Kareem	OK
90	Q1106-20	YE8J1	SAM	01/24/25 18:32		Kareem	OK
91	PB166163BL	PBW163	MB	01/24/25 18:36		Kareem	OK
92	PB166163BS	LCS163	LCS	01/24/25 18:40		Kareem	OK
93	PB166132TB	LEB132	MB	01/24/25 18:44		Kareem	OK
94	Q1129-01	MJNLA3	SAM	01/24/25 18:48		Kareem	OK
95	Q1129-02	MJNLA3D	DUP	01/24/25 18:52		Kareem	OK
96	Q1129-01L	MJNLA3L	SD	01/24/25 18:57		Kareem	OK
97	Q1129-03	MJNLA3S	MS	01/24/25 19:01		Kareem	OK
98	PB166162BL	PBW162	MB	01/24/25 19:05		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

99	PB166162BS	LCS162	LCS	01/24/25 19:09		Kareem	OK
100	CCV017	CCV017	CCV	01/24/25 19:13		Kareem	OK
101	CCB017	CCB017	CCB	01/24/25 19:22	Inst. paused for review	Kareem	OK
102	Q1127-09	MJNLE5	SAM	01/24/25 19:26		Kareem	OK
103	Q1127-10	MJNLE5D	DUP	01/24/25 19:30		Kareem	OK
104	Q1127-09L	MJNLE5L	SD	01/24/25 19:34		Kareem	OK
105	Q1127-11	MJNLE5S	MS	01/24/25 19:39		Kareem	OK
106	PB166138BL	PBW138	MB	01/24/25 19:43		Kareem	OK
107	PB166138BS	LCS138	LCS	01/24/25 19:47		Kareem	OK
108	Q1105-01	YE8G3	SAM	01/24/25 19:51	Ca high	Kareem	Dilution
109	Q1105-02	YE8G5	SAM	01/24/25 19:55		Kareem	OK
110	Q1105-03	YE8G6	SAM	01/24/25 19:59		Kareem	OK
111	Q1105-04	YE8G6D	DUP	01/24/25 20:03		Kareem	OK
112	Q1105-03L	YE8G6L	SD	01/24/25 20:07		Kareem	OK
113	Q1105-05	YE8G6S	MS	01/24/25 20:11		Kareem	OK
114	Q1105-06	YE8H0	SAM	01/24/25 20:15		Kareem	OK
115	Q1105-07	YE8H1	SAM	01/24/25 20:19		Kareem	OK
116	Q1105-08	YE8H2	SAM	01/24/25 20:23		Kareem	OK
117	Q1105-09	YE8H3	SAM	01/24/25 20:27		Kareem	OK
118	Q1105-10	YE8H4	SAM	01/24/25 20:31		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

119	Q1105-11	YE8H5	SAM	01/24/25 20:35		Kareem	OK
120	Q1105-12	YE8H6	SAM	01/24/25 20:39		Kareem	OK
121	Q1105-13	YE8E9	SAM	01/24/25 20:43		Kareem	OK
122	CCV018	CCV018	CCV	01/24/25 20:47		Kareem	OK
123	CCB018	CCB018	CCB	01/24/25 20:56	Inst. paused for review	Kareem	OK
124	Q1105-14	YE8F0	SAM	01/24/25 21:00		Kareem	OK
125	Q1105-15	YE8F1	SAM	01/24/25 21:04		Kareem	OK
126	Q1105-16	YE8F2	SAM	01/24/25 21:08		Kareem	OK
127	Q1105-17	YE8F3	SAM	01/24/25 21:12		Kareem	OK
128	Q1105-18	YE8F4	SAM	01/24/25 21:16		Kareem	OK
129	Q1105-19	YE8F6	SAM	01/24/25 21:20		Kareem	OK
130	Q1105-20	YE8G0	SAM	01/24/25 21:24		Kareem	OK
131	Q1105-21	YE8G1	SAM	01/24/25 21:28		Kareem	OK
132	Q1105-22	YE8G2	SAM	01/24/25 21:32		Kareem	OK
133	PB166155BL	PBS155	MB	01/24/25 21:36		Kareem	OK
134	PB166155BS	LCS155	LCS	01/24/25 21:40		Kareem	OK
135	Q1135-01	YE8F5	SAM	01/24/25 21:44		Kareem	OK
136	Q1135-02	YE8F7	SAM	01/24/25 21:48		Kareem	OK
137	Q1135-03	YE8F7D	DUP	01/24/25 21:52		Kareem	OK
138	Q1135-02L	YE8F7L	SD	01/24/25 21:56		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

139	Q1135-04	YE8F7S	MS	01/24/25 22:00		Kareem	OK
140	Q1135-05	YE8F8	SAM	01/24/25 22:05		Kareem	OK
141	Q1135-06	YE8F9	SAM	01/24/25 22:09		Kareem	OK
142	Q1135-07	YE8H9	SAM	01/24/25 22:13		Kareem	OK
143	Q1135-08	YE8J0	SAM	01/24/25 22:17		Kareem	OK
144	CCV019	CCV019	CCV	01/24/25 22:21		Kareem	OK
145	CCB019	CCB019	CCB	01/24/25 22:29	Inst. paused for review	Kareem	OK
146	Q1135-10	YE8J1	SAM	01/24/25 22:33		Kareem	OK
147	Q1135-11	YE8E3	SAM	01/24/25 22:38		Kareem	OK
148	Q1135-12	YE8E4	SAM	01/24/25 22:42		Kareem	OK
149	Q1135-13	YE8E5	SAM	01/24/25 22:46		Kareem	OK
150	Q1135-14	YE8E6	SAM	01/24/25 22:50		Kareem	OK
151	Q1135-15	YE8E7	SAM	01/24/25 22:54		Kareem	OK
152	Q1135-16	YE8E8	SAM	01/24/25 22:58		Kareem	OK
153	Q1135-17	YE8D2	SAM	01/24/25 23:01		Kareem	OK
154	Q1135-18	YE8D4	SAM	01/24/25 23:05		Kareem	OK
155	Q1135-19	YE8C3	SAM	01/24/25 23:09		Kareem	OK
156	Q1135-21	YE8D0	SAM	01/24/25 23:14		Kareem	OK
157	Q1135-22	YE8D5	SAM	01/24/25 23:17		Kareem	OK
158	PB166196BL	PBS196	MB	01/24/25 23:21		Kareem	OK

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Review By	Sarabjit Jaswal	Review On	1/27/2025 6:20:54 AM
Supervise By	Mohan Bera	Supervise On	1/27/2025 6:21:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84069
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

159	PB166196BS	LCS196	LCS	01/24/25 23:26		Kareem	OK
160	CCV020	CCV020	CCV	01/24/25 23:30		Kareem	OK
161	CCB020	CCB020	CCB	01/24/25 23:38	Inst. paused for review	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134438

Review By	Sarabjit Jaswal	Review On	1/28/2025 6:59:17 AM
Supervise By	Kareem Khairalla	Supervise On	1/28/2025 12:16:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	
Chk Standard	MP84218,MP84219

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/27/25 14:23		Kareem	OK
2	S1	S01	CAL2	01/27/25 14:27		Kareem	OK
3	S2	S02	CAL3	01/27/25 14:32		Kareem	OK
4	S3	S03	CAL4	01/27/25 14:36		Kareem	OK
5	S4	S04	CAL5	01/27/25 14:40		Kareem	OK
6	S5	S05	CAL6	01/27/25 14:44		Kareem	OK
7	S6	S06	CAL7	01/27/25 14:48		Kareem	OK
8	ICV003	ICV003	ICV	01/27/25 15:41	Inst. paused for calibration review	Kareem	OK
9	ICB003	ICB003	ICB	01/27/25 15:45		Kareem	OK
10	ICSA003	ICSA003	ICSA	01/27/25 15:56	Inst. paused for review	Kareem	OK
11	ICSAB003	ICSAB003	ICSAB	01/27/25 16:01		Kareem	OK
12	CCV021	CCV021	CCV	01/27/25 16:10	Inst. paused for review	Kareem	OK
13	CCB021	CCB021	CCB	01/27/25 16:14		Kareem	OK
14	Q1106-01DL	YE8G3	SAM	01/27/25 16:19	2x for Ca	Kareem	Confirms
15	Q1106-02DL	YE8G5	SAM	01/27/25 16:23	2x for Mn	Kareem	Confirms
16	Q1106-07DL	YE8H1	SAM	01/27/25 16:27	2x for Mn	Kareem	Confirms
17	Q1106-12DL	YE8H6	SAM	01/27/25 16:31	2x for Mn	Kareem	Confirms
18	Q1045-17DL	GCQ12	SAM	01/27/25 16:39	2x for Ba	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134438

Review By	Sarabjit Jaswal	Review On	1/28/2025 6:59:17 AM
Supervise By	Kareem Khairalla	Supervise On	1/28/2025 12:16:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	
Chk Standard	MP84218,MP84219

19	PB166225TB	LEB225	MB	01/27/25 16:43		Kareem	OK
20	Q1136-01	YE8F5	SAM	01/27/25 16:47		Kareem	OK
21	Q1136-02	YE8F7	SAM	01/27/25 16:56	NOT USE	Kareem	Not Ok
22	Q1105-01DL	YE8G3	SAM	01/27/25 17:00	5x for Ca	Kareem	Confirms
23	Q1136-03	YE8F7D	DUP	01/27/25 17:04	NOT USE	Kareem	Not Ok
24	Q1136-02L	YE8F7L	SD	01/27/25 17:08	NOT USE	Kareem	Not Ok
25	Q1136-04	YE8F7S	MS	01/27/25 17:12	NOT USE	Kareem	Not Ok
26	Q1136-05	YE8F8	SAM	01/27/25 17:16		Kareem	OK
27	Q1136-06	YE8E3	SAM	01/27/25 17:20		Kareem	OK
28	Q1136-07	YE8E4	SAM	01/27/25 17:24		Kareem	OK
29	Q1136-08	YE8E5	SAM	01/27/25 17:28		Kareem	OK
30	Q1136-09	YE8E6	SAM	01/27/25 17:32		Kareem	OK
31	Q1136-10	YE8E7	SAM	01/27/25 17:36		Kareem	OK
32	Q1136-11	YE8E8	SAM	01/27/25 17:40		Kareem	OK
33	Q1136-12	YE8D1	SAM	01/27/25 17:44		Kareem	OK
34	CCV022	CCV022	CCV	01/27/25 17:57		Kareem	OK
35	CCB022	CCB022	CCB	01/27/25 18:01		Kareem	OK
36	Q1136-13	YE8D2	SAM	01/27/25 18:05		Kareem	OK
37	Q1136-14	YE8D4	SAM	01/27/25 18:09		Kareem	OK
38	Q1136-15	YE8C3	SAM	01/27/25 18:13		Kareem	OK

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Supervise By	Kareem Khairalla	Supervise On	1/28/2025 12:16:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	
Chk Standard	MP84218,MP84219

39	Q1136-17	YE8D5	SAM	01/27/25 18:17		Kareem	OK
40	PB166225BL	PBW225	MB	01/27/25 18:21		Kareem	OK
41	PB166225BS	LCS225	LCS	01/27/25 18:26		Kareem	OK
42	Q1151-01	MC0AZ0	SAM	01/27/25 18:30	NOT USE	Kareem	Not Ok
43	Q1151-02	MC0AZ1	SAM	01/27/25 18:34	Co,Ni high	Kareem	Dilution
44	Q1151-03	MC0AZ2	SAM	01/27/25 18:38	Co,Ni high	Kareem	Dilution
45	Q1151-04	MC0AZ3	SAM	01/27/25 18:42		Kareem	OK
46	Q1151-05	MC0AZ4	SAM	01/27/25 18:46	Co high	Kareem	Dilution
47	Q1151-06	MC0AZ5	SAM	01/27/25 18:50		Kareem	OK
48	Q1151-07	MC0AZ6	SAM	01/27/25 18:54		Kareem	OK
49	Q1151-08	MC0AZ7	SAM	01/27/25 18:58		Kareem	OK
50	Q1151-09	MC0AZ7D	DUP	01/27/25 19:01		Kareem	OK
51	Q1151-08L	MC0AZ7L	SD	01/27/25 19:05		Kareem	OK
52	Q1151-10	MC0AZ7S	MS	01/27/25 19:09	MS fail for As(76.26 ppb), Be(17.66 ppb), Cu(243.04 ppb), Mn(384.13 ppb), Zn(541.32 ppb) & Sb,Se,Ag (Below RL)	Kareem	OK
53	Q1151-11	MC0B00	SAM	01/27/25 19:13		Kareem	OK
54	CCV023	CCV023	CCV	01/27/25 19:21		Kareem	OK
55	CCB023	CCB023	CCB	01/27/25 19:26		Kareem	OK
56	Q1151-12	MC0B01	SAM	01/27/25 19:30		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134438

Review By	Sarabjit Jaswal	Review On	1/28/2025 6:59:17 AM
Supervise By	Kareem Khairalla	Supervise On	1/28/2025 12:16:01 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	
Chk Standard	MP84218,MP84219

57	Q1163-01	ME2946	SAM	01/27/25 19:34	Fe high	Kareem	Dilution
58	Q1163-02	ME2947	SAM	01/27/25 19:38	Ca high	Kareem	Dilution
59	Q1163-03	ME2947D	DUP	01/27/25 19:42	Ca high	Kareem	Dilution
60	Q1163-02L	ME2947L	SD	01/27/25 19:47	Ca high	Kareem	Dilution
61	Q1163-04	ME2947S	MS	01/27/25 19:51		Kareem	OK
62	PB166229BL	PBS229	MB	01/27/25 19:55		Kareem	OK
63	PB166229BS	LCS229	LCS	01/27/25 19:59		Kareem	OK
64	Q1181-01	MBHH96	SAM	01/27/25 20:03		Kareem	OK
65	Q1181-02	MBHH97	SAM	01/27/25 20:07		Kareem	OK
66	Q1181-03	MBHH98	SAM	01/27/25 20:11		Kareem	OK
67	Q1181-04	MBHH99	SAM	01/27/25 20:15		Kareem	OK
68	Q1181-05	MBHH99D	DUP	01/27/25 20:19		Kareem	OK
69	Q1181-04L	MBHH99L	SD	01/27/25 20:23		Kareem	OK
70	Q1181-06	MBHH99S	MS	01/27/25 20:27		Kareem	OK
71	PB166278BL	PBS278	MB	01/27/25 20:31		Kareem	OK
72	PB166278BS	LCS278	LCS	01/27/25 20:35		Kareem	OK
73	CCV024	CCV024	CCV	01/27/25 20:44		Kareem	OK
74	CCB024	CCB024	CCB	01/27/25 20:48		Kareem	OK

EPA SAMPLE NO.

YE8E9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-13

% Solids: 92.2 Date Received: 01/18/2025

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
7440-36-0	Antimony	1.1		01/24/2025	1628
7440-38-2	Arsenic	53		01/24/2025	1628
7440-39-3	Barium	23		01/24/2025	1628
7440-41-7	Beryllium	0.079	J	01/24/2025	1628
7440-43-9	Cadmium	0.20	J	01/24/2025	1628
7440-47-3	Chromium	1.5		01/24/2025	1628
7440-48-4	Cobalt	4.7		01/24/2025	1628
7440-50-8	Copper	32		01/24/2025	1628
7439-92-1	Lead	17		01/24/2025	1628
7439-96-5	Manganese	230	*	01/24/2025	1628
7440-02-0	Nickel	17		01/24/2025	1628
7782-49-2	Selenium	0.61	J	01/24/2025	1628
7439-98-7	Molybdenum	1.1	J	01/24/2025	1628
7440-22-4	Silver	0.53		01/24/2025	1628
7440-28-0	Thallium	0.42	U	01/24/2025	1628
7440-62-2	Vanadium	2.0	J	01/24/2025	1628
7440-66-6	Zinc	42		01/24/2025	1628
7440-24-6	Strontium	81		01/24/2025	1628

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

Comments:

EPA SAMPLE NO.

YE8F0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-14

% Solids: 97.3 Date Received: 01/18/2025

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
7440-36-0	Antimony	1.2		01/24/2025	1631
7440-38-2	Arsenic	73		01/24/2025	1631
7440-39-3	Barium	33		01/24/2025	1631
7440-41-7	Beryllium	0.091	J	01/24/2025	1631
7440-43-9	Cadmium	0.22	J	01/24/2025	1631
7440-47-3	Chromium	1.6		01/24/2025	1631
7440-48-4	Cobalt	5.6		01/24/2025	1631
7440-50-8	Copper	37		01/24/2025	1631
7439-92-1	Lead	33		01/24/2025	1631
7439-96-5	Manganese	240	*	01/24/2025	1631
7440-02-0	Nickel	17		01/24/2025	1631
7782-49-2	Selenium	1.1	J	01/24/2025	1631
7439-98-7	Molybdenum	1.4	J	01/24/2025	1631
7440-22-4	Silver	0.64		01/24/2025	1631
7440-28-0	Thallium	0.41	U	01/24/2025	1631
7440-62-2	Vanadium	2.5		01/24/2025	1631
7440-66-6	Zinc	50		01/24/2025	1631
7440-24-6	Strontium	92		01/24/2025	1631

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

Comments:

EPA SAMPLE NO.

YE8F1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-15

% Solids: 92 Date Received: 01/18/2025

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
7440-36-0	Antimony	0.67	J	01/24/2025	1635
7440-38-2	Arsenic	44		01/24/2025	1635
7440-39-3	Barium	21		01/24/2025	1635
7440-41-7	Beryllium	0.41	U	01/24/2025	1635
7440-43-9	Cadmium	0.13	J	01/24/2025	1635
7440-47-3	Chromium	1.1		01/24/2025	1635
7440-48-4	Cobalt	2.9		01/24/2025	1635
7440-50-8	Copper	23		01/24/2025	1635
7439-92-1	Lead	16		01/24/2025	1635
7439-96-5	Manganese	350	*	01/24/2025	1635
7440-02-0	Nickel	10		01/24/2025	1635
7782-49-2	Selenium	0.41	J	01/24/2025	1635
7439-98-7	Molybdenum	0.64	J	01/24/2025	1635
7440-22-4	Silver	0.66		01/24/2025	1635
7440-28-0	Thallium	0.41	U	01/24/2025	1635
7440-62-2	Vanadium	3.3		01/24/2025	1635
7440-66-6	Zinc	35		01/24/2025	1635
7440-24-6	Strontium	32	J	01/24/2025	1635

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

Comments:

EPA SAMPLE NO.

YE8F2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-16

% Solids: 80.8 Date Received: 01/18/2025

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
7440-36-0	Antimony	1.7		01/24/2025	1638
7440-38-2	Arsenic	78		01/24/2025	1638
7440-39-3	Barium	28		01/24/2025	1638
7440-41-7	Beryllium	0.10	J	01/24/2025	1638
7440-43-9	Cadmium	0.39	J	01/24/2025	1638
7440-47-3	Chromium	2.1		01/24/2025	1638
7440-48-4	Cobalt	6.8		01/24/2025	1638
7440-50-8	Copper	53		01/24/2025	1638
7439-92-1	Lead	53		01/24/2025	1638
7439-96-5	Manganese	250	*	01/24/2025	1638
7440-02-0	Nickel	24		01/24/2025	1638
7782-49-2	Selenium	1.4	J	01/24/2025	1638
7439-98-7	Molybdenum	1.3	J	01/24/2025	1638
7440-22-4	Silver	0.86		01/24/2025	1638
7440-28-0	Thallium	0.56	U	01/24/2025	1638
7440-62-2	Vanadium	3.7		01/24/2025	1638
7440-66-6	Zinc	150		01/24/2025	1638
7440-24-6	Strontium	26	J	01/24/2025	1638

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

Comments:

EPA SAMPLE NO.

YE8F3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-17

% Solids: 89.5 Date Received: 01/18/2025

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
7440-36-0	Antimony	1.5		01/24/2025	1641
7440-38-2	Arsenic	82		01/24/2025	1641
7440-39-3	Barium	31		01/24/2025	1641
7440-41-7	Beryllium	0.12	J	01/24/2025	1641
7440-43-9	Cadmium	0.28	J	01/24/2025	1641
7440-47-3	Chromium	2.1		01/24/2025	1641
7440-48-4	Cobalt	6.9		01/24/2025	1641
7440-50-8	Copper	38		01/24/2025	1641
7439-92-1	Lead	43		01/24/2025	1641
7439-96-5	Manganese	280	*	01/24/2025	1641
7440-02-0	Nickel	24		01/24/2025	1641
7782-49-2	Selenium	1.2	J	01/24/2025	1641
7439-98-7	Molybdenum	1.2	J	01/24/2025	1641
7440-22-4	Silver	0.67		01/24/2025	1641
7440-28-0	Thallium	0.47	U	01/24/2025	1641
7440-62-2	Vanadium	3.3		01/24/2025	1641
7440-66-6	Zinc	68		01/24/2025	1641
7440-24-6	Strontium	100		01/24/2025	1641

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

Comments:

EPA SAMPLE NO.

YE8F4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-18

% Solids: 92.1 Date Received: 01/18/2025

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
7440-36-0	Antimony	0.65	J	01/24/2025	1645
7440-38-2	Arsenic	35		01/24/2025	1645
7440-39-3	Barium	21		01/24/2025	1645
7440-41-7	Beryllium	0.41	U	01/24/2025	1645
7440-43-9	Cadmium	0.32	J	01/24/2025	1645
7440-47-3	Chromium	1.2		01/24/2025	1645
7440-48-4	Cobalt	2.9		01/24/2025	1645
7440-50-8	Copper	18		01/24/2025	1645
7439-92-1	Lead	22		01/24/2025	1645
7439-96-5	Manganese	230	*	01/24/2025	1645
7440-02-0	Nickel	6.5		01/24/2025	1645
7782-49-2	Selenium	0.40	J	01/24/2025	1645
7439-98-7	Molybdenum	0.52	J	01/24/2025	1645
7440-22-4	Silver	0.18	J	01/24/2025	1645
7440-28-0	Thallium	0.41	U	01/24/2025	1645
7440-62-2	Vanadium	3.0		01/24/2025	1645
7440-66-6	Zinc	120		01/24/2025	1645
7440-24-6	Strontium	34	J	01/24/2025	1645

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

Comments:

EPA SAMPLE NO.

YE8F6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-19

% Solids: 90.8 Date Received: 01/18/2025

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
7440-36-0	Antimony	1.6		01/24/2025	1648
7440-38-2	Arsenic	78		01/24/2025	1648
7440-39-3	Barium	36		01/24/2025	1648
7440-41-7	Beryllium	0.24	J	01/24/2025	1648
7440-43-9	Cadmium	0.53		01/24/2025	1648
7440-47-3	Chromium	17		01/24/2025	1648
7440-48-4	Cobalt	20		01/24/2025	1648
7440-50-8	Copper	71		01/24/2025	1648
7439-92-1	Lead	12		01/24/2025	1648
7439-96-5	Manganese	530	*	01/24/2025	1648
7440-02-0	Nickel	70		01/24/2025	1648
7782-49-2	Selenium	0.87	J	01/24/2025	1648
7439-98-7	Molybdenum	2.0		01/24/2025	1648
7440-22-4	Silver	0.32	J	01/24/2025	1648
7440-28-0	Thallium	0.065	J	01/24/2025	1648
7440-62-2	Vanadium	21		01/24/2025	1648
7440-66-6	Zinc	84		01/24/2025	1648
7440-24-6	Strontium	64	J	01/24/2025	1648

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

Comments:

EPA SAMPLE NO.

YE8G0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-20

% Solids: 93.1 Date Received: 01/18/2025

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
7440-36-0	Antimony	0.84	J	01/24/2025	1651
7440-38-2	Arsenic	10		01/24/2025	1651
7440-39-3	Barium	74		01/24/2025	1651
7440-41-7	Beryllium	0.33	J	01/24/2025	1651
7440-43-9	Cadmium	0.22	J	01/24/2025	1651
7440-47-3	Chromium	15		01/24/2025	1651
7440-48-4	Cobalt	18		01/24/2025	1651
7440-50-8	Copper	58		01/24/2025	1651
7439-92-1	Lead	9.5		01/24/2025	1651
7439-96-5	Manganese	340	*	01/24/2025	1651
7440-02-0	Nickel	32		01/24/2025	1651
7782-49-2	Selenium	0.75	J	01/24/2025	1651
7439-98-7	Molybdenum	2.2		01/24/2025	1651
7440-22-4	Silver	0.15	J	01/24/2025	1651
7440-28-0	Thallium	0.47	U	01/24/2025	1651
7440-62-2	Vanadium	25		01/24/2025	1651
7440-66-6	Zinc	62		01/24/2025	1651
7440-24-6	Strontium	8.1	J	01/24/2025	1651

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

Comments:

EPA SAMPLE NO.

YE8G1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-21

% Solids: 80.3 Date Received: 01/18/2025

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
7440-36-0	Antimony	0.54	J	01/24/2025	1654
7440-38-2	Arsenic	13		01/24/2025	1654
7440-39-3	Barium	78		01/24/2025	1654
7440-41-7	Beryllium	0.40	J	01/24/2025	1654
7440-43-9	Cadmium	0.28	J	01/24/2025	1654
7440-47-3	Chromium	16		01/24/2025	1654
7440-48-4	Cobalt	19		01/24/2025	1654
7440-50-8	Copper	60		01/24/2025	1654
7439-92-1	Lead	10		01/24/2025	1654
7439-96-5	Manganese	540	*	01/24/2025	1654
7440-02-0	Nickel	62		01/24/2025	1654
7782-49-2	Selenium	0.73	J	01/24/2025	1654
7439-98-7	Molybdenum	4.0		01/24/2025	1654
7440-22-4	Silver	0.14	J	01/24/2025	1654
7440-28-0	Thallium	0.49	U	01/24/2025	1654
7440-62-2	Vanadium	25		01/24/2025	1654
7440-66-6	Zinc	80		01/24/2025	1654
7440-24-6	Strontium	14	J	01/24/2025	1654

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

Comments:

EPA SAMPLE NO.

YE8G2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-22

% Solids: 94.9 Date Received: 01/18/2025

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
7440-36-0	Antimony	0.19	J	01/24/2025	1658
7440-38-2	Arsenic	9.1		01/24/2025	1658
7440-39-3	Barium	58		01/24/2025	1658
7440-41-7	Beryllium	0.52		01/24/2025	1658
7440-43-9	Cadmium	0.35	J	01/24/2025	1658
7440-47-3	Chromium	18		01/24/2025	1658
7440-48-4	Cobalt	36		01/24/2025	1658
7440-50-8	Copper	44		01/24/2025	1658
7439-92-1	Lead	8.2		01/24/2025	1658
7439-96-5	Manganese	1000	*	01/24/2025	1658
7440-02-0	Nickel	100		01/24/2025	1658
7782-49-2	Selenium	2.0	U	01/24/2025	1658
7439-98-7	Molybdenum	1.3	J	01/24/2025	1658
7440-22-4	Silver	0.088	J	01/24/2025	1658
7440-28-0	Thallium	0.060	J	01/24/2025	1658
7440-62-2	Vanadium	27		01/24/2025	1658
7440-66-6	Zinc	120		01/24/2025	1658
7440-24-6	Strontium	12	J	01/24/2025	1658

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

Comments:

EPA SAMPLE NO.

YE8G3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-01

% Solids: 64.9 Date Received: 01/16/2025

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
7440-36-0	Antimony	4.3		01/24/2025	1536
7440-38-2	Arsenic	46		01/24/2025	1536
7440-39-3	Barium	150		01/24/2025	1536
7440-41-7	Beryllium	0.57	J	01/24/2025	1536
7440-43-9	Cadmium	1.6		01/24/2025	1536
7440-47-3	Chromium	44		01/24/2025	1536
7440-48-4	Cobalt	6.8		01/24/2025	1536
7440-50-8	Copper	48		01/24/2025	1536
7439-92-1	Lead	38		01/24/2025	1536
7439-96-5	Manganese	660	*	01/24/2025	1536
7440-02-0	Nickel	17		01/24/2025	1536
7782-49-2	Selenium	0.91	J	01/24/2025	1536
7439-98-7	Molybdenum	57		01/24/2025	1536
7440-22-4	Silver	0.19	J	01/24/2025	1536
7440-28-0	Thallium	0.65	U	01/24/2025	1536
7440-62-2	Vanadium	78		01/24/2025	1536
7440-66-6	Zinc	310		01/24/2025	1536
7440-24-6	Strontium	380		01/24/2025	1536

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

Comments:

EPA SAMPLE NO.

YE8G5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-02

% Solids: 94.8 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.31	J	01/24/2025	1539
7440-38-2	Arsenic	9.1		01/24/2025	1539
7440-39-3	Barium	47		01/24/2025	1539
7440-41-7	Beryllium	0.33	J	01/24/2025	1539
7440-43-9	Cadmium	0.47	U	01/24/2025	1539
7440-47-3	Chromium	78		01/24/2025	1539
7440-48-4	Cobalt	13		01/24/2025	1539
7440-50-8	Copper	68		01/24/2025	1539
7439-92-1	Lead	6.5		01/24/2025	1539
7439-96-5	Manganese	800	*	01/24/2025	1539
7440-02-0	Nickel	12		01/24/2025	1539
7782-49-2	Selenium	2.4	U	01/24/2025	1539
7439-98-7	Molybdenum	12		01/24/2025	1539
7440-22-4	Silver	0.052	J	01/24/2025	1539
7440-28-0	Thallium	0.47	U	01/24/2025	1539
7440-62-2	Vanadium	36		01/24/2025	1539
7440-66-6	Zinc	44		01/24/2025	1539
7440-24-6	Strontium	23	J	01/24/2025	1539

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

Comments:

EPA SAMPLE NO.

YE8G6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-03

% Solids: 76.8 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.15	J	01/24/2025	1542
7440-38-2	Arsenic	1.5		01/24/2025	1542
7440-39-3	Barium	19		01/24/2025	1542
7440-41-7	Beryllium	0.58	U	01/24/2025	1542
7440-43-9	Cadmium	0.73		01/24/2025	1542
7440-47-3	Chromium	3.0		01/24/2025	1542
7440-48-4	Cobalt	1.3		01/24/2025	1542
7440-50-8	Copper	8.6		01/24/2025	1542
7439-92-1	Lead	1.2		01/24/2025	1542
7439-96-5	Manganese	150	*	01/24/2025	1542
7440-02-0	Nickel	15		01/24/2025	1542
7782-49-2	Selenium	2.9	U	01/24/2025	1542
7439-98-7	Molybdenum	1.0	J	01/24/2025	1542
7440-22-4	Silver	0.041	J	01/24/2025	1542
7440-28-0	Thallium	0.58	U	01/24/2025	1542
7440-62-2	Vanadium	4.2		01/24/2025	1542
7440-66-6	Zinc	31		01/24/2025	1542
7440-24-6	Strontium	24	JD	01/24/2025	1836

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

Comments:

EPA SAMPLE NO.

YE8H0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-06

% Solids: 87.9 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.33	J	01/24/2025	1556
7440-38-2	Arsenic	11		01/24/2025	1556
7440-39-3	Barium	120		01/24/2025	1556
7440-41-7	Beryllium	0.62		01/24/2025	1556
7440-43-9	Cadmium	0.50	U	01/24/2025	1556
7440-47-3	Chromium	54		01/24/2025	1556
7440-48-4	Cobalt	24		01/24/2025	1556
7440-50-8	Copper	64		01/24/2025	1556
7439-92-1	Lead	6.9		01/24/2025	1556
7439-96-5	Manganese	1000	*	01/24/2025	1556
7440-02-0	Nickel	21		01/24/2025	1556
7782-49-2	Selenium	2.5	U	01/24/2025	1556
7439-98-7	Molybdenum	0.39	J	01/24/2025	1556
7440-22-4	Silver	0.069	J	01/24/2025	1556
7440-28-0	Thallium	0.50	U	01/24/2025	1556
7440-62-2	Vanadium	95		01/24/2025	1556
7440-66-6	Zinc	64		01/24/2025	1556
7440-24-6	Strontium	37	J	01/24/2025	1556

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

Comments:

EPA SAMPLE NO.

YE8H1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-07

% Solids: 76 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.36	J	01/24/2025	1559
7440-38-2	Arsenic	13		01/24/2025	1559
7440-39-3	Barium	170		01/24/2025	1559
7440-41-7	Beryllium	0.79		01/24/2025	1559
7440-43-9	Cadmium	0.093	J	01/24/2025	1559
7440-47-3	Chromium	80		01/24/2025	1559
7440-48-4	Cobalt	28		01/24/2025	1559
7440-50-8	Copper	85		01/24/2025	1559
7439-92-1	Lead	9.8		01/24/2025	1559
7439-96-5	Manganese	1200	*	01/24/2025	1559
7440-02-0	Nickel	25		01/24/2025	1559
7782-49-2	Selenium	0.42	J	01/24/2025	1559
7439-98-7	Molybdenum	0.32	J	01/24/2025	1559
7440-22-4	Silver	0.075	J	01/24/2025	1559
7440-28-0	Thallium	0.070	J	01/24/2025	1559
7440-62-2	Vanadium	130		01/24/2025	1559
7440-66-6	Zinc	61		01/24/2025	1559
7440-24-6	Strontium	42	J	01/24/2025	1559

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

Comments:

EPA SAMPLE NO.

YE8H2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-08

% Solids: 62.4 Date Received: 01/16/2025

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
7440-36-0	Antimony	1.2	J	01/24/2025	1602
7440-38-2	Arsenic	770	D	01/24/2025	1849
7440-39-3	Barium	120		01/24/2025	1602
7440-41-7	Beryllium	0.51	J	01/24/2025	1602
7440-43-9	Cadmium	0.35	J	01/24/2025	1602
7440-47-3	Chromium	44		01/24/2025	1602
7440-48-4	Cobalt	26		01/24/2025	1602
7440-50-8	Copper	130		01/24/2025	1602
7439-92-1	Lead	130		01/24/2025	1602
7439-96-5	Manganese	1100	*	01/24/2025	1602
7440-02-0	Nickel	30		01/24/2025	1602
7782-49-2	Selenium	1.8	J	01/24/2025	1602
7439-98-7	Molybdenum	3.8		01/24/2025	1602
7440-22-4	Silver	0.61	J	01/24/2025	1602
7440-28-0	Thallium	0.67	U	01/24/2025	1602
7440-62-2	Vanadium	92		01/24/2025	1602
7440-66-6	Zinc	190		01/24/2025	1602
7440-24-6	Strontium	83	J	01/24/2025	1602

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

Comments:

EPA SAMPLE NO.

YE8H3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-09

% Solids: 82.7 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.76	J	01/24/2025	1605
7440-38-2	Arsenic	86		01/24/2025	1605
7440-39-3	Barium	56		01/24/2025	1605
7440-41-7	Beryllium	0.53		01/24/2025	1605
7440-43-9	Cadmium	0.48		01/24/2025	1605
7440-47-3	Chromium	20		01/24/2025	1605
7440-48-4	Cobalt	28		01/24/2025	1605
7440-50-8	Copper	160		01/24/2025	1605
7439-92-1	Lead	35		01/24/2025	1605
7439-96-5	Manganese	220	*	01/24/2025	1605
7440-02-0	Nickel	49		01/24/2025	1605
7782-49-2	Selenium	0.58	J	01/24/2025	1605
7439-98-7	Molybdenum	1.3	J	01/24/2025	1605
7440-22-4	Silver	0.39	J	01/24/2025	1605
7440-28-0	Thallium	0.45	U	01/24/2025	1605
7440-62-2	Vanadium	60		01/24/2025	1605
7440-66-6	Zinc	460		01/24/2025	1605
7440-24-6	Strontium	36	J	01/24/2025	1605

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

Comments:

EPA SAMPLE NO.

YE8H4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-10

% Solids: 93.8 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.93	U	01/24/2025	1609
7440-38-2	Arsenic	0.83		01/24/2025	1609
7440-39-3	Barium	96		01/24/2025	1609
7440-41-7	Beryllium	0.15	J	01/24/2025	1609
7440-43-9	Cadmium	0.46	U	01/24/2025	1609
7440-47-3	Chromium	3.2		01/24/2025	1609
7440-48-4	Cobalt	6.5		01/24/2025	1609
7440-50-8	Copper	11		01/24/2025	1609
7439-92-1	Lead	1.1		01/24/2025	1609
7439-96-5	Manganese	640	*	01/24/2025	1609
7440-02-0	Nickel	3.1		01/24/2025	1609
7782-49-2	Selenium	2.3	U	01/24/2025	1609
7439-98-7	Molybdenum	0.19	J	01/24/2025	1609
7440-22-4	Silver	0.46	U	01/24/2025	1609
7440-28-0	Thallium	0.46	U	01/24/2025	1609
7440-62-2	Vanadium	14		01/24/2025	1609
7440-66-6	Zinc	40		01/24/2025	1609
7440-24-6	Strontium	11	J	01/24/2025	1609

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

Comments:

EPA SAMPLE NO.

YE8H5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-11

% Solids: 83.3 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.47	J	01/24/2025	1622
7440-38-2	Arsenic	63		01/24/2025	1622
7440-39-3	Barium	130		01/24/2025	1622
7440-41-7	Beryllium	0.63		01/24/2025	1622
7440-43-9	Cadmium	0.17	J	01/24/2025	1622
7440-47-3	Chromium	29		01/24/2025	1622
7440-48-4	Cobalt	21		01/24/2025	1622
7440-50-8	Copper	74		01/24/2025	1622
7439-92-1	Lead	8.8		01/24/2025	1622
7439-96-5	Manganese	250	*	01/24/2025	1622
7440-02-0	Nickel	23		01/24/2025	1622
7782-49-2	Selenium	2.5	U	01/24/2025	1622
7439-98-7	Molybdenum	0.38	J	01/24/2025	1622
7440-22-4	Silver	0.22	J	01/24/2025	1622
7440-28-0	Thallium	0.099	J	01/24/2025	1622
7440-62-2	Vanadium	74		01/24/2025	1622
7440-66-6	Zinc	110		01/24/2025	1622
7440-24-6	Strontium	42	J	01/24/2025	1622

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

Comments:

EPA SAMPLE NO.

YE8H6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-12

% Solids: 95.9 Date Received: 01/16/2025

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
7440-36-0	Antimony	0.17	J	01/24/2025	1625
7440-38-2	Arsenic	10		01/24/2025	1625
7440-39-3	Barium	170		01/24/2025	1625
7440-41-7	Beryllium	0.38	J	01/24/2025	1625
7440-43-9	Cadmium	0.13	J	01/24/2025	1625
7440-47-3	Chromium	3.0		01/24/2025	1625
7440-48-4	Cobalt	17		01/24/2025	1625
7440-50-8	Copper	97		01/24/2025	1625
7439-92-1	Lead	3.3		01/24/2025	1625
7439-96-5	Manganese	990	*	01/24/2025	1625
7440-02-0	Nickel	6.2		01/24/2025	1625
7782-49-2	Selenium	0.41	J	01/24/2025	1625
7439-98-7	Molybdenum	0.38	J	01/24/2025	1625
7440-22-4	Silver	0.082	J	01/24/2025	1625
7440-28-0	Thallium	0.073	J	01/24/2025	1625
7440-62-2	Vanadium	27		01/24/2025	1625
7440-66-6	Zinc	82		01/24/2025	1625
7440-24-6	Strontium	36	J	01/24/2025	1625

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

Comments:

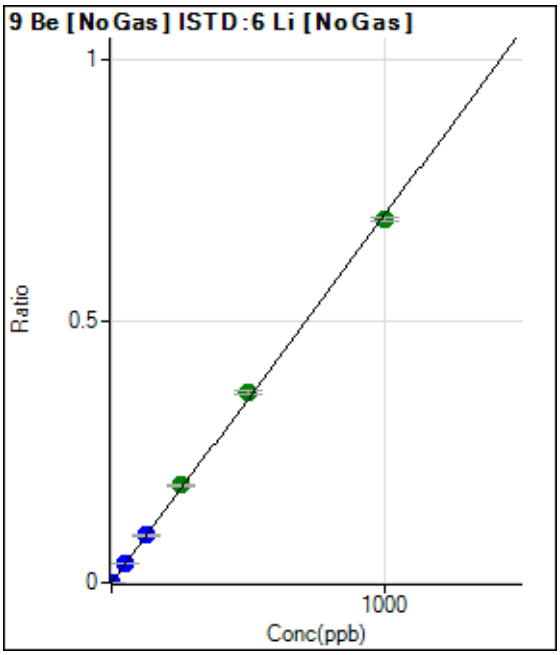
Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

Calibration for 143AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012425MS.b\
Analysis File: P8012425MS.batch.bin
DA Date-Time: 2025-01-27 13:39:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-24 09:47:03
2	006CALS.d	S02	2025-01-24 09:53:49
3	007CALB.d	S03	2025-01-24 09:57:11
4	008CALS.d	S04	2025-01-24 10:00:22
5	009CALS.d	S05	2025-01-24 10:03:22
6	010CALS.d	S06	2025-01-24 10:06:18
7	011CALS.d	S07	2025-01-24 10:09:07
8	012CALS.d	S08	2025-01-24 10:11:54

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.15	0.0000	P	12.3
2	☐	1.000	0.957	4630.58	0.0007	P	3.1
3	☐	50.000	51.794	239453.78	0.0365	P	1.3
4	☐	125.000	128.318	585773.95	0.0903	P	1.8
5	☐	250.000	264.982	1192890.01	0.1864	A	1.1
6	☐	500.000	517.647	2305054.37	0.3641	A	2.1
7	☐	1000.000	986.927	4301065.78	0.6942	A	1.0
8	☐			1128.24	0.0002	P	7.8

y = 7.0338E-004 * x + 3.0237E-005

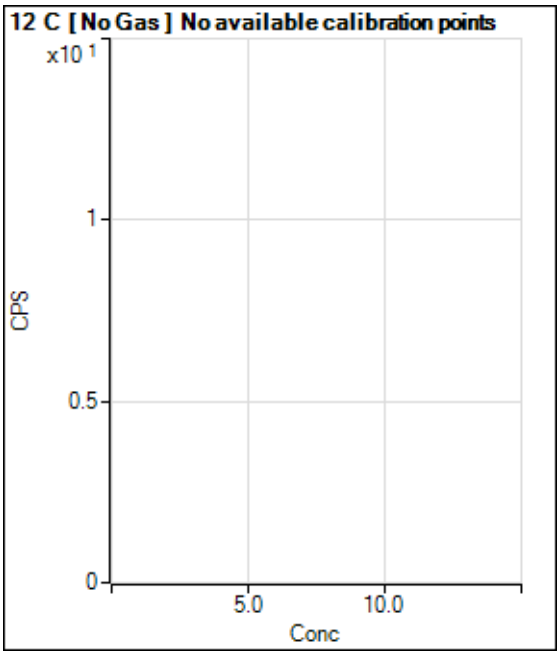
R = 0.9996

DL = 0.01587

BEC = 0.04299

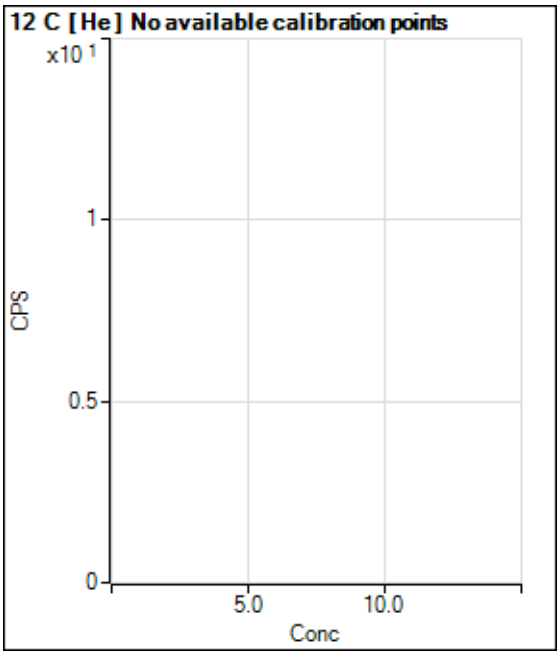
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Min Conc: 0

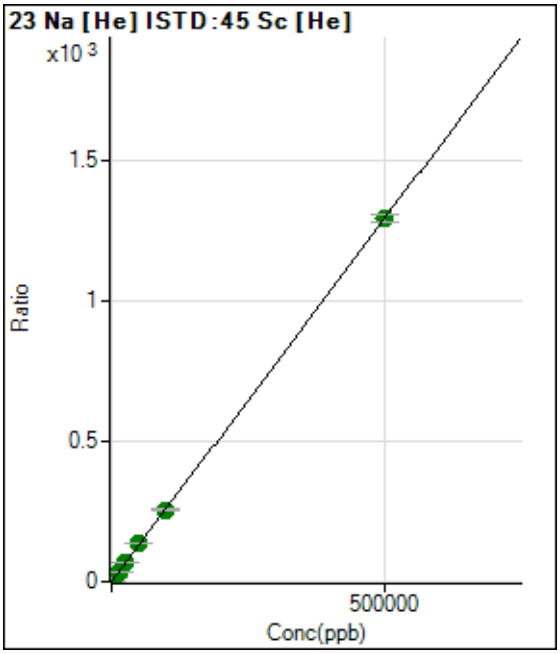


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2778769.33		A	0.8
2	☐			2780550.62		A	1.1
3	☐			2905477.11		A	0.5
4	☐			2980703.91		A	1.6
5	☐			3052401.20		A	1.3
6	☐			3129602.04		A	1.3
7	☐			3209613.80		A	1.8
8	☐			2608195.73		A	1.2

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18940.07		P	1.1
2	☐			18764.27		P	1.2
3	☐			20477.68		P	1.7
4	☐			20691.33		P	1.9
5	☐			21489.14		P	0.7
6	☐			22624.17		P	2.0
7	☐			24576.17		P	0.5
8	☐			22734.37		P	0.9

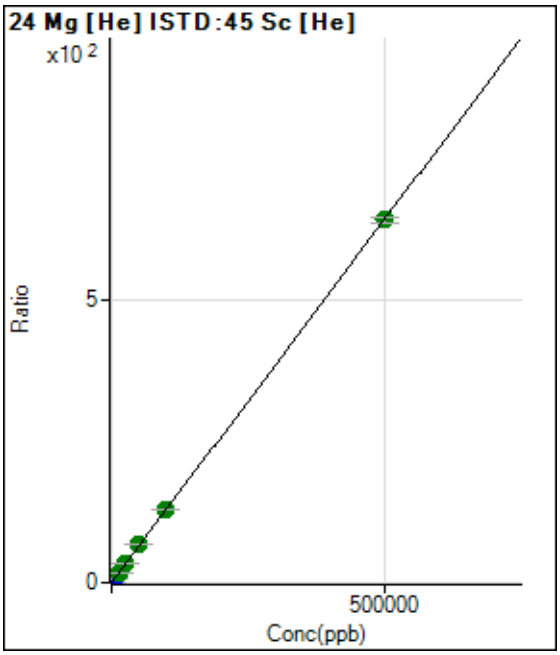


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	500.000	486.290	201129.25	1.3852	P	0.9
3	☐	5000.000	5418.460	2057603.27	14.1275	A	0.1
4	☐	12500.000	13458.158	5022750.17	34.8980	A	4.0
5	☐	25000.000	26358.919	10017577.91	68.2271	A	0.5
6	☐	50000.000	52248.312	19927677.76	135.1123	A	1.0
7	☐	100000.00	99297.883	37919527.49	256.6647	A	0.4
8	☐	500000.00	499819.52	154960911.0	1,291.411	A	2.0

y = 0.0026 * x + 0.1289
R = 1.0000
DL = 3.415
BEC = 49.9

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Min Conc: 0

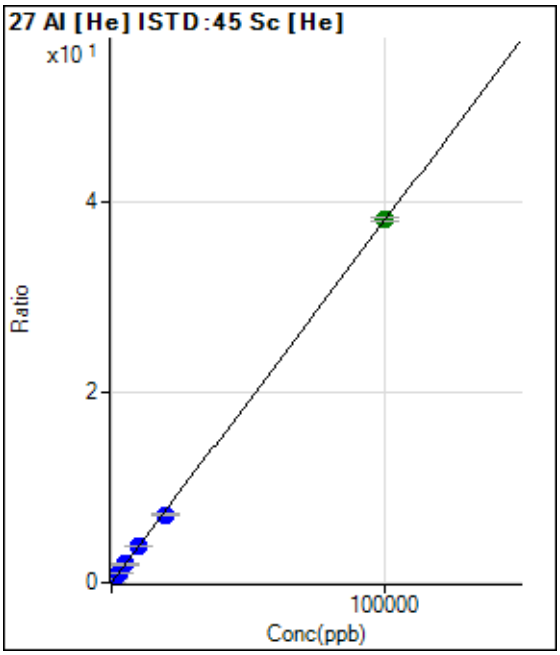
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1	☐	0.000	0.000	491.13	0.0033	P	11.6
2	☐	500.000	509.782	95280.62	0.6562	P	1.0
3	☐	5000.000	5403.056	1008328.79	6.9232	P	0.0
4	☐	12500.000	13960.811	2573401.00	17.8833	A	4.6
5	☐	25000.000	26800.559	5040203.29	34.3275	A	0.3
6	☐	50000.000	52918.220	9996110.82	67.7771	A	1.4
7	☐	100000.00	100506.20	19018254.30	128.7242	A	0.5
8	☐	500000.00	499476.34	76760749.41	639.6957	A	1.8

y = 0.0013 * x + 0.0033
R = 1.0000
DL = 0.9046
BEC = 2.601

Weight: <None>
Min Conc: 0

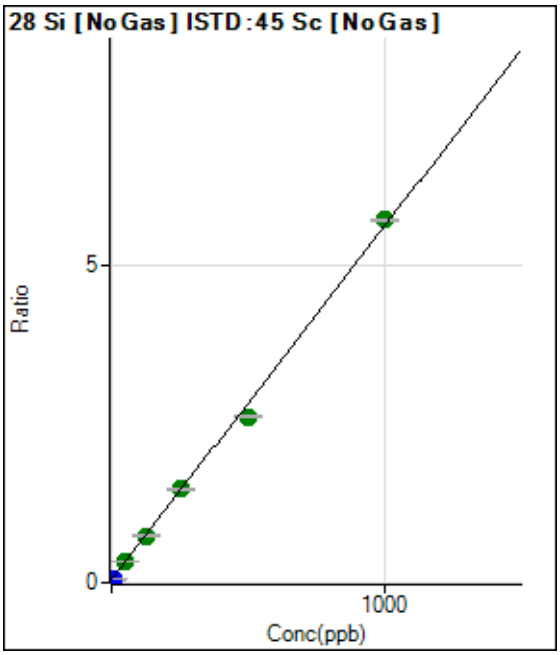


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0005	P	20.3
2	☐	20.000	18.338	1092.27	0.0075	P	4.3
3	☐	1000.000	1034.131	57357.99	0.3938	P	0.6
4	☐	2500.000	2619.637	143475.69	0.9968	P	3.4
5	☐	5000.000	5049.015	282003.48	1.9206	P	0.4
6	☐	10000.000	9957.713	558587.93	3.7873	P	1.2
7	☐	20000.000	18856.440	1059464.12	7.1714	P	1.0
8	☐	100000.00	100227.15	4574079.93	38.1157	A	1.2

y = 3.8029E-004 * x + 5.4949E-004
R = 0.9999
DL = 0.8814
BEC = 1.445

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Min Conc: 0

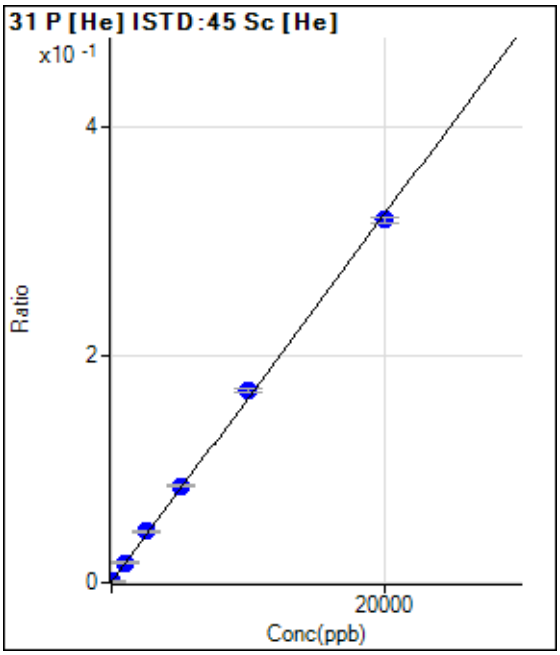
Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	402796.52	0.0487	P	13.8
2	☐	10.000	0.988	456963.25	0.0542	P	1.1
3	☐	50.000	52.376	2851908.19	0.3405	A	1.5
4	☐	125.000	124.478	6388099.90	0.7421	A	1.3
5	☐	250.000	255.530	12515344.12	1.4722	A	1.1
6	☐	500.000	461.342	22578214.67	2.6188	A	1.4
7	☐	1000.000	1017.983	49311826.49	5.7198	A	0.7
8	☐			491463.60	0.0693	P	3.1

y = 0.0056 * x + 0.0487
R = 0.9989
DL = 3.62
BEC = 8.736

Weight: <None>
Min Conc: 0

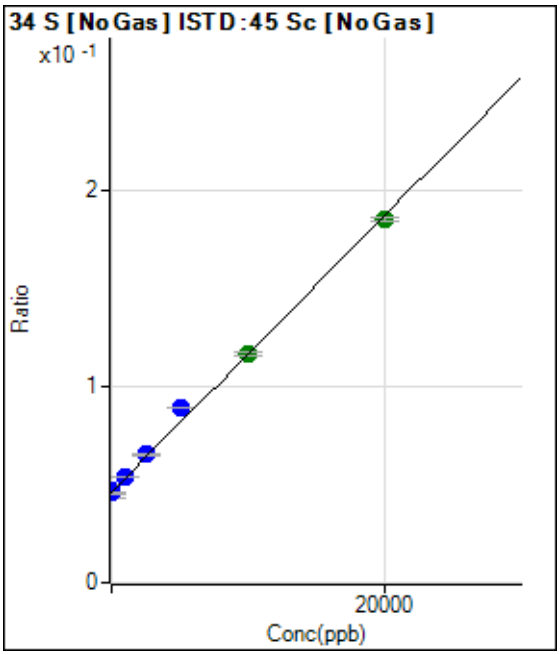


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-17.656	45.55	0.0003	P	7.9
2	☐	0.000	17.656	127.78	0.0009	P	12.5
3	☐	1000.000	1053.872	2568.03	0.0176	P	3.5
4	☐	2500.000	2738.625	6458.17	0.0449	P	4.0
5	☐	5000.000	5241.321	12531.05	0.0853	P	1.6
6	☐	10000.000	10424.610	24949.28	0.1691	P	1.5
7	☐	20000.000	19694.843	47136.29	0.3190	P	1.5
8	☐			52.22	0.0004	P	27.2

y = 1.6169E-005 * x + 5.9431E-004
R = 0.9995
DL = 12.47
BEC = 36.76

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	75.776	387232.25	0.0468	P	13.7
2	☐	0.000	-75.776	385602.73	0.0457	P	0.7
3	☐	1000.000	1119.982	453498.13	0.0541	P	0.6
4	☐	2500.000	2731.195	563768.03	0.0655	P	1.0
5	☐	5000.000	6081.176	757468.62	0.0891	P	0.8
6	☐	10000.000	10033.579	1008325.84	0.1170	A	1.6
7	☐	20000.000	19678.018	1594157.25	0.1849	A	1.1
8	☐			310284.25	0.0437	P	0.9

y = 7.0471E-006 * x + 0.0462

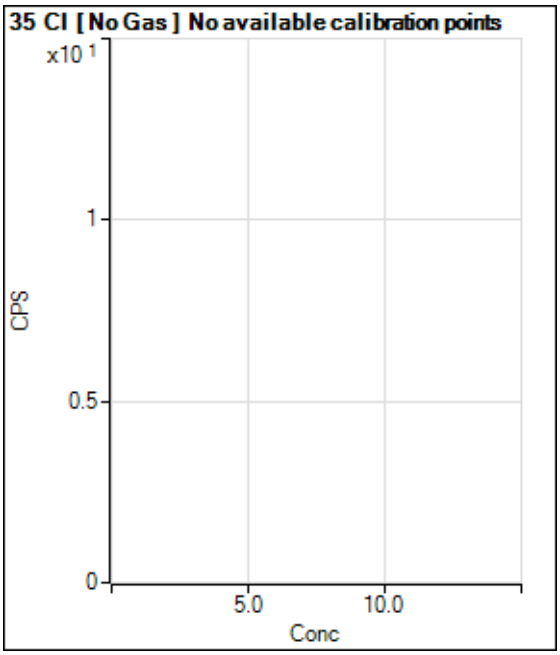
R = 0.9983

DL = 1432

BEC = 6563

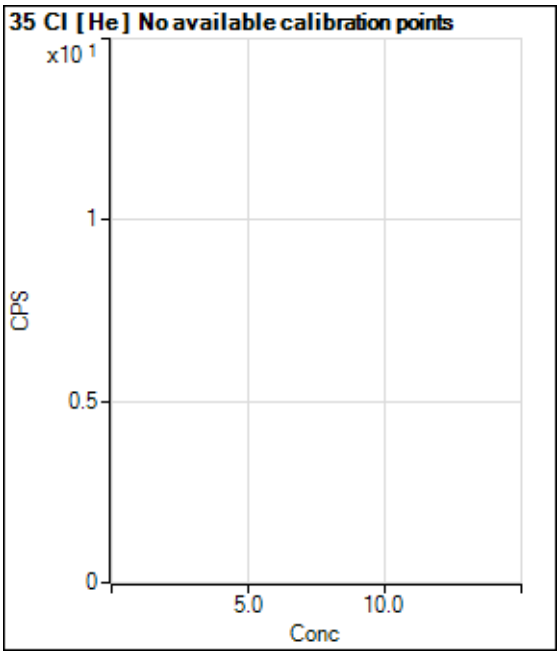
Weight: <None>

Min Conc: 0

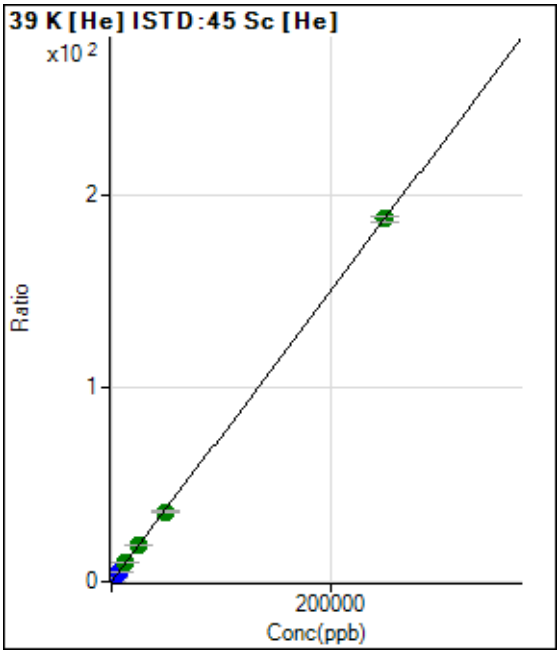


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			63841.96		P	1.0
2	☐			56592.31		P	1.3
3	☐			70373.13		P	1.5
4	☐			74174.19		P	1.1
5	☐			79946.81		P	1.6
6	☐			88672.59		P	2.7
7	☐			95403.96		P	2.7
8	☐			58531.05		P	0.7

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			252.23		P	6.0
2	☐			214.45		P	11.5
3	☐			284.45		P	5.8
4	☐			330.01		P	8.3
5	☐			306.67		P	5.4
6	☐			420.01		P	10.7
7	☐			465.57		P	11.5
8	☐			282.23		P	5.9

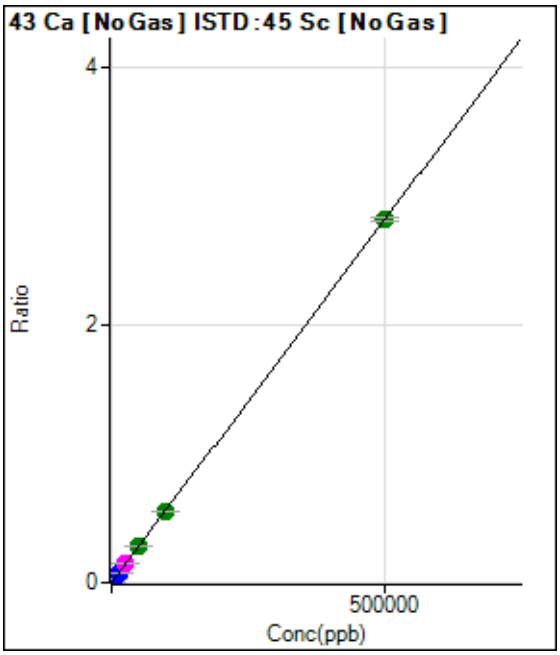


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6653.80	0.0451	P	2.2
2	☐	500.000	464.686	57097.92	0.3932	P	0.6
3	☐	2500.000	2493.249	278615.21	1.9130	P	0.7
4	☐	6250.000	6301.937	686108.52	4.7664	P	3.3
5	☐	12500.000	12763.125	1410577.34	9.6069	A	0.2
6	☐	25000.000	25470.434	2821010.20	19.1269	A	1.2
7	☐	50000.000	48301.474	5352944.99	36.2312	A	1.4
8	☐	250000.00	250278.34	22506079.66	187.5467	A	1.4

y = 7.4917E-004 * x + 0.0451
R = 1.0000
DL = 3.956
BEC = 60.22

Weight: <None>
Min Conc: 0

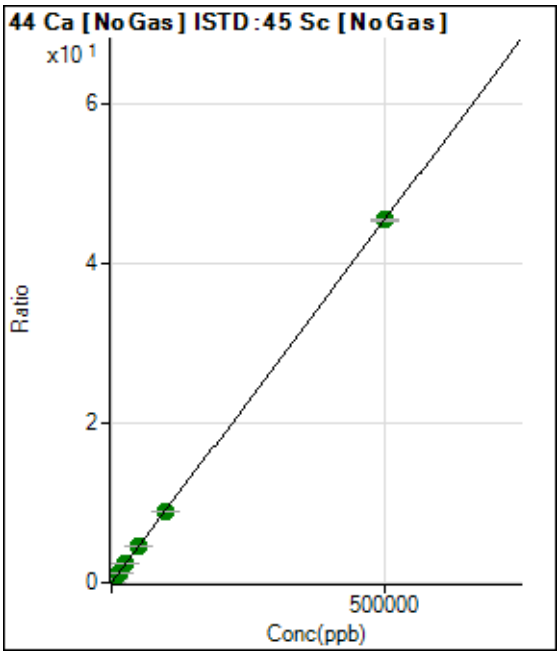
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0000	P	9.3
2	☐	500.000	476.764	23064.13	0.0027	P	1.7
3	☐	5000.000	5149.832	243389.24	0.0291	P	0.7
4	☐	12500.000	12439.338	603490.59	0.0701	P	1.8
5	☐	25000.000	25785.606	1234950.15	0.1453	M	3.1
6	☐	50000.000	50799.998	2467246.96	0.2862	A	2.4
7	☐	100000.00	98658.490	4790824.90	0.5557	A	1.5
8	☐	500000.00	500149.06	19986281.51	2.8171	A	0.9

y = 5.6325E-006 * x + 4.8945E-005
R = 1.0000
DL = 2.435
BEC = 8.69

Weight: <None>
Min Conc: 0

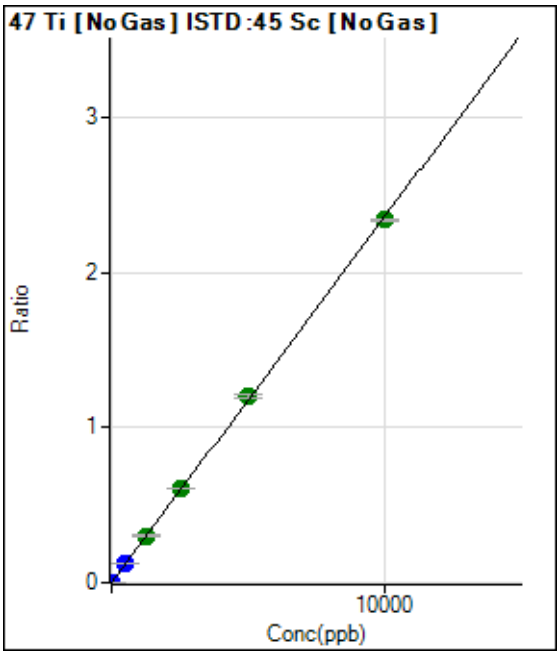


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9561.04	0.0012	P	11.2
2	☐	500.000	479.997	377833.74	0.0448	P	1.0
3	☐	5000.000	5233.594	3995415.70	0.4770	A	0.6
4	☐	12500.000	12632.963	9896082.56	1.1497	A	1.7
5	☐	25000.000	25681.464	19858599.98	2.3360	A	1.2
6	☐	50000.000	50652.515	39712625.80	4.6063	A	1.8
7	☐	100000.00	98434.992	77164102.74	8.9506	A	0.4
8	☐	500000.00	500208.03	322631584.0	45.4788	A	0.5

y = 9.0917E-005 * x + 0.0012
R = 1.0000
DL = 4.267
BEC = 12.68

Weight: <None>
Min Conc: 0

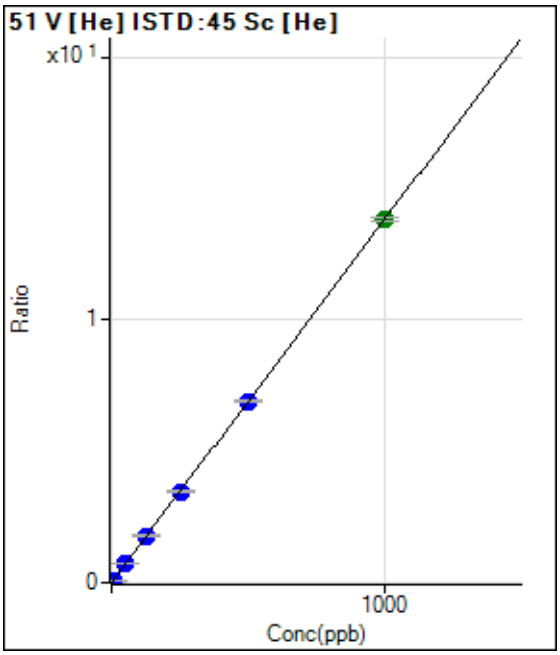
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.34	0.0000	P	21.2
2	☐	5.000	4.775	9604.40	0.0011	P	1.1
3	☐	500.000	514.748	1015919.63	0.1213	P	0.0
4	☐	1250.000	1285.406	2606424.91	0.3028	A	2.8
5	☐	2500.000	2577.547	5162072.80	0.6072	A	1.3
6	☐	5000.000	5106.485	10371465.33	1.2030	A	1.7
7	☐	10000.000	9922.208	20151539.56	2.3375	A	0.8
8	☐			6512.66	0.0009	P	2.4

y = 2.3558E-004 * x + 1.3775E-005
R = 0.9999
DL = 0.03713
BEC = 0.05847

Weight: <None>
Min Conc: 0

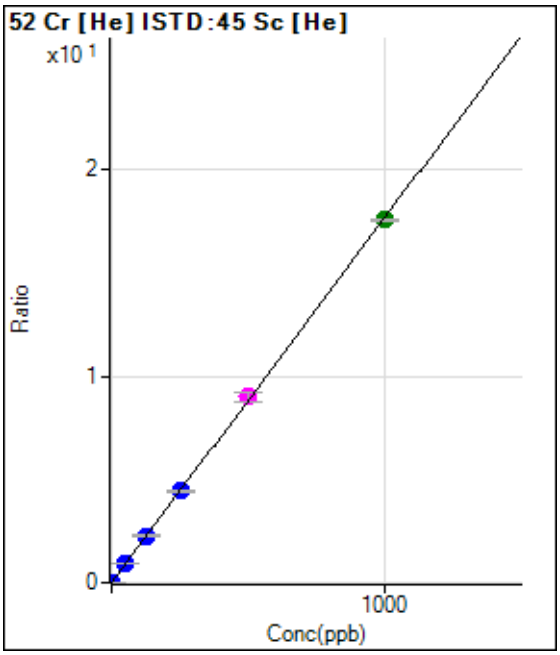


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0001	P	46.9
2	☐	5.000	4.657	9346.46	0.0644	P	2.3
3	☐	50.000	50.652	101859.97	0.6994	P	0.7
4	☐	125.000	128.250	254862.68	1.7706	P	3.5
5	☐	250.000	250.823	508424.02	3.4628	P	0.7
6	☐	500.000	499.940	1017965.07	6.9020	P	1.1
7	☐	1000.000	999.387	2038384.66	13.7971	A	1.1
8	☐			508.90	0.0042	P	9.1

y = 0.0138 * x + 7.5593E-005
R = 1.0000
DL = 0.007701
BEC = 0.005476

Weight: <None>
Min Conc: 0

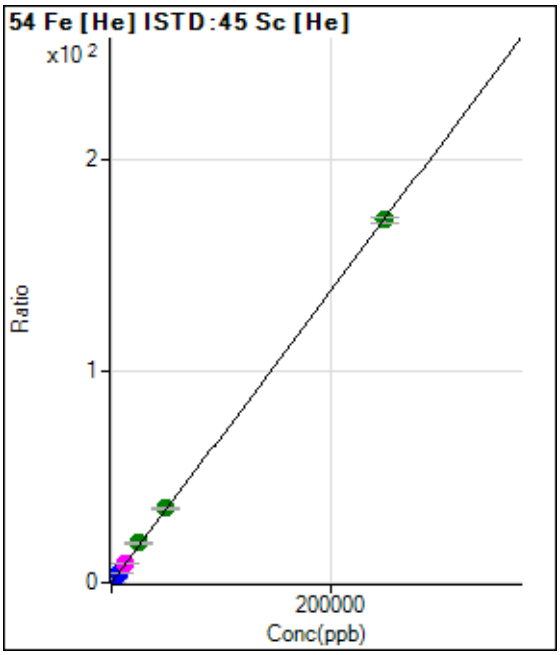
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	590.02	0.0040	P	4.5
2	☐	2.000	1.863	5355.49	0.0369	P	0.3
3	☐	50.000	51.272	132374.06	0.9089	P	0.5
4	☐	125.000	128.212	326325.52	2.2668	P	2.9
5	☐	250.000	250.895	650717.01	4.4320	P	1.1
6	☐	500.000	508.804	1324677.77	8.9838	M	5.2
7	☐	1000.000	994.910	2594727.44	17.5629	A	0.3
8	☐			4305.18	0.0359	P	24.9

y = 0.0176 * x + 0.0040
R = 0.9999
DL = 0.0304
BEC = 0.2267

Weight: <None>
Min Conc: 0

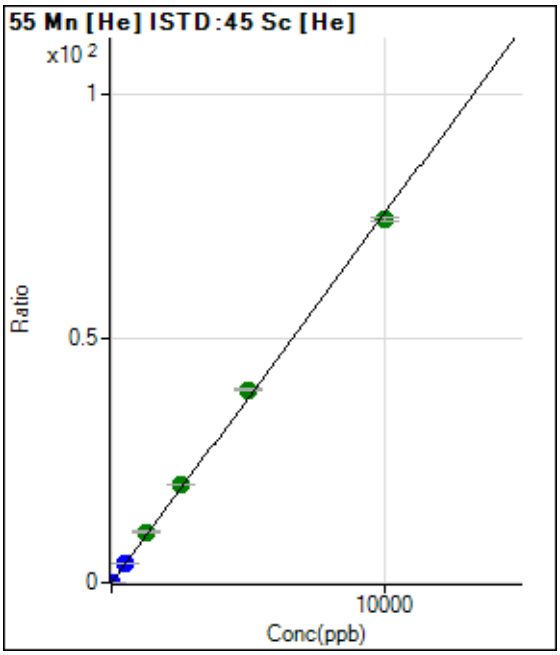


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.56	0.0020	P	19.4
2	☐	50.000	51.620	5448.86	0.0375	P	1.2
3	☐	2500.000	2711.826	272109.05	1.8683	P	0.5
4	☐	6250.000	6799.359	673816.07	4.6814	P	3.6
5	☐	12500.000	13408.099	1355145.76	9.2296	M	2.3
6	☐	25000.000	27124.729	2753504.99	18.6696	A	1.3
7	☐	50000.000	51098.056	5195436.66	35.1683	A	1.1
8	☐	250000.00	249506.65	20605865.53	171.7155	A	1.8

y = 6.8821E-004 * x + 0.0020
R = 1.0000
DL = 1.698
BEC = 2.91

Weight: <None>
Min Conc: 0

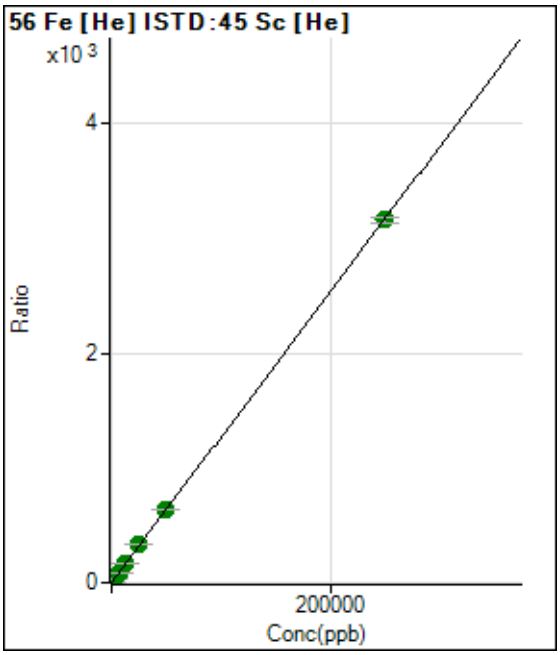
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0012	P	20.5
2	☐	1.000	0.971	1233.40	0.0085	P	6.5
3	☐	500.000	513.242	565521.39	3.8830	P	0.8
4	☐	1250.000	1374.894	1496312.74	10.3999	A	5.2
5	☐	2500.000	2672.137	2967538.85	20.2113	A	0.6
6	☐	5000.000	5225.512	5829157.48	39.5232	A	1.4
7	☐	10000.000	9827.936	10981485.81	74.3327	A	1.0
8	☐			4003.93	0.0333	P	5.8

y = 0.0076 * x + 0.0012
R = 0.9994
DL = 0.09374
BEC = 0.1523

Weight: <None>
Min Conc: 0

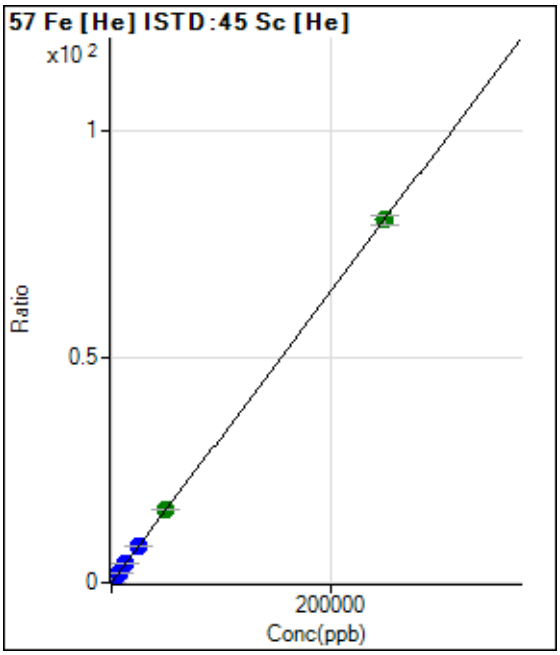


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4658.59	0.0316	P	1.4
2	☐	50.000	51.179	98702.79	0.6798	P	0.5
3	☐	2500.000	2744.480	5066842.94	34.7895	A	0.9
4	☐	6250.000	6905.969	12593415.23	87.4933	A	3.6
5	☐	12500.000	13377.364	24879031.30	169.4514	A	1.2
6	☐	25000.000	26502.702	49506472.60	335.6793	A	1.7
7	☐	50000.000	50072.209	93686560.83	634.1790	A	1.3
8	☐	250000.00	249772.57	379614585.4	3,163.316	A	1.4

y = 0.0127 * x + 0.0316
R = 1.0000
DL = 0.1017
BEC = 2.495

Weight: <None>
Min Conc: 0

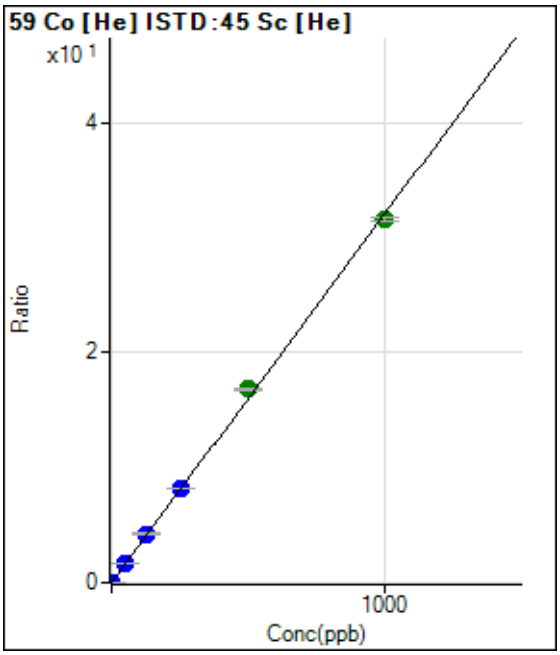
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0009	P	7.1
2	☐	50.000	50.038	2463.57	0.0170	P	7.2
3	☐	2500.000	2630.907	123445.25	0.8476	P	0.5
4	☐	6250.000	6647.096	308052.24	2.1401	P	3.5
5	☐	12500.000	12856.255	607613.58	4.1384	P	1.0
6	☐	25000.000	25346.834	1203242.04	8.1583	P	1.3
7	☐	50000.000	50301.876	2391617.93	16.1897	A	1.9
8	☐	250000.00	249875.89	9649310.48	80.4191	A	2.5

y = 3.2183E-004 * x + 8.6694E-004
R = 1.0000
DL = 0.574
BEC = 2.694

Weight: <None>
Min Conc: 0

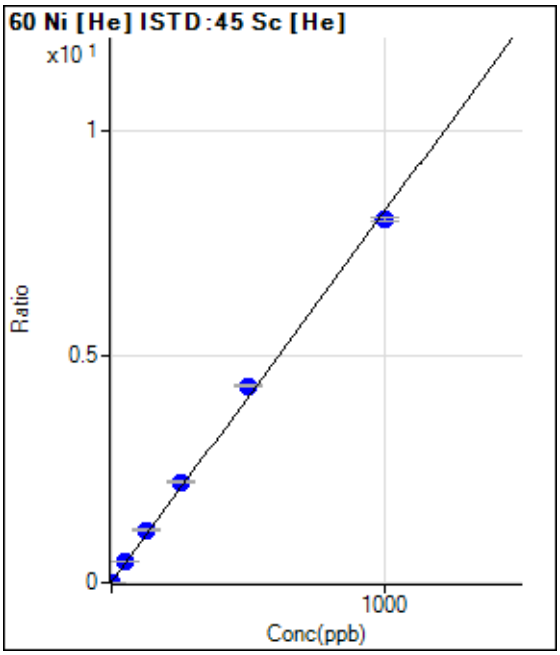


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0007	P	19.0
2	☐	1.000	1.027	4880.88	0.0336	P	0.8
3	☐	50.000	52.457	244898.78	1.6815	P	0.5
4	☐	125.000	131.888	608320.64	4.2265	P	3.8
5	☐	250.000	256.506	1206807.98	8.2194	P	0.7
6	☐	500.000	525.017	2481250.92	16.8228	A	0.7
7	☐	1000.000	984.881	4661961.25	31.5573	A	1.1
8	☐			7837.79	0.0653	P	3.7

y = 0.0320 * x + 7.1674E-004
R = 0.9995
DL = 0.01278
BEC = 0.02237

Weight: <None>
Min Conc: 0

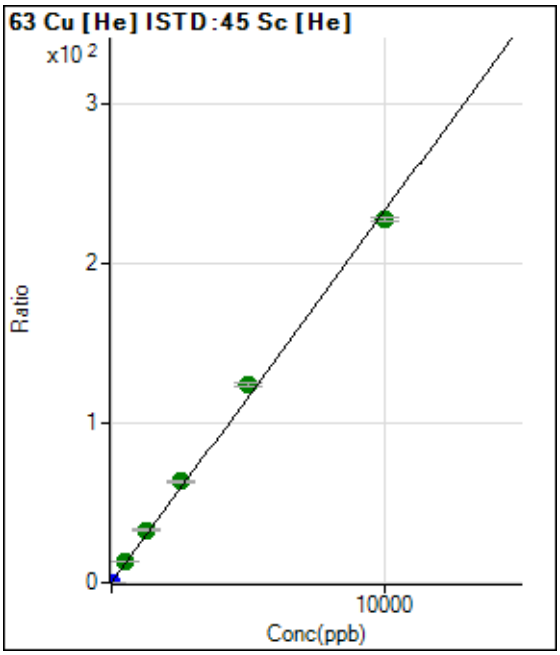
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1090.05	0.0074	P	6.2
2	☐	1.000	0.983	2243.53	0.0155	P	1.2
3	☐	50.000	56.348	68377.62	0.4695	P	1.3
4	☐	125.000	140.098	166469.97	1.1563	P	2.8
5	☐	250.000	270.873	327238.52	2.2288	P	0.8
6	☐	500.000	530.498	642737.24	4.3579	P	1.2
7	☐	1000.000	977.328	1185192.21	8.0223	P	1.0
8	☐			3049.24	0.0254	P	0.2

y = 0.0082 * x + 0.0074
R = 0.9990
DL = 0.1689
BEC = 0.9015

Weight: <None>
Min Conc: 0

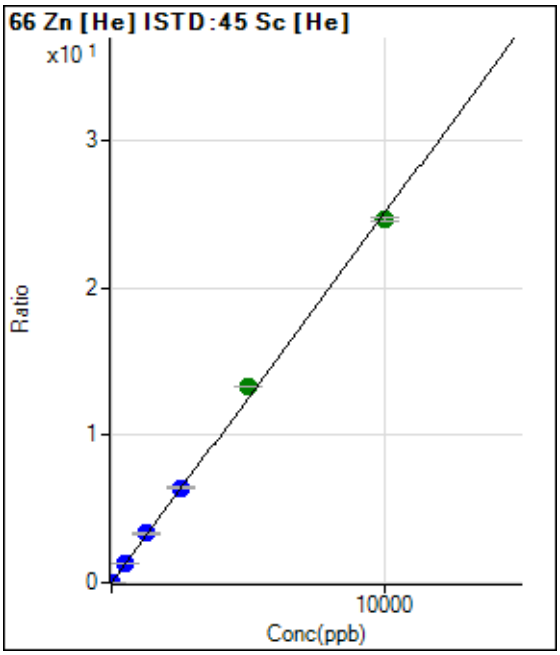


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3225.95	0.0219	P	5.3
2	☐	2.000	2.077	10200.42	0.0703	P	1.0
3	☐	500.000	557.471	1893749.87	13.0023	A	0.4
4	☐	1250.000	1406.266	4716668.44	32.7660	A	3.2
5	☐	2500.000	2721.027	9305736.53	63.3794	A	1.0
6	☐	5000.000	5316.702	18260416.81	123.8183	A	2.0
7	☐	10000.000	9763.985	33590496.72	227.3707	A	0.9
8	☐			7522.06	0.0627	P	3.2

y = 0.0233 * x + 0.0219
R = 0.9989
DL = 0.1501
BEC = 0.9399

Weight: <None>
Min Conc: 0

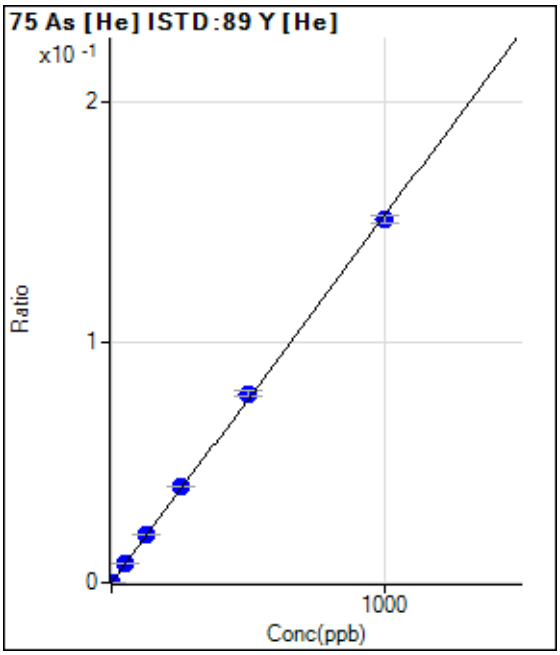
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.89	0.0018	P	12.6
2	☐	5.000	4.864	2026.83	0.0140	P	8.0
3	☐	500.000	527.503	193010.91	1.3252	P	0.6
4	☐	1250.000	1327.913	479802.51	3.3334	P	3.5
5	☐	2500.000	2569.553	946815.34	6.4486	P	0.6
6	☐	5000.000	5299.172	1961240.06	13.2970	A	0.6
7	☐	10000.000	9821.911	3640808.11	24.6443	A	1.2
8	☐			1266.74	0.0106	P	8.3

y = 0.0025 * x + 0.0018
R = 0.9993
DL = 0.2649
BEC = 0.7003

Weight: <None>
Min Conc: 0

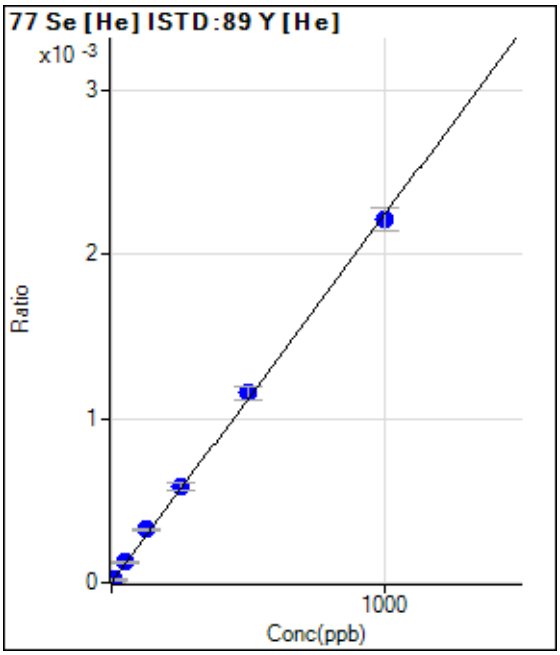


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.9
2	☐	1.000	1.034	217.78	0.0002	P	8.1
3	☐	50.000	52.845	11016.62	0.0081	P	4.4
4	☐	125.000	130.156	27471.28	0.0199	P	2.7
5	☐	250.000	263.476	55312.42	0.0403	P	0.7
6	☐	500.000	515.046	109704.76	0.0787	P	2.7
7	☐	1000.000	988.321	210200.85	0.1511	P	2.3
8	☐			93.33	0.0001	P	17.5

y = 1.5288E-004 * x + 3.2293E-006
R = 0.9997
DL = 0.07284
BEC = 0.02112

Weight: <None>
Min Conc: 0

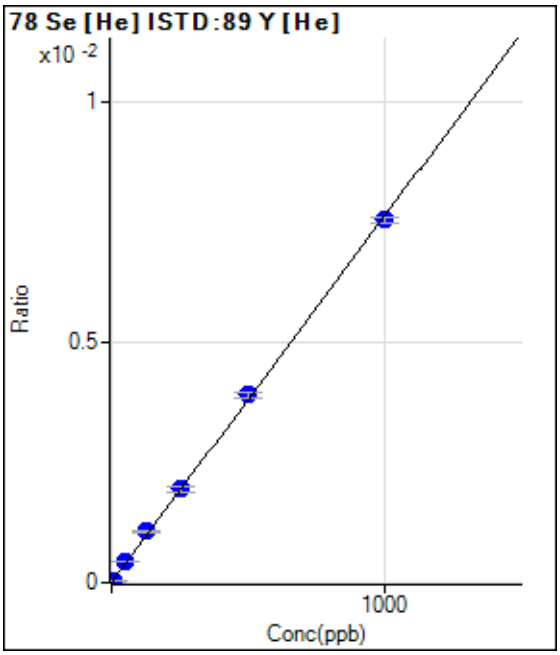
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	8.087	25.55	0.0000	P	14.9
3	☐	50.000	54.545	167.78	0.0001	P	6.7
4	☐	125.000	145.117	450.01	0.0003	P	3.9
5	☐	250.000	260.788	803.36	0.0006	P	7.5
6	☐	500.000	516.728	1613.44	0.0012	P	7.1
7	☐	1000.000	986.182	3072.59	0.0022	P	6.5
8	☐			0.00	0.0000	P	

y = 2.2406E-006 * x + 8.0858E-007
R = 0.9996
DL = 1.875
BEC = 0.3609

Weight: <None>
Min Conc: 0

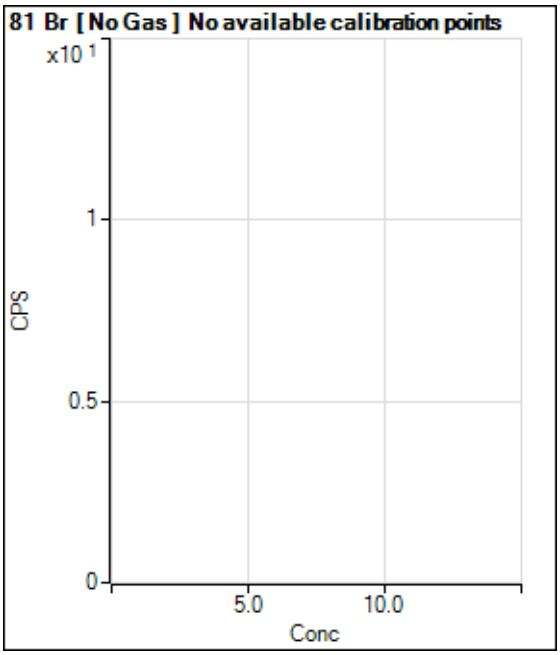


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.8
2	☐	5.000	6.822	75.55	0.0001	P	13.7
3	☐	50.000	57.714	604.46	0.0004	P	5.2
4	☐	125.000	140.138	1478.98	0.0011	P	2.3
5	☐	250.000	254.343	2664.73	0.0019	P	7.8
6	☐	500.000	512.932	5446.66	0.0039	P	3.1
7	☐	1000.000	990.161	10499.57	0.0075	P	1.4
8	☐			3.33	0.0000	P	100.4

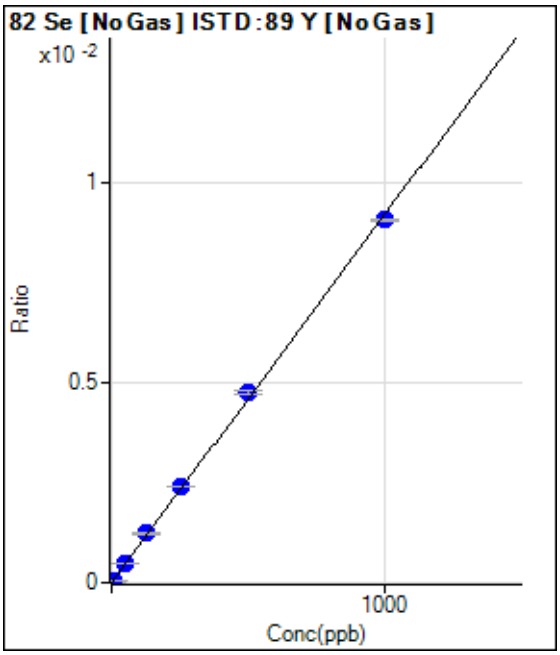
y = 7.6143E-006 * x + 4.0025E-006
R = 0.9998
DL = 1.447
BEC = 0.5257

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5893.52		P	2.3
2	☐			5687.87		P	2.7
3	☐			5608.96		P	3.5
4	☐			5688.98		P	1.8
5	☐			5949.11		P	2.5
6	☐			6051.37		P	5.1
7	☐			6295.91		P	2.2
8	☐			6084.71		P	3.6

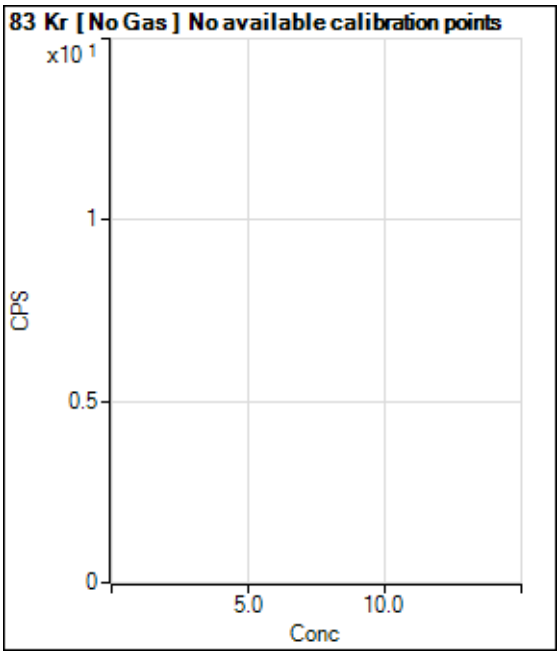


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-23.33	0.0000	P	-173.
2	☐	5.000	5.167	935.60	0.0000	P	5.5
3	☐	50.000	53.990	10037.13	0.0005	P	2.7
4	☐	125.000	133.787	25365.50	0.0012	P	2.3
5	☐	250.000	262.775	49888.95	0.0024	P	0.7
6	☐	500.000	518.135	99030.83	0.0048	P	1.8
7	☐	1000.000	986.440	189157.62	0.0091	P	0.6
8	☐			26.67	0.0000	P	168.8

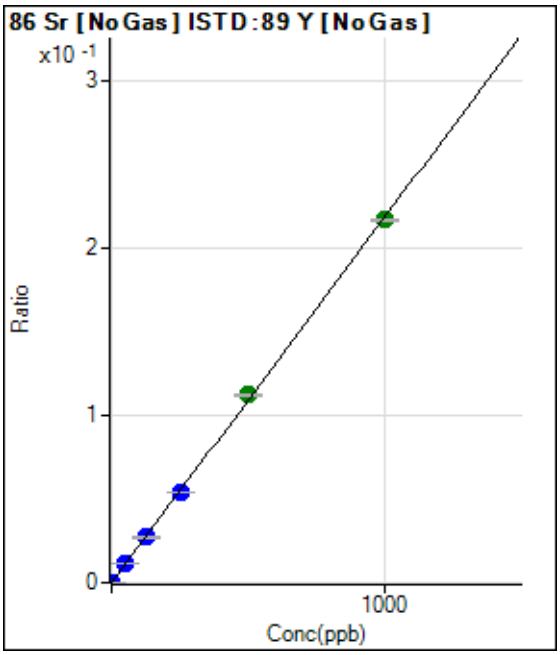
y = 9.1924E-006 * x - 1.3416E-006
R = 0.9996
DL = 0.7583
BEC = -0.1459

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			151.12		P	15.0
2	☐			128.89		P	3.0
3	☐			141.11		P	8.3
4	☐			135.56		P	22.0
5	☐			160.00		P	7.5
6	☐			148.89		P	19.0
7	☐			207.78		P	15.8
8	☐			250.00		P	8.1

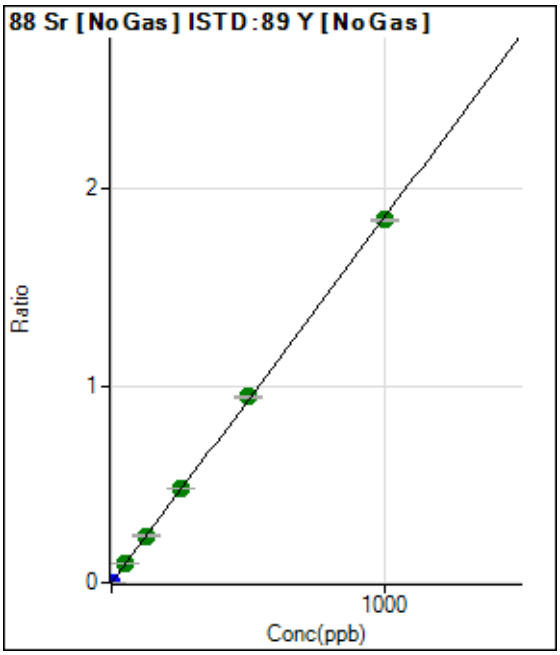


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.67	0.0000	P	31.1
2	☐	1.000	0.935	4415.18	0.0002	P	2.1
3	☐	50.000	50.621	223999.61	0.0110	P	0.2
4	☐	125.000	123.806	557300.87	0.0270	P	1.3
5	☐	250.000	247.922	1116621.59	0.0540	P	0.6
6	☐	500.000	514.322	2331340.28	0.1121	A	1.0
7	☐	1000.000	993.477	4516676.60	0.2165	A	0.6
8	☐			11871.78	0.0007	P	1.5

y = 2.1789E-004 * x + 1.4005E-005
R = 0.9998
DL = 0.05993
BEC = 0.06427

Weight: <None>
Min Conc: 0

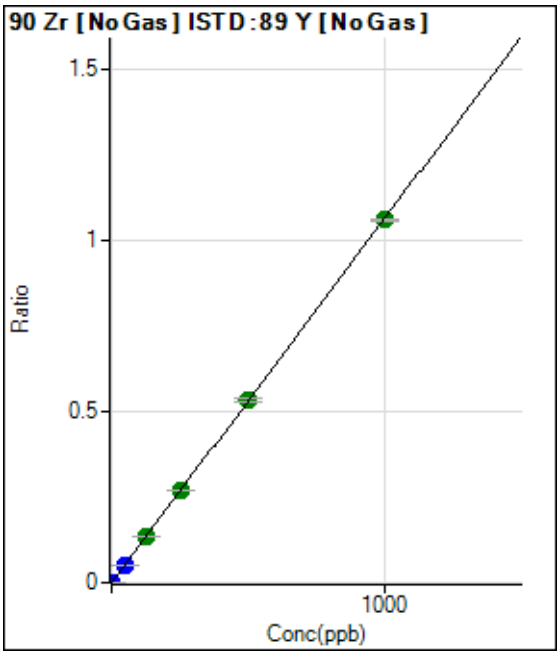
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	586.69	0.0000	P	9.2
2	☐	1.000	0.906	34645.13	0.0017	P	1.3
3	☐	50.000	53.101	1997949.10	0.0985	A	1.5
4	☐	125.000	128.919	4937465.83	0.2391	A	1.7
5	☐	250.000	257.937	9886468.40	0.4784	A	0.3
6	☐	500.000	508.548	19618342.48	0.9432	A	1.2
7	☐	1000.000	993.097	38428390.26	1.8419	A	0.4
8	☐			101166.20	0.0058	P	0.9

y = 0.0019 * x + 2.9123E-005
R = 0.9999
DL = 0.004313
BEC = 0.0157

Weight: <None>
Min Conc: 0

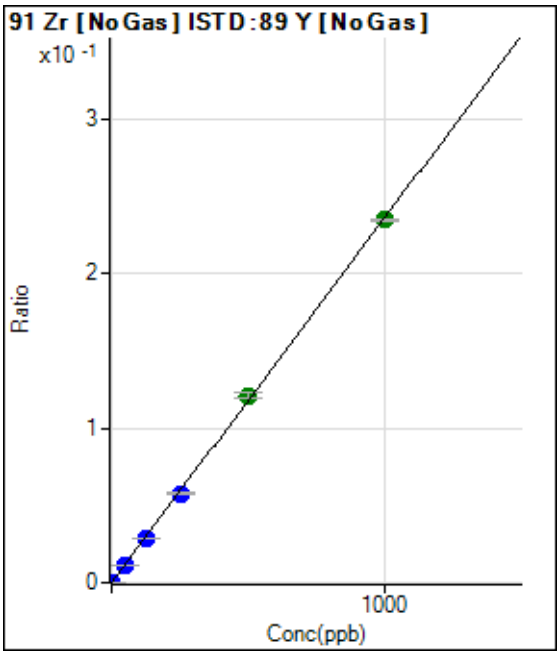


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	637.80	0.0000	P	3.2
2	☐	1.000	0.924	20569.72	0.0010	P	2.0
3	☐	50.000	49.834	1076153.20	0.0531	P	0.4
4	☐	125.000	127.207	2795411.94	0.1354	A	1.0
5	☐	250.000	255.234	5612855.06	0.2716	A	0.6
6	☐	500.000	503.079	11133656.50	0.5353	A	1.9
7	☐	1000.000	996.884	22130821.61	1.0607	A	0.5
8	☐			11207.93	0.0006	P	1.7

y = 0.0011 * x + 3.1485E-005
R = 1.0000
DL = 0.002847
BEC = 0.02959

Weight: <None>
Min Conc: 0

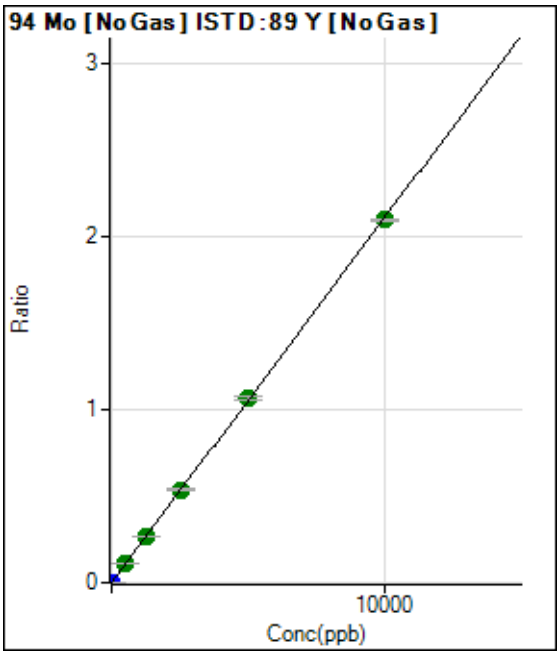
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	20.7
2	☐	1.000	0.928	4579.69	0.0002	P	0.5
3	☐	50.000	49.847	238957.09	0.0118	P	0.2
4	☐	125.000	122.274	596511.34	0.0289	P	1.3
5	☐	250.000	244.465	1193435.13	0.0578	P	0.9
6	☐	500.000	513.278	2521589.32	0.1213	A	2.5
7	☐	1000.000	995.093	4904118.12	0.2351	A	0.7
8	☐			2573.60	0.0001	P	1.5

y = 2.3621E-004 * x + 6.7396E-006
R = 0.9999
DL = 0.01771
BEC = 0.02853

Weight: <None>
Min Conc: 0

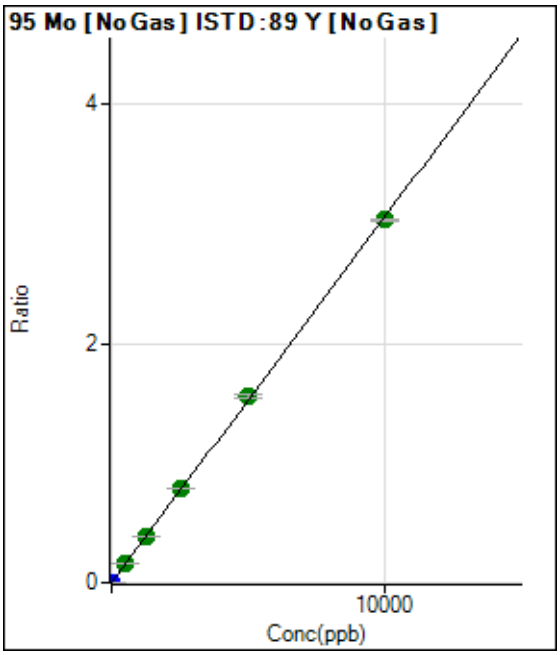


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	284.45	0.0000	P	12.5
2	☐	5.000	5.597	24195.58	0.0012	P	1.4
3	☐	500.000	529.585	2264106.63	0.1116	A	0.4
4	☐	1250.000	1277.076	5557719.85	0.2692	A	1.0
5	☐	2500.000	2554.528	11125436.09	0.5384	A	0.8
6	☐	5000.000	5074.314	22241635.78	1.0694	A	2.0
7	☐	10000.000	9944.347	43725733.24	2.0958	A	0.4
8	☐			10442.89	0.0006	P	4.6

y = 2.1075E-004 * x + 1.3923E-005
R = 0.9999
DL = 0.02475
BEC = 0.06606

Weight: <None>
Min Conc: 0

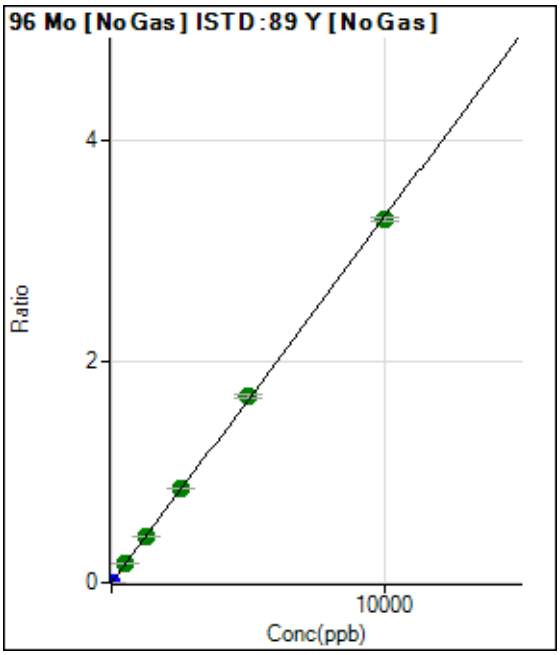
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	17.7
2	☐	5.000	4.609	28674.00	0.0014	P	0.9
3	☐	500.000	521.621	3230064.95	0.1593	A	0.7
4	☐	1250.000	1276.403	8046447.93	0.3897	A	1.1
5	☐	2500.000	2568.811	16206336.29	0.7842	A	0.3
6	☐	5000.000	5094.326	32345357.57	1.5553	A	2.2
7	☐	10000.000	9931.253	63257146.28	3.0320	A	0.4
8	☐			10226.08	0.0006	P	5.6

y = 3.0529E-004 * x + 7.1978E-006
R = 0.9999
DL = 0.01254
BEC = 0.02358

Weight: <None>
Min Conc: 0

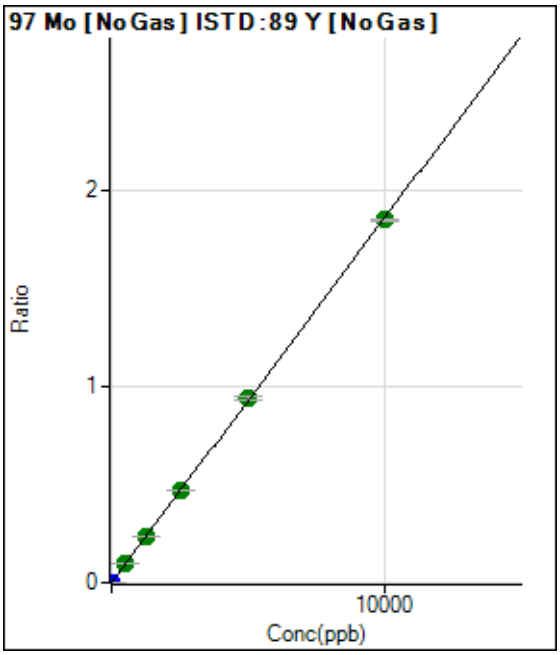


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0000	P	16.7
2	☐	5.000	4.784	32304.18	0.0016	P	1.6
3	☐	500.000	524.471	3519854.84	0.1735	A	1.2
4	☐	1250.000	1275.123	8711667.99	0.4219	A	1.2
5	☐	2500.000	2573.922	17599773.21	0.8517	A	1.0
6	☐	5000.000	5116.140	35207463.64	1.6928	A	1.8
7	☐	10000.000	9919.086	68474581.76	3.2820	A	1.0
8	☐			14329.74	0.0008	P	3.4

y = 3.3087E-004 * x + 1.0484E-005
R = 0.9999
DL = 0.0159
BEC = 0.03169

Weight: <None>
Min Conc: 0

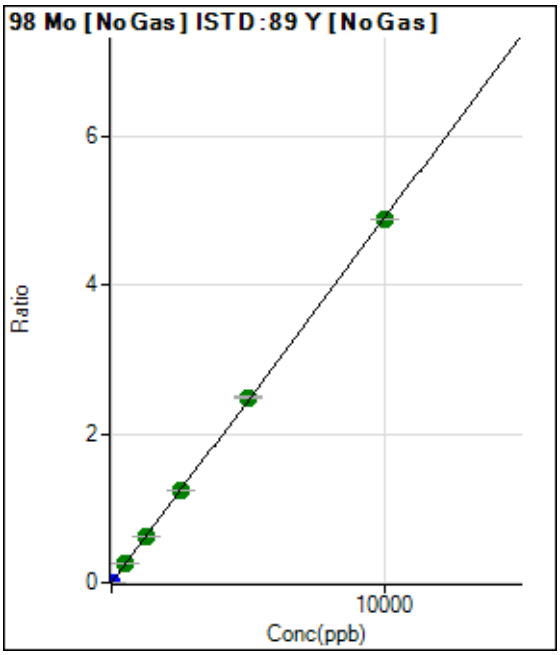
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.78	0.0000	P	15.1
2	☐	5.000	4.729	17942.80	0.0009	P	1.0
3	☐	500.000	527.655	1992913.23	0.0983	A	0.4
4	☐	1250.000	1281.220	4926383.64	0.2386	A	0.5
5	☐	2500.000	2548.903	9808393.95	0.4746	A	0.5
6	☐	5000.000	5060.892	19600964.15	0.9424	A	1.3
7	☐	10000.000	9952.043	38664071.92	1.8532	A	0.7
8	☐			5512.26	0.0003	P	5.4

y = 1.8621E-004 * x + 4.3796E-006
R = 1.0000
DL = 0.01067
BEC = 0.02352

Weight: <None>
Min Conc: 0

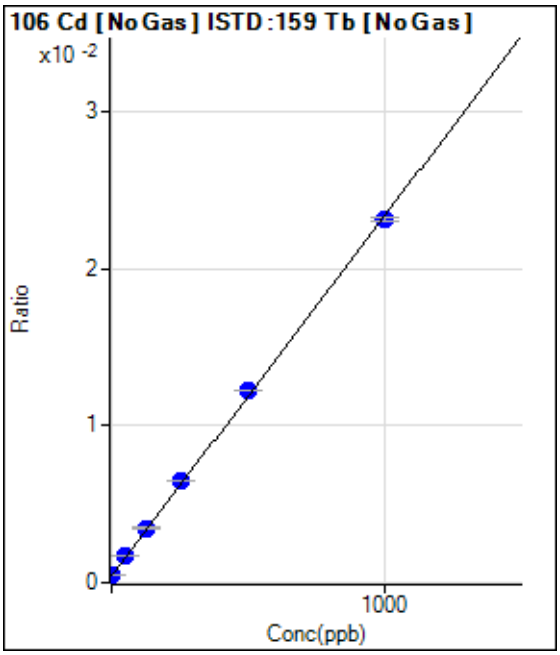


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0000	P	9.2
2	☐	5.000	4.571	45561.19	0.0022	P	1.0
3	☐	500.000	518.561	5148819.23	0.2539	A	1.2
4	☐	1250.000	1275.898	12897127.17	0.6246	A	1.4
5	☐	2500.000	2552.250	25819787.95	1.2495	A	0.2
6	☐	5000.000	5069.579	51620204.79	2.4818	A	1.2
7	☐	10000.000	9947.983	101605162.9	4.8700	A	0.2
8	☐			13548.96	0.0008	P	4.3

y = 4.8955E-004 * x + 9.6909E-006
R = 0.9999
DL = 0.005461
BEC = 0.0198

Weight: <None>
Min Conc: 0

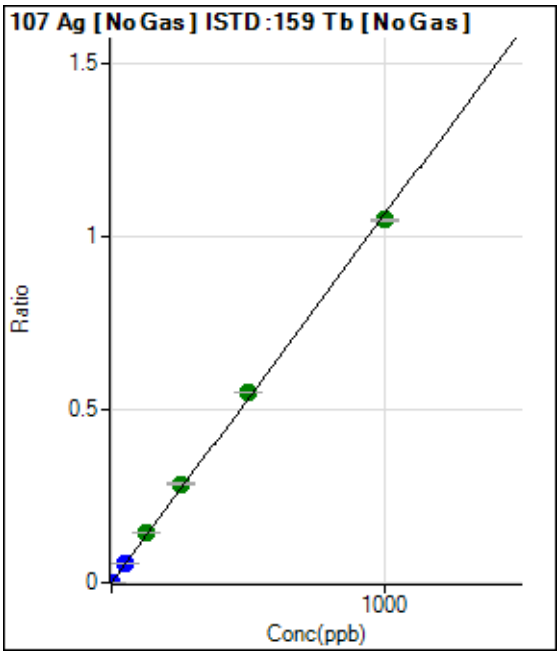
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6890.71	0.0005	P	2.4
2	☐	1.000	0.703	7131.91	0.0005	P	2.1
3	☐	50.000	55.107	24998.28	0.0017	P	1.5
4	☐	125.000	131.582	51008.29	0.0035	P	1.4
5	☐	250.000	261.908	95187.48	0.0065	P	1.2
6	☐	500.000	514.403	181628.83	0.0123	P	0.5
7	☐	1000.000	988.744	341166.59	0.0231	P	0.9
8	☐			5745.69	0.0005	P	3.4

y = 2.2920E-005 * x + 4.7941E-004
R = 0.9998
DL = 1.514
BEC = 20.92

Weight: <None>
Min Conc: 0

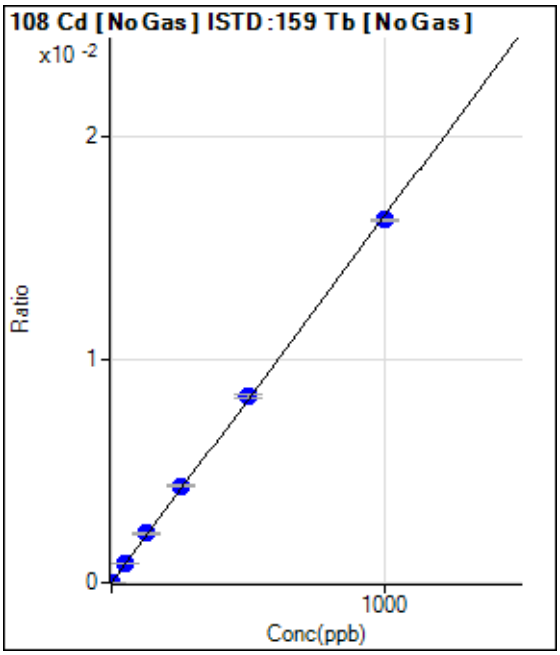


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	28.8
2	☐	1.000	0.942	14544.46	0.0010	P	0.8
3	☐	50.000	53.211	812874.94	0.0567	P	0.5
4	☐	125.000	135.473	2104857.10	0.1442	A	0.5
5	☐	250.000	268.654	4199696.54	0.2860	A	0.3
6	☐	500.000	517.026	8147407.10	0.5504	A	0.9
7	☐	1000.000	985.354	15464659.63	1.0490	A	0.8
8	☐			1921.27	0.0002	P	4.5

y = 0.0011 * x + 7.8324E-006
R = 0.9996
DL = 0.006348
BEC = 0.007357

Weight: <None>
Min Conc: 0

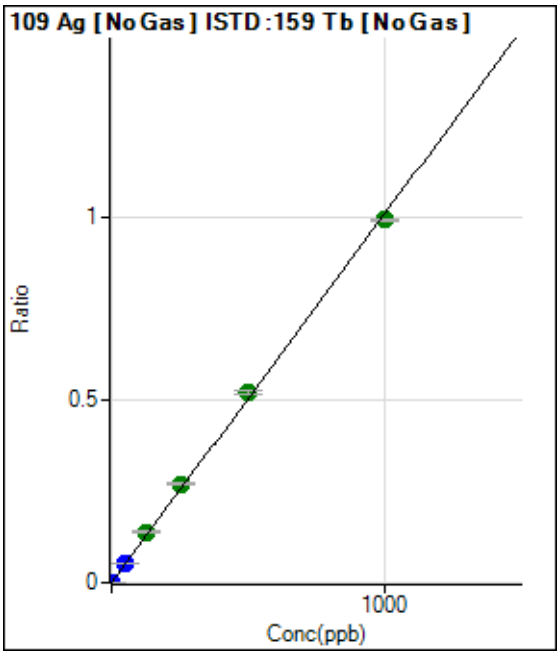
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0000	P	15.2
2	☐	1.000	0.981	263.34	0.0000	P	8.3
3	☐	50.000	54.457	12869.41	0.0009	P	1.5
4	☐	125.000	134.354	32247.73	0.0022	P	2.2
5	☐	250.000	263.639	63640.44	0.0043	P	0.9
6	☐	500.000	511.029	124312.00	0.0084	P	2.0
7	☐	1000.000	989.684	239777.31	0.0163	P	0.6
8	☐			163.34	0.0000	P	9.3

y = 1.6432E-005 * x + 2.1752E-006
R = 0.9998
DL = 0.06025
BEC = 0.1324

Weight: <None>
Min Conc: 0

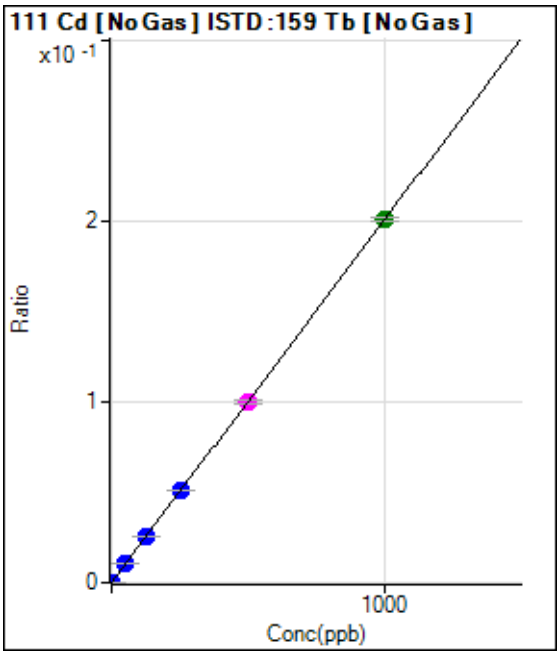


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	8.6
2	☐	1.000	0.948	13819.26	0.0010	P	0.9
3	☐	50.000	53.280	771160.84	0.0537	P	1.2
4	☐	125.000	137.706	2027195.51	0.1389	A	1.3
5	☐	250.000	268.716	3980246.96	0.2711	A	0.4
6	☐	500.000	518.237	7737247.11	0.5228	A	1.9
7	☐	1000.000	984.450	14639920.75	0.9930	A	0.8
8	☐			1809.03	0.0001	P	8.9

y = 0.0010 * x + 3.8870E-006
R = 0.9995
DL = 0.000993
BEC = 0.003853

Weight: <None>
Min Conc: 0

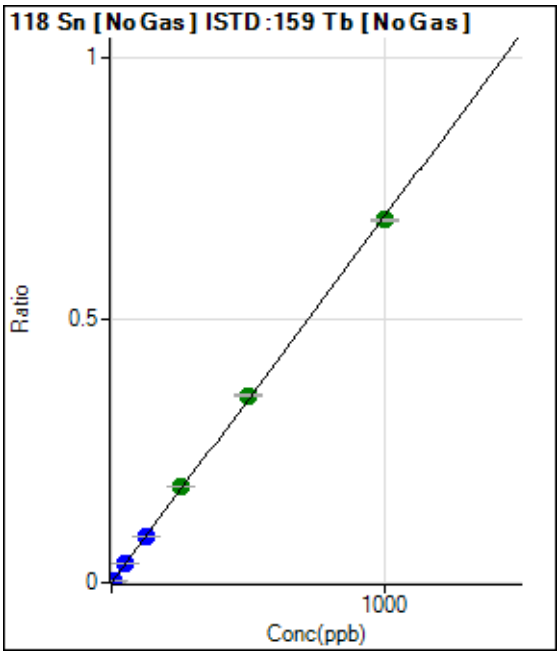
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1375.25	0.0001	P	2.0
2	☐	1.000	1.014	4302.42	0.0003	P	2.0
3	☐	50.000	53.314	154699.18	0.0108	P	0.9
4	☐	125.000	127.852	375402.22	0.0257	P	1.1
5	☐	250.000	253.694	748153.97	0.0509	P	0.5
6	☐	500.000	497.157	1476485.66	0.0998	M	2.0
7	☐	1000.000	999.976	2956624.40	0.2005	A	1.0
8	☐			1851.50	0.0001	P	1.3

y = 2.0045E-004 * x + 9.5725E-005
R = 1.0000
DL = 0.02804
BEC = 0.4775

Weight: <None>
Min Conc: 0

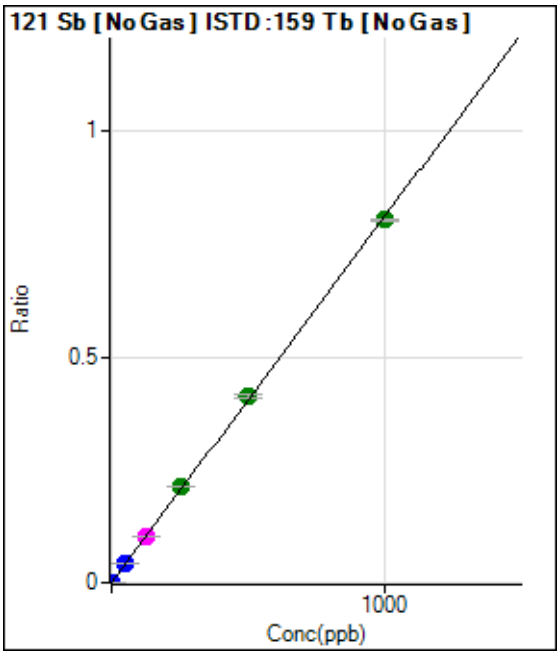


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1295.63	0.0001	P	12.4
2	☐	5.000	4.760	49060.90	0.0034	P	1.7
3	☐	50.000	52.010	521455.91	0.0363	P	0.2
4	☐	125.000	126.570	1288827.00	0.0883	P	1.3
5	☐	250.000	264.216	2705714.07	0.1843	A	0.5
6	☐	500.000	510.652	5270226.17	0.3560	A	0.8
7	☐	1000.000	990.825	10183398.04	0.6908	A	0.4
8	☐			2967.02	0.0002	P	5.1

y = 6.9705E-004 * x + 9.1118E-005
R = 0.9998
DL = 0.04873
BEC = 0.1307

Weight: <None>
Min Conc: 0

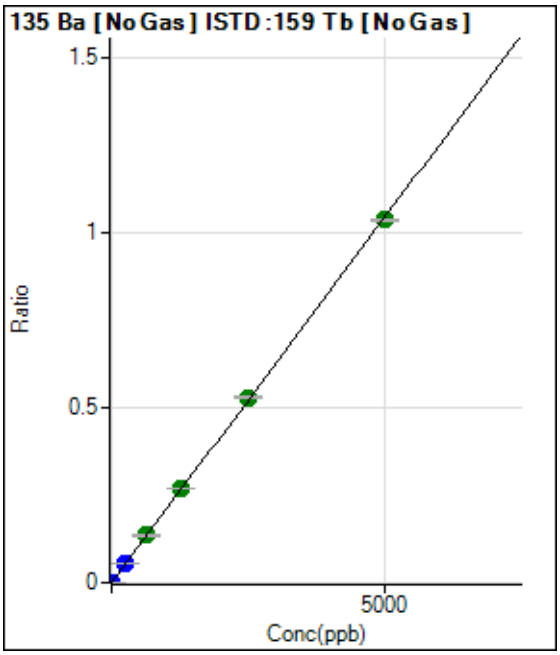
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0000	P	10.8
2	☐	2.000	1.862	21810.85	0.0015	P	0.8
3	☐	50.000	51.318	597468.98	0.0416	P	0.4
4	☐	125.000	126.729	1500692.96	0.1028	M	2.8
5	☐	250.000	261.822	3119413.18	0.2124	A	0.5
6	☐	500.000	510.412	6129734.63	0.4141	A	1.5
7	☐	1000.000	991.557	11860668.44	0.8045	A	0.3
8	☐			3504.93	0.0003	P	7.1

y = 8.1136E-004 * x + 4.8932E-006
R = 0.9998
DL = 0.001949
BEC = 0.006031

Weight: <None>
Min Conc: 0

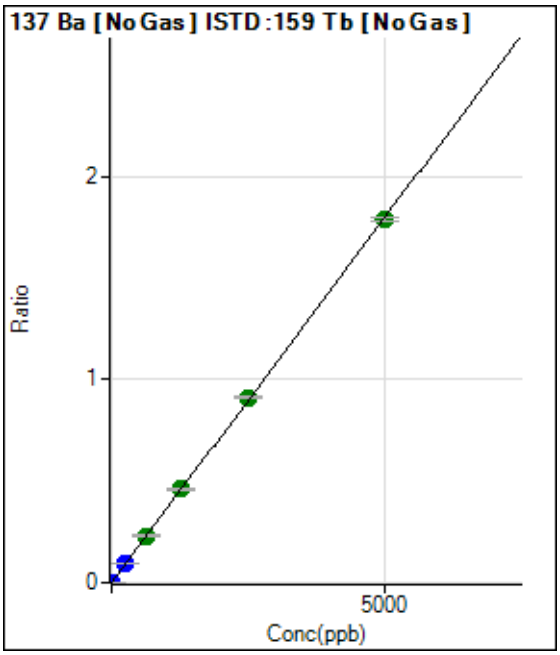


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	374.45	0.0000	P	3.9
2	☐	10.000	9.463	28773.92	0.0020	P	2.7
3	☐	250.000	252.323	755372.89	0.0526	P	0.4
4	☐	625.000	646.790	1968758.60	0.1349	A	1.9
5	☐	1250.000	1287.502	3942970.57	0.2685	A	1.4
6	☐	2500.000	2537.134	7832010.99	0.5292	A	1.5
7	☐	5000.000	4969.219	15278737.69	1.0364	A	0.2
8	☐			6613.91	0.0005	P	5.2

y = 2.0855E-004 * x + 2.6121E-005
R = 0.9999
DL = 0.01477
BEC = 0.1253

Weight: <None>
Min Conc: 0

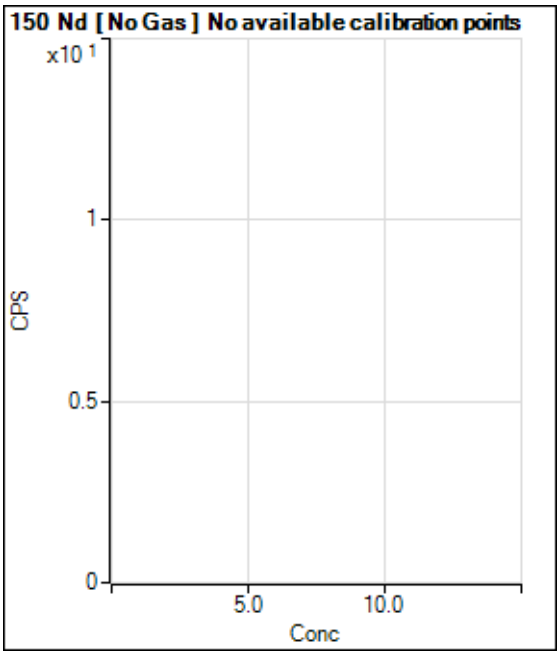
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	611.13	0.0000	P	26.8
2	☐	10.000	9.410	49240.15	0.0034	P	1.1
3	☐	250.000	254.708	1312514.28	0.0915	P	0.2
4	☐	625.000	644.316	3375693.35	0.2313	A	2.4
5	☐	1250.000	1283.953	6768338.02	0.4610	A	1.2
6	☐	2500.000	2532.183	13455447.58	0.9090	A	1.0
7	☐	5000.000	4972.771	26316994.89	1.7852	A	1.0
8	☐			11370.48	0.0009	P	6.7

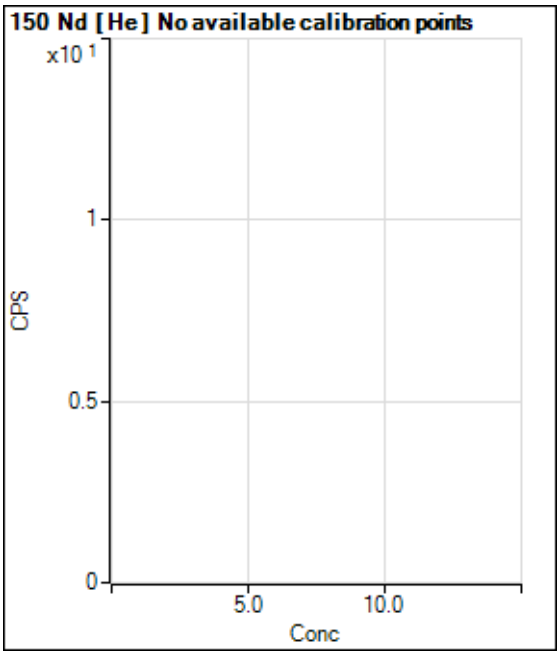
y = 3.5898E-004 * x + 4.3548E-005
R = 0.9999
DL = 0.09758
BEC = 0.1213

Weight: <None>
Min Conc: 0

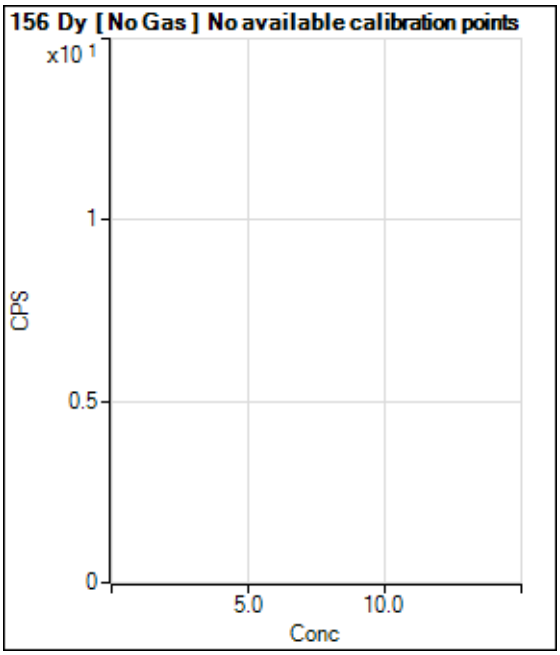


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15.56		P	53.9
2	☐			26.67		P	12.5
3	☐			90.00		P	14.8
4	☐			206.67		P	12.9
5	☐			428.90		P	11.8
6	☐			760.03		P	4.9
7	☐			1473.43		P	2.4
8	☐			323.34		P	1.0

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Inst Id :P8

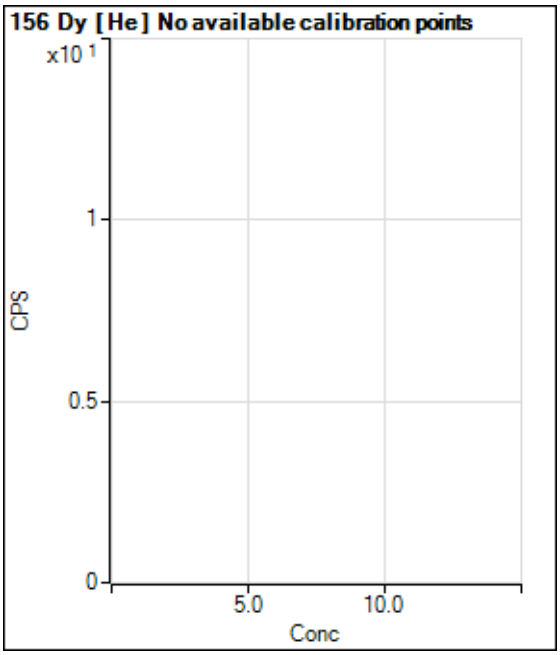


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			5.56		P	34.7
3	☐			1.11		P	173.2
4	☐			15.56		P	49.5
5	☐			11.11		P	45.8
6	☐			32.22		P	36.3
7	☐			52.22		P	9.7
8	☐			56.67		P	15.6

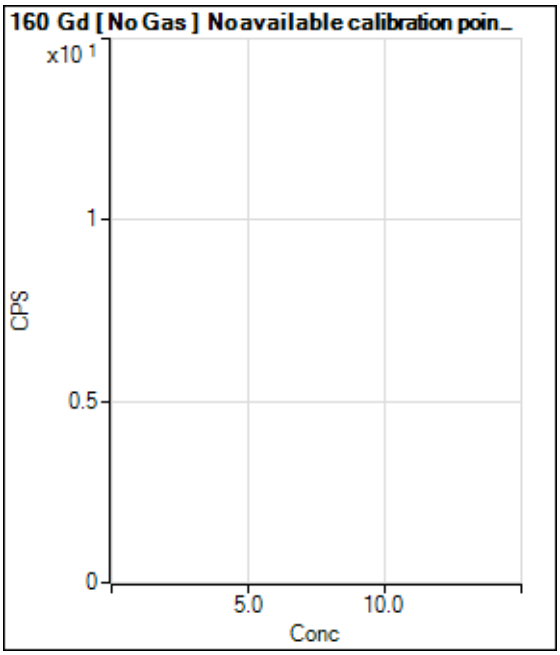


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			111.11		P	30.1
2	☐			117.78		P	11.4
3	☐			107.78		P	6.4
4	☐			145.56		P	18.4
5	☐			184.45		P	8.1
6	☐			268.90		P	7.2
7	☐			440.01		P	11.3
8	☐			528.90		P	13.0

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Inst Id :P8

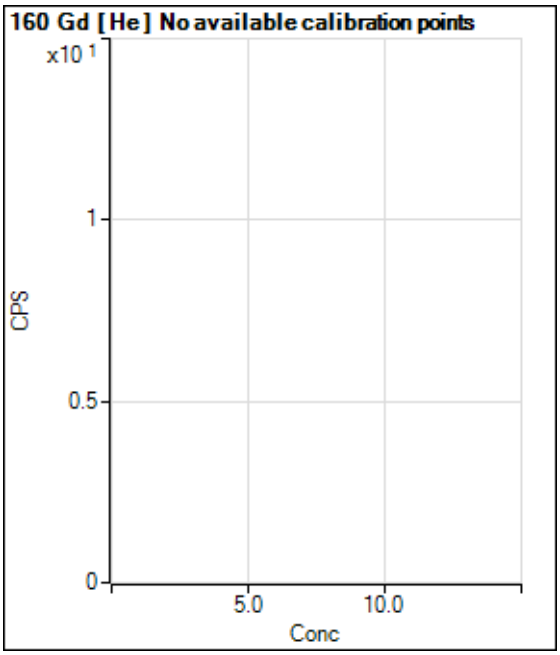


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.1
2	☐			2.22		P	173.2
3	☐			10.00		P	33.3
4	☐			16.67		P	40.0
5	☐			11.11		P	45.8
6	☐			13.33		P	25.0
7	☐			37.78		P	10.2
8	☐			108.89		P	24.7

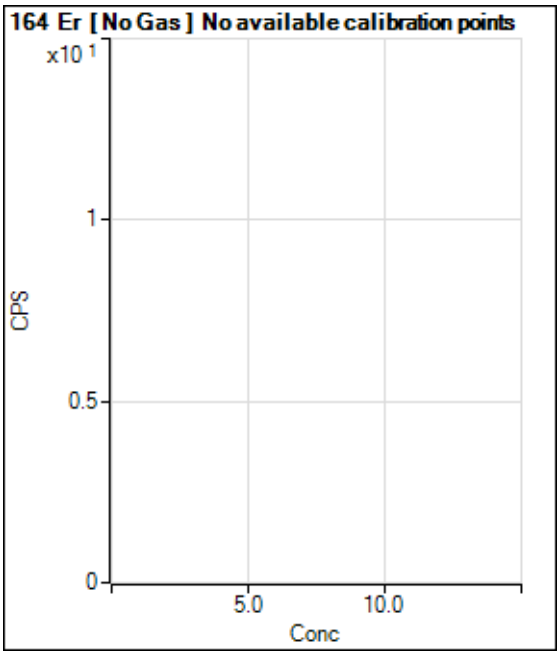


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			53.33		P	43.7
2	☐			52.22		P	20.5
3	☐			52.22		P	16.1
4	☐			60.00		P	27.8
5	☐			58.89		P	39.8
6	☐			122.23		P	8.3
7	☐			182.22		P	10.7
8	☐			434.46		P	4.7

Reviewed By:Mohan
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Inst Id :P8

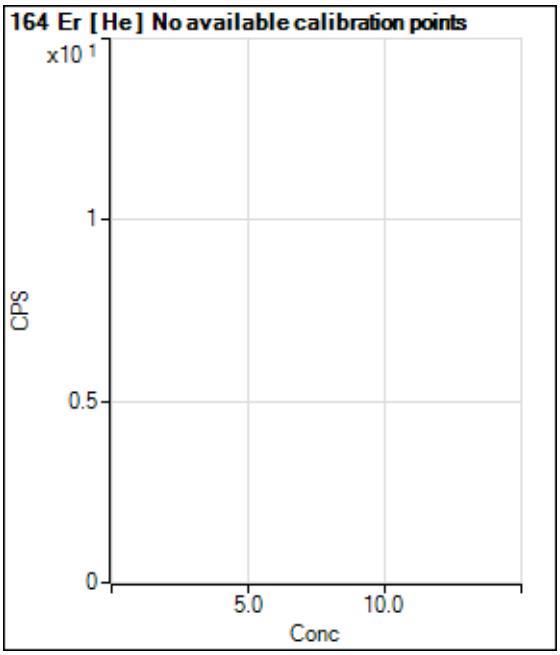


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	0.0
2	☐			5.55		P	124.9
3	☐			12.22		P	56.8
4	☐			15.55		P	24.8
5	☐			14.44		P	35.3
6	☐			20.00		P	28.9
7	☐			45.55		P	15.2
8	☐			152.23		P	14.1

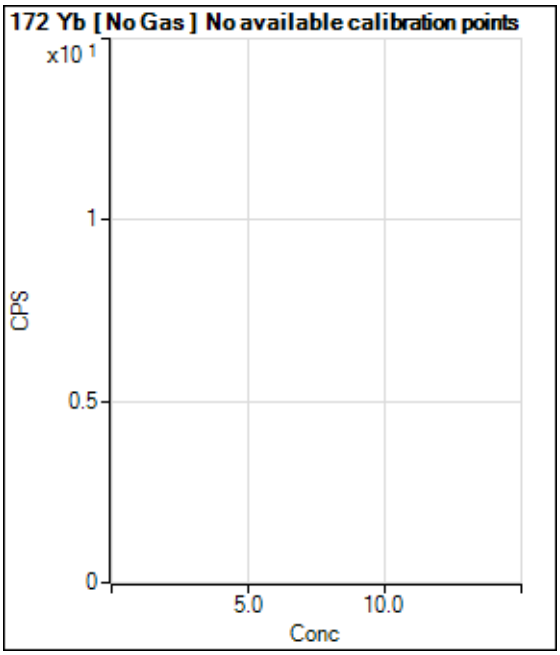


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			63.33		P	15.8
2	☐			57.78		P	26.0
3	☐			86.67		P	21.4
4	☐			105.56		P	7.9
5	☐			117.78		P	14.0
6	☐			164.45		P	18.8
7	☐			218.89		P	6.9
8	☐			541.13		P	5.7

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Inst Id :P8

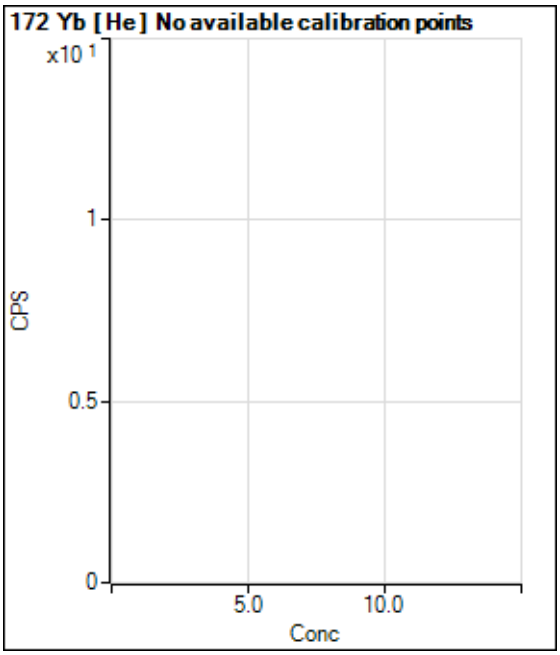


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			16.67		P	40.0
2	☐			30.00		P	11.1
3	☐			30.00		P	11.1
4	☐			43.33		P	20.3
5	☐			37.78		P	10.2
6	☐			58.89		P	17.3
7	☐			75.55		P	20.8
8	☐			166.67		P	4.0

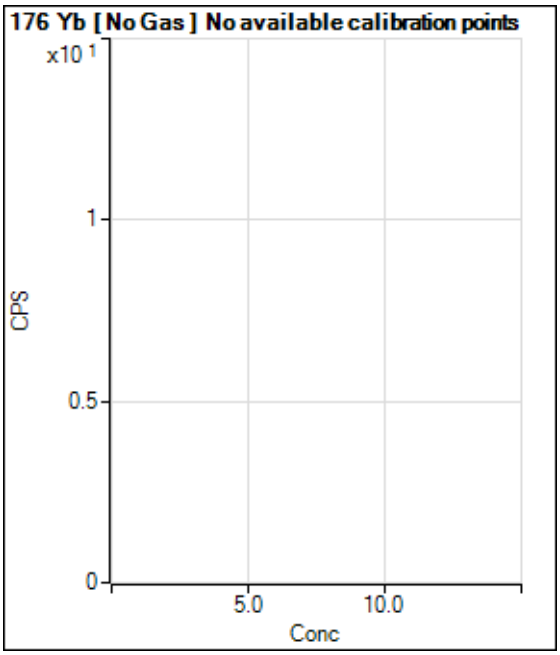


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			82.22		P	18.7
2	☐			93.33		P	27.0
3	☐			88.89		P	31.9
4	☐			84.44		P	2.3
5	☐			121.11		P	17.9
6	☐			148.89		P	3.4
7	☐			253.34		P	3.9
8	☐			576.69		P	5.7

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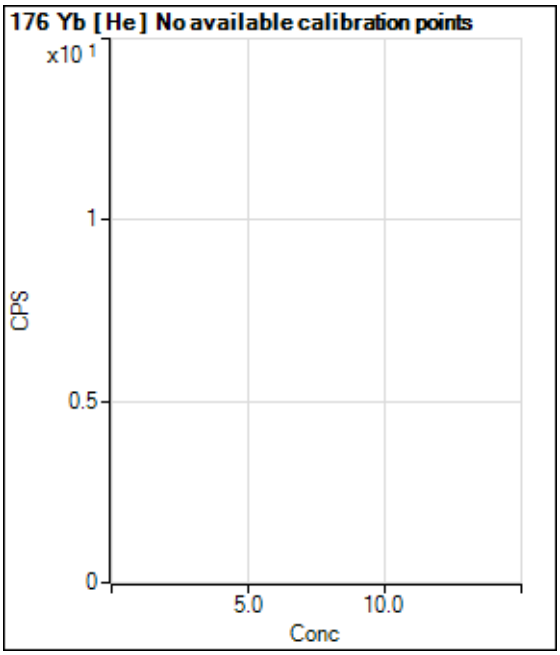


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.56		P	49.4
2	☐			15.56		P	65.5
3	☐			34.44		P	47.7
4	☐			36.67		P	50.6
5	☐			41.11		P	33.8
6	☐			53.33		P	25.0
7	☐			93.33		P	12.9
8	☐			194.45		P	19.3

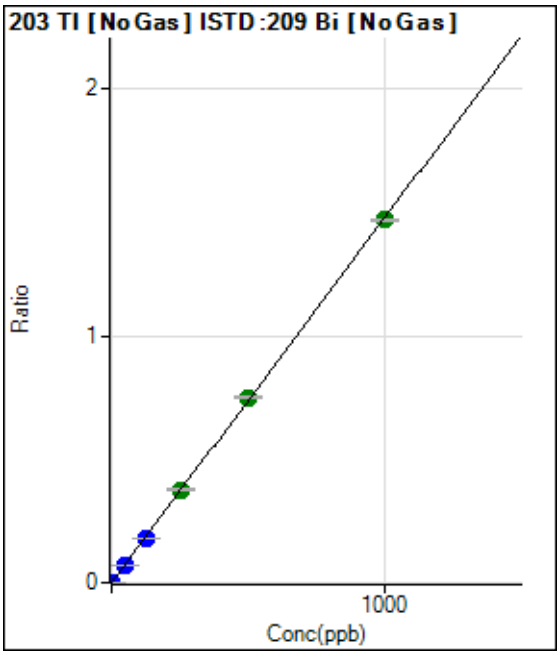


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2031.30		P	10.7
2	☐			1995.73		P	6.0
3	☐			4594.18		P	2.0
4	☐			9057.64		P	2.5
5	☐			16085.45		P	1.7
6	☐			29494.03		P	1.2
7	☐			56673.03		P	1.7
8	☐			2079.07		P	2.1

Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			308.89		P	9.4
2	☐			286.67		P	4.2
3	☐			1238.96		P	7.8
4	☐			2551.38		P	4.7
5	☐			4988.78		P	3.3
6	☐			9345.60		P	2.0
7	☐			18282.75		P	1.9
8	☐			370.01		P	13.6

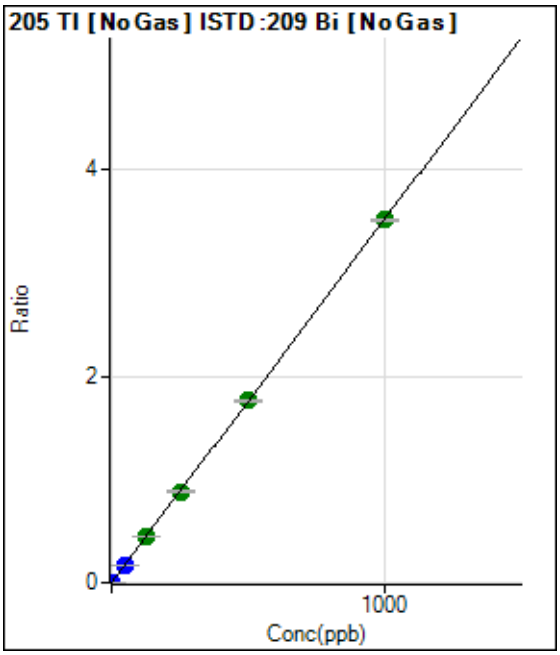


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0000	P	27.9
2	☐	1.000	0.881	11629.74	0.0013	P	2.5
3	☐	50.000	49.520	634791.69	0.0731	P	0.7
4	☐	125.000	120.651	1564657.18	0.1781	P	1.5
5	☐	250.000	254.672	3277298.60	0.3759	A	1.7
6	☐	500.000	508.404	6446345.46	0.7505	A	0.9
7	☐	1000.000	995.198	12320477.18	1.4690	A	0.6
8	☐			1142.29	0.0002	P	7.3

y = 0.0015 * x + 2.3927E-005
R = 0.9999
DL = 0.01355
BEC = 0.01621

Weight: <None>
Min Conc: 0

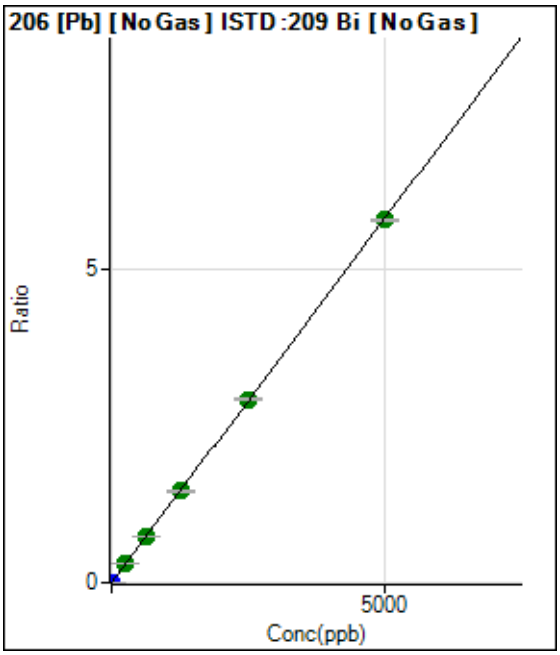
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Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	478.90	0.0001	P	11.1
2	☐	1.000	0.890	27960.16	0.0032	P	2.2
3	☐	50.000	49.260	1504612.18	0.1733	P	0.6
4	☐	125.000	126.227	3900217.86	0.4440	A	1.9
5	☐	250.000	250.723	7688388.01	0.8819	A	0.6
6	☐	500.000	501.683	15157174.08	1.7645	A	1.0
7	☐	1000.000	998.861	29465912.62	3.5132	A	0.4
8	☐			2562.51	0.0004	P	11.4

y = 0.0035 * x + 5.4910E-005
R = 1.0000
DL = 0.005216
BEC = 0.01561

Weight: <None>
Min Conc: 0

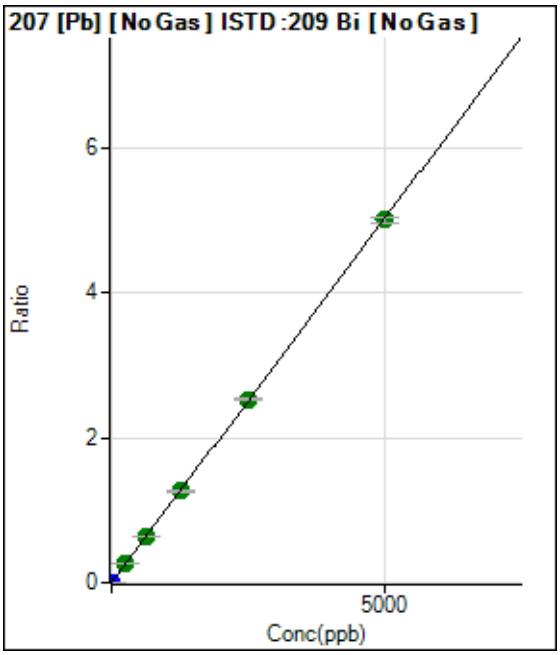


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1127.84	0.0001	P	16.7
2	☐	1.000	0.892	10208.52	0.0012	P	1.8
3	☐	250.000	259.115	2605112.08	0.3001	A	0.5
4	☐	625.000	624.844	6355307.75	0.7234	A	0.5
5	☐	1250.000	1258.748	12703736.47	1.4572	A	1.2
6	☐	2500.000	2522.106	25078558.24	2.9196	A	1.3
7	☐	5000.000	4986.324	48411599.28	5.7721	A	0.4
8	☐			8701.89	0.0013	P	4.6

y = 0.0012 * x + 1.3025E-004
R = 1.0000
DL = 0.05627
BEC = 0.1125

Weight: <None>
Min Conc: 0

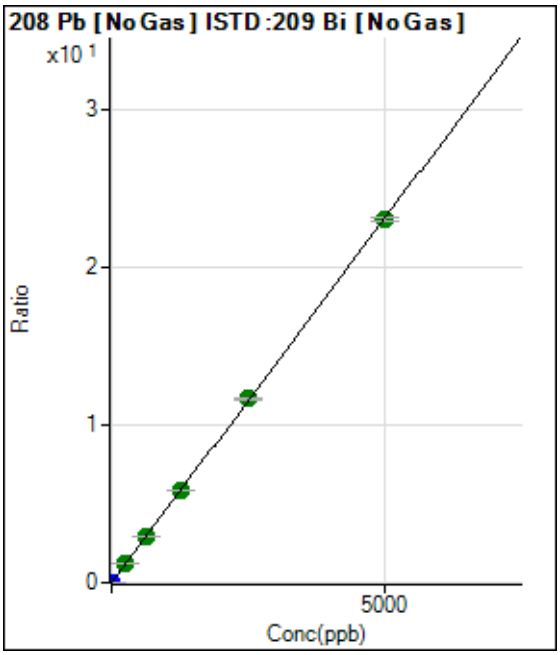
Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	984.49	0.0001	P	16.0
2	☐	1.000	0.920	9112.17	0.0010	P	2.1
3	☐	250.000	259.437	2263348.54	0.2607	A	0.7
4	☐	625.000	635.055	5604720.89	0.6380	A	0.9
5	☐	1250.000	1255.411	10994351.92	1.2611	A	1.4
6	☐	2500.000	2521.416	21755070.51	2.5328	A	1.9
7	☐	5000.000	4986.211	42006062.43	5.0086	A	1.4
8	☐			7511.16	0.0011	P	7.1

y = 0.0010 * x + 1.1353E-004
R = 1.0000
DL = 0.05426
BEC = 0.113

Weight: <None>
Min Conc: 0

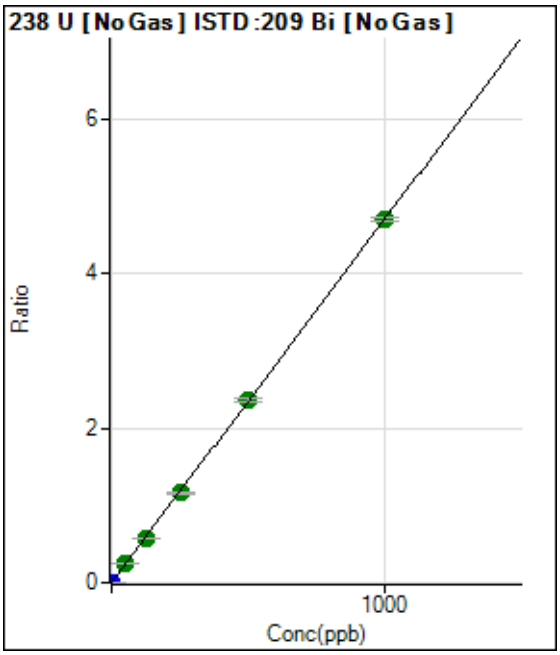


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4490.35	0.0005	P	15.6
2	☐	1.000	0.900	40987.78	0.0047	P	1.2
3	☐	250.000	258.680	10364976.23	1.1939	A	0.4
4	☐	625.000	632.112	25622681.77	2.9167	A	0.6
5	☐	1250.000	1263.574	50823230.49	5.8298	A	1.3
6	☐	2500.000	2523.579	100002692.9	11.6426	A	1.6
7	☐	5000.000	4983.494	192822647.9	22.9910	A	0.9
8	☐			34595.11	0.0051	P	4.1

y = 0.0046 * x + 5.1799E-004
R = 1.0000
DL = 0.05245
BEC = 0.1123

Weight: <None>
Min Conc: 0

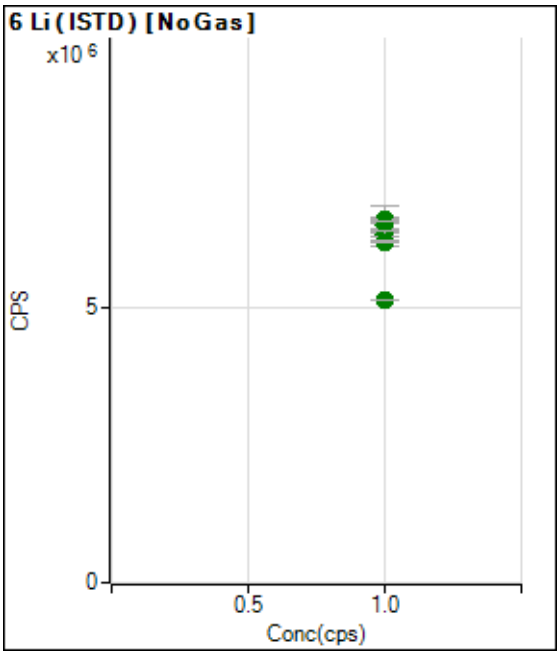
Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	41.9
2	☐	1.000	0.877	36205.91	0.0041	P	0.3
3	☐	50.000	50.500	2059061.06	0.2372	A	0.6
4	☐	125.000	123.052	5076496.49	0.5779	A	1.9
5	☐	250.000	247.141	10118903.46	1.1607	A	1.6
6	☐	500.000	503.739	20320707.20	2.3658	A	1.6
7	☐	1000.000	999.064	39352153.86	4.6921	A	1.0
8	☐			2758.11	0.0004	P	10.8

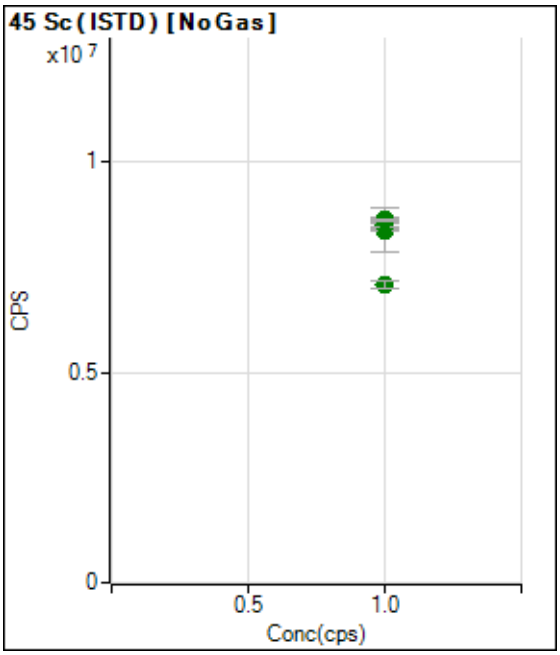
y = 0.0047 * x + 4.9186E-006
R = 1.0000
DL = 0.001318
BEC = 0.001047

Weight: <None>
Min Conc: 0

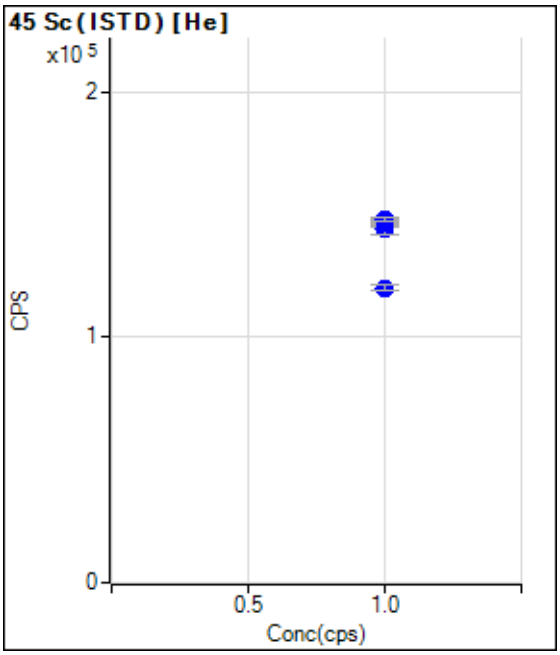


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6477544.33		A	11.3
2	☐	1.000		6586320.05		A	1.3
3	☐	1.000		6567911.89		A	1.0
4	☐	1.000		6489323.63		A	1.8
5	☐	1.000		6399293.43		A	0.9
6	☐	1.000		6331340.31		A	1.3
7	☐	1.000		6195639.31		A	0.5
8	☐	1.000		5126474.56		A	0.1

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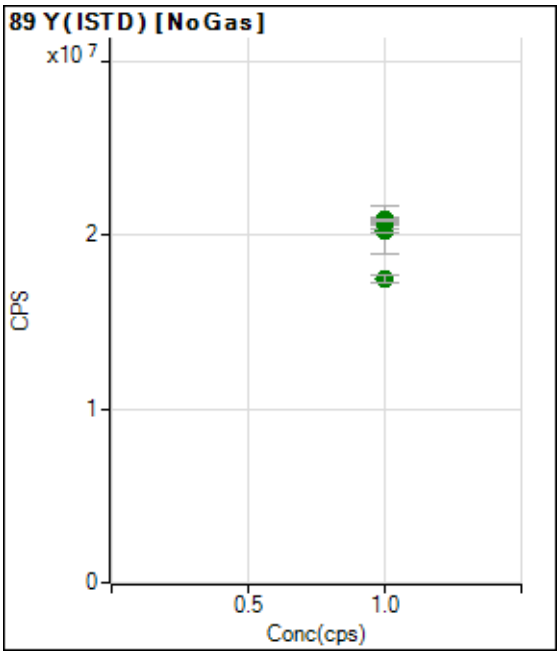


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8374235.99		A	12.7
2	☐	1.000		8435609.74		A	1.0
3	☐	1.000		8376724.80		A	0.8
4	☐	1.000		8608709.17		A	1.3
5	☐	1.000		8501483.97		A	0.8
6	☐	1.000		8622926.33		A	1.7
7	☐	1.000		8621134.60		A	0.8
8	☐	1.000		7093545.24		A	2.4

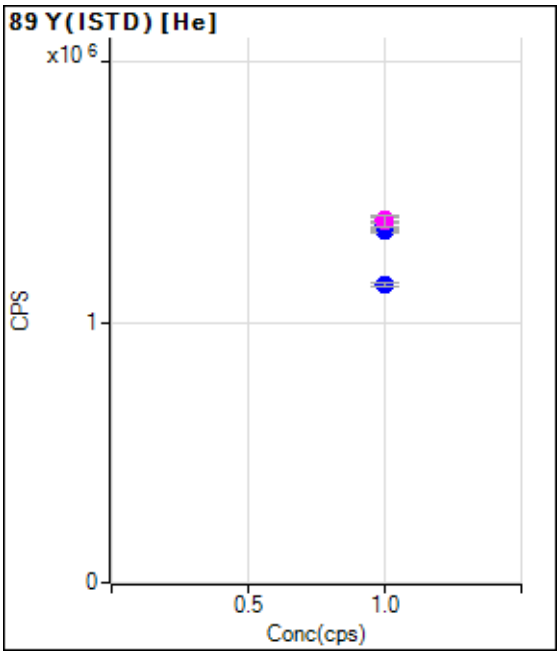


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		147464.13		P	1.0
2	☐	1.000		145200.00		P	0.6
3	☐	1.000		145645.80		P	0.5
4	☐	1.000		144061.48		P	3.7
5	☐	1.000		146828.74		P	0.7
6	☐	1.000		147501.14		P	1.2
7	☐	1.000		147742.41		P	1.1
8	☐	1.000		120025.00		P	2.1

Reviewed By:Mohan
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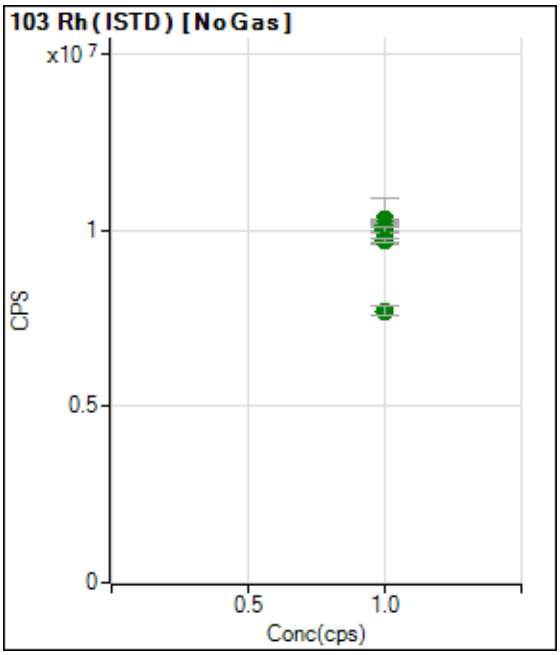


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20301412.75		A	13.3
2	☐	1.000		20275382.34		A	1.1
3	☐	1.000		20282783.72		A	1.1
4	☐	1.000		20649031.22		A	0.7
5	☐	1.000		20664929.83		A	0.4
6	☐	1.000		20801780.38		A	1.5
7	☐	1.000		20863368.58		A	0.3
8	☐	1.000		17519937.10		A	2.5

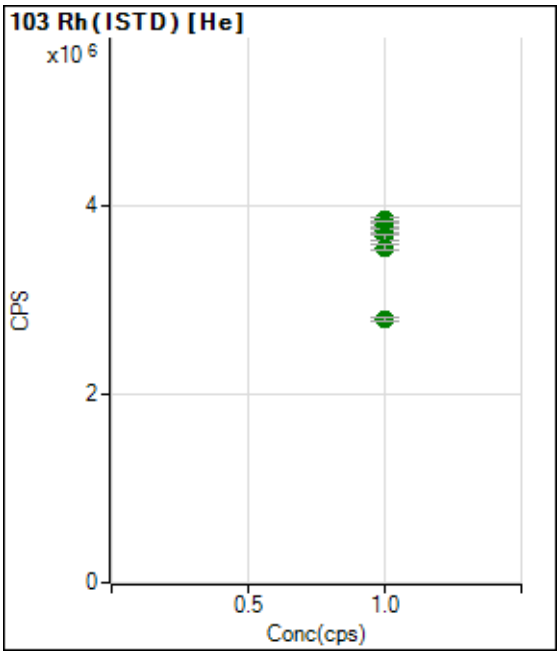


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1383589.53		P	0.7
2	☐	1.000		1349803.36		P	0.5
3	☐	1.000		1363321.72		P	0.9
4	☐	1.000		1381282.67		M	3.6
5	☐	1.000		1373190.25		P	1.1
6	☐	1.000		1393745.53		M	2.1
7	☐	1.000		1391861.11		M	3.2
8	☐	1.000		1145832.62		P	1.2

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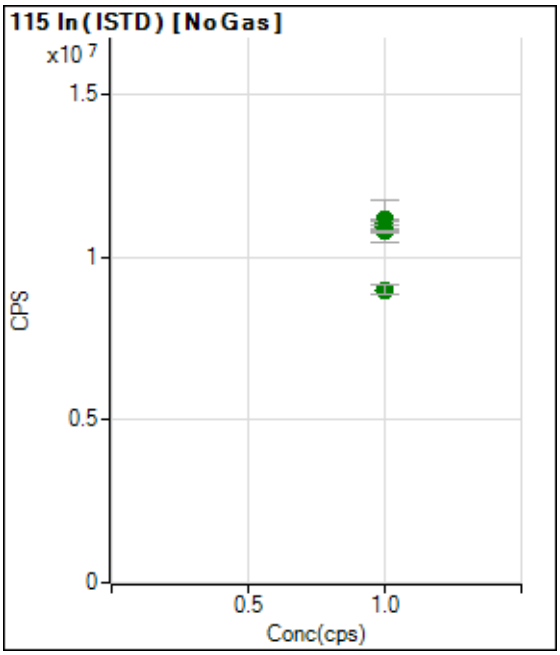


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10251060.33		A	12.9
2	☐	1.000		10284011.10		A	0.9
3	☐	1.000		10056594.43		A	1.2
4	☐	1.000		10126336.59		A	0.9
5	☐	1.000		10021453.95		A	1.0
6	☐	1.000		9987269.44		A	1.6
7	☐	1.000		9722174.99		A	1.0
8	☐	1.000		7705405.03		A	3.4

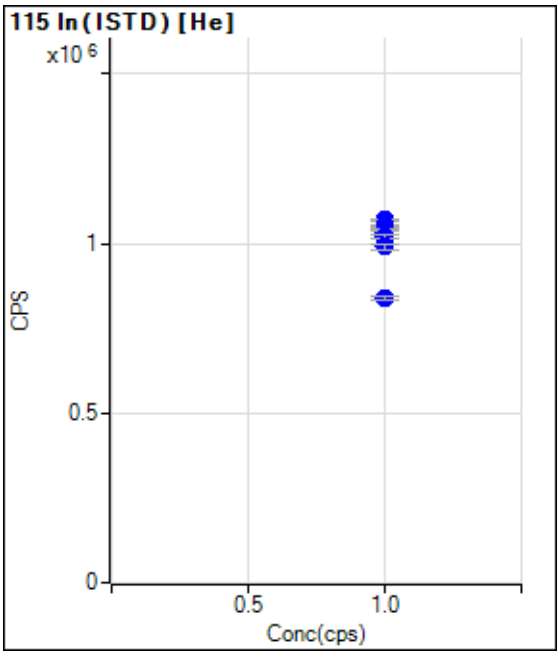


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3844152.72		A	1.5
2	☐	1.000		3761405.29		A	0.9
3	☐	1.000		3791877.69		A	1.6
4	☐	1.000		3683301.92		A	3.1
5	☐	1.000		3727945.71		A	0.9
6	☐	1.000		3663278.73		A	1.5
7	☐	1.000		3547019.25		A	1.8
8	☐	1.000		2796662.35		A	1.4

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
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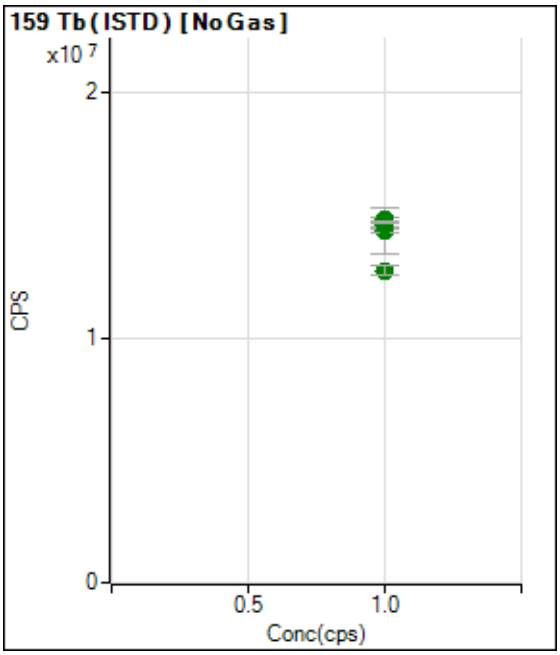


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2	☐	1.000		11138236.49		A	0.9
3	☐	1.000		11023032.83		A	0.9
4	☐	1.000		11113017.63		A	0.5
5	☐	1.000		11095219.44		A	0.5
6	☐	1.000		10937344.16		A	1.2
7	☐	1.000		10774777.50		A	0.6
8	☐	1.000		8990211.42		A	3.6

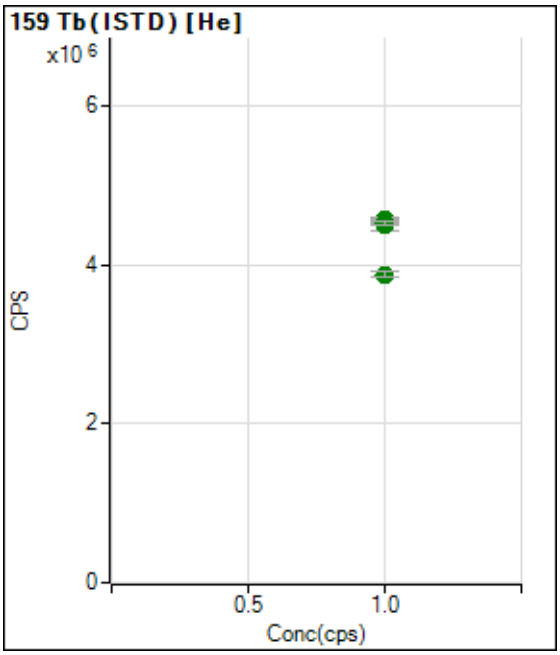


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2	☐	1.000		1042326.73		P	0.2
3	☐	1.000		1051776.19		P	0.7
4	☐	1.000		1029208.60		P	3.3
5	☐	1.000		1040696.80		P	0.6
6	☐	1.000		1022592.54		P	1.0
7	☐	1.000		990234.40		P	1.4
8	☐	1.000		839978.31		P	1.3

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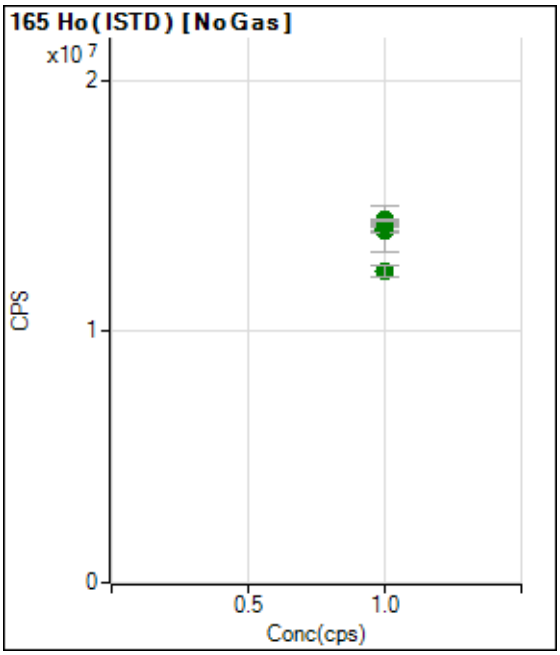


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14375280.48		A	13.3
2	☐	1.000		14391720.90		A	1.2
3	☐	1.000		14347749.51		A	1.0
4	☐	1.000		14594175.75		A	0.9
5	☐	1.000		14683852.84		A	0.6
6	☐	1.000		14803273.25		A	1.5
7	☐	1.000		14742674.64		A	0.5
8	☐	1.000		12715428.70		A	3.1

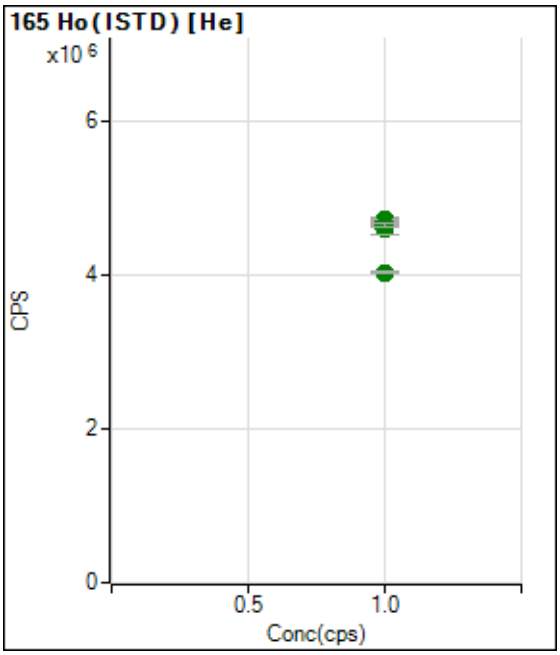


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4571228.51		A	1.4
2	☐	1.000		4510837.88		A	0.7
3	☐	1.000		4534275.14		A	1.5
4	☐	1.000		4497400.87		A	3.2
5	☐	1.000		4536951.56		A	1.6
6	☐	1.000		4509177.26		A	0.6
7	☐	1.000		4528995.24		A	1.3
8	☐	1.000		3881299.00		A	1.9

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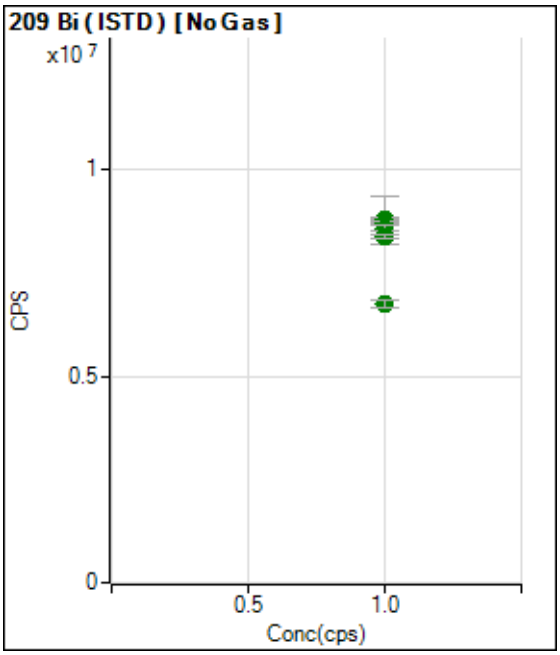


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1	☐	1.000		14083860.90		A	12.6
2	☐	1.000		13990971.32		A	0.1
3	☐	1.000		14052124.51		A	1.5
4	☐	1.000		14276882.43		A	0.9
5	☐	1.000		14305625.20		A	0.9
6	☐	1.000		14423663.95		A	1.0
7	☐	1.000		14448899.23		A	0.7
8	☐	1.000		12413906.34		A	3.3

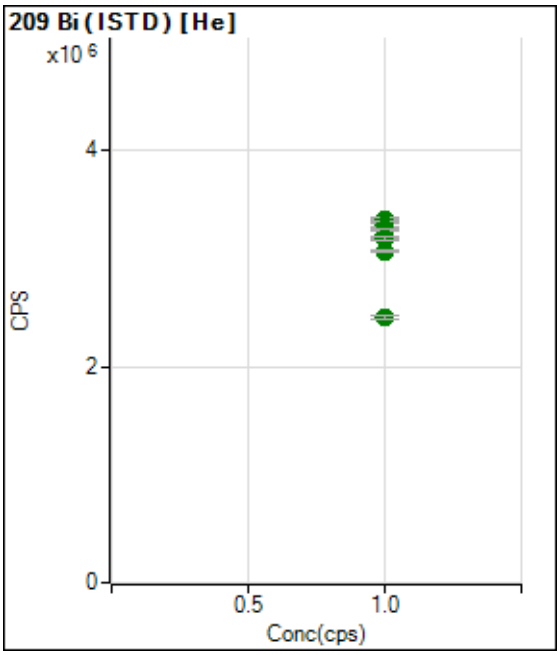


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4723781.42		A	1.6
2	☐	1.000		4658305.66		A	0.5
3	☐	1.000		4695298.19		A	1.5
4	☐	1.000		4616295.07		A	3.7
5	☐	1.000		4709989.24		A	0.2
6	☐	1.000		4703468.82		A	1.0
7	☐	1.000		4657659.24		A	1.2
8	☐	1.000		4034630.36		A	0.8

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8786559.80		A	13.1
2	☐	1.000		8778559.52		A	0.9
3	☐	1.000		8681611.67		A	0.5
4	☐	1.000		8785334.94		A	1.2
5	☐	1.000		8718401.26		A	0.8
6	☐	1.000		8590527.44		A	1.2
7	☐	1.000		8387302.44		A	0.9
8	☐	1.000		6766624.34		A	3.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3327025.96		A	2.2
2	☐	1.000		3355896.58		A	1.4
3	☐	1.000		3309949.36		A	1.8
4	☐	1.000		3220689.64		A	2.2
5	☐	1.000		3264692.04		A	0.9
6	☐	1.000		3182245.78		A	1.1
7	☐	1.000		3067295.58		A	1.0
8	☐	1.000		2457139.93		A	1.9

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8012425MS.b
Acq. Date-Time	2025-01-24 08:56:54
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		27300	272995.41			0.772	5.000
24		543337	5433365.92			1.260	5.000
25		74118	741184.09			1.165	5.000
26		86410	864098.80			0.833	5.000
59		118424	1184238.00			0.825	5.000
113		13632	136323.30			0.720	5.000
115		179631	1796311.02			0.263	5.000
206		40475	404749.41			0.167	5.000
207		34980	349804.69			0.263	5.000
208		84737	847372.07			0.540	5.000
220		0	3.10			44.756	

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	27661	27308	27171	27204	27154
24	553973	546353	538562	540141	537654
25	75021	74988	73560	73086	73937
26	87207	87132	86203	85675	85832
59	119593	117586	119247	117397	118296
113	13744	13717	13555	13628	13518
115	180117	179012	179368	179581	180079
206	40559	40434	40429	40416	40537
207	35099	34934	34992	35021	34856
208	84979	84876	84188	85293	84350

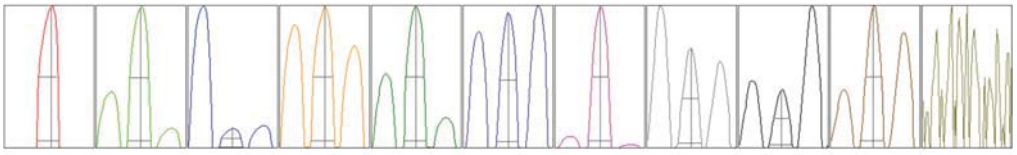
Reviewed By:Mohan
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Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	45994.53	9.10	8.90 - 9.10	
24	918887.97	24.00	23.90 - 24.10	
25	124805.68	25.00	24.90 - 25.10	
26	144801.89	26.05	25.90 - 26.10	
59	208949.23	59.00	58.90 - 59.10	
113	26561.67	113.05	112.90 - 113.10	
115	345126.52	115.05	114.90 - 115.10	
206	78285.37	206.00	205.90 - 206.10	
207	67909.56	206.95	206.90 - 207.10	
208	165102.55	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.741	0.900	
24	0.62	0.783	0.900	
25	0.63	0.784	0.900	
26	0.64	0.787	0.900	
59	0.60	0.739	0.900	
113	0.54	0.716	0.900	
115	0.55	0.761	0.900	
206	0.54	0.784	0.900	
207	0.53	0.778	0.900	
208	0.53	0.775	0.900	
220				

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

Tune Parameters

Plasma Parameters

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

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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	7.8 V	Deflect	15.2 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		19994	199938.75			0.283	
89		16388	163876.92			0.310	
205		21575	215748.24			0.333	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	20073	20013	20001	19927	19955
89	16448	16310	16393	16377	16411
205	21502	21630	21650	21495	21596

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.8 V	Deflect	2.0 V

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ClientSampleId :TUNE001

US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm

EM

Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.24	0.33	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.02	0.03	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	-0.01	0.00	N/A	ppb
Barium	137-1	-0.01	0.03	-0.03	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	-0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.00	-0.02	0.00	N/A	ppb
Cadmium	106-1	0.58	-0.21	-0.37	0.00	N/A	ppb
Cadmium	111-1	0.01	0.00	-0.01	0.00	N/A	ppb
Calcium	43-1	-0.35	0.93	-0.58	0.00	N/A	ppb
Calcium	44-1	-0.37	1.57	-1.20	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.01	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.05	-0.04	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	0.65	-0.38	-0.27	0.00	N/A	ppb
Iron	56-2	-0.01	0.04	-0.03	0.00	N/A	ppb
Iron	57-2	-0.11	0.22	-0.11	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.02	-0.02	0.00	N/A	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.02	-0.02	0.00	N/A	ppb
Lead	208-1	0.00	0.02	-0.02	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.28	0.04	-0.32	0.00	N/A	ppb
Manganese	55-2	0.03	-0.03	-0.01	0.00	N/A	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	-0.01	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	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	-0.06	0.02	0.05	0.00	N/A	ppb
Phosphorus	31-2	-18.69	-18.36	-15.92	-17.66		ppb
Potassium	39-2	0.43	-1.48	1.05	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.15	-0.29	0.15	0.00	N/A	ppb
Selenium	77-2	-0.36	0.72	-0.36	0.00	N/A	ppb
Selenium	78-2	0.10	-0.53	0.42	0.00	N/A	ppb
Silicon	28-1	-0.38	1.35	-0.97	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	-1.23	0.21	1.02	0.00	N/A	ppb
Strontium	86-1	-0.01	0.02	-0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-211.64	1091.95	-652.98	75.78	1197.31	ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	-0.01	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	0.02	-0.01	0.00	N/A	ppb
Titanium	47-1	-0.01	0.01	-0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	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	0.09	-0.08	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00	N/A	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.37	18.79	18.86	18.34	4.60	ppb
Antimony	121-1	1.85	1.86	1.88	1.86	0.83	ppb
Arsenic	75-2	0.95	1.12	1.02	1.03	8.23	ppb
Barium	135-1	9.18	9.51	9.70	9.46	2.78	ppb
Barium	137-1	9.32	9.53	9.38	9.41	1.11	ppb
Beryllium	9-1	0.92	0.98	0.97	0.96	3.19	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.04	1.03	0.87	0.98	9.45	ppb
Cadmium	106-1	1.06	0.85	0.20	0.70	63.35	ppb
Cadmium	111-1	1.02	1.04	0.98	1.01	2.91	ppb
Calcium	43-1	468.39	477.27	484.63	476.76	1.71	ppb
Calcium	44-1	476.54	477.85	485.60	480.00	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.86	1.87	1.86	1.86	0.29	ppb
Cobalt	59-2	1.04	1.03	1.02	1.03	0.86	ppb
Copper	63-2	2.04	2.10	2.09	2.08	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				99		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	51.19	52.37	51.30	51.62	1.26	ppb
Iron	56-2	51.25	50.90	51.38	51.18	0.48	ppb
Iron	57-2	49.36	54.11	46.64	50.04	7.55	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.88	0.91	0.89	2.02	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.94	0.93	0.90	0.92	2.34	ppb
Lead	208-1	0.89	0.90	0.91	0.90	1.31	ppb
Lithium	6-1				102		%
Magnesium	24-2	503.96	513.47	511.91	509.78	1.00	ppb
Manganese	55-2	0.92	1.05	0.94	0.97	7.55	ppb
Molybdenum	94-1	5.50	5.64	5.64	5.60	1.44	ppb
Molybdenum	95-1	4.60	4.58	4.66	4.61	0.91	ppb
Molybdenum	96-1	4.73	4.76	4.87	4.78	1.58	ppb
Molybdenum	97-1	4.68	4.75	4.76	4.73	0.96	ppb
Molybdenum	98-1	4.54	4.55	4.62	4.57	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.96	1.00	0.99	0.98	2.24	ppb
Phosphorus	31-2	25.44	14.70	12.84	17.66	38.52	ppb
Potassium	39-2	461.16	467.45	465.45	464.69	0.69	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	5.01	5.01	5.49	5.17	5.37	ppb
Selenium	77-2	7.40	9.54	7.32	8.09	15.55	ppb
Selenium	78-2	5.67	7.57	7.23	6.82	14.79	ppb
Silicon	28-1	0.97	0.89	1.10	0.99	10.59	ppb
Silver	107-1	0.94	0.93	0.95	0.94	0.76	ppb
Silver	109-1	0.94	0.94	0.96	0.95	0.90	ppb
Sodium	23-2	482.00	491.72	485.15	486.29	1.02	ppb
Strontium	86-1	0.94	0.91	0.95	0.94	2.23	ppb
Strontium	88-1	0.89	0.91	0.91	0.91	1.28	ppb
Sulfur	34-1	-109.46	-95.94	-21.93	-75.78		ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.86	0.88	0.90	0.88	2.57	ppb
Thallium	205-1	0.87	0.91	0.90	0.89	2.23	ppb
Tin	118-1	4.67	4.83	4.78	4.76	1.72	ppb
Titanium	47-1	4.72	4.78	4.82	4.77	1.07	ppb
Uranium	238-1	0.88	0.88	0.88	0.88	0.26	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.71	4.73	4.53	4.66	2.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	4.97	5.24	4.38	4.86	9.10	ppb
Zirconium	90-1	0.90	0.94	0.93	0.92	2.11	ppb
Zirconium	91-1	0.92	0.93	0.93	0.93	0.51	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1028.26	1033.98	1040.15	1034.13	0.58	ppb
Antimony	121-1	51.31	51.14	51.50	51.32	0.35	ppb
Arsenic	75-2	55.06	50.40	53.08	52.85	4.43	ppb
Barium	135-1	253.29	251.53	252.14	252.32	0.35	ppb
Barium	137-1	254.23	254.64	255.25	254.71	0.20	ppb
Beryllium	9-1	51.19	51.65	52.55	51.79	1.34	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	54.59	53.61	55.18	54.46	1.46	ppb
Cadmium	106-1	56.40	54.28	54.63	55.11	2.06	ppb
Cadmium	111-1	53.83	52.86	53.26	53.31	0.92	ppb
Calcium	43-1	5140.81	5187.54	5121.14	5149.83	0.66	ppb
Calcium	44-1	5260.79	5239.78	5200.22	5233.59	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.50	51.32	51.00	51.27	0.49	ppb
Cobalt	59-2	52.34	52.75	52.28	52.46	0.49	ppb
Copper	63-2	557.56	555.34	559.51	557.47	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				99		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	2696.52	2725.59	2713.37	2711.83	0.54	ppb
Iron	56-2	2759.63	2758.81	2715.00	2744.48	0.93	ppb
Iron	57-2	2618.12	2641.58	2633.02	2630.91	0.45	ppb
Krypton	83-1						cps
Lead	206-1	259.20	260.41	257.73	259.11	0.52	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	261.50	257.91	258.90	259.44	0.71	ppb
Lead	208-1	258.29	257.80	259.96	258.68	0.44	ppb
Lithium	6-1				101		%
Magnesium	24-2	5403.92	5404.85	5400.40	5403.06	0.04	ppb
Manganese	55-2	511.96	517.78	509.99	513.24	0.79	ppb
Molybdenum	94-1	528.94	527.84	531.98	529.58	0.40	ppb
Molybdenum	95-1	520.51	525.75	518.61	521.62	0.71	ppb
Molybdenum	96-1	522.34	531.77	519.29	524.47	1.24	ppb
Molybdenum	97-1	530.14	527.11	525.72	527.66	0.43	ppb
Molybdenum	98-1	521.08	522.92	511.68	518.56	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	56.69	56.87	55.49	56.35	1.34	ppb
Phosphorus	31-2	1026.21	1097.54	1037.86	1053.87	3.63	ppb
Potassium	39-2	2506.63	2500.02	2473.10	2493.25	0.71	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	55.36	54.19	52.42	53.99	2.74	ppb
Selenium	77-2	50.32	56.26	57.06	54.54	6.75	ppb
Selenium	78-2	58.80	60.03	54.31	57.71	5.22	ppb
Silicon	28-1	52.19	53.35	51.59	52.38	1.71	ppb
Silver	107-1	53.21	52.94	53.48	53.21	0.51	ppb
Silver	109-1	53.17	52.71	53.96	53.28	1.19	ppb
Sodium	23-2	5414.52	5424.14	5416.72	5418.46	0.09	ppb
Strontium	86-1	50.63	50.72	50.51	50.62	0.21	ppb
Strontium	88-1	53.69	53.40	52.22	53.10	1.47	ppb
Sulfur	34-1	1177.49	1092.08	1090.38	1119.98	4.45	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	49.24	49.42	49.90	49.52	0.69	ppb
Thallium	205-1	49.08	49.61	49.09	49.26	0.62	ppb
Tin	118-1	52.15	51.98	51.90	52.01	0.24	ppb
Titanium	47-1	514.80	514.54	514.91	514.75	0.04	ppb
Uranium	238-1	50.73	50.16	50.61	50.50	0.59	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.74	50.28	50.94	50.65	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	528.62	529.89	524.00	527.50	0.59	ppb
Zirconium	90-1	49.62	50.03	49.85	49.83	0.41	ppb
Zirconium	91-1	49.75	49.94	49.85	49.85	0.19	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2711.42	2613.60	2533.88	2619.64	3.39	ppb
Antimony	121-1	123.22	126.56	130.41	126.73	2.84	ppb
Arsenic	75-2	131.06	133.15	126.26	130.16	2.71	ppb
Barium	135-1	644.59	659.98	635.81	646.79	1.89	ppb
Barium	137-1	639.63	661.33	631.99	644.32	2.36	ppb
Beryllium	9-1	125.71	129.82	129.42	128.32	1.77	ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	130.99	136.62	135.46	134.35	2.21	ppb
Cadmium	106-1	129.29	133.35	132.10	131.58	1.58	ppb
Cadmium	111-1	126.61	129.29	127.66	127.85	1.06	ppb
Calcium	43-1	12181.36	12554.18	12582.48	12439.34	1.80	ppb
Calcium	44-1	12390.62	12773.54	12734.73	12632.96	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	132.25	127.43	124.95	128.21	2.90	ppb
Cobalt	59-2	137.30	130.90	127.46	131.89	3.79	ppb
Copper	63-2	1454.95	1396.91	1366.94	1406.27	3.18	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				101		%
Holmium	165-2				98		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	7057.45	6769.03	6571.59	6799.36	3.59	ppb
Iron	56-2	7152.72	6903.39	6661.80	6905.97	3.55	ppb
Iron	57-2	6909.05	6569.30	6462.94	6647.10	3.51	ppb
Krypton	83-1						cps
Lead	206-1	624.23	628.32	621.97	624.84	0.52	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	636.66	640.05	628.46	635.05	0.94	ppb
Lead	208-1	631.00	636.28	629.05	632.11	0.59	ppb
Lithium	6-1				100		%
Magnesium	24-2	14560.76	14042.95	13278.72	13960.81	4.62	ppb
Manganese	55-2	1450.17	1366.50	1308.01	1374.89	5.20	ppb
Molybdenum	94-1	1262.61	1281.20	1287.41	1277.08	1.01	ppb
Molybdenum	95-1	1281.87	1287.24	1260.10	1276.40	1.13	ppb
Molybdenum	96-1	1260.09	1291.70	1273.58	1275.12	1.24	ppb
Molybdenum	97-1	1273.53	1284.35	1285.78	1281.22	0.52	ppb
Molybdenum	98-1	1254.77	1288.86	1284.06	1275.90	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	144.40	139.05	136.85	140.10	2.77	ppb
Phosphorus	31-2	2855.98	2727.63	2632.27	2738.63	4.10	ppb
Potassium	39-2	6536.44	6235.71	6133.66	6301.94	3.32	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	130.42	134.69	136.25	133.79	2.25	ppb
Selenium	77-2	151.38	143.53	140.44	145.12	3.89	ppb
Selenium	78-2	137.93	143.77	138.71	140.14	2.26	ppb
Silicon	28-1	122.51	125.49	125.43	124.48	1.37	ppb
Silver	107-1	134.80	136.12	135.50	135.47	0.49	ppb
Silver	109-1	135.59	138.50	139.02	137.71	1.34	ppb
Sodium	23-2	14063.56	13266.47	13044.44	13458.16	3.98	ppb
Strontium	86-1	122.16	125.24	124.02	123.81	1.25	ppb
Strontium	88-1	127.12	131.30	128.34	128.92	1.67	ppb
Sulfur	34-1	2620.57	2803.25	2769.76	2731.20	3.56	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	119.10	122.55	120.30	120.65	1.45	ppb
Thallium	205-1	126.65	128.41	123.62	126.23	1.92	ppb
Tin	118-1	124.79	128.17	126.75	126.57	1.34	ppb
Titanium	47-1	1250.73	1323.26	1282.22	1285.41	2.83	ppb
Uranium	238-1	121.89	125.72	121.55	123.05	1.88	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	132.85	127.94	123.97	128.25	3.47	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	1375.95	1324.51	1283.28	1327.91	3.50	ppb
Zirconium	90-1	126.02	128.49	127.11	127.21	0.97	ppb
Zirconium	91-1	120.47	123.44	122.91	122.27	1.30	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5024.02	5062.85	5060.17	5049.01	0.43	ppb
Antimony	121-1	261.92	263.17	260.37	261.82	0.54	ppb
Arsenic	75-2	262.03	262.78	265.61	263.48	0.72	ppb
Barium	135-1	1307.98	1276.86	1277.66	1287.50	1.38	ppb
Barium	137-1	1300.60	1279.32	1271.94	1283.95	1.16	ppb
Beryllium	9-1	261.60	266.77	266.58	264.98	1.11	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	265.17	260.92	264.83	263.64	0.90	ppb
Cadmium	106-1	259.81	260.11	265.81	261.91	1.29	ppb
Cadmium	111-1	252.17	254.33	254.58	253.69	0.52	ppb
Calcium	43-1	25472.03	25182.09	26702.70	25785.61	3.13	ppb
Calcium	44-1	25460.21	25541.14	26043.04	25681.46	1.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	252.69	247.63	252.36	250.90	1.13	ppb
Cobalt	59-2	256.18	254.83	258.50	256.51	0.72	ppb
Copper	63-2	2747.61	2695.01	2720.47	2721.03	0.97	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				102		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	13757.72	13168.01	13298.57	13408.10	2.31	ppb
Iron	56-2	13366.95	13224.74	13540.41	13377.36	1.18	ppb
Iron	57-2	12846.95	12731.97	12989.84	12856.25	1.00	ppb
Krypton	83-1						cps
Lead	206-1	1265.12	1241.16	1269.96	1258.75	1.23	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1254.69	1238.26	1273.29	1255.41	1.40	ppb
Lead	208-1	1263.52	1247.69	1279.50	1263.57	1.26	ppb
Lithium	6-1				99		%
Magnesium	24-2	26793.70	26730.21	26877.77	26800.56	0.28	ppb
Manganese	55-2	2682.62	2653.96	2679.83	2672.14	0.59	ppb
Molybdenum	94-1	2555.48	2533.81	2574.29	2554.53	0.79	ppb
Molybdenum	95-1	2566.39	2563.22	2576.82	2568.81	0.28	ppb
Molybdenum	96-1	2548.66	2598.13	2574.97	2573.92	0.96	ppb
Molybdenum	97-1	2534.93	2556.44	2555.33	2548.90	0.48	ppb
Molybdenum	98-1	2555.73	2544.91	2556.11	2552.25	0.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	270.18	269.18	273.27	270.87	0.79	ppb
Phosphorus	31-2	5238.80	5326.34	5158.82	5241.32	1.60	ppb
Potassium	39-2	12771.07	12777.97	12740.33	12763.13	0.16	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	261.13	262.41	264.79	262.78	0.71	ppb
Selenium	77-2	269.06	238.49	274.82	260.79	7.49	ppb
Selenium	78-2	237.65	276.19	249.19	254.34	7.78	ppb
Silicon	28-1	254.54	253.15	258.90	255.53	1.17	ppb
Silver	107-1	269.56	267.74	268.66	268.65	0.34	ppb
Silver	109-1	267.83	269.93	268.39	268.72	0.41	ppb
Sodium	23-2	26499.46	26215.36	26361.94	26358.92	0.54	ppb
Strontium	86-1	246.34	247.95	249.48	247.92	0.63	ppb
Strontium	88-1	257.23	257.69	258.89	257.94	0.33	ppb
Sulfur	34-1	5989.62	6074.94	6178.97	6081.18	1.56	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	253.06	251.50	259.46	254.67	1.66	ppb
Thallium	205-1	250.34	249.43	252.40	250.72	0.61	ppb
Tin	118-1	263.22	263.86	265.56	264.22	0.46	ppb
Titanium	47-1	2554.07	2564.16	2614.41	2577.55	1.25	ppb
Uranium	238-1	244.36	245.42	251.64	247.14	1.59	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	250.62	249.14	252.70	250.82	0.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	2572.28	2553.67	2582.71	2569.55	0.57	ppb
Zirconium	90-1	253.92	256.92	254.86	255.23	0.60	ppb
Zirconium	91-1	243.92	242.60	246.88	244.47	0.90	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10077.96	9953.91	9841.26	9957.71	1.19	ppb
Antimony	121-1	505.62	506.19	519.43	510.41	1.53	ppb
Arsenic	75-2	529.64	513.59	501.91	515.05	2.70	ppb
Barium	135-1	2529.23	2502.41	2579.76	2537.13	1.55	ppb
Barium	137-1	2531.50	2507.45	2557.60	2532.18	0.99	ppb
Beryllium	9-1	511.37	511.67	529.90	517.65	2.05	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	512.89	500.20	520.00	511.03	1.96	ppb
Cadmium	106-1	511.97	514.41	516.83	514.40	0.47	ppb
Cadmium	111-1	506.37	486.23	498.87	497.16	2.05	ppb
Calcium	43-1	49694.51	50557.22	52148.26	50800.00	2.45	ppb
Calcium	44-1	50324.67	49967.11	51665.76	50652.52	1.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	538.55	498.80	489.06	508.80	5.15	ppb
Cobalt	59-2	527.37	526.77	520.91	525.02	0.68	ppb
Copper	63-2	5406.28	5348.02	5195.81	5316.70	2.04	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				102		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	27377.01	27273.54	26723.63	27124.73	1.29	ppb
Iron	56-2	26910.02	26586.94	26011.14	26502.70	1.72	ppb
Iron	57-2	25614.99	25429.10	24996.41	25346.83	1.25	ppb
Krypton	83-1						cps
Lead	206-1	2511.09	2496.74	2558.49	2522.11	1.28	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2482.09	2507.94	2574.22	2521.42	1.88	ppb
Lead	208-1	2504.01	2495.72	2571.01	2523.58	1.64	ppb
Lithium	6-1				98		%
Magnesium	24-2	53533.98	53117.11	52103.57	52918.22	1.39	ppb
Manganese	55-2	5307.24	5206.30	5163.00	5225.51	1.42	ppb
Molybdenum	94-1	4969.65	5082.21	5171.08	5074.31	1.99	ppb
Molybdenum	95-1	4985.01	5087.33	5210.63	5094.33	2.22	ppb
Molybdenum	96-1	5030.11	5108.72	5209.60	5116.14	1.76	ppb
Molybdenum	97-1	4988.11	5079.73	5114.84	5060.89	1.29	ppb
Molybdenum	98-1	5013.51	5063.81	5131.42	5069.58	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	535.89	532.37	523.23	530.50	1.23	ppb
Phosphorus	31-2	10539.36	10252.30	10482.17	10424.61	1.46	ppb
Potassium	39-2	25810.20	25374.62	25226.49	25470.43	1.19	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	507.80	519.90	526.71	518.14	1.85	ppb
Selenium	77-2	559.20	498.48	492.50	516.73	7.14	ppb
Selenium	78-2	529.09	512.38	497.33	512.93	3.10	ppb
Silicon	28-1	462.74	454.30	466.98	461.34	1.40	ppb
Silver	107-1	517.75	512.24	521.09	517.03	0.86	ppb
Silver	109-1	512.21	512.85	529.65	518.24	1.91	ppb
Sodium	23-2	52788.32	52241.75	51714.87	52248.31	1.03	ppb
Strontium	86-1	508.87	519.58	514.51	514.32	1.04	ppb
Strontium	88-1	502.23	508.74	514.67	508.55	1.22	ppb
Sulfur	34-1	10154.25	9733.55	10212.94	10033.58	2.61	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	507.40	504.53	513.28	508.40	0.88	ppb
Thallium	205-1	501.38	496.92	506.75	501.68	0.98	ppb
Tin	118-1	508.60	507.82	515.53	510.65	0.83	ppb
Titanium	47-1	5086.58	5031.19	5201.69	5106.48	1.70	ppb
Uranium	238-1	501.03	497.19	513.00	503.74	1.64	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	503.50	502.76	493.57	499.94	1.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	5319.97	5312.86	5264.68	5299.17	0.57	ppb
Zirconium	90-1	494.46	501.25	513.52	503.08	1.92	ppb
Zirconium	91-1	499.80	514.93	525.11	513.28	2.48	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18924.42	18649.46	18995.44	18856.44	0.97	ppb
Antimony	121-1	988.72	993.70	992.25	991.56	0.26	ppb
Arsenic	75-2	1012.80	968.60	983.57	988.32	2.27	ppb
Barium	135-1	4981.12	4966.62	4959.92	4969.22	0.22	ppb
Barium	137-1	4998.73	5006.55	4913.04	4972.77	1.04	ppb
Beryllium	9-1	977.08	987.85	995.85	986.93	0.95	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	984.83	995.72	988.50	989.68	0.56	ppb
Cadmium	106-1	985.28	999.00	981.95	988.74	0.91	ppb
Cadmium	111-1	988.33	1005.67	1005.92	999.98	1.01	ppb
Calcium	43-1	98101.25	97575.25	100298.97	98658.49	1.46	ppb
Calcium	44-1	98077.30	98394.06	98833.61	98434.99	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	998.37	992.10	994.26	994.91	0.32	ppb
Cobalt	59-2	996.30	974.33	984.01	984.88	1.12	ppb
Copper	63-2	9801.77	9663.57	9826.62	9763.99	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	51579.98	50495.12	51219.07	51098.06	1.08	ppb
Iron	56-2	50608.69	49382.40	50225.54	50072.21	1.25	ppb
Iron	57-2	50755.25	49189.95	50960.42	50301.88	1.93	ppb
Krypton	83-1						cps
Lead	206-1	5007.31	4984.36	4967.30	4986.32	0.40	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5055.45	4915.84	4987.34	4986.21	1.40	ppb
Lead	208-1	5034.99	4959.34	4956.15	4983.49	0.90	ppb
Lithium	6-1				96		%
Magnesium	24-2	100071.97	100407.58	101039.06	100506.20	0.49	ppb
Manganese	55-2	9860.09	9715.77	9907.94	9827.94	1.02	ppb
Molybdenum	94-1	9895.62	9954.86	9982.56	9944.35	0.45	ppb
Molybdenum	95-1	9893.78	9932.28	9967.70	9931.25	0.37	ppb
Molybdenum	96-1	9815.46	9936.33	10005.47	9919.09	0.97	ppb
Molybdenum	97-1	9878.72	9959.92	10017.49	9952.04	0.70	ppb
Molybdenum	98-1	9941.57	9965.15	9937.24	9947.98	0.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	976.71	967.71	987.56	977.33	1.02	ppb
Phosphorus	31-2	19422.12	19651.16	20011.25	19694.84	1.51	ppb
Potassium	39-2	47822.30	47980.95	49101.17	48301.47	1.44	ppb
Rhodium	103-1				95		%
Rhodium	103-2				92		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	982.12	983.65	993.54	986.44	0.63	ppb
Selenium	77-2	1059.35	957.69	941.50	986.18	6.48	ppb
Selenium	78-2	986.50	978.63	1005.35	990.16	1.39	ppb
Silicon	28-1	1024.42	1019.07	1010.47	1017.98	0.69	ppb
Silver	107-1	992.00	987.30	976.76	985.35	0.79	ppb
Silver	109-1	975.24	991.14	986.97	984.45	0.84	ppb
Sodium	23-2	99762.42	99237.29	98893.94	99297.88	0.44	ppb
Strontium	86-1	989.82	999.91	990.70	993.48	0.56	ppb
Strontium	88-1	993.01	988.72	997.56	993.10	0.45	ppb
Sulfur	34-1	20015.53	19452.89	19565.64	19678.02	1.51	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	1001.02	995.88	988.69	995.20	0.62	ppb
Thallium	205-1	1000.44	1001.62	994.52	998.86	0.38	ppb
Tin	118-1	990.46	994.67	987.34	990.82	0.37	ppb
Titanium	47-1	9861.87	9892.82	10011.93	9922.21	0.80	ppb
Uranium	238-1	1007.28	1002.57	987.35	999.06	1.04	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	994.83	990.96	1012.37	999.39	1.14	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	9833.72	9695.31	9936.71	9821.91	1.23	ppb
Zirconium	90-1	995.99	1002.34	992.32	996.88	0.51	ppb
Zirconium	91-1	1001.19	996.65	987.44	995.09	0.70	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	98890.75	101178.00	100612.73	100227.16	1.19	ppb
Antimony	121-1	0.36	0.32	0.32	0.33	7.21	ppb
Arsenic	75-2	0.62	0.46	0.45	0.51	18.23	ppb
Barium	135-1	2.52	2.30	2.29	2.37	5.48	ppb
Barium	137-1	2.49	2.43	2.18	2.37	6.99	ppb
Beryllium	9-1	0.30	0.26	0.25	0.27	8.99	ppb
Bismuth	209-1				77		%
Bismuth	209-2				74		%
Bromine	81-1						cps
Cadmium	108-1	0.72	0.66	0.57	0.65	11.18	ppb
Cadmium	106-1	-1.82	-1.27	-0.48	-1.19		ppb
Cadmium	111-1	0.26	0.24	0.25	0.25	3.87	ppb
Calcium	43-1	503805.42	501655.67	494986.10	500149.06	0.92	ppb
Calcium	44-1	503114.37	499429.27	498080.47	500208.04	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.68	1.38	2.36	1.81	28.01	ppb
Cobalt	59-2	2.02	2.09	1.94	2.02	3.73	ppb
Copper	63-2	1.65	1.81	1.79	1.75	4.96	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				88		%
Holmium	165-2				85		%
Indium	115-1				81		%
Indium	115-2				79		%
Iron	54-2	245749.93	254362.71	248407.34	249506.66	1.77	ppb
Iron	56-2	246788.99	253579.86	248948.88	249772.58	1.39	ppb
Iron	57-2	244145.20	256611.70	248870.78	249875.89	2.52	ppb
Krypton	83-1						cps
Lead	206-1	1.05	1.00	0.94	1.00	5.09	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.03	1.04	0.90	0.99	7.93	ppb
Lead	208-1	1.03	1.01	0.94	1.00	4.53	ppb
Lithium	6-1				79		%
Magnesium	24-2	489635.22	506472.10	502321.73	499476.35	1.76	ppb
Manganese	55-2	4.44	4.37	3.97	4.26	5.98	ppb
Molybdenum	94-1	2.87	2.79	2.62	2.76	4.71	ppb
Molybdenum	95-1	2.01	1.84	1.81	1.89	5.70	ppb
Molybdenum	96-1	2.52	2.45	2.35	2.44	3.47	ppb
Molybdenum	97-1	1.77	1.63	1.60	1.66	5.47	ppb
Molybdenum	98-1	1.60	1.59	1.48	1.56	4.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.19	2.21	2.19	2.20	0.34	ppb
Phosphorus	31-2	-3.20	-8.84	-17.71	-9.92		ppb
Potassium	39-2	246306.59	252151.47	252376.97	250278.35	1.38	ppb
Rhodium	103-1				75		%
Rhodium	103-2				73		%
Scandium	45-1				85		%
Scandium	45-2				81		%
Selenium	82-1	0.39	0.00	0.55	0.31	90.08	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.15	-0.53	0.24	-0.15		ppb
Silicon	28-1	4.12	3.58	3.39	3.69	10.27	ppb
Silver	107-1	0.14	0.14	0.13	0.13	4.75	ppb
Silver	109-1	0.15	0.14	0.12	0.14	9.13	ppb
Sodium	23-2	489789.88	509829.37	499839.31	499819.52	2.00	ppb
Strontium	86-1	2.99	3.08	3.06	3.05	1.50	ppb
Strontium	88-1	3.07	3.12	3.11	3.10	0.86	ppb
Sulfur	34-1	-379.46	-397.02	-287.72	-354.74		ppb
Terbium	159-1				88		%
Terbium	159-2				85		%
Thallium	203-1	0.11	0.10	0.09	0.10	8.56	ppb
Thallium	205-1	0.10	0.09	0.08	0.09	13.38	ppb
Tin	118-1	0.21	0.21	0.18	0.20	8.42	ppb
Titanium	47-1	3.84	3.93	3.74	3.84	2.43	ppb
Uranium	238-1	0.10	0.08	0.08	0.09	10.97	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.33	0.29	0.30	9.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				86		%
Yttrium	89-2				83		%
Zinc	66-2	3.11	3.71	3.72	3.51	9.99	ppb
Zirconium	90-1	0.57	0.58	0.56	0.57	1.76	ppb
Zirconium	91-1	0.60	0.60	0.58	0.59	1.62	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	474.10	471.20	479.16	474.82	0.85	ppb
Antimony	121-1	197.67	198.74	204.52	200.31	1.84	ppb
Arsenic	75-2	202.26	202.84	201.62	202.24	0.30	ppb
Barium	135-1	95.98	95.79	99.58	97.11	2.20	ppb
Barium	137-1	97.15	97.07	100.34	98.19	1.90	ppb
Beryllium	9-1	91.65	95.50	94.48	93.88	2.13	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	177.44	177.82	184.01	179.76	2.05	ppb
Cadmium	106-1	187.63	190.44	195.64	191.24	2.13	ppb
Cadmium	111-1	98.10	97.89	102.23	99.41	2.46	ppb
Calcium	43-1	2048.53	2079.18	2133.88	2087.20	2.07	ppb
Calcium	44-1	2071.20	2131.19	2172.28	2124.89	2.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.18	95.61	95.20	95.66	0.51	ppb
Cobalt	59-2	99.83	98.18	98.64	98.89	0.86	ppb
Copper	63-2	106.01	104.68	104.94	105.21	0.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				97		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	2130.35	2121.11	2105.87	2119.11	0.58	ppb
Iron	56-2	2118.20	2081.64	2101.11	2100.32	0.87	ppb
Iron	57-2	2039.54	2002.98	2014.92	2019.15	0.92	ppb
Krypton	83-1						cps
Lead	206-1	200.94	203.78	201.27	201.99	0.77	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	180.48	182.27	184.77	182.51	1.18	ppb
Lead	208-1	192.98	196.10	197.08	195.39	1.10	ppb
Lithium	6-1				99		%
Magnesium	24-2	1172.37	1149.54	1159.48	1160.46	0.99	ppb
Manganese	55-2	99.56	98.04	97.95	98.52	0.92	ppb
Molybdenum	94-1	4851.74	4820.96	4868.49	4847.06	0.50	ppb
Molybdenum	95-1	4751.97	4785.26	4762.51	4766.58	0.36	ppb
Molybdenum	96-1	4754.97	4793.32	4836.66	4794.98	0.85	ppb
Molybdenum	97-1	4740.49	4799.35	4821.41	4787.08	0.87	ppb
Molybdenum	98-1	4779.45	4758.08	4796.62	4778.05	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	106.79	104.98	105.11	105.63	0.95	ppb
Phosphorus	31-2	-23.44	-14.89	-25.09	-21.14		ppb
Potassium	39-2	1875.98	1850.34	1827.56	1851.29	1.31	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	204.36	203.35	204.64	204.12	0.33	ppb
Selenium	77-2	206.10	177.42	206.51	196.68	8.48	ppb
Selenium	78-2	199.44	181.09	212.05	197.53	7.88	ppb
Silicon	28-1	95.15	96.12	97.29	96.19	1.11	ppb
Silver	107-1	46.75	47.13	48.52	47.47	1.97	ppb
Silver	109-1	46.38	46.39	48.49	47.09	2.57	ppb
Sodium	23-2	1946.10	1928.16	1920.54	1931.60	0.68	ppb
Strontium	86-1	477.60	482.96	492.25	484.27	1.53	ppb
Strontium	88-1	479.21	478.68	483.87	480.59	0.59	ppb
Sulfur	34-1	-536.46	-549.40	-390.14	-492.00		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	193.71	192.41	193.17	193.09	0.34	ppb
Thallium	205-1	192.96	188.13	193.07	191.38	1.47	ppb
Tin	118-1	516.34	514.56	531.11	520.67	1.75	ppb
Titanium	47-1	4710.11	4786.38	4873.28	4789.92	1.70	ppb
Uranium	238-1	464.40	472.38	475.02	470.60	1.18	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	93.28	91.43	92.18	92.29	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				95		%
Zinc	66-2	202.44	197.46	199.63	199.84	1.25	ppb
Zirconium	90-1	501.79	496.60	506.67	501.69	1.00	ppb
Zirconium	91-1	504.66	511.31	515.01	510.33	1.03	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.48	-0.01	-0.11	0.12	266.65	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	1.72	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.08	0.03	0.04	0.05	53.77	ppb
Barium	137-1	0.07	0.07	0.07	0.07	3.34	ppb
Beryllium	9-1	0.05	0.04	0.05	0.05	17.31	ppb
Bismuth	209-1				96		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.07	0.04	0.00		ppb
Cadmium	106-1	0.01	-1.24	-1.00	-0.75		ppb
Cadmium	111-1	0.00	-0.02	-0.02	-0.01		ppb
Calcium	43-1	0.31	1.03	1.36	0.90	60.09	ppb
Calcium	44-1	-0.70	-0.67	-0.38	-0.58		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.02	0.01	0.00		ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	35.88	ppb
Copper	63-2	0.09	0.09	0.07	0.08	12.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	54-2	1.96	1.20	1.37	1.51	26.42	ppb
Iron	56-2	0.41	0.65	0.56	0.54	23.17	ppb
Iron	57-2	0.09	0.11	0.17	0.12	31.81	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.07	0.07	4.78	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.06	0.05	0.06	10.61	ppb
Lead	208-1	0.07	0.07	0.06	0.07	6.77	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.28	0.03	0.33	0.03	1150.64	ppb
Manganese	55-2	0.14	0.09	0.09	0.11	23.67	ppb
Molybdenum	94-1	0.04	0.04	0.02	0.03	38.00	ppb
Molybdenum	95-1	0.03	0.02	0.04	0.03	32.69	ppb
Molybdenum	96-1	0.04	0.03	0.04	0.03	12.78	ppb
Molybdenum	97-1	0.03	0.04	0.03	0.03	10.75	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	6.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.04	-0.10	-0.05		ppb
Phosphorus	31-2	-13.42	-4.45	-12.57	-10.14		ppb
Potassium	39-2	5.97	3.61	1.12	3.57	67.92	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	0.28	0.05	0.35	0.23	68.15	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.47	-0.53	0.45	0.13	439.56	ppb
Silicon	28-1	0.06	-0.06	0.02	0.01	1048.05	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.14	ppb
Silver	109-1	0.01	0.01	0.01	0.01	30.37	ppb
Sodium	23-2	9.19	8.69	7.78	8.55	8.34	ppb
Strontium	86-1	0.00	0.01	0.00	0.00	186.61	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	60.96	ppb
Sulfur	34-1	-238.99	-326.68	-204.71	-256.79		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.00	0.01	0.01	31.72	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.71	ppb
Tin	118-1	0.02	0.03	0.02	0.02	13.00	ppb
Titanium	47-1	0.06	0.06	0.05	0.06	11.14	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	14.43	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	0.27	0.13	0.13	0.18	45.87	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	448.14	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	48.19	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87110.80	100075.92	111924.23	99703.65	12.45	ppb
Antimony	121-1	0.98	1.00	1.03	1.00	2.69	ppb
Arsenic	75-2	0.25	0.22	0.32	0.26	18.51	ppb
Barium	135-1	1.39	1.36	1.43	1.39	2.43	ppb
Barium	137-1	1.32	1.44	1.39	1.39	4.25	ppb
Beryllium	9-1	0.29	0.29	0.33	0.30	6.28	ppb
Bismuth	209-1				90		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	14.88	14.42	14.11	14.47	2.67	ppb
Cadmium	106-1	-1.73	-1.76	-2.42	-1.97		ppb
Cadmium	111-1	0.51	0.61	0.50	0.54	11.40	ppb
Calcium	43-1	93553.44	96604.08	98713.79	96290.44	2.69	ppb
Calcium	44-1	92508.51	95551.48	97741.29	95267.09	2.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.55	19.88	22.22	19.88	11.76	ppb
Cobalt	59-2	1.01	1.20	1.35	1.19	14.65	ppb
Copper	63-2	7.39	8.85	9.48	8.57	12.48	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				99		%
Holmium	165-2				91		%
Indium	115-1				95		%
Indium	115-2				86		%
Iron	54-2	97368.93	110604.21	122364.90	110112.68	11.36	ppb
Iron	56-2	97203.48	111230.14	123502.29	110645.30	11.89	ppb
Iron	57-2	94991.79	111201.53	122883.11	109692.15	12.77	ppb
Krypton	83-1						cps
Lead	206-1	4.43	4.46	4.58	4.49	1.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.04	4.02	4.24	4.10	3.03	ppb
Lead	208-1	4.12	4.15	4.32	4.20	2.61	ppb
Lithium	6-1				94		%
Magnesium	24-2	90635.41	103944.50	117052.11	103877.34	12.72	ppb
Manganese	55-2	6.78	7.86	8.71	7.78	12.40	ppb
Molybdenum	94-1	1507.84	1517.79	1587.82	1537.82	2.83	ppb
Molybdenum	95-1	1840.78	1891.13	1938.68	1890.20	2.59	ppb
Molybdenum	96-1	1788.27	1852.39	1892.75	1844.47	2.86	ppb
Molybdenum	97-1	1839.91	1882.40	1937.74	1886.68	2.60	ppb
Molybdenum	98-1	1827.01	1879.20	1944.37	1883.53	3.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.88	5.33	6.35	5.52	13.63	ppb
Phosphorus	31-2	97435.96	109997.55	122617.16	110016.89	11.44	ppb
Potassium	39-2	91262.00	105300.33	117001.22	104521.19	12.33	ppb
Rhodium	103-1				91		%
Rhodium	103-2				83		%
Scandium	45-1				99		%
Scandium	45-2				90		%
Selenium	82-1	-0.03	0.27	0.20	0.15	108.16	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.08	-0.18	0.67	0.19	229.86	ppb
Silicon	28-1	4.63	4.84	4.99	4.82	3.78	ppb
Silver	107-1	0.07	0.06	0.05	0.06	15.27	ppb
Silver	109-1	0.08	0.06	0.05	0.06	25.04	ppb
Sodium	23-2	95561.62	108144.58	120543.71	108083.30	11.56	ppb
Strontium	86-1	28.93	30.01	30.89	29.94	3.27	ppb
Strontium	88-1	29.23	29.96	30.96	30.05	2.89	ppb
Sulfur	34-1	96255.12	97252.37	100305.04	97937.51	2.15	ppb
Terbium	159-1				99		%
Terbium	159-2				89		%
Thallium	203-1	0.09	0.10	0.11	0.10	9.14	ppb
Thallium	205-1	0.08	0.10	0.11	0.10	13.14	ppb
Tin	118-1	0.11	0.14	0.17	0.14	19.91	ppb
Titanium	47-1	1973.68	2035.83	2057.19	2022.23	2.15	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	9.80	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.16	0.14	0.14	9.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				92		%
Zinc	66-2	10.39	10.63	13.18	11.40	13.56	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	38.81	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	24.69	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92524.11	91654.00	91055.44	91744.52	0.80	ppb
Antimony	121-1	19.86	20.18	20.34	20.13	1.20	ppb
Arsenic	75-2	21.73	19.77	20.99	20.83	4.76	ppb
Barium	135-1	21.18	20.99	21.18	21.11	0.51	ppb
Barium	137-1	21.18	21.05	21.28	21.17	0.55	ppb
Beryllium	9-1	20.22	20.38	20.37	20.32	0.43	ppb
Bismuth	209-1				91		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	35.72	35.58	35.74	35.68	0.25	ppb
Cadmium	106-1	20.90	23.95	22.86	22.57	6.85	ppb
Cadmium	111-1	19.23	19.54	19.02	19.26	1.35	ppb
Calcium	43-1	98679.16	96390.78	95125.08	96731.67	1.86	ppb
Calcium	44-1	97522.53	96374.60	97323.72	97073.62	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.44	37.27	37.06	37.26	0.50	ppb
Cobalt	59-2	20.40	20.41	20.38	20.40	0.07	ppb
Copper	63-2	27.57	27.68	27.63	27.63	0.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	54-2	102513.73	101265.38	100815.51	101531.54	0.87	ppb
Iron	56-2	103130.17	101479.51	100047.86	101552.51	1.52	ppb
Iron	57-2	101939.59	102743.89	102175.30	102286.26	0.40	ppb
Krypton	83-1						cps
Lead	206-1	24.48	24.38	24.99	24.61	1.33	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.50	23.67	24.04	23.74	1.17	ppb
Lead	208-1	23.68	23.86	24.23	23.92	1.18	ppb
Lithium	6-1				93		%
Magnesium	24-2	95658.89	95324.03	96040.90	95674.61	0.37	ppb
Manganese	55-2	26.96	26.42	26.96	26.78	1.18	ppb
Molybdenum	94-1	1693.74	1720.57	1724.13	1712.81	0.97	ppb
Molybdenum	95-1	1986.98	1986.80	1979.52	1984.43	0.21	ppb
Molybdenum	96-1	1946.44	1970.59	1960.32	1959.12	0.62	ppb
Molybdenum	97-1	1974.21	1981.07	1987.58	1980.96	0.34	ppb
Molybdenum	98-1	1996.69	1993.10	2005.06	1998.28	0.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.68	25.18	24.67	25.18	1.99	ppb
Phosphorus	31-2	102670.83	101891.28	100699.59	101753.90	0.98	ppb
Potassium	39-2	97292.41	96548.75	96050.65	96630.60	0.65	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	21.09	20.50	21.49	21.03	2.36	ppb
Selenium	77-2	24.81	27.98	11.63	21.48	40.38	ppb
Selenium	78-2	19.12	19.86	19.68	19.56	1.99	ppb
Silicon	28-1	13.49	12.81	13.44	13.25	2.85	ppb
Silver	107-1	17.79	18.04	18.03	17.96	0.81	ppb
Silver	109-1	18.07	18.09	18.21	18.12	0.42	ppb
Sodium	23-2	100470.89	101097.57	99120.63	100229.70	1.01	ppb
Strontium	86-1	71.96	72.18	72.09	72.08	0.16	ppb
Strontium	88-1	76.22	75.42	75.16	75.60	0.73	ppb
Sulfur	34-1	99312.79	97454.73	98834.62	98534.05	0.98	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	19.49	19.63	19.95	19.69	1.19	ppb
Thallium	205-1	19.40	19.69	19.98	19.69	1.47	ppb
Tin	118-1	43.37	43.62	43.43	43.48	0.31	ppb
Titanium	47-1	2067.92	2060.35	2061.64	2063.30	0.20	ppb
Uranium	238-1	45.91	46.37	47.63	46.64	1.91	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.56	18.89	18.78	19.08	2.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	30.40	29.77	29.41	29.86	1.68	ppb
Zirconium	90-1	43.29	43.28	43.82	43.46	0.70	ppb
Zirconium	91-1	43.31	43.75	43.41	43.49	0.53	ppb

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52004.10	51510.36	51459.87	51658.11	0.58	ppb
Antimony	121-1	514.07	525.77	517.30	519.05	1.16	ppb
Arsenic	75-2	527.48	515.65	517.99	520.37	1.20	ppb
Barium	135-1	2609.02	2614.25	2638.01	2620.43	0.59	ppb
Barium	137-1	2635.64	2651.17	2633.88	2640.23	0.36	ppb
Beryllium	9-1	553.46	548.39	544.02	548.62	0.86	ppb
Bismuth	209-1				85		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	507.68	511.25	510.81	509.91	0.38	ppb
Cadmium	106-1	510.04	512.26	513.88	512.06	0.38	ppb
Cadmium	111-1	473.50	480.77	481.02	478.43	0.89	ppb
Calcium	43-1	258175.36	253676.79	252669.28	254840.48	1.15	ppb
Calcium	44-1	259763.06	255220.09	256222.20	257068.45	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502.29	491.09	487.70	493.69	1.55	ppb
Cobalt	59-2	515.43	507.65	497.16	506.75	1.81	ppb
Copper	63-2	5011.73	4980.75	4864.95	4952.48	1.56	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				96		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				87		%
Iron	54-2	132114.07	129309.98	127044.29	129489.45	1.96	ppb
Iron	56-2	132054.69	130066.73	127563.77	129895.06	1.73	ppb
Iron	57-2	130170.30	128571.13	127070.63	128604.02	1.21	ppb
Krypton	83-1						cps
Lead	206-1	2659.56	2679.15	2643.24	2660.65	0.68	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2647.12	2670.58	2621.23	2646.31	0.93	ppb
Lead	208-1	2672.04	2673.22	2636.62	2660.63	0.78	ppb
Lithium	6-1				86		%
Magnesium	24-2	258049.27	258507.72	252075.58	256210.86	1.40	ppb
Manganese	55-2	5279.96	5159.67	5108.38	5182.67	1.70	ppb
Molybdenum	94-1	5361.05	5301.79	5279.39	5314.08	0.79	ppb
Molybdenum	95-1	5259.61	5246.56	5259.48	5255.22	0.14	ppb
Molybdenum	96-1	5267.53	5315.98	5347.00	5310.17	0.75	ppb
Molybdenum	97-1	5284.05	5247.33	5299.06	5276.82	0.50	ppb
Molybdenum	98-1	5254.35	5246.46	5254.80	5251.87	0.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.81	502.00	492.87	500.23	1.33	ppb
Phosphorus	31-2	10543.14	10240.11	10026.39	10269.88	2.53	ppb
Potassium	39-2	129057.33	127154.54	125523.36	127245.08	1.39	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	508.77	503.59	508.68	507.01	0.58	ppb
Selenium	77-2	536.98	475.59	511.02	507.86	6.07	ppb
Selenium	78-2	507.66	499.40	500.13	502.40	0.91	ppb
Silicon	28-1	815.24	800.35	796.07	803.89	1.25	ppb
Silver	107-1	497.72	496.98	495.45	496.71	0.23	ppb
Silver	109-1	502.25	504.37	507.65	504.76	0.54	ppb
Sodium	23-2	255773.86	257067.43	252375.39	255072.22	0.95	ppb
Strontium	86-1	533.15	529.41	529.80	530.79	0.39	ppb
Strontium	88-1	526.44	521.90	529.89	526.08	0.76	ppb
Sulfur	34-1	10910.87	10753.53	10708.14	10790.85	0.99	ppb
Terbium	159-1				95		%
Terbium	159-2				93		%
Thallium	203-1	543.38	538.26	532.57	538.07	1.01	ppb
Thallium	205-1	539.45	537.28	525.83	534.19	1.37	ppb
Tin	118-1	515.74	519.01	527.13	520.62	1.13	ppb
Titanium	47-1	5421.75	5333.35	5186.51	5313.87	2.24	ppb
Uranium	238-1	549.15	544.24	540.71	544.70	0.78	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.10	505.56	498.15	504.94	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				93		%
Zinc	66-2	4997.33	5038.21	4891.59	4975.71	1.52	ppb
Zirconium	90-1	531.95	530.74	528.33	530.34	0.35	ppb
Zirconium	91-1	537.78	541.29	533.19	537.42	0.76	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.05	1.18	0.89	1.04	14.02	ppb
Antimony	121-1	0.06	0.05	0.05	0.06	11.91	ppb
Arsenic	75-2	0.02	0.01	0.01	0.02	48.57	ppb
Barium	135-1	0.19	0.20	0.20	0.20	3.25	ppb
Barium	137-1	0.19	0.19	0.16	0.18	9.06	ppb
Beryllium	9-1	0.08	0.10	0.10	0.09	7.93	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.02	0.01	0.00		ppb
Cadmium	106-1	-1.01	-0.02	-0.10	-0.38		ppb
Cadmium	111-1	0.00	0.02	0.02	0.01	92.51	ppb
Calcium	43-1	3.69	5.40	5.06	4.72	19.20	ppb
Calcium	44-1	3.54	2.78	2.68	3.00	15.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.03	0.03	0.02	169.26	ppb
Cobalt	59-2	0.02	0.03	0.02	0.03	12.18	ppb
Copper	63-2	0.12	0.11	0.19	0.14	33.25	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				98		%
Holmium	165-2				97		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	4.44	5.31	4.75	4.83	9.08	ppb
Iron	56-2	3.72	3.66	4.02	3.80	5.04	ppb
Iron	57-2	3.91	3.36	3.83	3.70	8.09	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.18	0.18	0.18	3.26	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.19	0.16	0.18	7.26	ppb
Lead	208-1	0.19	0.18	0.17	0.18	5.98	ppb
Lithium	6-1				101		%
Magnesium	24-2	5.27	5.65	6.18	5.70	8.05	ppb
Manganese	55-2	0.21	0.19	0.20	0.20	6.60	ppb
Molybdenum	94-1	0.19	0.17	0.16	0.17	6.67	ppb
Molybdenum	95-1	0.16	0.13	0.14	0.14	7.75	ppb
Molybdenum	96-1	0.18	0.17	0.14	0.16	10.46	ppb
Molybdenum	97-1	0.19	0.18	0.15	0.17	9.50	ppb
Molybdenum	98-1	0.19	0.15	0.15	0.16	14.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.08	-0.06	-0.05		ppb
Phosphorus	31-2	-16.75	-22.42	-16.56	-18.58		ppb
Potassium	39-2	14.22	11.37	11.02	12.20	14.40	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	-0.11	0.22	0.16	0.09	199.12	ppb
Selenium	77-2	-0.36	-0.36	0.74	0.01	9925.35	ppb
Selenium	78-2	0.39	-0.20	-0.53	-0.11		ppb
Silicon	28-1	-0.46	-0.57	-0.28	-0.44		ppb
Silver	107-1	0.03	0.02	0.03	0.03	13.64	ppb
Silver	109-1	0.02	0.02	0.03	0.02	3.21	ppb
Sodium	23-2	21.80	22.82	22.18	22.27	2.33	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	10.32	ppb
Sulfur	34-1	-483.77	-533.19	-372.91	-463.29		ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.05	0.05	0.05	0.05	7.59	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	9.90	ppb
Tin	118-1	0.02	0.01	0.03	0.02	51.71	ppb
Titanium	47-1	0.15	0.12	0.11	0.13	14.51	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	14.40	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	70.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	0.33	0.31	0.14	0.26	41.06	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	16.44	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	24.65	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.13	8.08	9.08	8.10	12.05	ppb
Antimony	121-1	0.41	0.40	0.41	0.41	2.35	ppb
Arsenic	75-2	0.31	0.44	0.42	0.39	18.56	ppb
Barium	135-1	2.11	1.91	2.07	2.03	5.30	ppb
Barium	137-1	1.98	1.94	2.00	1.97	1.67	ppb
Beryllium	9-1	0.43	0.44	0.43	0.43	1.71	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.38	0.44	0.35	0.39	12.62	ppb
Cadmium	106-1	-0.60	-0.30	-0.40	-0.43		ppb
Cadmium	111-1	0.38	0.44	0.40	0.41	8.10	ppb
Calcium	43-1	197.11	194.09	195.04	195.41	0.79	ppb
Calcium	44-1	192.93	192.80	193.44	193.06	0.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.39	0.39	0.37	8.67	ppb
Cobalt	59-2	0.40	0.39	0.42	0.40	4.11	ppb
Copper	63-2	0.84	0.71	0.74	0.76	8.96	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				98		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	36.85	34.76	32.79	34.80	5.84	ppb
Iron	56-2	34.65	34.29	34.49	34.47	0.53	ppb
Iron	57-2	32.89	32.75	32.29	32.64	0.96	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.42	0.41	0.41	2.78	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.45	0.43	0.42	0.43	2.98	ppb
Lead	208-1	0.42	0.41	0.42	0.42	1.12	ppb
Lithium	6-1				100		%
Magnesium	24-2	208.58	209.73	209.11	209.14	0.28	ppb
Manganese	55-2	0.86	0.89	0.81	0.85	4.66	ppb
Molybdenum	94-1	1.02	1.04	1.02	1.03	1.17	ppb
Molybdenum	95-1	0.39	0.42	0.37	0.39	6.06	ppb
Molybdenum	96-1	0.43	0.45	0.46	0.45	3.00	ppb
Molybdenum	97-1	0.36	0.39	0.39	0.38	5.80	ppb
Molybdenum	98-1	0.39	0.38	0.39	0.39	0.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.33	0.33	0.26	0.31	13.55	ppb
Phosphorus	31-2	-7.73	-3.50	4.03	-2.40		ppb
Potassium	39-2	131.67	126.12	130.34	129.38	2.24	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	4.75	4.57	4.67	4.66	1.94	ppb
Selenium	77-2	5.24	1.89	8.63	5.25	64.09	ppb
Selenium	78-2	5.41	4.44	4.10	4.65	14.59	ppb
Silicon	28-1	-0.40	-0.41	-0.35	-0.38		ppb
Silver	107-1	0.40	0.42	0.41	0.41	2.68	ppb
Silver	109-1	0.39	0.37	0.41	0.39	5.76	ppb
Sodium	23-2	212.92	215.93	214.76	214.54	0.71	ppb
Strontium	86-1	0.38	0.34	0.40	0.37	6.85	ppb
Strontium	88-1	0.35	0.37	0.37	0.36	2.97	ppb
Sulfur	34-1	-254.18	-215.16	-244.57	-237.97		ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.38	0.36	0.39	0.38	4.96	ppb
Thallium	205-1	0.38	0.37	0.37	0.38	1.34	ppb
Tin	118-1	0.38	0.35	0.38	0.37	4.16	ppb
Titanium	47-1	0.48	0.43	0.48	0.46	6.78	ppb
Uranium	238-1	0.37	0.37	0.37	0.37	0.56	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.43	0.41	0.32	0.38	14.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	1.01	1.02	1.24	1.09	11.94	ppb
Zirconium	90-1	0.37	0.38	0.36	0.37	2.00	ppb
Zirconium	91-1	0.41	0.36	0.40	0.39	5.83	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.27	17.26	20.75	19.09	9.16	ppb
Antimony	121-1	1.86	1.87	1.85	1.86	0.66	ppb
Arsenic	75-2	1.24	0.80	1.04	1.03	21.50	ppb
Barium	135-1	9.10	9.24	9.19	9.18	0.82	ppb
Barium	137-1	9.34	9.24	9.09	9.22	1.33	ppb
Beryllium	9-1	0.96	0.95	0.92	0.94	2.05	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.67	0.95	1.12	0.91	24.94	ppb
Cadmium	106-1	-0.79	-0.59	-0.16	-0.51		ppb
Cadmium	111-1	0.97	0.93	0.96	0.95	2.43	ppb
Calcium	43-1	463.22	473.75	478.11	471.69	1.62	ppb
Calcium	44-1	468.88	468.69	474.57	470.71	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.84	1.86	1.79	1.83	1.82	ppb
Cobalt	59-2	1.01	1.02	1.05	1.03	1.90	ppb
Copper	63-2	2.04	1.97	1.96	1.99	2.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	54.62	51.95	53.21	53.26	2.51	ppb
Iron	56-2	51.57	50.86	51.22	51.22	0.69	ppb
Iron	57-2	53.74	49.55	48.10	50.46	5.80	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.89	0.90	0.89	1.02	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.91	0.90	0.94	0.92	2.46	ppb
Lead	208-1	0.89	0.90	0.93	0.91	1.99	ppb
Lithium	6-1				99		%
Magnesium	24-2	496.81	485.84	502.93	495.19	1.75	ppb
Manganese	55-2	1.05	1.06	1.03	1.05	1.28	ppb
Molybdenum	94-1	5.35	5.33	5.32	5.33	0.28	ppb
Molybdenum	95-1	4.53	4.52	4.47	4.51	0.68	ppb
Molybdenum	96-1	4.47	4.60	4.52	4.53	1.47	ppb
Molybdenum	97-1	4.52	4.53	4.63	4.56	1.31	ppb
Molybdenum	98-1	4.49	4.44	4.56	4.50	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.03	0.96	0.97	0.99	3.75	ppb
Phosphorus	31-2	15.24	7.68	42.50	21.81	83.99	ppb
Potassium	39-2	474.33	462.07	466.17	467.53	1.33	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	4.92	4.62	4.15	4.57	8.46	ppb
Selenium	77-2	3.09	3.08	7.56	4.58	56.51	ppb
Selenium	78-2	4.89	5.54	3.80	4.75	18.50	ppb
Silicon	28-1	0.73	0.75	0.85	0.78	8.61	ppb
Silver	107-1	0.92	0.88	0.95	0.91	3.64	ppb
Silver	109-1	0.90	0.93	0.94	0.92	2.11	ppb
Sodium	23-2	489.74	482.89	488.45	487.03	0.75	ppb
Strontium	86-1	0.91	0.85	0.84	0.86	4.39	ppb
Strontium	88-1	0.86	0.89	0.88	0.88	2.13	ppb
Sulfur	34-1	-234.52	-243.46	-160.51	-212.83		ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	0.85	0.88	0.88	0.87	2.05	ppb
Thallium	205-1	0.86	0.85	0.87	0.86	1.20	ppb
Tin	118-1	4.69	4.60	4.69	4.66	1.12	ppb
Titanium	47-1	4.58	4.68	4.78	4.68	2.15	ppb
Uranium	238-1	0.83	0.84	0.86	0.84	1.95	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.57	4.47	4.53	4.52	1.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	5.28	5.53	5.18	5.33	3.42	ppb
Zirconium	90-1	0.92	0.91	0.90	0.91	0.76	ppb
Zirconium	91-1	0.87	0.89	0.91	0.89	2.55	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.63	16.94	17.63	18.07	7.73	ppb
Antimony	121-1	1.84	1.82	1.86	1.84	1.02	ppb
Arsenic	75-2	1.06	1.14	0.86	1.02	14.46	ppb
Barium	135-1	9.25	9.49	9.53	9.43	1.63	ppb
Barium	137-1	9.35	9.15	9.30	9.27	1.11	ppb
Beryllium	9-1	0.94	0.96	0.88	0.93	4.37	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.13	0.96	0.97	1.02	9.56	ppb
Cadmium	106-1	-0.24	-0.62	-0.80	-0.55		ppb
Cadmium	111-1	0.95	0.91	0.98	0.95	3.72	ppb
Calcium	43-1	483.21	485.92	469.95	479.69	1.78	ppb
Calcium	44-1	477.23	469.18	475.03	473.81	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.73	1.84	1.83	1.80	3.37	ppb
Cobalt	59-2	0.99	0.98	0.97	0.98	0.83	ppb
Copper	63-2	2.05	2.09	2.03	2.06	1.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				96		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	52.35	53.21	50.58	52.05	2.58	ppb
Iron	56-2	50.28	50.58	50.37	50.41	0.31	ppb
Iron	57-2	46.81	51.61	48.82	49.08	4.91	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.91	0.89	0.91	1.96	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.94	0.91	0.91	0.92	1.94	ppb
Lead	208-1	0.94	0.91	0.90	0.92	2.48	ppb
Lithium	6-1				99		%
Magnesium	24-2	504.95	496.07	497.54	499.52	0.95	ppb
Manganese	55-2	0.95	1.00	0.96	0.97	2.64	ppb
Molybdenum	94-1	5.46	5.35	5.27	5.36	1.79	ppb
Molybdenum	95-1	4.52	4.51	4.38	4.47	1.81	ppb
Molybdenum	96-1	4.64	4.50	4.48	4.54	1.86	ppb
Molybdenum	97-1	4.50	4.63	4.44	4.52	2.18	ppb
Molybdenum	98-1	4.50	4.42	4.51	4.48	1.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.05	1.18	0.97	1.07	10.14	ppb
Phosphorus	31-2	13.85	4.99	16.73	11.85	51.63	ppb
Potassium	39-2	463.58	467.73	465.60	465.64	0.45	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	4.98	4.30	4.83	4.70	7.53	ppb
Selenium	77-2	10.02	7.69	5.40	7.70	29.99	ppb
Selenium	78-2	6.94	2.86	4.22	4.67	44.44	ppb
Silicon	28-1	0.81	0.68	0.76	0.75	9.14	ppb
Silver	107-1	0.92	0.91	0.92	0.92	0.41	ppb
Silver	109-1	0.93	0.91	0.91	0.92	1.31	ppb
Sodium	23-2	485.43	481.16	478.33	481.64	0.74	ppb
Strontium	86-1	0.87	0.85	0.87	0.86	1.35	ppb
Strontium	88-1	0.88	0.88	0.88	0.88	0.44	ppb
Sulfur	34-1	-268.20	-423.11	-415.22	-368.84		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.89	0.89	0.88	0.88	0.52	ppb
Thallium	205-1	0.89	0.85	0.87	0.87	2.09	ppb
Tin	118-1	4.67	4.72	4.66	4.68	0.77	ppb
Titanium	47-1	4.77	4.49	4.59	4.62	3.13	ppb
Uranium	238-1	0.87	0.82	0.84	0.85	3.02	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.60	4.49	4.54	4.54	1.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	6.00	5.92	5.41	5.77	5.52	ppb
Zirconium	90-1	0.90	0.87	0.90	0.89	2.15	ppb
Zirconium	91-1	0.91	0.87	0.91	0.90	2.59	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.99	9.26	8.18	8.81	6.40	ppb
Antimony	121-1	0.40	0.39	0.41	0.40	2.11	ppb
Arsenic	75-2	0.43	0.33	0.30	0.35	18.96	ppb
Barium	135-1	1.97	2.02	1.90	1.96	3.05	ppb
Barium	137-1	1.92	2.03	2.02	1.99	3.20	ppb
Beryllium	9-1	0.41	0.41	0.41	0.41	0.60	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.46	0.37	0.47	22.10	ppb
Cadmium	106-1	-1.52	-0.41	-1.49	-1.14		ppb
Cadmium	111-1	0.36	0.40	0.34	0.37	8.57	ppb
Calcium	43-1	201.06	204.05	194.36	199.82	2.48	ppb
Calcium	44-1	197.08	199.39	199.31	198.59	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.33	0.37	0.34	7.07	ppb
Cobalt	59-2	0.37	0.43	0.41	0.40	7.63	ppb
Copper	63-2	0.63	0.70	0.81	0.71	12.65	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				95		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	54-2	34.17	34.84	36.87	35.29	3.98	ppb
Iron	56-2	33.23	34.59	35.05	34.29	2.76	ppb
Iron	57-2	32.29	36.52	37.03	35.28	7.38	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.44	0.42	0.43	1.71	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.39	0.40	0.40	2.68	ppb
Lead	208-1	0.42	0.42	0.41	0.42	1.68	ppb
Lithium	6-1				99		%
Magnesium	24-2	200.95	211.14	213.69	208.59	3.23	ppb
Manganese	55-2	0.78	0.90	0.89	0.86	7.50	ppb
Molybdenum	94-1	0.98	1.06	1.13	1.06	7.07	ppb
Molybdenum	95-1	0.40	0.39	0.42	0.40	3.65	ppb
Molybdenum	96-1	0.47	0.45	0.48	0.47	3.56	ppb
Molybdenum	97-1	0.39	0.40	0.39	0.39	1.23	ppb
Molybdenum	98-1	0.38	0.40	0.40	0.39	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.40	0.35	0.40	0.39	7.49	ppb
Phosphorus	31-2	0.34	-2.89	-4.00	-2.18		ppb
Potassium	39-2	121.68	121.12	124.39	122.40	1.43	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	4.92	4.74	4.81	4.82	1.94	ppb
Selenium	77-2	1.75	6.51	6.51	4.92	55.89	ppb
Selenium	78-2	4.74	4.20	5.20	4.71	10.68	ppb
Silicon	28-1	-0.40	-0.37	-0.28	-0.35		ppb
Silver	107-1	0.42	0.43	0.40	0.41	3.77	ppb
Silver	109-1	0.42	0.41	0.42	0.42	1.04	ppb
Sodium	23-2	199.92	211.98	211.29	207.73	3.26	ppb
Strontium	86-1	0.40	0.38	0.41	0.40	3.36	ppb
Strontium	88-1	0.38	0.37	0.40	0.39	4.56	ppb
Sulfur	34-1	-455.24	-311.93	-237.72	-334.96		ppb
Terbium	159-1				96		%
Terbium	159-2				96		%
Thallium	203-1	0.36	0.38	0.40	0.38	5.22	ppb
Thallium	205-1	0.38	0.39	0.37	0.38	2.99	ppb
Tin	118-1	0.41	0.40	0.39	0.40	2.12	ppb
Titanium	47-1	0.45	0.41	0.42	0.42	5.02	ppb
Uranium	238-1	0.37	0.38	0.38	0.38	2.08	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.41	0.34	0.39	0.38	9.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	1.09	1.17	0.90	1.05	13.04	ppb
Zirconium	90-1	0.38	0.39	0.39	0.39	1.84	ppb
Zirconium	91-1	0.40	0.38	0.40	0.39	3.42	ppb

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.00	19.29	17.76	18.68	4.37	ppb
Antimony	121-1	1.74	1.81	1.80	1.78	2.13	ppb
Arsenic	75-2	1.14	1.06	0.98	1.06	7.75	ppb
Barium	135-1	8.99	8.94	8.85	8.93	0.79	ppb
Barium	137-1	8.85	9.13	9.20	9.06	2.06	ppb
Beryllium	9-1	0.90	0.90	0.93	0.91	2.14	ppb
Bismuth	209-1				97		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.08	0.94	0.85	0.96	12.18	ppb
Cadmium	106-1	-0.83	-0.07	-0.28	-0.39		ppb
Cadmium	111-1	0.87	0.95	1.02	0.95	7.93	ppb
Calcium	43-1	465.05	483.57	467.55	472.06	2.13	ppb
Calcium	44-1	465.85	466.86	465.65	466.12	0.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.87	1.84	1.75	1.82	3.55	ppb
Cobalt	59-2	1.01	0.95	1.03	1.00	3.86	ppb
Copper	63-2	2.23	2.15	2.14	2.17	2.35	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				97		%
Holmium	165-2				95		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	54-2	51.44	51.38	49.58	50.80	2.07	ppb
Iron	56-2	50.30	49.37	50.71	50.13	1.36	ppb
Iron	57-2	49.82	51.52	51.89	51.08	2.17	ppb
Krypton	83-1						cps
Lead	206-1	0.86	0.90	0.87	0.88	2.00	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.91	0.90	0.96	0.92	3.55	ppb
Lead	208-1	0.88	0.87	0.90	0.88	1.77	ppb
Lithium	6-1				100		%
Magnesium	24-2	501.94	494.51	495.91	497.46	0.79	ppb
Manganese	55-2	1.02	1.03	0.99	1.01	2.25	ppb
Molybdenum	94-1	5.29	5.30	5.52	5.37	2.35	ppb
Molybdenum	95-1	4.42	4.43	4.56	4.47	1.78	ppb
Molybdenum	96-1	4.53	4.52	4.60	4.55	1.01	ppb
Molybdenum	97-1	4.50	4.64	4.37	4.50	2.94	ppb
Molybdenum	98-1	4.44	4.39	4.63	4.49	2.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.92	1.04	1.04	1.00	6.65	ppb
Phosphorus	31-2	8.03	14.98	3.48	8.83	65.55	ppb
Potassium	39-2	465.36	452.75	460.46	459.53	1.38	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	4.40	5.75	4.54	4.90	15.12	ppb
Selenium	77-2	6.53	6.53	5.41	6.16	10.54	ppb
Selenium	78-2	3.53	8.94	2.87	5.11	65.15	ppb
Silicon	28-1	0.57	0.63	0.57	0.59	6.29	ppb
Silver	107-1	0.86	0.89	0.87	0.88	2.12	ppb
Silver	109-1	0.88	0.89	0.89	0.89	0.62	ppb
Sodium	23-2	488.82	481.35	482.00	484.05	0.85	ppb
Strontium	86-1	0.84	0.89	0.89	0.87	3.42	ppb
Strontium	88-1	0.88	0.88	0.90	0.89	1.59	ppb
Sulfur	34-1	-342.52	-247.51	-314.62	-301.55		ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	0.84	0.84	0.88	0.86	2.49	ppb
Thallium	205-1	0.86	0.86	0.86	0.86	0.20	ppb
Tin	118-1	4.49	4.61	4.71	4.60	2.36	ppb
Titanium	47-1	4.60	4.61	4.59	4.60	0.24	ppb
Uranium	238-1	0.83	0.83	0.82	0.82	0.12	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.70	4.33	4.58	4.54	4.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	5.87	5.60	5.53	5.67	3.18	ppb
Zirconium	90-1	0.92	0.88	0.91	0.90	2.40	ppb
Zirconium	91-1	0.81	0.84	0.92	0.86	6.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.76	17.28	17.47	17.84	4.53	ppb
Antimony	121-1	1.80	1.83	1.88	1.84	2.03	ppb
Arsenic	75-2	0.97	0.83	0.87	0.89	8.05	ppb
Barium	135-1	9.04	9.21	9.25	9.17	1.21	ppb
Barium	137-1	9.17	9.29	9.17	9.21	0.75	ppb
Beryllium	9-1	0.94	0.94	0.94	0.94	0.24	ppb
Bismuth	209-1				97		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.87	0.86	1.04	0.92	10.86	ppb
Cadmium	106-1	-0.35	-0.09	-0.46	-0.30		ppb
Cadmium	111-1	0.90	0.92	0.90	0.91	1.29	ppb
Calcium	43-1	466.97	467.27	467.84	467.36	0.09	ppb
Calcium	44-1	458.01	470.23	468.95	465.73	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.85	1.96	1.75	1.85	5.49	ppb
Cobalt	59-2	1.00	0.99	0.97	0.99	1.36	ppb
Copper	63-2	2.06	2.21	2.06	2.11	4.02	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	54.09	53.15	52.37	53.20	1.62	ppb
Iron	56-2	51.50	50.69	51.34	51.18	0.84	ppb
Iron	57-2	48.44	45.92	50.91	48.42	5.16	ppb
Krypton	83-1						cps
Lead	206-1	0.87	0.89	0.90	0.88	1.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.92	0.87	0.90	0.90	2.68	ppb
Lead	208-1	0.89	0.88	0.89	0.89	0.54	ppb
Lithium	6-1				99		%
Magnesium	24-2	513.91	506.59	503.93	508.14	1.02	ppb
Manganese	55-2	1.05	1.04	1.02	1.04	1.51	ppb
Molybdenum	94-1	5.34	5.54	5.53	5.47	2.04	ppb
Molybdenum	95-1	4.45	4.64	4.59	4.56	2.17	ppb
Molybdenum	96-1	4.55	4.63	4.64	4.61	1.10	ppb
Molybdenum	97-1	4.52	4.72	4.65	4.63	2.16	ppb
Molybdenum	98-1	4.50	4.60	4.53	4.54	1.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.13	1.09	1.07	1.10	2.97	ppb
Phosphorus	31-2	8.08	29.14	1.93	13.05	109.34	ppb
Potassium	39-2	464.75	462.32	456.64	461.24	0.90	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	5.10	5.32	5.12	5.18	2.34	ppb
Selenium	77-2	5.38	3.13	9.99	6.16	56.71	ppb
Selenium	78-2	4.88	4.61	4.89	4.79	3.27	ppb
Silicon	28-1	0.42	0.65	0.56	0.54	21.53	ppb
Silver	107-1	0.89	0.93	0.94	0.92	2.79	ppb
Silver	109-1	0.90	0.91	0.95	0.92	3.14	ppb
Sodium	23-2	486.73	489.64	483.79	486.72	0.60	ppb
Strontium	86-1	0.85	0.87	0.88	0.87	1.71	ppb
Strontium	88-1	0.91	0.89	0.88	0.90	1.29	ppb
Sulfur	34-1	-414.54	-277.18	-286.15	-325.96		ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	0.83	0.86	0.87	0.85	2.12	ppb
Thallium	205-1	0.85	0.88	0.88	0.87	1.61	ppb
Tin	118-1	4.53	4.63	4.64	4.60	1.22	ppb
Titanium	47-1	4.70	4.50	4.70	4.63	2.45	ppb
Uranium	238-1	0.84	0.84	0.84	0.84	0.48	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.76	4.67	4.58	4.67	1.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	5.64	5.29	5.78	5.57	4.50	ppb
Zirconium	90-1	0.90	0.94	0.94	0.93	2.22	ppb
Zirconium	91-1	0.90	0.93	0.94	0.92	2.37	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.16	7.73	8.27	8.05	3.51	ppb
Antimony	121-1	0.40	0.42	0.46	0.43	7.08	ppb
Arsenic	75-2	0.54	0.47	0.59	0.53	10.96	ppb
Barium	135-1	1.91	2.01	2.15	2.02	5.97	ppb
Barium	137-1	1.95	1.97	2.39	2.10	11.94	ppb
Beryllium	9-1	0.40	0.42	0.45	0.43	6.62	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.41	0.37	0.63	0.47	29.29	ppb
Cadmium	106-1	-1.43	-0.08	-0.58	-0.70		ppb
Cadmium	111-1	0.36	0.42	0.41	0.39	8.05	ppb
Calcium	43-1	183.72	193.30	222.63	199.88	10.14	ppb
Calcium	44-1	190.51	194.86	226.48	203.95	9.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.39	0.34	0.37	6.69	ppb
Cobalt	59-2	0.43	0.42	0.42	0.42	1.13	ppb
Copper	63-2	0.69	0.72	0.78	0.73	6.86	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				93		%
Holmium	165-2				96		%
Indium	115-1				92		%
Indium	115-2				94		%
Iron	54-2	35.84	37.66	35.78	36.43	2.93	ppb
Iron	56-2	32.93	34.38	34.79	34.03	2.88	ppb
Iron	57-2	33.91	33.62	36.68	34.74	4.86	ppb
Krypton	83-1						cps
Lead	206-1	0.37	0.40	0.44	0.40	8.95	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.38	0.41	0.45	0.41	8.65	ppb
Lead	208-1	0.38	0.40	0.45	0.41	8.85	ppb
Lithium	6-1				97		%
Magnesium	24-2	210.34	213.49	211.05	211.63	0.78	ppb
Manganese	55-2	0.76	0.80	0.70	0.75	6.73	ppb
Molybdenum	94-1	0.98	1.02	1.15	1.05	8.42	ppb
Molybdenum	95-1	0.38	0.38	0.43	0.40	8.23	ppb
Molybdenum	96-1	0.47	0.46	0.51	0.48	5.23	ppb
Molybdenum	97-1	0.35	0.36	0.45	0.39	14.93	ppb
Molybdenum	98-1	0.38	0.39	0.46	0.41	10.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.37	0.35	0.33	17.34	ppb
Phosphorus	31-2	-4.71	-20.50	0.56	-8.21		ppb
Potassium	39-2	118.24	122.58	126.34	122.39	3.31	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	4.54	5.33	5.43	5.10	9.57	ppb
Selenium	77-2	3.04	3.11	5.40	3.85	34.87	ppb
Selenium	78-2	6.48	5.94	3.54	5.32	29.39	ppb
Silicon	28-1	-0.59	-0.43	0.76	-0.08		ppb
Silver	107-1	0.38	0.41	0.45	0.41	9.23	ppb
Silver	109-1	0.41	0.42	0.47	0.43	7.13	ppb
Sodium	23-2	204.04	207.37	206.89	206.10	0.87	ppb
Strontium	86-1	0.38	0.35	0.42	0.38	9.11	ppb
Strontium	88-1	0.37	0.38	0.44	0.40	9.44	ppb
Sulfur	34-1	-250.12	-170.46	756.57	112.00	499.69	ppb
Terbium	159-1				92		%
Terbium	159-2				96		%
Thallium	203-1	0.36	0.37	0.43	0.39	9.84	ppb
Thallium	205-1	0.36	0.38	0.44	0.39	10.47	ppb
Tin	118-1	0.36	0.37	0.45	0.39	12.29	ppb
Titanium	47-1	0.42	0.43	0.56	0.47	16.35	ppb
Uranium	238-1	0.36	0.37	0.41	0.38	7.18	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.36	0.41	0.41	0.39	6.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				94		%
Zinc	66-2	0.86	0.89	0.96	0.90	5.98	ppb
Zirconium	90-1	0.37	0.39	0.42	0.39	7.16	ppb
Zirconium	91-1	0.36	0.38	0.43	0.39	8.71	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.33	18.72	17.12	18.39	6.23	ppb
Antimony	121-1	1.78	1.79	1.89	1.82	3.41	ppb
Arsenic	75-2	0.81	1.21	1.00	1.01	20.28	ppb
Barium	135-1	9.11	8.93	9.29	9.11	1.94	ppb
Barium	137-1	9.23	9.05	9.56	9.28	2.81	ppb
Beryllium	9-1	0.92	0.89	0.95	0.92	3.75	ppb
Bismuth	209-1				95		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.00	0.97	0.81	0.93	10.55	ppb
Cadmium	106-1	-1.07	0.13	-0.88	-0.61		ppb
Cadmium	111-1	0.91	0.89	1.11	0.97	12.30	ppb
Calcium	43-1	469.97	484.45	501.25	485.22	3.23	ppb
Calcium	44-1	457.75	456.69	494.41	469.61	4.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.85	1.83	1.82	1.83	0.79	ppb
Cobalt	59-2	0.97	1.00	0.99	0.99	1.36	ppb
Copper	63-2	2.10	2.09	2.18	2.13	2.29	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				94		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	53.12	52.54	52.56	52.74	0.62	ppb
Iron	56-2	50.93	50.08	50.33	50.45	0.87	ppb
Iron	57-2	47.02	46.41	47.59	47.00	1.25	ppb
Krypton	83-1						cps
Lead	206-1	0.85	0.86	0.92	0.88	4.31	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.88	0.87	0.92	0.89	3.08	ppb
Lead	208-1	0.89	0.88	0.93	0.90	3.06	ppb
Lithium	6-1				100		%
Magnesium	24-2	497.21	497.83	491.02	495.35	0.76	ppb
Manganese	55-2	0.95	1.06	0.97	0.99	6.37	ppb
Molybdenum	94-1	5.34	5.30	5.71	5.45	4.11	ppb
Molybdenum	95-1	4.46	4.41	4.69	4.52	3.30	ppb
Molybdenum	96-1	4.57	4.49	4.83	4.63	3.80	ppb
Molybdenum	97-1	4.43	4.52	4.73	4.56	3.32	ppb
Molybdenum	98-1	4.42	4.32	4.78	4.51	5.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.06	1.13	1.01	1.07	5.35	ppb
Phosphorus	31-2	8.63	9.93	4.81	7.79	34.11	ppb
Potassium	39-2	471.47	458.62	464.71	464.94	1.38	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				93		%
Selenium	82-1	4.55	4.56	5.21	4.77	7.93	ppb
Selenium	77-2	3.17	3.15	5.44	3.92	33.61	ppb
Selenium	78-2	2.24	2.92	4.25	3.14	32.61	ppb
Silicon	28-1	0.58	0.61	1.37	0.85	51.79	ppb
Silver	107-1	0.88	0.92	0.93	0.91	2.61	ppb
Silver	109-1	0.92	0.91	0.92	0.92	0.45	ppb
Sodium	23-2	488.93	488.30	471.50	482.91	2.05	ppb
Strontium	86-1	0.91	0.86	0.94	0.90	4.61	ppb
Strontium	88-1	0.88	0.87	0.93	0.89	3.48	ppb
Sulfur	34-1	-221.29	-166.95	300.71	-29.18		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.88	0.80	0.92	0.86	7.03	ppb
Thallium	205-1	0.85	0.83	0.86	0.84	1.71	ppb
Tin	118-1	4.55	4.55	4.73	4.61	2.20	ppb
Titanium	47-1	4.61	4.73	4.94	4.76	3.49	ppb
Uranium	238-1	0.82	0.83	0.86	0.84	2.19	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.65	4.47	4.48	4.53	2.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5.46	5.41	5.58	5.48	1.53	ppb
Zirconium	90-1	0.90	0.88	0.93	0.90	2.59	ppb
Zirconium	91-1	0.89	0.87	0.94	0.90	4.00	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50165.19	51606.77	50851.89	50874.62	1.42	ppb
Antimony	121-1	499.38	499.48	500.06	499.64	0.07	ppb
Arsenic	75-2	505.80	504.98	505.95	505.58	0.10	ppb
Barium	135-1	2523.52	2516.62	2526.05	2522.07	0.19	ppb
Barium	137-1	2497.71	2508.99	2500.55	2502.42	0.23	ppb
Beryllium	9-1	506.05	516.25	513.91	512.07	1.04	ppb
Bismuth	209-1				79		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	481.94	487.68	491.14	486.92	0.95	ppb
Cadmium	106-1	488.63	490.41	491.14	490.06	0.26	ppb
Cadmium	111-1	457.36	460.50	462.17	460.01	0.53	ppb
Calcium	43-1	247610.46	253379.38	250211.08	250400.30	1.15	ppb
Calcium	44-1	247900.13	251820.67	253527.31	251082.70	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	477.82	485.64	483.44	482.30	0.84	ppb
Cobalt	59-2	500.89	505.17	503.18	503.08	0.43	ppb
Copper	63-2	4810.80	4928.11	4895.24	4878.05	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				89		%
Holmium	165-2				89		%
Indium	115-1				83		%
Indium	115-2				82		%
Iron	54-2	126531.13	128022.57	127038.08	127197.26	0.60	ppb
Iron	56-2	127070.38	128332.19	127457.08	127619.88	0.51	ppb
Iron	57-2	125239.49	128557.27	126418.09	126738.28	1.33	ppb
Krypton	83-1						cps
Lead	206-1	2633.06	2549.75	2624.18	2602.33	1.76	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2596.99	2565.90	2577.74	2580.21	0.61	ppb
Lead	208-1	2601.22	2588.92	2585.34	2591.83	0.32	ppb
Lithium	6-1				86		%
Magnesium	24-2	251746.18	259378.79	255647.13	255590.70	1.49	ppb
Manganese	55-2	5137.28	5168.43	5142.87	5149.53	0.32	ppb
Molybdenum	94-1	5103.16	5125.09	5148.85	5125.70	0.45	ppb
Molybdenum	95-1	5076.49	5133.59	5127.61	5112.56	0.61	ppb
Molybdenum	96-1	5131.91	5110.18	5149.77	5130.62	0.39	ppb
Molybdenum	97-1	5131.78	5118.44	5182.08	5144.10	0.65	ppb
Molybdenum	98-1	5098.65	5111.28	5141.21	5117.05	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	481.63	493.50	488.93	488.02	1.23	ppb
Phosphorus	31-2	10078.80	10167.47	10557.22	10267.83	2.48	ppb
Potassium	39-2	124127.98	124845.04	124292.49	124421.84	0.30	ppb
Rhodium	103-1				79		%
Rhodium	103-2				80		%
Scandium	45-1				88		%
Scandium	45-2				88		%
Selenium	82-1	497.48	498.94	492.38	496.27	0.69	ppb
Selenium	77-2	491.49	445.07	495.41	477.32	5.87	ppb
Selenium	78-2	508.81	507.09	496.35	504.08	1.34	ppb
Silicon	28-1	786.00	798.54	788.99	791.18	0.83	ppb
Silver	107-1	473.46	484.80	485.81	481.36	1.43	ppb
Silver	109-1	480.01	480.81	482.76	481.19	0.29	ppb
Sodium	23-2	248880.05	253494.22	251541.53	251305.27	0.92	ppb
Strontium	86-1	517.37	520.27	511.40	516.35	0.88	ppb
Strontium	88-1	511.84	513.85	514.33	513.34	0.26	ppb
Sulfur	34-1	12636.76	12710.01	12827.82	12724.86	0.76	ppb
Terbium	159-1				88		%
Terbium	159-2				89		%
Thallium	203-1	531.10	521.23	530.14	527.49	1.03	ppb
Thallium	205-1	522.65	516.02	524.11	520.92	0.83	ppb
Tin	118-1	503.13	505.49	503.02	503.88	0.28	ppb
Titanium	47-1	5102.24	5117.64	5164.05	5127.98	0.63	ppb
Uranium	238-1	527.62	533.44	529.98	530.34	0.55	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	490.32	499.65	494.78	494.91	0.94	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				87		%
Zinc	66-2	4864.17	5013.42	4897.04	4924.88	1.59	ppb
Zirconium	90-1	510.06	517.53	517.05	514.88	0.81	ppb
Zirconium	91-1	521.30	523.22	526.92	523.82	0.55	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.86	0.87	0.30	1.01	78.18	ppb
Antimony	121-1	0.11	0.09	0.09	0.10	14.32	ppb
Arsenic	75-2	-0.02	0.03	0.00	0.00	1612.95	ppb
Barium	135-1	0.29	0.25	0.19	0.25	20.00	ppb
Barium	137-1	0.28	0.20	0.18	0.22	23.49	ppb
Beryllium	9-1	0.15	0.12	0.12	0.13	11.09	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.00	0.09	0.06	80.77	ppb
Cadmium	106-1	-1.58	-1.33	-1.70	-1.54		ppb
Cadmium	111-1	0.00	-0.03	-0.02	-0.02		ppb
Calcium	43-1	8.02	7.66	6.40	7.36	11.57	ppb
Calcium	44-1	5.85	2.74	2.12	3.57	55.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.02	0.00	0.00	352.67	ppb
Cobalt	59-2	0.02	0.03	0.01	0.02	39.85	ppb
Copper	63-2	-0.01	0.01	-0.04	-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				93		%
Holmium	165-2				96		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	54-2	4.16	3.97	4.53	4.22	6.71	ppb
Iron	56-2	3.60	3.53	3.33	3.49	3.99	ppb
Iron	57-2	3.32	4.51	1.74	3.19	43.56	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.12	0.14	0.15	18.51	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.14	0.10	0.14	30.85	ppb
Lead	208-1	0.18	0.14	0.12	0.15	20.91	ppb
Lithium	6-1				99		%
Magnesium	24-2	4.94	4.82	5.07	4.94	2.54	ppb
Manganese	55-2	0.22	0.30	0.20	0.24	22.65	ppb
Molybdenum	94-1	0.32	0.23	0.21	0.25	21.70	ppb
Molybdenum	95-1	0.30	0.25	0.20	0.25	20.18	ppb
Molybdenum	96-1	0.27	0.18	0.19	0.22	22.47	ppb
Molybdenum	97-1	0.29	0.20	0.20	0.23	23.30	ppb
Molybdenum	98-1	0.29	0.22	0.18	0.23	23.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.04	-0.15	-0.06		ppb
Phosphorus	31-2	-14.31	-15.61	-16.97	-15.63		ppb
Potassium	39-2	12.11	8.64	11.88	10.88	17.84	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				93		%
Selenium	82-1	0.16	0.34	0.31	0.27	34.20	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.49	0.16	-0.18	0.15	217.07	ppb
Silicon	28-1	-0.37	-0.48	-0.58	-0.48		ppb
Silver	107-1	0.04	0.04	0.04	0.04	5.76	ppb
Silver	109-1	0.05	0.04	0.03	0.04	18.73	ppb
Sodium	23-2	23.08	22.86	22.20	22.71	2.01	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	547.40	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	63.03	ppb
Sulfur	34-1	-345.71	-380.31	-468.46	-398.16		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.04	0.03	0.02	0.03	29.82	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	13.26	ppb
Tin	118-1	0.06	0.04	0.02	0.04	40.91	ppb
Titanium	47-1	0.26	0.16	0.14	0.19	34.94	ppb
Uranium	238-1	0.02	0.01	0.01	0.02	41.56	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	34.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				93		%
Zinc	66-2	0.21	0.05	0.33	0.20	72.11	ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	19.20	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	12.20	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.09	0.52	0.83	0.81	35.14	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	3.08	ppb
Arsenic	75-2	-0.02	0.03	0.06	0.02	178.73	ppb
Barium	135-1	0.03	0.02	0.05	0.03	51.42	ppb
Barium	137-1	0.03	0.02	0.02	0.03	23.18	ppb
Beryllium	9-1	0.05	0.04	0.04	0.04	3.89	ppb
Bismuth	209-1				94		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.07	0.00	-0.03		ppb
Cadmium	106-1	-2.37	-1.81	-2.18	-2.12		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	0.01	0.19	2.10	0.77	151.11	ppb
Calcium	44-1	-2.35	-2.81	-2.67	-2.61		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.02	-0.02	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	16.29	ppb
Copper	63-2	-0.01	0.02	0.00	0.00	344.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	54-2	0.66	0.94	1.15	0.92	26.58	ppb
Iron	56-2	0.37	0.52	0.49	0.46	17.51	ppb
Iron	57-2	0.75	0.30	0.07	0.38	91.79	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.04	0.05	15.24	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.03	0.04	0.04	15.89	ppb
Lead	208-1	0.04	0.04	0.04	0.04	12.13	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.10	-0.21	-0.08	-0.13		ppb
Manganese	55-2	0.14	0.15	0.15	0.15	4.84	ppb
Molybdenum	94-1	0.03	0.01	0.03	0.03	36.31	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	14.72	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.02	20.16	ppb
Molybdenum	97-1	0.01	0.00	0.01	0.01	50.28	ppb
Molybdenum	98-1	0.02	0.01	0.01	0.01	12.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	0.03	0.01	0.00		ppb
Phosphorus	31-2	-27.81	-8.45	-17.40	-17.89		ppb
Potassium	39-2	1.99	2.63	0.89	1.84	48.09	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	0.24	0.04	0.51	0.26	90.71	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.19	-0.53	-0.19	-0.30		ppb
Silicon	28-1	-0.45	-0.77	-0.75	-0.66		ppb
Silver	107-1	0.01	0.01	0.01	0.01	25.34	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.47	ppb
Sodium	23-2	4.57	4.56	5.38	4.84	9.66	ppb
Strontium	86-1	0.00	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-384.40	-587.72	-646.27	-539.46		ppb
Terbium	159-1				95		%
Terbium	159-2				96		%
Thallium	203-1	0.00	0.01	0.01	0.01	54.05	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	32.82	ppb
Tin	118-1	0.01	0.10	-0.01	0.03	173.30	ppb
Titanium	47-1	0.02	0.02	0.01	0.02	24.58	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	90.31	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				94		%
Zinc	66-2	0.46	0.70	0.73	0.63	23.29	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	46.28	ppb
Zirconium	91-1	0.00	0.01	0.00	0.01	115.98	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.15	7.43	7.25	7.94	13.21	ppb
Antimony	121-1	0.39	0.38	0.40	0.39	3.11	ppb
Arsenic	75-2	0.44	0.24	0.33	0.34	29.25	ppb
Barium	135-1	1.89	1.91	2.05	1.95	4.52	ppb
Barium	137-1	1.95	1.87	2.06	1.96	4.89	ppb
Beryllium	9-1	0.41	0.40	0.43	0.41	3.36	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.31	0.44	0.37	17.74	ppb
Cadmium	106-1	-0.67	-1.20	-0.70	-0.86		ppb
Cadmium	111-1	0.36	0.34	0.34	0.35	2.71	ppb
Calcium	43-1	188.34	189.64	199.34	192.44	3.12	ppb
Calcium	44-1	192.96	180.45	193.59	189.00	3.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.32	0.31	0.33	8.85	ppb
Cobalt	59-2	0.42	0.41	0.41	0.41	1.87	ppb
Copper	63-2	0.71	0.63	0.76	0.70	9.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	35.93	37.25	35.55	36.24	2.46	ppb
Iron	56-2	34.30	34.34	34.93	34.52	1.02	ppb
Iron	57-2	32.31	33.63	34.36	33.43	3.11	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.36	0.39	0.38	4.88	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.40	0.38	3.78	ppb
Lead	208-1	0.39	0.38	0.40	0.39	2.08	ppb
Lithium	6-1				102		%
Magnesium	24-2	204.52	209.54	210.72	208.26	1.58	ppb
Manganese	55-2	0.80	0.91	0.92	0.88	7.36	ppb
Molybdenum	94-1	1.06	0.98	1.01	1.02	3.95	ppb
Molybdenum	95-1	0.40	0.38	0.39	0.39	1.91	ppb
Molybdenum	96-1	0.45	0.42	0.48	0.45	5.99	ppb
Molybdenum	97-1	0.38	0.36	0.39	0.38	5.12	ppb
Molybdenum	98-1	0.40	0.35	0.38	0.38	6.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.37	0.31	0.38	0.35	10.99	ppb
Phosphorus	31-2	-10.52	-7.37	-19.09	-12.33		ppb
Potassium	39-2	123.70	123.25	130.39	125.78	3.18	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	4.58	4.73	4.73	4.68	1.85	ppb
Selenium	77-2	9.73	1.89	3.04	4.89	86.60	ppb
Selenium	78-2	5.08	2.45	6.49	4.67	43.82	ppb
Silicon	28-1	-0.72	-1.08	-0.66	-0.82		ppb
Silver	107-1	0.40	0.38	0.42	0.40	4.56	ppb
Silver	109-1	0.40	0.39	0.41	0.40	2.67	ppb
Sodium	23-2	207.80	209.23	207.96	208.33	0.38	ppb
Strontium	86-1	0.34	0.35	0.35	0.35	1.41	ppb
Strontium	88-1	0.37	0.35	0.38	0.37	4.47	ppb
Sulfur	34-1	-578.50	-878.07	-570.50	-675.69		ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.36	0.35	0.37	0.36	2.55	ppb
Thallium	205-1	0.38	0.35	0.38	0.37	4.22	ppb
Tin	118-1	0.41	0.37	0.38	0.39	5.25	ppb
Titanium	47-1	0.50	0.37	0.44	0.44	13.94	ppb
Uranium	238-1	0.36	0.35	0.37	0.36	2.96	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.38	0.46	0.45	0.43	10.30	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				95		%
Zinc	66-2	0.84	1.16	0.85	0.95	19.08	ppb
Zirconium	90-1	0.37	0.36	0.39	0.37	4.00	ppb
Zirconium	91-1	0.36	0.34	0.38	0.36	5.75	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.79	8.61	9.87	8.76	11.97	ppb
Antimony	121-1	0.39	0.39	0.39	0.39	0.34	ppb
Arsenic	75-2	0.34	0.51	0.37	0.40	23.43	ppb
Barium	135-1	1.90	2.02	1.96	1.96	3.22	ppb
Barium	137-1	1.96	1.96	1.94	1.95	0.69	ppb
Beryllium	9-1	0.42	0.42	0.40	0.42	2.52	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.34	0.24	0.30	17.56	ppb
Cadmium	106-1	-1.79	-0.02	-1.57	-1.13		ppb
Cadmium	111-1	0.32	0.40	0.38	0.37	11.29	ppb
Calcium	43-1	191.32	188.50	193.74	191.19	1.37	ppb
Calcium	44-1	183.61	188.79	189.45	187.28	1.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.37	0.32	0.32	0.34	9.11	ppb
Cobalt	59-2	0.42	0.42	0.45	0.43	4.43	ppb
Copper	63-2	0.72	0.74	0.67	0.71	5.70	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				97		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	36.14	35.85	35.84	35.94	0.48	ppb
Iron	56-2	34.18	34.63	34.57	34.46	0.71	ppb
Iron	57-2	32.39	35.10	34.21	33.90	4.08	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.40	0.40	0.40	2.65	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.40	0.38	5.13	ppb
Lead	208-1	0.38	0.39	0.39	0.39	1.80	ppb
Lithium	6-1				103		%
Magnesium	24-2	210.70	212.40	210.84	211.31	0.45	ppb
Manganese	55-2	0.85	0.95	0.91	0.90	5.67	ppb
Molybdenum	94-1	1.02	0.98	1.00	1.00	2.28	ppb
Molybdenum	95-1	0.39	0.43	0.40	0.41	5.52	ppb
Molybdenum	96-1	0.43	0.46	0.46	0.45	3.13	ppb
Molybdenum	97-1	0.36	0.40	0.38	0.38	5.56	ppb
Molybdenum	98-1	0.37	0.39	0.39	0.38	2.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.35	0.31	0.36	0.34	7.73	ppb
Phosphorus	31-2	-11.97	-8.68	-7.02	-9.22		ppb
Potassium	39-2	128.89	126.90	125.30	127.03	1.41	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	3.87	5.24	4.39	4.50	15.35	ppb
Selenium	77-2	3.87	1.92	8.83	4.87	73.07	ppb
Selenium	78-2	1.97	5.51	4.21	3.89	46.00	ppb
Silicon	28-1	-1.03	-0.81	-0.79	-0.88		ppb
Silver	107-1	0.40	0.41	0.40	0.40	1.67	ppb
Silver	109-1	0.39	0.42	0.41	0.41	3.89	ppb
Sodium	23-2	206.81	207.43	209.70	207.98	0.73	ppb
Strontium	86-1	0.34	0.36	0.39	0.36	5.64	ppb
Strontium	88-1	0.36	0.37	0.37	0.37	2.62	ppb
Sulfur	34-1	-738.82	-615.00	-543.16	-632.33		ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.37	0.37	0.37	0.37	0.70	ppb
Thallium	205-1	0.37	0.37	0.39	0.38	3.04	ppb
Tin	118-1	0.38	0.40	0.37	0.38	3.25	ppb
Titanium	47-1	0.40	0.39	0.43	0.41	4.53	ppb
Uranium	238-1	0.36	0.36	0.37	0.36	1.52	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.37	0.40	0.38	3.82	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	1.02	1.09	0.83	0.98	13.55	ppb
Zirconium	90-1	0.36	0.39	0.37	0.38	3.93	ppb
Zirconium	91-1	0.35	0.41	0.36	0.38	8.69	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43.20	39.08	43.40	41.89	5.82	ppb
Antimony	121-1	3.88	3.93	3.98	3.93	1.28	ppb
Arsenic	75-2	2.20	1.95	1.86	2.01	8.58	ppb
Barium	135-1	19.38	19.76	19.64	19.59	1.00	ppb
Barium	137-1	19.54	19.65	19.64	19.61	0.30	ppb
Beryllium	9-1	1.97	1.96	1.95	1.96	0.61	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.85	1.91	2.10	1.95	6.86	ppb
Cadmium	106-1	0.11	0.58	1.26	0.65	88.83	ppb
Cadmium	111-1	1.96	1.95	2.08	2.00	3.55	ppb
Calcium	43-1	989.31	984.28	993.17	988.92	0.45	ppb
Calcium	44-1	984.63	965.81	992.96	981.13	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.73	3.86	3.78	3.79	1.70	ppb
Cobalt	59-2	2.06	1.98	2.07	2.04	2.37	ppb
Copper	63-2	4.56	4.71	4.73	4.66	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				94		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	428.53	422.51	427.71	426.25	0.77	ppb
Iron	56-2	422.94	421.31	423.21	422.49	0.24	ppb
Iron	57-2	418.55	414.40	411.23	414.73	0.88	ppb
Krypton	83-1						cps
Lead	206-1	1.87	1.96	1.92	1.92	2.18	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.90	1.91	1.92	1.91	0.49	ppb
Lead	208-1	1.88	1.95	1.94	1.93	2.00	ppb
Lithium	6-1				100		%
Magnesium	24-2	1003.62	1004.71	1019.92	1009.42	0.90	ppb
Manganese	55-2	2.14	1.97	2.28	2.13	7.36	ppb
Molybdenum	94-1	11.28	11.52	11.62	11.47	1.50	ppb
Molybdenum	95-1	9.50	9.48	9.67	9.55	1.10	ppb
Molybdenum	96-1	9.60	9.87	9.85	9.77	1.53	ppb
Molybdenum	97-1	9.59	9.75	9.74	9.70	0.92	ppb
Molybdenum	98-1	9.48	9.61	9.45	9.52	0.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.03	2.22	2.29	2.18	6.12	ppb
Phosphorus	31-2	19.54	61.73	30.79	37.35	58.48	ppb
Potassium	39-2	992.05	979.63	1007.56	993.08	1.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				92		%
Selenium	82-1	10.34	10.54	9.59	10.16	4.96	ppb
Selenium	77-2	9.03	14.74	11.44	11.74	24.46	ppb
Selenium	78-2	10.52	7.00	11.63	9.72	24.89	ppb
Silicon	28-1	4.80	4.58	4.72	4.70	2.29	ppb
Silver	107-1	1.91	1.97	2.01	1.96	2.61	ppb
Silver	109-1	1.97	1.98	2.00	1.98	0.81	ppb
Sodium	23-2	1018.94	1007.85	1016.90	1014.56	0.58	ppb
Strontium	86-1	1.85	1.84	1.87	1.85	1.01	ppb
Strontium	88-1	1.86	1.88	1.84	1.86	1.05	ppb
Sulfur	34-1	-141.67	-300.81	-175.54	-206.01		ppb
Terbium	159-1				94		%
Terbium	159-2				95		%
Thallium	203-1	1.83	1.95	1.87	1.88	2.97	ppb
Thallium	205-1	1.82	1.88	1.87	1.86	1.60	ppb
Tin	118-1	9.74	9.86	9.90	9.83	0.87	ppb
Titanium	47-1	11.42	10.69	11.14	11.09	3.32	ppb
Uranium	238-1	1.78	1.81	1.81	1.80	1.02	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.92	9.75	10.09	9.92	1.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	10.74	11.16	10.98	10.96	1.92	ppb
Zirconium	90-1	1.92	1.94	1.91	1.93	0.74	ppb
Zirconium	91-1	1.95	1.94	1.95	1.95	0.27	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.53	0.26	0.39	0.39	34.27	ppb
Antimony	121-1	0.00	0.00	0.01	0.00	116.28	ppb
Arsenic	75-2	0.01	0.00	-0.02	0.00		ppb
Barium	135-1	-0.04	-0.03	-0.03	-0.03		ppb
Barium	137-1	-0.04	-0.04	-0.04	-0.04		ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	32.77	ppb
Bismuth	209-1				94		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.03	0.04	0.05	44.17	ppb
Cadmium	106-1	-1.53	-1.89	-1.33	-1.59		ppb
Cadmium	111-1	-0.04	-0.04	-0.03	-0.04		ppb
Calcium	43-1	0.13	0.37	-0.19	0.10	276.06	ppb
Calcium	44-1	-3.55	-3.54	-2.84	-3.31		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.00	-0.02	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	224.86	ppb
Copper	63-2	-0.12	-0.07	0.05	-0.05		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				96		%
Indium	115-1				93		%
Indium	115-2				93		%
Iron	54-2	0.71	0.93	0.57	0.74	24.58	ppb
Iron	56-2	0.18	0.26	0.36	0.26	34.02	ppb
Iron	57-2	-0.94	1.10	-0.29	-0.04		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	0.00	0.01	0.00	330.65	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.00	0.01	0.01	86.60	ppb
Lead	208-1	0.00	0.00	0.01	0.00	106.42	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.49	0.14	-0.07	-0.14		ppb
Manganese	55-2	0.04	0.05	0.09	0.06	43.71	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	322.00	ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	54.93	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	85.45	ppb
Molybdenum	97-1	0.00	0.00	-0.01	0.00		ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	59.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	-0.08	-0.02	-0.03		ppb
Phosphorus	31-2	-17.89	-19.79	-18.23	-18.63		ppb
Potassium	39-2	-3.59	0.57	2.11	-0.30		ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				92		%
Selenium	82-1	0.20	0.11	0.42	0.24	66.01	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.17	0.87	0.06	1302.77	ppb
Silicon	28-1	-0.84	-0.85	-0.39	-0.69		ppb
Silver	107-1	0.01	0.01	0.01	0.01	20.51	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.19	ppb
Sodium	23-2	-1.41	1.05	2.13	0.59	308.98	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	48.13	ppb
Sulfur	34-1	-213.19	-205.68	141.41	-92.49		ppb
Terbium	159-1				94		%
Terbium	159-2				95		%
Thallium	203-1	0.00	0.01	0.01	0.01	34.73	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.71	ppb
Tin	118-1	0.00	-0.01	0.01	0.00	260.77	ppb
Titanium	47-1	0.02	0.00	0.01	0.01	75.21	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.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				94		%
Yttrium	89-2				94		%
Zinc	66-2	0.52	0.38	0.62	0.51	23.71	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	317.75	ppb
Zirconium	91-1	0.01	0.00	0.00	0.01	62.97	ppb

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Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.39	41.76	39.51	40.22	3.32	ppb
Antimony	121-1	4.02	3.81	4.51	4.11	8.64	ppb
Arsenic	75-2	2.23	1.88	1.79	1.97	11.73	ppb
Barium	135-1	19.65	18.90	22.08	20.21	8.22	ppb
Barium	137-1	20.15	19.21	22.38	20.58	7.92	ppb
Beryllium	9-1	1.98	1.96	2.10	2.01	3.77	ppb
Bismuth	209-1				89		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.05	2.03	1.91	2.00	3.82	ppb
Cadmium	106-1	0.43	1.19	0.24	0.62	81.23	ppb
Cadmium	111-1	2.10	1.93	2.26	2.10	7.91	ppb
Calcium	43-1	987.53	945.81	1113.64	1015.66	8.60	ppb
Calcium	44-1	1004.25	952.08	1125.55	1027.29	8.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.89	3.67	3.82	3.79	3.04	ppb
Cobalt	59-2	2.09	2.07	1.99	2.05	2.56	ppb
Copper	63-2	4.61	4.66	4.57	4.61	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				88		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	425.57	418.62	425.83	423.34	0.97	ppb
Iron	56-2	424.44	422.73	416.08	421.08	1.05	ppb
Iron	57-2	427.82	413.89	415.90	419.20	1.80	ppb
Krypton	83-1						cps
Lead	206-1	2.02	1.79	2.28	2.03	12.04	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.00	1.87	2.26	2.04	9.85	ppb
Lead	208-1	2.02	1.86	2.29	2.05	10.67	ppb
Lithium	6-1				96		%
Magnesium	24-2	1012.34	1015.38	982.33	1003.35	1.82	ppb
Manganese	55-2	2.21	1.97	2.12	2.10	5.69	ppb
Molybdenum	94-1	11.72	11.11	13.15	11.99	8.70	ppb
Molybdenum	95-1	9.91	9.31	10.93	10.05	8.15	ppb
Molybdenum	96-1	10.11	9.46	11.31	10.29	9.14	ppb
Molybdenum	97-1	10.08	9.22	11.20	10.17	9.73	ppb
Molybdenum	98-1	9.97	9.19	11.00	10.05	9.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.15	2.09	1.97	2.07	4.57	ppb
Phosphorus	31-2	32.17	28.40	41.71	34.09	20.13	ppb
Potassium	39-2	986.89	975.03	963.61	975.17	1.19	ppb
Rhodium	103-1				88		%
Rhodium	103-2				92		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	11.17	10.67	11.71	11.18	4.64	ppb
Selenium	77-2	16.45	16.34	8.05	13.62	35.37	ppb
Selenium	78-2	8.31	11.06	12.21	10.53	19.05	ppb
Silicon	28-1	5.05	4.32	6.77	5.38	23.39	ppb
Silver	107-1	1.98	1.95	2.23	2.05	7.43	ppb
Silver	109-1	2.04	1.99	2.23	2.09	6.22	ppb
Sodium	23-2	1025.80	1029.88	1000.42	1018.70	1.57	ppb
Strontium	86-1	1.91	1.83	2.13	1.96	8.15	ppb
Strontium	88-1	1.90	1.79	2.16	1.95	9.81	ppb
Sulfur	34-1	15.68	-372.43	737.56	126.94	443.76	ppb
Terbium	159-1				88		%
Terbium	159-2				92		%
Thallium	203-1	1.95	1.80	2.17	1.97	9.34	ppb
Thallium	205-1	1.96	1.81	2.14	1.97	8.48	ppb
Tin	118-1	10.21	9.64	11.13	10.33	7.30	ppb
Titanium	47-1	11.34	10.79	12.49	11.54	7.51	ppb
Uranium	238-1	1.90	1.74	2.07	1.90	8.63	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.97	9.85	10.03	9.95	0.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				90		%
Zinc	66-2	10.92	10.76	10.47	10.71	2.15	ppb
Zirconium	90-1	1.95	1.88	2.20	2.01	8.31	ppb
Zirconium	91-1	2.06	1.79	2.23	2.02	10.96	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.11	0.48	0.85	0.40	120.16	ppb
Antimony	121-1	0.01	0.01	0.00	0.00	58.33	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	436.21	ppb
Barium	135-1	-0.06	-0.04	-0.05	-0.05		ppb
Barium	137-1	-0.05	-0.04	-0.05	-0.05		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	11.53	ppb
Bismuth	209-1				90		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.06	-0.09	-0.01		ppb
Cadmium	106-1	-1.10	-2.23	-1.28	-1.54		ppb
Cadmium	111-1	-0.02	-0.05	-0.01	-0.03		ppb
Calcium	43-1	1.13	0.14	-0.50	0.26	315.84	ppb
Calcium	44-1	-3.07	-3.13	-3.46	-3.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	0.00	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	145.15	ppb
Copper	63-2	-0.09	-0.07	-0.04	-0.07		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				89		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	1.02	0.46	0.39	0.62	55.76	ppb
Iron	56-2	0.38	0.17	0.27	0.27	38.63	ppb
Iron	57-2	0.29	-0.50	-0.14	-0.11		ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.01	0.01	0.01	56.38	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.02	0.00	0.01	117.27	ppb
Lead	208-1	0.01	0.01	0.00	0.01	72.68	ppb
Lithium	6-1				97		%
Magnesium	24-2	-0.23	-0.18	-0.26	-0.22		ppb
Manganese	55-2	0.06	0.00	0.08	0.04	81.08	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	592.02	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	159.90	ppb
Molybdenum	96-1	0.01	0.01	0.00	0.01	77.79	ppb
Molybdenum	97-1	-0.01	0.00	-0.01	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	257.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.02	0.00	-0.01		ppb
Phosphorus	31-2	-8.59	-18.03	-15.17	-13.93		ppb
Potassium	39-2	-3.82	-1.42	-3.04	-2.76		ppb
Rhodium	103-1				89		%
Rhodium	103-2				93		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	-0.14	0.27	0.11	0.08	254.64	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.53	-0.53	-0.53		ppb
Silicon	28-1	-0.26	-0.34	-0.69	-0.43		ppb
Silver	107-1	0.01	0.01	0.01	0.01	36.51	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.58	ppb
Sodium	23-2	-1.62	-0.94	-1.89	-1.48		ppb
Strontium	86-1	-0.01	0.01	0.00	0.00	16594.77	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	200.15	ppb
Sulfur	34-1	-11.00	-126.25	-382.91	-173.39		ppb
Terbium	159-1				89		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.01	0.01	14.99	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	22.05	ppb
Tin	118-1	0.01	0.02	0.00	0.01	103.79	ppb
Titanium	47-1	0.04	0.01	0.01	0.02	101.96	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	-0.01	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				90		%
Zinc	66-2	0.40	0.54	0.67	0.54	25.42	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	59.51	ppb
Zirconium	91-1	-0.01	-0.01	0.00	-0.01		ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9926.35	9995.65	9978.66	9966.89	0.36	ppb
Antimony	121-1	520.66	514.63	520.48	518.59	0.66	ppb
Arsenic	75-2	523.50	525.35	520.39	523.08	0.48	ppb
Barium	135-1	2567.84	2559.89	2602.70	2576.81	0.88	ppb
Barium	137-1	2536.22	2567.10	2579.43	2560.91	0.87	ppb
Beryllium	9-1	494.41	495.30	490.74	493.48	0.49	ppb
Bismuth	209-1				86		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	508.74	513.46	519.01	513.74	1.00	ppb
Cadmium	106-1	504.01	512.09	517.16	511.09	1.30	ppb
Cadmium	111-1	488.49	494.69	499.03	494.07	1.07	ppb
Calcium	43-1	52862.85	51073.59	51178.19	51704.88	1.94	ppb
Calcium	44-1	50963.02	50535.73	50795.17	50764.64	0.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490.10	497.63	489.86	492.53	0.90	ppb
Cobalt	59-2	526.26	534.00	525.80	528.69	0.87	ppb
Copper	63-2	5322.41	5388.27	5292.12	5334.27	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				90		%
Holmium	165-2				86		%
Indium	115-1				86		%
Indium	115-2				81		%
Iron	54-2	27260.16	27583.63	27098.61	27314.13	0.90	ppb
Iron	56-2	26434.71	26770.84	26209.62	26471.72	1.07	ppb
Iron	57-2	25042.98	25335.29	25107.17	25161.82	0.61	ppb
Krypton	83-1						cps
Lead	206-1	2555.36	2586.28	2527.29	2556.31	1.15	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2528.13	2574.69	2519.56	2540.79	1.17	ppb
Lead	208-1	2560.24	2565.76	2536.24	2554.08	0.61	ppb
Lithium	6-1				94		%
Magnesium	24-2	53520.86	54247.89	53196.90	53655.22	1.00	ppb
Manganese	55-2	5256.26	5287.49	5149.62	5231.12	1.38	ppb
Molybdenum	94-1	5212.19	5073.74	5138.45	5141.46	1.35	ppb
Molybdenum	95-1	5225.75	5075.44	5102.47	5134.55	1.56	ppb
Molybdenum	96-1	5156.85	5141.00	5139.53	5145.79	0.19	ppb
Molybdenum	97-1	5156.36	5173.22	5125.08	5151.55	0.47	ppb
Molybdenum	98-1	5155.78	5071.53	5206.96	5144.76	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	522.84	533.98	527.32	528.05	1.06	ppb
Phosphorus	31-2	10512.16	10556.08	10302.85	10457.03	1.29	ppb
Potassium	39-2	25398.30	25559.13	25360.89	25439.44	0.41	ppb
Rhodium	103-1				85		%
Rhodium	103-2				81		%
Scandium	45-1				91		%
Scandium	45-2				85		%
Selenium	82-1	517.92	520.89	526.22	521.68	0.81	ppb
Selenium	77-2	533.41	520.59	586.34	546.78	6.37	ppb
Selenium	78-2	533.81	535.14	523.46	530.80	1.20	ppb
Silicon	28-1	486.01	470.73	474.37	477.04	1.67	ppb
Silver	107-1	514.80	521.44	523.32	519.85	0.86	ppb
Silver	109-1	518.56	519.36	523.40	520.44	0.50	ppb
Sodium	23-2	52245.97	52505.51	51197.24	51982.91	1.33	ppb
Strontium	86-1	520.92	524.47	525.89	523.76	0.49	ppb
Strontium	88-1	517.08	518.26	521.35	518.90	0.43	ppb
Sulfur	34-1	12687.22	10097.29	10372.55	11052.35	12.87	ppb
Terbium	159-1				90		%
Terbium	159-2				87		%
Thallium	203-1	516.89	524.46	511.76	517.70	1.23	ppb
Thallium	205-1	506.53	518.07	502.49	509.03	1.59	ppb
Tin	118-1	515.81	520.46	521.55	519.27	0.59	ppb
Titanium	47-1	5075.99	5163.42	5112.82	5117.41	0.86	ppb
Uranium	238-1	497.53	500.48	501.29	499.77	0.40	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	494.54	500.65	493.92	496.37	0.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				84		%
Zinc	66-2	5320.40	5420.61	5241.71	5327.57	1.68	ppb
Zirconium	90-1	518.86	511.57	514.66	515.03	0.71	ppb
Zirconium	91-1	520.72	508.94	518.52	516.06	1.21	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.03	0.46	1.40	0.63	110.34	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	10.59	ppb
Arsenic	75-2	0.02	0.00	0.02	0.01	100.95	ppb
Barium	135-1	0.07	0.04	0.02	0.04	60.09	ppb
Barium	137-1	0.05	0.04	0.04	0.04	18.48	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	4.53	ppb
Bismuth	209-1				87		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.15	0.00	0.09	85.19	ppb
Cadmium	106-1	-2.20	-2.12	-2.87	-2.40		ppb
Cadmium	111-1	-0.05	-0.04	-0.06	-0.05		ppb
Calcium	43-1	0.73	-0.10	1.56	0.73	113.47	ppb
Calcium	44-1	-2.64	-2.66	-2.29	-2.53		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	-0.03	0.00	0.00		ppb
Cobalt	59-2	0.02	0.02	0.01	0.01	22.46	ppb
Copper	63-2	0.03	0.03	0.07	0.04	43.40	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				87		%
Holmium	165-2				84		%
Indium	115-1				87		%
Indium	115-2				82		%
Iron	54-2	0.69	0.70	0.80	0.73	8.22	ppb
Iron	56-2	0.27	0.41	0.47	0.38	27.33	ppb
Iron	57-2	0.54	0.34	0.58	0.49	26.25	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.05	0.04	0.04	15.87	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.02	0.04	36.73	ppb
Lead	208-1	0.04	0.04	0.04	0.04	6.59	ppb
Lithium	6-1				90		%
Magnesium	24-2	0.30	-0.07	0.80	0.34	128.12	ppb
Manganese	55-2	0.20	0.28	0.20	0.23	18.17	ppb
Molybdenum	94-1	0.02	0.03	0.04	0.03	21.91	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	4.39	ppb
Molybdenum	96-1	0.03	0.03	0.03	0.03	8.65	ppb
Molybdenum	97-1	0.02	0.04	0.03	0.03	23.18	ppb
Molybdenum	98-1	0.03	0.05	0.03	0.04	22.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.09	-0.03	-0.05	0.00	3322.88	ppb
Phosphorus	31-2	-8.92	-2.24	-14.47	-8.54		ppb
Potassium	39-2	8.25	7.51	8.59	8.12	6.76	ppb
Rhodium	103-1				87		%
Rhodium	103-2				84		%
Scandium	45-1				87		%
Scandium	45-2				81		%
Selenium	82-1	0.17	0.31	0.04	0.17	79.19	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.14	-0.53	-0.14	-0.27		ppb
Silicon	28-1	-0.37	-0.12	0.04	-0.15		ppb
Silver	107-1	0.01	0.01	0.01	0.01	18.03	ppb
Silver	109-1	0.01	0.01	0.01	0.01	21.50	ppb
Sodium	23-2	4.19	3.95	4.44	4.19	5.90	ppb
Strontium	86-1	-0.01	0.00	0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	4.29	ppb
Sulfur	34-1	-251.54	-38.49	124.52	-55.17		ppb
Terbium	159-1				87		%
Terbium	159-2				83		%
Thallium	203-1	0.01	0.02	0.01	0.01	26.96	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	37.21	ppb
Tin	118-1	0.02	0.01	0.01	0.02	40.57	ppb
Titanium	47-1	0.03	0.02	0.02	0.03	19.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	26.37	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	341.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				81		%
Zinc	66-2	0.76	0.70	0.60	0.69	11.32	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	204.62	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9707.33	9920.28	9712.06	9779.89	1.24	ppb
Antimony	121-1	519.48	520.10	523.29	520.96	0.39	ppb
Arsenic	75-2	522.99	530.10	530.11	527.73	0.78	ppb
Barium	135-1	2561.88	2569.35	2608.34	2579.85	0.97	ppb
Barium	137-1	2542.92	2559.41	2587.57	2563.30	0.88	ppb
Beryllium	9-1	503.60	513.07	494.57	503.75	1.84	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	510.53	518.10	516.70	515.11	0.78	ppb
Cadmium	106-1	515.70	517.32	517.50	516.84	0.19	ppb
Cadmium	111-1	488.28	494.89	498.57	493.91	1.06	ppb
Calcium	43-1	52290.66	51891.83	51605.35	51929.28	0.66	ppb
Calcium	44-1	50979.33	50808.11	51390.11	51059.19	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	483.96	493.71	484.98	487.55	1.10	ppb
Cobalt	59-2	517.72	524.89	512.54	518.38	1.20	ppb
Copper	63-2	5247.63	5276.04	5214.32	5246.00	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				95		%
Indium	115-1				92		%
Indium	115-2				89		%
Iron	54-2	26954.32	26966.23	26555.79	26825.45	0.87	ppb
Iron	56-2	25958.45	26443.15	26068.22	26156.61	0.97	ppb
Iron	57-2	24898.12	25266.36	24830.48	24998.32	0.94	ppb
Krypton	83-1						cps
Lead	206-1	2519.34	2551.60	2559.07	2543.33	0.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2520.30	2580.54	2548.30	2549.72	1.18	ppb
Lead	208-1	2514.98	2571.14	2544.27	2543.46	1.10	ppb
Lithium	6-1				94		%
Magnesium	24-2	52184.00	52804.37	51737.07	52241.81	1.03	ppb
Manganese	55-2	5143.45	5186.84	5163.63	5164.64	0.42	ppb
Molybdenum	94-1	5039.78	5094.25	5060.32	5064.78	0.54	ppb
Molybdenum	95-1	5114.32	5103.40	4986.49	5068.07	1.40	ppb
Molybdenum	96-1	5145.65	5118.45	5037.31	5100.47	1.11	ppb
Molybdenum	97-1	5058.61	5103.98	5071.30	5077.96	0.46	ppb
Molybdenum	98-1	5100.38	5124.88	5098.77	5108.01	0.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	516.29	527.68	516.65	520.21	1.24	ppb
Phosphorus	31-2	10170.02	10331.54	10359.44	10287.00	0.99	ppb
Potassium	39-2	25331.22	25444.66	24995.99	25257.29	0.92	ppb
Rhodium	103-1				89		%
Rhodium	103-2				89		%
Scandium	45-1				95		%
Scandium	45-2				94		%
Selenium	82-1	518.96	520.17	511.37	516.83	0.92	ppb
Selenium	77-2	540.12	475.88	504.76	506.92	6.35	ppb
Selenium	78-2	532.21	502.60	511.18	515.33	2.96	ppb
Silicon	28-1	478.13	476.54	480.59	478.42	0.43	ppb
Silver	107-1	519.74	521.21	522.80	521.25	0.29	ppb
Silver	109-1	516.50	514.61	522.79	517.97	0.83	ppb
Sodium	23-2	51086.64	52286.69	50859.54	51410.95	1.49	ppb
Strontium	86-1	526.81	525.32	511.49	521.21	1.62	ppb
Strontium	88-1	516.76	512.40	508.94	512.70	0.76	ppb
Sulfur	34-1	10160.31	10330.89	10340.27	10277.16	0.99	ppb
Terbium	159-1				94		%
Terbium	159-2				94		%
Thallium	203-1	512.70	512.38	521.26	515.44	0.98	ppb
Thallium	205-1	505.27	514.05	503.48	507.60	1.11	ppb
Tin	118-1	523.90	530.07	520.35	524.77	0.94	ppb
Titanium	47-1	5144.97	5114.71	5151.24	5136.98	0.38	ppb
Uranium	238-1	491.55	502.20	493.56	495.77	1.14	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	487.41	496.63	486.90	490.31	1.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5224.25	5355.48	5237.89	5272.54	1.37	ppb
Zirconium	90-1	509.12	508.03	502.56	506.57	0.69	ppb
Zirconium	91-1	519.23	520.34	505.43	515.00	1.61	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51310.89	50723.98	45881.68	49305.52	6.04	ppb
Antimony	121-1	503.67	508.40	508.48	506.85	0.54	ppb
Arsenic	75-2	505.29	499.81	451.18	485.43	6.14	ppb
Barium	135-1	2528.57	2542.25	2537.35	2536.06	0.27	ppb
Barium	137-1	2495.80	2538.45	2560.86	2531.70	1.31	ppb
Beryllium	9-1	515.33	521.49	505.30	514.04	1.59	ppb
Bismuth	209-1				81		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	488.39	493.63	489.15	490.39	0.58	ppb
Cadmium	106-1	491.12	493.97	490.60	491.90	0.37	ppb
Cadmium	111-1	460.80	467.29	466.78	464.96	0.78	ppb
Calcium	43-1	246976.83	252363.07	250915.21	250085.04	1.11	ppb
Calcium	44-1	246677.65	252743.87	246305.79	248575.77	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	472.46	480.10	433.13	461.90	5.46	ppb
Cobalt	59-2	492.97	507.21	448.41	482.86	6.35	ppb
Copper	63-2	4764.71	4876.50	4333.69	4658.30	6.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				90		%
Holmium	165-2				92		%
Indium	115-1				84		%
Indium	115-2				84		%
Iron	54-2	123646.64	128326.31	113348.23	121773.73	6.29	ppb
Iron	56-2	124626.41	127861.29	113750.64	122079.45	6.06	ppb
Iron	57-2	124936.03	125543.36	114576.06	121685.15	5.07	ppb
Krypton	83-1						cps
Lead	206-1	2548.39	2594.23	2599.03	2580.55	1.08	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2573.13	2593.85	2586.83	2584.60	0.41	ppb
Lead	208-1	2558.73	2587.05	2592.43	2579.40	0.70	ppb
Lithium	6-1				85		%
Magnesium	24-2	251306.95	248652.68	227684.63	242548.09	5.34	ppb
Manganese	55-2	4983.66	5110.98	4584.67	4893.10	5.61	ppb
Molybdenum	94-1	5106.92	5164.64	5159.91	5143.82	0.62	ppb
Molybdenum	95-1	5060.88	5119.75	5120.91	5100.51	0.67	ppb
Molybdenum	96-1	5128.49	5161.85	5118.39	5136.25	0.44	ppb
Molybdenum	97-1	5056.61	5164.37	5125.34	5115.44	1.07	ppb
Molybdenum	98-1	5111.36	5184.70	5126.93	5140.99	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	480.27	487.60	434.47	467.45	6.16	ppb
Phosphorus	31-2	9963.68	10216.43	9077.94	9752.69	6.13	ppb
Potassium	39-2	121600.49	123562.93	112147.36	119103.59	5.12	ppb
Rhodium	103-1				79		%
Rhodium	103-2				81		%
Scandium	45-1				88		%
Scandium	45-2				89		%
Selenium	82-1	491.11	491.94	498.97	494.01	0.87	ppb
Selenium	77-2	477.13	534.21	411.56	474.30	12.94	ppb
Selenium	78-2	482.49	483.52	456.67	474.23	3.21	ppb
Silicon	28-1	772.50	784.41	770.85	775.92	0.95	ppb
Silver	107-1	486.85	483.77	485.31	485.31	0.32	ppb
Silver	109-1	482.15	488.31	483.89	484.78	0.66	ppb
Sodium	23-2	248895.42	249709.98	226915.75	241840.38	5.35	ppb
Strontium	86-1	515.11	520.22	513.39	516.24	0.69	ppb
Strontium	88-1	510.20	507.31	510.87	509.46	0.37	ppb
Sulfur	34-1	12428.95	12676.20	12228.10	12444.41	1.80	ppb
Terbium	159-1				89		%
Terbium	159-2				92		%
Thallium	203-1	515.78	521.14	525.49	520.80	0.93	ppb
Thallium	205-1	518.91	516.26	518.26	517.81	0.27	ppb
Tin	118-1	507.21	516.03	512.09	511.78	0.86	ppb
Titanium	47-1	5171.84	5176.85	5155.98	5168.22	0.21	ppb
Uranium	238-1	517.01	526.48	533.59	525.70	1.58	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	483.72	487.14	443.56	471.47	5.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				89		%
Zinc	66-2	4768.43	4883.77	4198.79	4617.00	7.94	ppb
Zirconium	90-1	514.16	516.05	516.44	515.55	0.24	ppb
Zirconium	91-1	521.02	524.34	524.73	523.37	0.39	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.19	-0.21	0.74	0.24	199.86	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	3.10	ppb
Arsenic	75-2	-0.02	0.05	0.00	0.01	428.72	ppb
Barium	135-1	0.15	0.13	0.14	0.14	7.24	ppb
Barium	137-1	0.15	0.14	0.14	0.14	3.60	ppb
Beryllium	9-1	0.08	0.08	0.08	0.08	3.41	ppb
Bismuth	209-1				92		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	-0.02	0.03	158.85	ppb
Cadmium	106-1	-1.51	-2.38	-0.71	-1.53		ppb
Cadmium	111-1	-0.03	-0.04	0.01	-0.02		ppb
Calcium	43-1	2.49	1.02	1.80	1.77	41.64	ppb
Calcium	44-1	-1.44	-2.48	-2.33	-2.08		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.03	-0.02	0.01	273.00	ppb
Cobalt	59-2	0.03	0.03	0.03	0.03	4.74	ppb
Copper	63-2	-0.15	-0.08	-0.14	-0.12		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				92		%
Holmium	165-2				91		%
Indium	115-1				93		%
Indium	115-2				88		%
Iron	54-2	2.23	2.89	1.57	2.23	29.54	ppb
Iron	56-2	1.71	1.92	1.76	1.80	6.14	ppb
Iron	57-2	0.20	0.63	1.25	0.69	76.56	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.06	0.07	11.41	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.06	0.06	0.06	3.03	ppb
Lead	208-1	0.07	0.06	0.06	0.07	4.10	ppb
Lithium	6-1				97		%
Magnesium	24-2	2.02	2.07	1.81	1.97	6.87	ppb
Manganese	55-2	0.19	0.20	0.23	0.20	10.84	ppb
Molybdenum	94-1	0.10	0.10	0.08	0.09	15.46	ppb
Molybdenum	95-1	0.10	0.08	0.07	0.08	14.78	ppb
Molybdenum	96-1	0.11	0.08	0.08	0.09	19.12	ppb
Molybdenum	97-1	0.09	0.08	0.07	0.08	10.98	ppb
Molybdenum	98-1	0.11	0.08	0.09	0.09	13.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.13	-0.02	-0.10	-0.09		ppb
Phosphorus	31-2	-15.98	-23.84	-15.91	-18.58		ppb
Potassium	39-2	11.99	8.51	7.53	9.34	25.10	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	0.01	0.03	0.05	0.03	58.28	ppb
Selenium	77-2	-0.36	0.86	-0.36	0.05	1488.52	ppb
Selenium	78-2	-0.53	0.56	0.90	0.31	240.13	ppb
Silicon	28-1	-0.65	-0.49	-0.36	-0.50		ppb
Silver	107-1	0.01	0.02	0.02	0.02	31.16	ppb
Silver	109-1	0.01	0.01	0.02	0.01	13.56	ppb
Sodium	23-2	10.09	12.27	9.24	10.53	14.83	ppb
Strontium	86-1	0.01	-0.01	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-381.87	-228.18	-134.46	-248.17		ppb
Terbium	159-1				91		%
Terbium	159-2				91		%
Thallium	203-1	0.02	0.01	0.02	0.02	29.14	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.97	ppb
Tin	118-1	0.02	0.01	0.01	0.01	47.35	ppb
Titanium	47-1	0.05	0.06	0.05	0.05	7.33	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	27.98	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	80.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				88		%
Zinc	66-2	0.20	0.13	0.10	0.14	35.97	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	20.62	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	30.85	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.55	0.95	0.81	0.77	26.70	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	13.03	ppb
Arsenic	75-2	-0.02	0.08	0.00	0.02	291.61	ppb
Barium	135-1	0.04	0.06	0.06	0.05	26.99	ppb
Barium	137-1	0.06	0.06	0.06	0.06	6.73	ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	12.46	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.08	0.00	0.03	132.87	ppb
Cadmium	106-1	-2.27	-1.71	-1.86	-1.94		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	-0.39	0.01	-0.09	-0.15		ppb
Calcium	44-1	-2.24	-3.29	-3.70	-3.08		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.06	-0.01	0.02	170.02	ppb
Cobalt	59-2	0.02	0.02	0.01	0.02	38.70	ppb
Copper	63-2	0.00	0.20	0.07	0.09	112.39	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				95		%
Holmium	165-2				90		%
Indium	115-1				96		%
Indium	115-2				87		%
Iron	54-2	0.18	1.28	0.79	0.75	72.93	ppb
Iron	56-2	0.21	0.86	0.60	0.56	58.81	ppb
Iron	57-2	0.03	0.78	-0.27	0.18	305.94	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.03	0.04	16.09	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.02	0.04	0.03	28.97	ppb
Lead	208-1	0.04	0.03	0.04	0.04	15.41	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.53	0.20	-0.03	-0.12		ppb
Manganese	55-2	0.14	0.17	0.19	0.17	15.83	ppb
Molybdenum	94-1	0.03	0.04	0.01	0.02	68.74	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	8.91	ppb
Molybdenum	96-1	0.03	0.01	0.02	0.02	58.63	ppb
Molybdenum	97-1	0.02	0.01	0.01	0.01	68.86	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.02	17.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.07	0.02	0.01	449.46	ppb
Phosphorus	31-2	-17.73	-13.13	-17.48	-16.11		ppb
Potassium	39-2	3.16	15.05	5.93	8.05	77.31	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				86		%
Selenium	82-1	0.13	0.13	-0.18	0.03	692.64	ppb
Selenium	77-2	-0.36	-0.36	0.86	0.05	1521.34	ppb
Selenium	78-2	1.15	-0.53	-0.53	0.03	3048.48	ppb
Silicon	28-1	-0.43	-0.79	-1.21	-0.81		ppb
Silver	107-1	0.01	0.00	0.01	0.01	35.91	ppb
Silver	109-1	0.00	0.00	0.01	0.01	31.00	ppb
Sodium	23-2	1.23	14.73	6.66	7.54	90.12	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	155.13	ppb
Sulfur	34-1	-142.06	-403.51	-761.49	-435.69		ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	0.01	0.01	0.00	0.01	42.04	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.01	ppb
Tin	118-1	0.02	0.01	0.00	0.01	106.38	ppb
Titanium	47-1	0.00	0.01	0.02	0.01	152.73	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	-0.01	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				87		%
Zinc	66-2	0.37	0.92	0.56	0.62	44.50	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	82.14	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9834.65	9837.87	9873.07	9848.53	0.22	ppb
Antimony	121-1	498.25	564.09	495.05	519.13	7.51	ppb
Arsenic	75-2	513.97	513.96	517.46	515.13	0.39	ppb
Barium	135-1	2413.00	2777.38	2417.90	2536.09	8.24	ppb
Barium	137-1	2437.97	2800.28	2423.93	2554.06	8.35	ppb
Beryllium	9-1	475.98	546.66	494.36	505.67	7.25	ppb
Bismuth	209-1				88		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	489.20	566.24	490.55	515.33	8.56	ppb
Cadmium	106-1	491.92	564.50	493.83	516.75	8.00	ppb
Cadmium	111-1	465.02	537.05	471.29	491.12	8.12	ppb
Calcium	43-1	48437.85	57304.06	49400.97	51714.29	9.41	ppb
Calcium	44-1	47686.14	55892.69	48305.84	50628.22	9.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	487.81	487.49	495.73	490.34	0.95	ppb
Cobalt	59-2	529.41	520.28	525.24	524.98	0.87	ppb
Copper	63-2	5262.75	5235.77	5272.02	5256.85	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				93		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	26943.16	26715.72	27973.75	27210.88	2.46	ppb
Iron	56-2	26391.78	26414.78	26647.38	26484.65	0.53	ppb
Iron	57-2	25033.34	24962.51	25406.04	25133.96	0.95	ppb
Krypton	83-1						cps
Lead	206-1	2399.38	2777.19	2441.21	2539.26	8.16	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2388.85	2721.17	2471.58	2527.20	6.85	ppb
Lead	208-1	2395.30	2737.73	2460.36	2531.13	7.18	ppb
Lithium	6-1				94		%
Magnesium	24-2	52269.76	52641.45	52501.87	52471.03	0.36	ppb
Manganese	55-2	5187.72	5205.76	5216.81	5203.43	0.28	ppb
Molybdenum	94-1	4844.83	5505.74	4881.72	5077.43	7.31	ppb
Molybdenum	95-1	4901.48	5433.38	4893.99	5076.29	6.09	ppb
Molybdenum	96-1	4850.29	5479.44	4830.46	5053.40	7.30	ppb
Molybdenum	97-1	4837.33	5485.71	4917.22	5080.09	6.96	ppb
Molybdenum	98-1	4801.34	5513.07	4899.82	5071.41	7.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	520.49	516.72	524.36	520.52	0.73	ppb
Phosphorus	31-2	10300.16	10097.98	10221.85	10206.66	1.00	ppb
Potassium	39-2	24799.32	25050.42	25257.11	25035.62	0.92	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				91		%
Selenium	82-1	487.94	552.91	491.76	510.87	7.14	ppb
Selenium	77-2	513.47	545.94	550.34	536.59	3.75	ppb
Selenium	78-2	516.07	484.60	504.55	501.74	3.17	ppb
Silicon	28-1	444.31	519.54	457.87	473.90	8.46	ppb
Silver	107-1	504.58	569.68	493.05	522.44	7.91	ppb
Silver	109-1	497.88	559.47	498.28	518.54	6.83	ppb
Sodium	23-2	52024.59	51945.82	51561.49	51843.97	0.48	ppb
Strontium	86-1	493.97	560.68	492.94	515.86	7.52	ppb
Strontium	88-1	488.81	552.54	496.53	512.63	6.78	ppb
Sulfur	34-1	9344.41	11680.72	9555.05	10193.39	12.68	ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	483.99	555.33	506.38	515.24	7.08	ppb
Thallium	205-1	479.72	549.35	490.30	506.46	7.41	ppb
Tin	118-1	501.30	572.69	492.86	522.28	8.40	ppb
Titanium	47-1	4786.36	5628.63	4884.15	5099.71	9.03	ppb
Uranium	238-1	470.04	535.01	480.38	495.14	7.05	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	492.75	489.30	495.44	492.49	0.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				91		%
Zinc	66-2	5423.58	5269.48	5370.42	5354.50	1.46	ppb
Zirconium	90-1	480.04	548.87	484.79	504.57	7.62	ppb
Zirconium	91-1	491.23	552.59	495.89	513.24	6.66	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50413.83	49980.97	50076.96	50157.26	0.45	ppb
Antimony	121-1	491.35	493.57	495.94	493.62	0.46	ppb
Arsenic	75-2	498.84	497.53	503.61	500.00	0.64	ppb
Barium	135-1	2490.34	2493.41	2524.21	2502.65	0.75	ppb
Barium	137-1	2510.75	2470.36	2529.63	2503.58	1.21	ppb
Beryllium	9-1	497.15	501.01	485.23	494.46	1.66	ppb
Bismuth	209-1				80		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	482.73	472.34	485.59	480.22	1.45	ppb
Cadmium	106-1	481.77	479.68	485.20	482.22	0.58	ppb
Cadmium	111-1	451.47	450.42	459.63	453.84	1.11	ppb
Calcium	43-1	243458.72	250973.33	242109.69	245513.91	1.95	ppb
Calcium	44-1	243450.57	248991.13	245924.45	246122.05	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	479.26	470.29	475.30	474.95	0.95	ppb
Cobalt	59-2	497.75	494.00	496.20	495.98	0.38	ppb
Copper	63-2	4840.34	4782.41	4841.18	4821.31	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				88		%
Holmium	165-2				89		%
Indium	115-1				82		%
Indium	115-2				80		%
Iron	54-2	127347.21	125229.14	125866.09	126147.48	0.86	ppb
Iron	56-2	126053.56	124090.32	125429.93	125191.27	0.80	ppb
Iron	57-2	126518.56	124984.58	125389.65	125630.93	0.63	ppb
Krypton	83-1						cps
Lead	206-1	2551.51	2537.96	2578.40	2555.95	0.81	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2540.37	2538.75	2537.70	2538.94	0.05	ppb
Lead	208-1	2549.92	2541.96	2542.04	2544.64	0.18	ppb
Lithium	6-1				87		%
Magnesium	24-2	253595.64	248364.44	249179.91	250379.99	1.12	ppb
Manganese	55-2	5094.02	5011.56	5002.41	5036.00	1.00	ppb
Molybdenum	94-1	4998.44	5142.75	4984.79	5041.99	1.74	ppb
Molybdenum	95-1	4945.91	5146.08	4920.50	5004.16	2.47	ppb
Molybdenum	96-1	5065.84	5175.51	5010.57	5083.97	1.65	ppb
Molybdenum	97-1	5029.54	5145.33	5023.57	5066.15	1.35	ppb
Molybdenum	98-1	4995.01	5056.39	4972.63	5008.01	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	485.66	476.77	484.14	482.19	0.99	ppb
Phosphorus	31-2	9952.25	9752.15	9892.90	9865.77	1.04	ppb
Potassium	39-2	124459.96	121916.34	121488.32	122621.54	1.31	ppb
Rhodium	103-1				79		%
Rhodium	103-2				78		%
Scandium	45-1				87		%
Scandium	45-2				85		%
Selenium	82-1	483.49	480.20	475.34	479.68	0.86	ppb
Selenium	77-2	509.23	499.92	477.99	495.71	3.24	ppb
Selenium	78-2	502.24	486.12	497.44	495.27	1.67	ppb
Silicon	28-1	766.92	771.24	763.89	767.35	0.48	ppb
Silver	107-1	472.52	474.49	478.00	475.00	0.58	ppb
Silver	109-1	472.95	470.81	481.66	475.14	1.21	ppb
Sodium	23-2	250118.08	247355.29	246344.60	247939.32	0.79	ppb
Strontium	86-1	499.12	507.81	503.56	503.49	0.86	ppb
Strontium	88-1	502.82	510.62	498.25	503.90	1.24	ppb
Sulfur	34-1	11917.87	12299.79	11979.31	12065.66	1.70	ppb
Terbium	159-1				88		%
Terbium	159-2				88		%
Thallium	203-1	513.27	512.63	524.81	516.90	1.33	ppb
Thallium	205-1	521.81	515.23	515.70	517.58	0.71	ppb
Tin	118-1	492.41	503.32	504.32	500.01	1.32	ppb
Titanium	47-1	5012.65	5134.75	5077.12	5074.84	1.20	ppb
Uranium	238-1	518.32	519.46	516.24	518.01	0.32	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	488.66	484.85	484.37	485.96	0.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				85		%
Zinc	66-2	4581.89	4842.42	4618.10	4680.80	3.02	ppb
Zirconium	90-1	505.71	511.20	495.81	504.24	1.55	ppb
Zirconium	91-1	512.59	527.29	516.53	518.80	1.47	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.04	0.21	-0.14	0.01	1437.66	ppb
Antimony	121-1	0.01	0.01	0.02	0.02	17.74	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.05	0.03	0.05	0.04	18.78	ppb
Barium	137-1	0.03	0.05	0.05	0.05	24.63	ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	3.63	ppb
Bismuth	209-1				95		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.02	0.04	0.04	49.00	ppb
Cadmium	106-1	-2.28	-0.20	-1.37	-1.28		ppb
Cadmium	111-1	-0.04	0.00	-0.03	-0.02		ppb
Calcium	43-1	-0.49	-0.25	-0.50	-0.41		ppb
Calcium	44-1	-4.52	-4.12	-4.04	-4.23		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.02	-0.02	0.00		ppb
Cobalt	59-2	0.01	0.02	0.02	0.02	40.35	ppb
Copper	63-2	0.04	0.02	-0.03	0.01	488.02	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	54-2	0.94	0.94	0.53	0.80	29.86	ppb
Iron	56-2	0.41	0.64	0.11	0.39	68.73	ppb
Iron	57-2	-0.63	0.73	-0.14	-0.02		ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.03	0.03	13.64	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.03	0.04	7.75	ppb
Lead	208-1	0.04	0.03	0.03	0.03	14.76	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.09	-0.53	-0.29	-0.30		ppb
Manganese	55-2	0.15	0.13	0.17	0.15	13.83	ppb
Molybdenum	94-1	0.01	0.02	-0.01	0.01	195.68	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.02	34.94	ppb
Molybdenum	96-1	0.01	0.02	0.00	0.01	60.97	ppb
Molybdenum	97-1	0.01	0.02	0.01	0.01	41.73	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	6.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.05	0.04	0.01	623.79	ppb
Phosphorus	31-2	-11.54	-18.91	-18.28	-16.24		ppb
Potassium	39-2	5.75	8.01	3.65	5.81	37.59	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	0.48	0.20	0.26	0.32	46.52	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.16	-0.53	-0.40		ppb
Silicon	28-1	-0.95	-0.71	-0.73	-0.80		ppb
Silver	107-1	0.00	0.01	0.01	0.01	44.46	ppb
Silver	109-1	0.00	0.00	0.00	0.00	25.39	ppb
Sodium	23-2	2.87	4.61	1.21	2.90	58.58	ppb
Strontium	86-1	-0.02	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-662.22	-483.85	-477.39	-541.16		ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.02	0.01	23.75	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	8.51	ppb
Tin	118-1	0.00	0.00	0.00	0.00		ppb
Titanium	47-1	0.02	0.02	0.02	0.02	10.84	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	6341.11	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.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				94		%
Yttrium	89-2				90		%
Zinc	66-2	0.38	0.26	0.24	0.29	24.71	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	-0.01	0.01	0.00	559.53	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.21	-0.31	0.40	-0.04		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.21	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.00	0.03	0.01	0.02	83.46	ppb
Barium	137-1	0.01	0.02	0.02	0.01	38.58	ppb
Beryllium	9-1	0.05	0.06	0.05	0.05	9.67	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.03	0.13	0.04	204.36	ppb
Cadmium	106-1	-2.00	-1.78	-1.91	-1.89		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	-0.16	-0.24	-0.32	-0.24		ppb
Calcium	44-1	-4.20	-4.49	-3.65	-4.11		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.00	0.00	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	45.93	ppb
Copper	63-2	-0.02	-0.09	0.01	-0.03		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	0.43	0.72	0.29	0.48	45.17	ppb
Iron	56-2	0.23	0.43	0.45	0.37	32.15	ppb
Iron	57-2	0.23	0.47	0.53	0.41	39.48	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.01	0.03	0.02	41.64	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.01	0.02	47.77	ppb
Lead	208-1	0.03	0.02	0.02	0.02	16.05	ppb
Lithium	6-1				98		%
Magnesium	24-2	-0.73	-0.01	-0.19	-0.31		ppb
Manganese	55-2	0.13	0.14	0.12	0.13	8.59	ppb
Molybdenum	94-1	0.02	0.01	0.01	0.02	39.29	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	24.18	ppb
Molybdenum	96-1	0.02	0.01	0.01	0.01	18.57	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	75.07	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	16.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.02	-0.09	-0.02		ppb
Phosphorus	31-2	-27.58	-32.03	-23.93	-27.85		ppb
Potassium	39-2	1.38	6.69	2.68	3.58	77.31	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	-0.14	-0.19	0.22	-0.04		ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	1.76	0.53	-0.53	0.59	194.73	ppb
Silicon	28-1	-0.84	-1.12	-0.74	-0.90		ppb
Silver	107-1	0.01	0.01	0.01	0.01	12.36	ppb
Silver	109-1	0.00	0.00	0.00	0.00	30.20	ppb
Sodium	23-2	0.61	1.47	0.82	0.97	45.99	ppb
Strontium	86-1	-0.01	0.01	0.00	0.00	794.24	ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-535.50	-727.56	-392.28	-551.78		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.01	0.01	0.01	56.69	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.99	ppb
Tin	118-1	0.01	-0.01	0.00	0.00	708.14	ppb
Titanium	47-1	0.02	0.01	0.00	0.01	133.40	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	81.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				92		%
Zinc	66-2	0.13	0.46	0.22	0.27	63.50	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	80.03	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.85	39.68	37.76	40.76	8.99	ppb
Antimony	121-1	4.39	3.92	3.93	4.08	6.51	ppb
Arsenic	75-2	2.38	2.00	1.65	2.01	18.05	ppb
Barium	135-1	22.09	19.86	19.40	20.45	7.04	ppb
Barium	137-1	21.94	20.35	19.68	20.65	5.61	ppb
Beryllium	9-1	2.13	2.00	2.01	2.05	3.46	ppb
Bismuth	209-1				89		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.14	2.13	2.22	2.16	2.36	ppb
Cadmium	106-1	0.63	1.60	0.99	1.07	45.75	ppb
Cadmium	111-1	2.20	2.02	2.01	2.08	5.01	ppb
Calcium	43-1	1114.71	1017.83	1005.41	1045.99	5.72	ppb
Calcium	44-1	1102.25	1007.79	996.35	1035.46	5.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.76	3.58	3.27	3.54	6.96	ppb
Cobalt	59-2	2.06	1.85	1.73	1.88	8.85	ppb
Copper	63-2	4.53	4.14	3.87	4.18	7.91	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				88		%
Holmium	165-2				102		%
Indium	115-1				89		%
Indium	115-2				98		%
Iron	54-2	428.34	395.33	357.27	393.65	9.03	ppb
Iron	56-2	422.85	394.52	365.18	394.18	7.32	ppb
Iron	57-2	423.10	385.80	353.18	387.36	9.03	ppb
Krypton	83-1						cps
Lead	206-1	2.22	1.97	1.94	2.05	7.57	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.23	2.00	1.96	2.06	6.91	ppb
Lead	208-1	2.23	2.00	1.96	2.06	7.24	ppb
Lithium	6-1				96		%
Magnesium	24-2	1003.52	925.34	842.19	923.68	8.73	ppb
Manganese	55-2	2.15	2.21	1.87	2.08	8.84	ppb
Molybdenum	94-1	12.63	11.76	11.68	12.02	4.35	ppb
Molybdenum	95-1	10.78	9.89	9.63	10.10	5.98	ppb
Molybdenum	96-1	10.74	10.04	9.84	10.21	4.65	ppb
Molybdenum	97-1	10.68	10.00	9.93	10.20	4.06	ppb
Molybdenum	98-1	10.45	9.87	9.65	9.99	4.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.22	1.94	1.62	1.93	15.44	ppb
Phosphorus	31-2	16.51	30.15	7.72	18.13	62.35	ppb
Potassium	39-2	990.58	902.37	823.61	905.52	9.22	ppb
Rhodium	103-1				88		%
Rhodium	103-2				100		%
Scandium	45-1				89		%
Scandium	45-2				96		%
Selenium	82-1	10.80	9.50	10.64	10.31	6.90	ppb
Selenium	77-2	12.77	14.29	7.43	11.50	31.33	ppb
Selenium	78-2	8.25	11.18	8.93	9.46	16.20	ppb
Silicon	28-1	6.35	5.00	5.28	5.54	12.84	ppb
Silver	107-1	2.18	1.97	1.98	2.04	5.83	ppb
Silver	109-1	2.18	1.99	2.00	2.06	5.05	ppb
Sodium	23-2	1012.87	931.49	852.66	932.34	8.59	ppb
Strontium	86-1	2.09	1.84	1.82	1.92	7.91	ppb
Strontium	88-1	2.05	1.90	1.88	1.94	4.90	ppb
Sulfur	34-1	301.00	-260.63	-278.16	-79.26		ppb
Terbium	159-1				88		%
Terbium	159-2				100		%
Thallium	203-1	2.16	1.90	1.84	1.96	8.63	ppb
Thallium	205-1	2.13	1.90	1.88	1.97	6.92	ppb
Tin	118-1	10.93	10.12	9.94	10.33	5.09	ppb
Titanium	47-1	12.17	10.98	10.76	11.31	6.70	ppb
Uranium	238-1	2.05	1.81	1.78	1.88	7.87	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.79	8.72	8.33	8.95	8.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				101		%
Zinc	66-2	11.10	10.07	9.15	10.11	9.66	ppb
Zirconium	90-1	2.14	2.00	1.90	2.01	5.97	ppb
Zirconium	91-1	2.18	2.01	1.97	2.05	5.55	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.79	15.69	13.62	14.04	10.64	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	11.69	ppb
Arsenic	75-2	0.20	0.43	0.13	0.26	60.76	ppb
Barium	135-1	112.21	116.67	115.02	114.63	1.97	ppb
Barium	137-1	113.04	117.48	116.05	115.52	1.96	ppb
Beryllium	9-1	0.42	0.40	0.42	0.42	2.55	ppb
Bismuth	209-1				87		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.94	1.13	0.78	0.95	18.29	ppb
Cadmium	106-1	-0.87	0.05	0.19	-0.21		ppb
Cadmium	111-1	0.91	0.98	1.05	0.98	7.16	ppb
Calcium	43-1	47736.90	47580.96	47750.45	47689.43	0.20	ppb
Calcium	44-1	47252.61	47170.02	47236.25	47219.62	0.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.95	4.88	4.92	4.92	0.64	ppb
Cobalt	59-2	2.03	1.93	1.89	1.95	3.64	ppb
Copper	63-2	0.38	0.43	0.34	0.39	11.67	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				92		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	54-2	23.98	21.03	22.07	22.36	6.70	ppb
Iron	56-2	17.20	17.19	17.00	17.13	0.68	ppb
Iron	57-2	20.19	17.96	16.77	18.31	9.49	ppb
Krypton	83-1						cps
Lead	206-1	0.48	0.44	0.42	0.45	7.35	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.46	0.41	0.38	0.42	10.68	ppb
Lead	208-1	0.46	0.41	0.39	0.42	8.88	ppb
Lithium	6-1				96		%
Magnesium	24-2	25000.96	24689.19	24429.03	24706.39	1.16	ppb
Manganese	55-2	1655.66	1620.20	1595.21	1623.69	1.87	ppb
Molybdenum	94-1	0.11	0.12	0.12	0.12	7.09	ppb
Molybdenum	95-1	0.12	0.12	0.12	0.12	2.83	ppb
Molybdenum	96-1	0.11	0.09	0.11	0.10	14.63	ppb
Molybdenum	97-1	0.11	0.11	0.11	0.11	1.10	ppb
Molybdenum	98-1	0.10	0.11	0.11	0.11	4.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.84	10.02	9.80	9.88	1.18	ppb
Phosphorus	31-2	-14.22	-12.77	-17.85	-14.95		ppb
Potassium	39-2	4767.40	4685.67	4705.35	4719.47	0.90	ppb
Rhodium	103-1				87		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	3.08	3.45	4.24	3.59	16.49	ppb
Selenium	77-2	6.70	10.34	9.07	8.71	21.22	ppb
Selenium	78-2	2.59	2.97	5.02	3.53	37.04	ppb
Silicon	28-1	1210.43	1207.90	1216.48	1211.60	0.36	ppb
Silver	107-1	0.04	0.03	0.03	0.03	23.64	ppb
Silver	109-1	0.03	0.03	0.02	0.02	17.82	ppb
Sodium	23-2	67573.19	66827.29	65699.77	66700.09	1.41	ppb
Strontium	86-1	293.43	299.06	307.46	299.98	2.35	ppb
Strontium	88-1	311.41	314.57	322.19	316.06	1.75	ppb
Sulfur	34-1	12496.69	12570.56	12512.19	12526.48	0.31	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	0.52	0.52	0.52	0.52	0.63	ppb
Thallium	205-1	0.52	0.54	0.53	0.53	1.26	ppb
Tin	118-1	0.41	0.42	0.42	0.42	1.35	ppb
Titanium	47-1	0.69	0.79	0.69	0.72	7.81	ppb
Uranium	238-1	0.01	0.00	0.01	0.01	6.19	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.04	0.05	18.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	9.81	9.76	9.97	9.85	1.11	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	17.68	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	21.32	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	131.83	129.05	139.87	133.58	4.21	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	2.02	ppb
Arsenic	75-2	0.32	0.27	0.30	0.30	9.09	ppb
Barium	135-1	108.94	107.06	115.16	110.39	3.84	ppb
Barium	137-1	109.45	107.90	116.34	111.23	4.04	ppb
Beryllium	9-1	0.12	0.12	0.12	0.12	2.13	ppb
Bismuth	209-1				87		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.11	0.05	0.07	49.54	ppb
Cadmium	106-1	-0.52	-2.33	0.14	-0.90		ppb
Cadmium	111-1	0.06	0.00	0.07	0.04	80.14	ppb
Calcium	43-1	26492.76	26264.70	28305.11	27020.86	4.14	ppb
Calcium	44-1	27687.00	27308.62	29303.65	28099.76	3.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.13	1.13	1.19	1.15	3.16	ppb
Cobalt	59-2	0.17	0.19	0.15	0.17	11.66	ppb
Copper	63-2	0.18	0.19	0.21	0.19	8.12	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				90		%
Holmium	165-2				95		%
Indium	115-1				89		%
Indium	115-2				91		%
Iron	54-2	334.47	338.74	344.57	339.26	1.49	ppb
Iron	56-2	338.53	340.76	336.76	338.68	0.59	ppb
Iron	57-2	329.63	336.58	330.20	332.14	1.16	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.13	0.12	0.13	12.06	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.13	0.14	0.13	6.57	ppb
Lead	208-1	0.13	0.13	0.14	0.13	1.86	ppb
Lithium	6-1				95		%
Magnesium	24-2	17313.91	17200.49	17331.24	17281.88	0.41	ppb
Manganese	55-2	8.03	8.14	7.85	8.00	1.83	ppb
Molybdenum	94-1	0.34	0.38	0.41	0.38	9.83	ppb
Molybdenum	95-1	0.08	0.07	0.09	0.08	9.33	ppb
Molybdenum	96-1	0.13	0.14	0.12	0.13	8.70	ppb
Molybdenum	97-1	0.08	0.08	0.10	0.08	11.79	ppb
Molybdenum	98-1	0.09	0.09	0.10	0.10	7.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.85	0.80	0.87	0.84	4.59	ppb
Phosphorus	31-2	-7.48	-9.04	-19.72	-12.08		ppb
Potassium	39-2	3255.12	3276.54	3235.31	3255.66	0.63	ppb
Rhodium	103-1				87		%
Rhodium	103-2				91		%
Scandium	45-1				90		%
Scandium	45-2				91		%
Selenium	82-1	4.60	4.50	5.21	4.77	8.08	ppb
Selenium	77-2	5.46	16.99	7.77	10.07	60.56	ppb
Selenium	78-2	4.61	9.00	6.65	6.76	32.53	ppb
Silicon	28-1	1108.31	1073.17	1164.34	1115.27	4.12	ppb
Silver	107-1	0.01	0.01	0.01	0.01	1.52	ppb
Silver	109-1	0.00	0.01	0.00	0.00	22.05	ppb
Sodium	23-2	23178.40	23030.72	23132.87	23114.00	0.33	ppb
Strontium	86-1	112.99	112.83	118.54	114.79	2.83	ppb
Strontium	88-1	120.14	119.63	127.12	122.30	3.42	ppb
Sulfur	34-1	14726.70	14610.05	15905.62	15080.79	4.75	ppb
Terbium	159-1				90		%
Terbium	159-2				95		%
Thallium	203-1	0.04	0.04	0.05	0.04	15.46	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	9.92	ppb
Tin	118-1	0.15	0.12	0.16	0.14	11.54	ppb
Titanium	47-1	3.66	3.63	3.83	3.70	2.88	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	8.69	ppb

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.48	0.46	0.51	0.48	4.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				93		%
Zinc	66-2	3.01	3.37	3.19	3.19	5.55	ppb
Zirconium	90-1	0.17	0.16	0.16	0.16	3.44	ppb
Zirconium	91-1	0.17	0.19	0.19	0.19	6.04	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	143.06	144.77	145.44	144.43	0.85	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	17.86	ppb
Arsenic	75-2	0.19	0.21	0.24	0.21	12.24	ppb
Barium	135-1	107.38	107.71	107.76	107.62	0.19	ppb
Barium	137-1	109.13	109.45	107.79	108.79	0.81	ppb
Beryllium	9-1	0.11	0.12	0.11	0.11	4.35	ppb
Bismuth	209-1				90		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.13	-0.02	0.10	0.07	121.39	ppb
Cadmium	106-1	-0.21	-0.40	-0.38	-0.33		ppb
Cadmium	111-1	0.05	0.06	0.04	0.05	21.31	ppb
Calcium	43-1	25897.51	26368.75	26674.72	26313.66	1.49	ppb
Calcium	44-1	26828.83	27127.23	27676.78	27210.95	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.27	1.22	1.14	1.21	5.42	ppb
Cobalt	59-2	0.18	0.18	0.21	0.19	7.04	ppb
Copper	63-2	0.23	0.28	0.24	0.25	11.17	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				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				89		%
Iron	54-2	343.31	349.65	346.72	346.56	0.92	ppb
Iron	56-2	346.35	348.13	347.39	347.29	0.26	ppb
Iron	57-2	355.45	339.61	344.93	346.66	2.33	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.13	0.12	0.12	7.90	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.11	0.11	5.58	ppb
Lead	208-1	0.11	0.11	0.11	0.11	1.78	ppb
Lithium	6-1				96		%
Magnesium	24-2	18102.11	17795.04	17682.95	17860.03	1.22	ppb
Manganese	55-2	7.60	7.76	7.65	7.67	1.05	ppb
Molybdenum	94-1	0.36	0.32	0.37	0.35	7.46	ppb
Molybdenum	95-1	0.08	0.08	0.09	0.08	7.48	ppb
Molybdenum	96-1	0.11	0.12	0.12	0.12	6.23	ppb
Molybdenum	97-1	0.09	0.09	0.10	0.09	8.19	ppb
Molybdenum	98-1	0.09	0.08	0.09	0.09	4.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.77	0.77	0.88	0.81	7.89	ppb
Phosphorus	31-2	-1.76	-6.77	-5.04	-4.52		ppb
Potassium	39-2	3332.03	3301.66	3296.86	3310.18	0.58	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				93		%
Scandium	45-2				88		%
Selenium	82-1	4.30	4.49	4.40	4.40	2.13	ppb
Selenium	77-2	5.58	9.15	3.18	5.97	50.32	ppb
Selenium	78-2	4.01	4.02	4.34	4.12	4.48	ppb
Silicon	28-1	1080.63	1083.01	1090.66	1084.77	0.48	ppb
Silver	107-1	0.00	0.01	0.01	0.01	46.68	ppb
Silver	109-1	0.00	0.00	0.00	0.00	51.36	ppb
Sodium	23-2	24190.46	23408.59	23676.54	23758.53	1.67	ppb
Strontium	86-1	112.29	111.40	112.43	112.04	0.50	ppb
Strontium	88-1	119.78	119.53	119.01	119.44	0.33	ppb
Sulfur	34-1	14133.24	14381.80	14459.55	14324.86	1.19	ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.04	0.03	0.04	0.03	7.24	ppb
Thallium	205-1	0.03	0.04	0.04	0.04	5.06	ppb
Tin	118-1	0.14	0.12	0.13	0.13	5.89	ppb
Titanium	47-1	3.68	3.66	3.66	3.67	0.31	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	6.08	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.52	0.51	0.55	0.53	4.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				91		%
Zinc	66-2	3.06	3.33	3.04	3.14	5.10	ppb
Zirconium	90-1	0.15	0.16	0.16	0.16	3.02	ppb
Zirconium	91-1	0.15	0.19	0.16	0.17	13.95	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.63	32.50	30.79	33.64	10.59	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	33.32	ppb
Arsenic	75-2	0.02	0.09	0.05	0.05	69.55	ppb
Barium	135-1	21.40	21.62	21.45	21.49	0.53	ppb
Barium	137-1	21.65	21.72	21.64	21.67	0.22	ppb
Beryllium	9-1	0.04	0.04	0.05	0.04	14.42	ppb
Bismuth	209-1				93		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.02	0.03	0.02	80.98	ppb
Cadmium	106-1	-1.54	-1.50	-2.13	-1.73		ppb
Cadmium	111-1	-0.02	-0.02	-0.04	-0.03		ppb
Calcium	43-1	5312.76	5359.05	5392.13	5354.65	0.74	ppb
Calcium	44-1	5554.63	5578.95	5579.61	5571.06	0.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.34	0.31	0.22	0.29	20.65	ppb
Cobalt	59-2	0.05	0.03	0.04	0.04	19.50	ppb
Copper	63-2	0.03	-0.03	-0.09	-0.03		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				87		%
Indium	115-1				93		%
Indium	115-2				83		%
Iron	54-2	84.81	80.22	70.39	78.47	9.39	ppb
Iron	56-2	85.14	78.59	68.31	77.35	10.97	ppb
Iron	57-2	83.70	76.15	66.47	75.44	11.45	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.04	0.04	0.04	13.90	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.02	0.04	29.40	ppb
Lead	208-1	0.04	0.04	0.03	0.04	8.26	ppb
Lithium	6-1				97		%
Magnesium	24-2	4122.71	3816.81	3368.42	3769.31	10.06	ppb
Manganese	55-2	1.91	1.85	1.72	1.83	5.30	ppb
Molybdenum	94-1	0.08	0.09	0.08	0.09	5.01	ppb
Molybdenum	95-1	0.03	0.02	0.02	0.02	22.93	ppb
Molybdenum	96-1	0.02	0.03	0.03	0.03	21.64	ppb
Molybdenum	97-1	0.01	0.01	0.02	0.02	32.55	ppb
Molybdenum	98-1	0.02	0.02	0.03	0.02	18.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.12	0.09	0.09	0.10	12.07	ppb
Phosphorus	31-2	-12.28	-17.66	-5.75	-11.90		ppb
Potassium	39-2	800.68	749.63	661.15	737.15	9.58	ppb
Rhodium	103-1				92		%
Rhodium	103-2				84		%
Scandium	45-1				93		%
Scandium	45-2				82		%
Selenium	82-1	1.32	1.18	1.10	1.20	9.61	ppb
Selenium	77-2	1.06	-0.36	1.97	0.89	132.10	ppb
Selenium	78-2	1.15	1.42	1.53	1.37	14.52	ppb
Silicon	28-1	214.71	218.43	219.04	217.39	1.08	ppb
Silver	107-1	0.00	0.00	0.00	0.00	102.90	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	5768.65	5364.67	4648.63	5260.65	10.78	ppb
Strontium	86-1	23.52	22.61	22.81	22.98	2.08	ppb
Strontium	88-1	23.51	22.95	22.95	23.14	1.40	ppb
Sulfur	34-1	2872.89	2883.33	2936.54	2897.59	1.18	ppb
Terbium	159-1				93		%
Terbium	159-2				86		%
Thallium	203-1	0.02	0.02	0.01	0.01	11.57	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.40	ppb
Tin	118-1	0.04	0.04	0.03	0.03	17.99	ppb
Titanium	47-1	0.76	0.74	0.81	0.77	4.64	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	3.21	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.11	0.09	0.10	11.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				83		%
Zinc	66-2	1.42	0.79	0.82	1.01	35.53	ppb
Zirconium	90-1	0.03	0.03	0.04	0.03	12.49	ppb
Zirconium	91-1	0.05	0.03	0.02	0.03	46.73	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2066.41	2090.97	2080.42	2079.26	0.59	ppb
Antimony	121-1	100.53	92.41	96.56	96.50	4.21	ppb
Arsenic	75-2	39.47	38.95	40.69	39.70	2.25	ppb
Barium	135-1	2298.85	2082.96	2134.61	2172.14	5.19	ppb
Barium	137-1	2263.81	2054.65	2145.37	2154.61	4.87	ppb
Beryllium	9-1	48.77	45.30	46.54	46.87	3.76	ppb
Bismuth	209-1				91		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	43.91	39.67	41.28	41.62	5.14	ppb
Cadmium	106-1	41.50	37.98	39.04	39.51	4.57	ppb
Cadmium	111-1	50.83	46.49	48.37	48.56	4.48	ppb
Calcium	43-1	27201.56	24973.04	25663.72	25946.11	4.40	ppb
Calcium	44-1	27952.83	25528.46	26518.75	26666.68	4.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	195.48	199.08	197.56	197.37	0.91	ppb
Cobalt	59-2	520.88	528.03	527.74	525.55	0.77	ppb
Copper	63-2	261.14	263.93	264.64	263.24	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				93		%
Holmium	165-2				96		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	1575.46	1566.60	1573.47	1571.84	0.30	ppb
Iron	56-2	1488.95	1516.30	1470.51	1491.92	1.54	ppb
Iron	57-2	1391.51	1396.22	1391.92	1393.21	0.19	ppb
Krypton	83-1						cps
Lead	206-1	20.46	18.57	19.24	19.42	4.95	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.42	18.64	18.98	19.35	4.87	ppb
Lead	208-1	20.47	18.59	19.16	19.41	4.98	ppb
Lithium	6-1				98		%
Magnesium	24-2	16974.18	17132.81	17278.66	17128.55	0.89	ppb
Manganese	55-2	505.68	503.09	507.36	505.38	0.43	ppb
Molybdenum	94-1	0.45	0.42	1.19	0.69	63.88	ppb
Molybdenum	95-1	0.16	0.16	0.16	0.16	1.63	ppb
Molybdenum	96-1	0.21	0.19	0.21	0.21	6.14	ppb
Molybdenum	97-1	0.14	0.13	0.12	0.13	9.05	ppb
Molybdenum	98-1	0.17	0.16	0.15	0.16	7.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	525.45	529.47	528.83	527.91	0.41	ppb
Phosphorus	31-2	-21.70	-4.95	-6.37	-11.01		ppb
Potassium	39-2	3187.37	3245.92	3261.18	3231.49	1.21	ppb
Rhodium	103-1				91		%
Rhodium	103-2				92		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	105.58	98.16	97.86	100.54	4.35	ppb
Selenium	77-2	111.03	100.29	108.01	106.44	5.21	ppb
Selenium	78-2	115.55	101.79	112.61	109.98	6.59	ppb
Silicon	28-1	1125.30	1030.35	1061.73	1072.46	4.51	ppb
Silver	107-1	50.76	46.52	48.38	48.55	4.38	ppb
Silver	109-1	50.68	46.71	48.85	48.75	4.08	ppb
Sodium	23-2	22697.34	22658.23	23270.83	22875.47	1.50	ppb
Strontium	86-1	115.82	106.40	106.77	109.66	4.87	ppb
Strontium	88-1	122.56	111.07	114.36	116.00	5.10	ppb
Sulfur	34-1	14845.93	12916.31	12851.76	13538.00	8.37	ppb
Terbium	159-1				93		%
Terbium	159-2				96		%
Thallium	203-1	49.76	45.14	46.20	47.03	5.14	ppb
Thallium	205-1	49.30	45.03	45.93	46.75	4.82	ppb
Tin	118-1	0.33	0.27	0.31	0.30	9.00	ppb
Titanium	47-1	4.52	3.51	3.95	3.99	12.74	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	15.71	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	481.89	487.88	487.40	485.72	0.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				94		%
Zinc	66-2	503.36	505.33	508.14	505.61	0.47	ppb
Zirconium	90-1	0.18	0.16	0.18	0.17	7.12	ppb
Zirconium	91-1	0.19	0.18	0.19	0.19	3.36	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.67	6.69	6.03	6.46	5.77	ppb
Antimony	121-1	0.03	0.02	0.03	0.03	17.34	ppb
Arsenic	75-2	0.50	0.31	0.40	0.40	23.62	ppb
Barium	135-1	110.73	101.30	108.26	106.76	4.58	ppb
Barium	137-1	111.80	102.52	108.55	107.62	4.37	ppb
Beryllium	9-1	0.11	0.10	0.12	0.11	6.53	ppb
Bismuth	209-1				90		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.46	0.45	0.42	13.61	ppb
Cadmium	106-1	-1.42	-0.52	-0.79	-0.91		ppb
Cadmium	111-1	0.49	0.44	0.49	0.48	6.16	ppb
Calcium	43-1	31258.81	28679.62	29710.02	29882.82	4.34	ppb
Calcium	44-1	30804.17	28098.80	30233.77	29712.24	4.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.77	0.75	0.71	0.74	4.43	ppb
Cobalt	59-2	5.61	5.40	5.12	5.38	4.63	ppb
Copper	63-2	0.29	0.44	0.34	0.36	20.54	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				93		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				90		%
Iron	54-2	784.94	783.99	761.85	776.93	1.68	ppb
Iron	56-2	794.05	785.95	762.12	780.71	2.13	ppb
Iron	57-2	780.81	760.35	730.50	757.22	3.34	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.09	0.09	0.09	5.28	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.08	0.10	0.10	15.17	ppb
Lead	208-1	0.11	0.09	0.10	0.10	8.33	ppb
Lithium	6-1				98		%
Magnesium	24-2	28876.58	28366.31	27333.45	28192.11	2.79	ppb
Manganese	55-2	984.97	981.61	944.25	970.27	2.33	ppb
Molybdenum	94-1	0.12	0.11	0.12	0.11	4.09	ppb
Molybdenum	95-1	0.12	0.11	0.11	0.11	3.37	ppb
Molybdenum	96-1	0.10	0.09	0.10	0.10	8.68	ppb
Molybdenum	97-1	0.08	0.10	0.09	0.09	10.93	ppb
Molybdenum	98-1	0.10	0.08	0.08	0.09	8.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.51	1.31	1.10	1.31	15.77	ppb
Phosphorus	31-2	-4.95	5.59	-10.76	-3.37		ppb
Potassium	39-2	2520.46	2520.55	2449.03	2496.68	1.65	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	0.49	0.80	0.98	0.76	32.39	ppb
Selenium	77-2	0.82	7.94	5.34	4.70	76.64	ppb
Selenium	78-2	0.87	1.22	1.49	1.19	26.23	ppb
Silicon	28-1	2005.49	1839.90	1966.64	1937.34	4.47	ppb
Silver	107-1	0.04	0.03	0.03	0.03	13.08	ppb
Silver	109-1	0.04	0.03	0.02	0.03	27.46	ppb
Sodium	23-2	39383.89	39575.70	38521.64	39160.41	1.43	ppb
Strontium	86-1	164.92	152.55	162.82	160.10	4.14	ppb
Strontium	88-1	176.70	162.06	169.58	169.45	4.32	ppb
Sulfur	34-1	21646.18	19004.47	21076.60	20575.75	6.76	ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.17	0.15	0.17	0.16	7.78	ppb
Thallium	205-1	0.16	0.14	0.15	0.15	7.21	ppb
Tin	118-1	3.94	3.44	3.73	3.70	6.83	ppb
Titanium	47-1	0.91	0.90	0.94	0.92	2.26	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	6.62	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.06	0.07	0.06	0.06	9.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				92		%
Zinc	66-2	15.64	14.04	13.71	14.46	7.13	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	30.10	ppb
Zirconium	91-1	0.03	0.01	0.02	0.02	27.20	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.26	4.96	3.50	4.24	17.12	ppb
Antimony	121-1	0.01	0.01	0.00	0.01	38.30	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	409.01	ppb
Barium	135-1	0.13	0.13	0.16	0.14	13.02	ppb
Barium	137-1	0.14	0.12	0.15	0.14	10.76	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	11.25	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.07	-0.02	0.02	0.02	215.62	ppb
Cadmium	106-1	-1.18	-1.61	-1.47	-1.42		ppb
Cadmium	111-1	-0.02	-0.02	-0.03	-0.03		ppb
Calcium	43-1	11.27	11.22	13.53	12.01	10.99	ppb
Calcium	44-1	9.60	10.35	11.20	10.38	7.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.61	0.57	0.60	0.59	4.01	ppb
Cobalt	59-2	0.03	0.05	0.05	0.04	19.11	ppb
Copper	63-2	0.15	0.18	0.12	0.15	19.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	54-2	15.92	15.85	15.22	15.67	2.47	ppb
Iron	56-2	15.27	15.44	15.44	15.38	0.66	ppb
Iron	57-2	13.88	16.02	14.29	14.73	7.70	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.05	0.05	0.04	23.92	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.05	0.04	0.05	9.39	ppb
Lead	208-1	0.04	0.04	0.05	0.04	8.66	ppb
Lithium	6-1				96		%
Magnesium	24-2	2.18	2.16	1.53	1.96	19.03	ppb
Manganese	55-2	8.82	8.96	9.12	8.96	1.67	ppb
Molybdenum	94-1	0.06	0.06	0.09	0.07	27.94	ppb
Molybdenum	95-1	0.06	0.05	0.07	0.06	10.45	ppb
Molybdenum	96-1	0.06	0.06	0.06	0.06	5.42	ppb
Molybdenum	97-1	0.05	0.06	0.06	0.06	15.25	ppb
Molybdenum	98-1	0.05	0.07	0.05	0.05	19.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.20	0.29	0.26	18.03	ppb
Phosphorus	31-2	-20.98	-28.83	-14.43	-21.41		ppb
Potassium	39-2	7.54	6.69	9.14	7.79	15.99	ppb
Rhodium	103-1				93		%
Rhodium	103-2				91		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	0.09	0.17	0.11	0.12	33.03	ppb
Selenium	77-2	-0.36	0.84	-0.36	0.04	1703.01	ppb
Selenium	78-2	-0.17	0.54	0.54	0.30	134.73	ppb
Silicon	28-1	1.36	1.71	2.00	1.69	19.19	ppb
Silver	107-1	0.01	0.01	0.01	0.01	24.46	ppb
Silver	109-1	0.00	0.01	0.00	0.00	40.35	ppb
Sodium	23-2	48.39	48.07	49.39	48.62	1.42	ppb
Strontium	86-1	0.03	0.02	0.00	0.02	87.03	ppb
Strontium	88-1	0.03	0.03	0.03	0.03	11.56	ppb
Sulfur	34-1	-644.18	-608.04	-448.26	-566.83		ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.02	0.01	10.24	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	14.24	ppb
Tin	118-1	2.97	3.02	2.93	2.97	1.50	ppb
Titanium	47-1	0.08	0.06	0.06	0.07	18.90	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	115.57	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	104.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				89		%
Zinc	66-2	4.07	3.83	3.53	3.81	7.04	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	108.16	ppb
Zirconium	91-1	0.01	0.00	0.01	0.00	36.91	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.34	36.53	32.24	35.70	8.78	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	21.34	ppb
Arsenic	75-2	0.10	0.17	0.08	0.12	38.98	ppb
Barium	135-1	93.36	95.58	97.46	95.46	2.15	ppb
Barium	137-1	93.92	96.86	98.62	96.47	2.46	ppb
Beryllium	9-1	0.10	0.09	0.11	0.10	7.84	ppb
Bismuth	209-1				90		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.17	0.19	0.13	0.16	17.01	ppb
Cadmium	106-1	-2.12	-1.45	-2.36	-1.98		ppb
Cadmium	111-1	0.08	0.09	0.07	0.08	15.08	ppb
Calcium	43-1	15933.36	16498.34	17245.08	16558.93	3.97	ppb
Calcium	44-1	16389.65	17166.47	17825.51	17127.21	4.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.49	1.46	1.48	1.48	1.05	ppb
Cobalt	59-2	1.46	1.48	1.44	1.46	1.38	ppb
Copper	63-2	0.24	0.19	0.23	0.22	10.01	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				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	54-2	472.48	475.62	477.93	475.35	0.58	ppb
Iron	56-2	479.86	478.20	475.59	477.88	0.45	ppb
Iron	57-2	486.10	477.27	464.94	476.10	2.23	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.10	0.10	0.09	20.68	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.09	0.08	0.09	11.74	ppb
Lead	208-1	0.09	0.10	0.09	0.09	6.14	ppb
Lithium	6-1				96		%
Magnesium	24-2	13576.31	12981.79	12973.88	13177.33	2.62	ppb
Manganese	55-2	234.09	234.95	234.03	234.36	0.22	ppb
Molybdenum	94-1	0.12	0.10	0.13	0.12	11.77	ppb
Molybdenum	95-1	0.10	0.10	0.10	0.10	3.67	ppb
Molybdenum	96-1	0.12	0.10	0.09	0.10	12.19	ppb
Molybdenum	97-1	0.10	0.09	0.08	0.09	8.60	ppb
Molybdenum	98-1	0.09	0.10	0.11	0.10	14.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.04	4.87	4.74	4.89	3.09	ppb
Phosphorus	31-2	-11.47	-13.34	-27.46	-17.42		ppb
Potassium	39-2	1763.69	1765.39	1737.96	1755.68	0.88	ppb
Rhodium	103-1				90		%
Rhodium	103-2				91		%
Scandium	45-1				92		%
Scandium	45-2				89		%
Selenium	82-1	2.22	2.03	2.98	2.41	20.87	ppb
Selenium	77-2	4.36	0.82	2.00	2.39	75.41	ppb
Selenium	78-2	1.21	2.25	3.64	2.37	51.46	ppb
Silicon	28-1	1063.71	1094.82	1116.33	1091.62	2.42	ppb
Silver	107-1	0.01	0.01	0.00	0.01	35.62	ppb
Silver	109-1	0.00	0.00	0.00	0.00	65.94	ppb
Sodium	23-2	18245.26	17981.74	17939.31	18055.44	0.92	ppb
Strontium	86-1	119.32	121.17	123.10	121.19	1.56	ppb
Strontium	88-1	124.01	128.57	131.52	128.03	2.96	ppb
Sulfur	34-1	15307.47	15698.51	16115.60	15707.19	2.57	ppb
Terbium	159-1				92		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.10	0.11	0.11	1.68	ppb
Thallium	205-1	0.10	0.10	0.11	0.10	4.57	ppb
Tin	118-1	0.19	0.17	0.18	0.18	7.40	ppb
Titanium	47-1	1.13	1.15	1.22	1.17	4.14	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	17.38	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.11	0.10	0.08	0.10	12.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				91		%
Zinc	66-2	3.64	3.47	3.22	3.44	6.18	ppb
Zirconium	90-1	0.03	0.02	0.03	0.03	12.84	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	23.54	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1182.80	1229.11	1190.47	1200.79	2.07	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	20.67	ppb
Arsenic	75-2	0.29	0.57	0.42	0.43	33.00	ppb
Barium	135-1	90.65	91.24	91.69	91.19	0.57	ppb
Barium	137-1	91.96	92.18	93.08	92.41	0.64	ppb
Beryllium	9-1	0.18	0.18	0.19	0.19	4.60	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.01	0.14	0.08	85.04	ppb
Cadmium	106-1	-0.57	-1.06	-1.36	-1.00		ppb
Cadmium	111-1	0.06	0.03	0.00	0.03	98.03	ppb
Calcium	43-1	23258.44	23755.75	23636.20	23550.13	1.10	ppb
Calcium	44-1	24037.43	24759.29	24550.69	24449.14	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.37	6.53	6.40	6.43	1.32	ppb
Cobalt	59-2	1.33	1.37	1.38	1.36	1.91	ppb
Copper	63-2	1.07	1.04	1.10	1.07	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				92		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				89		%
Iron	54-2	1449.15	1483.93	1450.46	1461.18	1.35	ppb
Iron	56-2	1532.91	1572.03	1545.14	1550.03	1.29	ppb
Iron	57-2	1429.04	1468.69	1419.09	1438.94	1.82	ppb
Krypton	83-1						cps
Lead	206-1	0.67	0.68	0.68	0.68	0.46	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.64	0.69	0.65	0.66	4.14	ppb
Lead	208-1	0.65	0.67	0.66	0.66	1.49	ppb
Lithium	6-1				96		%
Magnesium	24-2	16831.36	16516.00	16501.41	16616.26	1.12	ppb
Manganese	55-2	14.97	15.87	15.21	15.35	3.06	ppb
Molybdenum	94-1	1.17	1.16	1.19	1.17	1.06	ppb
Molybdenum	95-1	0.23	0.25	0.24	0.24	4.45	ppb
Molybdenum	96-1	0.32	0.35	0.36	0.35	5.93	ppb
Molybdenum	97-1	0.26	0.24	0.22	0.24	7.47	ppb
Molybdenum	98-1	0.25	0.23	0.24	0.24	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.64	1.63	1.81	1.69	5.94	ppb
Phosphorus	31-2	5.14	4.43	11.42	7.00	54.99	ppb
Potassium	39-2	3438.93	3493.13	3438.55	3456.87	0.91	ppb
Rhodium	103-1				89		%
Rhodium	103-2				91		%
Scandium	45-1				93		%
Scandium	45-2				89		%
Selenium	82-1	4.55	3.64	3.93	4.04	11.57	ppb
Selenium	77-2	5.49	19.77	12.45	12.57	56.81	ppb
Selenium	78-2	6.02	5.40	7.35	6.26	15.99	ppb
Silicon	28-1	1274.02	1309.89	1304.23	1296.05	1.49	ppb
Silver	107-1	0.00	0.00	0.01	0.00	35.88	ppb
Silver	109-1	0.00	0.00	0.00	0.00	42.26	ppb
Sodium	23-2	23059.22	23912.78	23103.25	23358.42	2.06	ppb
Strontium	86-1	107.14	108.42	109.88	108.48	1.26	ppb
Strontium	88-1	115.27	114.83	116.56	115.55	0.78	ppb
Sulfur	34-1	16032.52	16987.23	16764.99	16594.91	3.01	ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.03	0.04	0.03	0.03	11.88	ppb
Thallium	205-1	0.04	0.04	0.03	0.04	7.90	ppb
Tin	118-1	1.88	1.95	1.93	1.92	1.89	ppb
Titanium	47-1	40.81	41.64	41.21	41.22	1.01	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	4.47	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.97	1.98	2.21	2.05	6.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5.22	5.51	5.26	5.33	2.92	ppb
Zirconium	90-1	0.53	0.61	0.53	0.56	8.64	ppb
Zirconium	91-1	0.51	0.52	0.53	0.52	1.66	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.65	45.28	42.37	44.10	3.46	ppb
Antimony	121-1	0.03	0.02	0.03	0.03	10.96	ppb
Arsenic	75-2	0.17	0.28	0.18	0.21	28.76	ppb
Barium	135-1	173.61	172.15	176.04	173.93	1.13	ppb
Barium	137-1	174.52	173.82	179.17	175.84	1.66	ppb
Beryllium	9-1	0.91	0.90	0.92	0.91	0.83	ppb
Bismuth	209-1				88		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.51	0.35	0.39	26.22	ppb
Cadmium	106-1	0.27	0.00	0.12	0.13	107.30	ppb
Cadmium	111-1	0.38	0.36	0.42	0.38	7.15	ppb
Calcium	43-1	22579.28	22769.45	23649.97	22999.57	2.48	ppb
Calcium	44-1	23731.90	23420.45	24471.41	23874.59	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.59	1.55	1.45	1.53	4.80	ppb
Cobalt	59-2	3.36	3.46	3.34	3.39	1.83	ppb
Copper	63-2	1.55	1.57	1.47	1.53	3.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	57.18	54.48	54.44	55.37	2.83	ppb
Iron	56-2	52.90	54.53	51.90	53.11	2.50	ppb
Iron	57-2	56.25	54.51	47.81	52.86	8.44	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.25	0.22	0.24	6.62	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.24	0.21	0.23	4.89	ppb
Lead	208-1	0.23	0.24	0.23	0.23	3.27	ppb
Lithium	6-1				94		%
Magnesium	24-2	14390.65	14687.41	13995.24	14357.77	2.42	ppb
Manganese	55-2	205.53	211.34	200.70	205.86	2.59	ppb
Molybdenum	94-1	0.14	0.13	0.13	0.13	5.05	ppb
Molybdenum	95-1	0.10	0.08	0.08	0.08	11.60	ppb
Molybdenum	96-1	0.08	0.08	0.10	0.09	9.65	ppb
Molybdenum	97-1	0.08	0.09	0.09	0.09	8.02	ppb
Molybdenum	98-1	0.08	0.09	0.08	0.08	6.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.27	3.38	3.11	3.25	4.13	ppb
Phosphorus	31-2	-12.45	-11.94	-22.47	-15.62		ppb
Potassium	39-2	3484.92	3564.33	3420.64	3489.97	2.06	ppb
Rhodium	103-1				89		%
Rhodium	103-2				87		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	2.44	2.57	3.30	2.77	16.65	ppb
Selenium	77-2	7.91	6.89	5.41	6.74	18.65	ppb
Selenium	78-2	1.21	4.10	4.91	3.41	57.01	ppb
Silicon	28-1	1200.25	1218.27	1252.11	1223.54	2.15	ppb
Silver	107-1	0.00	0.00	0.00	0.00	11.80	ppb
Silver	109-1	0.00	0.00	0.00	0.00	27.64	ppb
Sodium	23-2	56067.34	57298.54	54509.46	55958.45	2.50	ppb
Strontium	86-1	183.60	185.01	187.75	185.45	1.14	ppb
Strontium	88-1	191.44	194.92	200.61	195.66	2.37	ppb
Sulfur	34-1	11969.57	12173.87	12753.00	12298.81	3.30	ppb
Terbium	159-1				91		%
Terbium	159-2				91		%
Thallium	203-1	0.05	0.05	0.04	0.05	3.00	ppb
Thallium	205-1	0.05	0.04	0.05	0.04	11.61	ppb
Tin	118-1	11.84	11.94	12.26	12.02	1.80	ppb
Titanium	47-1	1.38	1.35	1.42	1.38	2.79	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	4.85	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.30	0.29	0.28	0.29	3.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	23.61	24.43	22.77	23.60	3.52	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	3.53	ppb
Zirconium	91-1	0.02	0.04	0.03	0.03	29.77	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51.16	53.29	52.69	52.38	2.09	ppb
Antimony	121-1	0.02	0.01	0.02	0.01	25.48	ppb
Arsenic	75-2	0.78	0.92	0.86	0.85	8.22	ppb
Barium	135-1	146.77	150.91	150.54	149.41	1.53	ppb
Barium	137-1	147.38	150.42	152.29	150.03	1.65	ppb
Beryllium	9-1	0.45	0.47	0.48	0.47	3.91	ppb
Bismuth	209-1				86		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.88	0.81	0.85	0.85	3.66	ppb
Cadmium	106-1	-0.79	1.26	0.52	0.33	313.36	ppb
Cadmium	111-1	0.73	0.72	0.65	0.70	5.78	ppb
Calcium	43-1	40291.70	41691.11	42758.43	41580.42	2.98	ppb
Calcium	44-1	39819.41	41695.09	42021.49	41178.66	2.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.68	0.63	0.68	0.66	4.39	ppb
Cobalt	59-2	35.15	35.35	34.94	35.15	0.58	ppb
Copper	63-2	0.23	0.28	0.19	0.23	19.08	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				92		%
Holmium	165-2				94		%
Indium	115-1				90		%
Indium	115-2				87		%
Iron	54-2	1266.72	1263.96	1236.55	1255.74	1.33	ppb
Iron	56-2	1344.81	1333.06	1327.13	1335.00	0.67	ppb
Iron	57-2	1255.63	1254.19	1212.06	1240.63	1.99	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.17	0.15	0.15	6.63	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.14	0.15	0.14	4.88	ppb
Lead	208-1	0.15	0.15	0.15	0.15	2.29	ppb
Lithium	6-1				94		%
Magnesium	24-2	37737.31	37467.69	36694.07	37299.69	1.45	ppb
Manganese	55-2	1468.72	1482.75	1447.44	1466.30	1.21	ppb
Molybdenum	94-1	0.14	0.13	0.11	0.13	10.22	ppb
Molybdenum	95-1	0.09	0.10	0.09	0.09	6.21	ppb
Molybdenum	96-1	0.09	0.10	0.09	0.09	5.00	ppb
Molybdenum	97-1	0.08	0.08	0.07	0.08	11.74	ppb
Molybdenum	98-1	0.07	0.07	0.09	0.08	14.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.80	4.98	4.99	4.92	2.15	ppb
Phosphorus	31-2	-20.75	-6.19	-14.53	-13.82		ppb
Potassium	39-2	4800.08	4828.54	4801.78	4810.13	0.33	ppb
Rhodium	103-1				87		%
Rhodium	103-2				86		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	1.86	2.40	1.93	2.06	14.21	ppb
Selenium	77-2	17.92	7.55	10.93	12.13	43.58	ppb
Selenium	78-2	4.18	5.79	4.46	4.81	17.90	ppb
Silicon	28-1	1650.33	1731.85	1721.30	1701.16	2.61	ppb
Silver	107-1	0.01	0.01	0.02	0.02	12.66	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.61	ppb
Sodium	23-2	92029.23	92609.74	89795.72	91478.23	1.62	ppb
Strontium	86-1	331.07	341.83	346.21	339.71	2.29	ppb
Strontium	88-1	332.15	347.34	344.40	341.30	2.36	ppb
Sulfur	34-1	10842.30	10885.67	11400.46	11042.81	2.81	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	0.11	0.11	0.13	0.12	10.80	ppb
Thallium	205-1	0.11	0.12	0.13	0.12	6.60	ppb
Tin	118-1	2.56	2.65	2.65	2.62	1.88	ppb
Titanium	47-1	2.16	2.12	2.18	2.16	1.33	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	4.41	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.24	0.18	0.19	21.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	22.39	23.12	21.73	22.42	3.11	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	7.87	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	6.90	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	73.40	68.40	68.81	70.20	3.95	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	18.45	ppb
Arsenic	75-2	0.92	0.91	0.67	0.84	17.43	ppb
Barium	135-1	87.13	88.60	87.78	87.84	0.84	ppb
Barium	137-1	87.94	90.00	88.61	88.85	1.19	ppb
Beryllium	9-1	0.23	0.23	0.25	0.24	3.78	ppb
Bismuth	209-1				89		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.22	0.12	0.14	0.16	34.51	ppb
Cadmium	106-1	-0.93	-0.29	-0.70	-0.64		ppb
Cadmium	111-1	0.11	0.13	0.15	0.13	14.01	ppb
Calcium	43-1	36246.17	37154.56	36646.25	36682.33	1.24	ppb
Calcium	44-1	35553.48	36569.50	36033.89	36052.29	1.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.65	1.61	1.61	1.62	1.22	ppb
Cobalt	59-2	1.56	1.43	1.50	1.50	4.30	ppb
Copper	63-2	0.08	0.08	0.04	0.07	30.85	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				92		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	107.81	109.80	109.07	108.89	0.92	ppb
Iron	56-2	107.39	107.22	107.84	107.49	0.30	ppb
Iron	57-2	108.02	105.30	108.22	107.18	1.52	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.06	0.06	0.06	2.65	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.07	0.08	0.07	13.08	ppb
Lead	208-1	0.07	0.07	0.07	0.07	1.68	ppb
Lithium	6-1				94		%
Magnesium	24-2	18545.26	18256.49	18521.04	18440.93	0.87	ppb
Manganese	55-2	85.27	86.16	85.32	85.58	0.59	ppb
Molybdenum	94-1	0.10	0.09	0.08	0.09	10.30	ppb
Molybdenum	95-1	0.06	0.06	0.06	0.06	2.05	ppb
Molybdenum	96-1	0.06	0.08	0.07	0.07	8.88	ppb
Molybdenum	97-1	0.05	0.04	0.04	0.04	13.57	ppb
Molybdenum	98-1	0.06	0.05	0.06	0.06	7.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.04	2.00	2.09	2.04	2.13	ppb
Phosphorus	31-2	7.88	3.07	-17.56	-2.20		ppb
Potassium	39-2	3287.29	3286.44	3305.99	3293.24	0.34	ppb
Rhodium	103-1				87		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	2.91	2.53	3.63	3.02	18.53	ppb
Selenium	77-2	18.08	27.48	24.85	23.47	20.67	ppb
Selenium	78-2	8.29	7.33	6.22	7.28	14.26	ppb
Silicon	28-1	1463.83	1497.73	1483.38	1481.65	1.15	ppb
Silver	107-1	0.00	0.00	0.00	0.00	36.86	ppb
Silver	109-1	0.00	0.00	0.00	0.00	77.50	ppb
Sodium	23-2	35949.49	35414.69	35852.68	35738.96	0.80	ppb
Strontium	86-1	110.78	111.56	111.26	111.20	0.36	ppb
Strontium	88-1	118.39	117.31	116.24	117.31	0.92	ppb
Sulfur	34-1	12416.50	12611.96	12614.61	12547.69	0.91	ppb
Terbium	159-1				92		%
Terbium	159-2				92		%
Thallium	203-1	0.05	0.04	0.04	0.04	9.89	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	8.75	ppb
Tin	118-1	0.07	0.06	0.05	0.06	15.75	ppb
Titanium	47-1	1.92	1.74	1.80	1.82	4.99	ppb
Uranium	238-1	0.00	0.01	0.00	0.00	15.95	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.13	0.13	0.13	2.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	2.37	2.99	2.62	2.66	11.62	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.06	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	17.86	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	36.47	36.18	37.75	36.80	2.27	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.91	ppb
Arsenic	75-2	0.25	0.29	0.22	0.25	12.67	ppb
Barium	135-1	182.30	175.83	176.22	178.11	2.04	ppb
Barium	137-1	183.90	177.07	178.10	179.69	2.05	ppb
Beryllium	9-1	0.89	0.87	0.87	0.88	1.20	ppb
Bismuth	209-1				87		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.28	0.41	0.34	18.86	ppb
Cadmium	106-1	-0.54	-0.78	-1.04	-0.79		ppb
Cadmium	111-1	0.40	0.39	0.37	0.39	3.12	ppb
Calcium	43-1	23564.17	23240.02	22881.68	23228.63	1.47	ppb
Calcium	44-1	24578.64	24175.42	23638.77	24130.94	1.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.64	0.68	0.66	0.66	2.69	ppb
Cobalt	59-2	3.23	3.28	3.35	3.29	1.83	ppb
Copper	63-2	1.42	1.36	1.31	1.36	4.25	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				89		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	54-2	20.90	24.18	23.72	22.93	7.74	ppb
Iron	56-2	22.99	23.20	23.18	23.13	0.49	ppb
Iron	57-2	22.85	21.76	23.83	22.81	4.54	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.24	0.19	0.22	13.09	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.21	0.21	0.22	5.23	ppb
Lead	208-1	0.23	0.21	0.21	0.22	3.91	ppb
Lithium	6-1				93		%
Magnesium	24-2	14354.04	14359.50	14149.19	14287.58	0.84	ppb
Manganese	55-2	195.04	194.99	195.18	195.07	0.05	ppb
Molybdenum	94-1	0.10	0.10	0.09	0.10	9.36	ppb
Molybdenum	95-1	0.08	0.08	0.09	0.08	4.02	ppb
Molybdenum	96-1	0.06	0.09	0.08	0.08	15.25	ppb
Molybdenum	97-1	0.10	0.06	0.06	0.07	29.73	ppb
Molybdenum	98-1	0.08	0.07	0.08	0.08	7.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.32	1.45	1.29	1.36	6.13	ppb
Phosphorus	31-2	-17.51	-1.43	-22.23	-13.72		ppb
Potassium	39-2	3427.32	3420.04	3483.97	3443.78	1.02	ppb
Rhodium	103-1				87		%
Rhodium	103-2				88		%
Scandium	45-1				90		%
Scandium	45-2				87		%
Selenium	82-1	2.77	2.71	2.82	2.77	1.96	ppb
Selenium	77-2	5.49	11.31	4.39	7.06	52.68	ppb
Selenium	78-2	3.61	3.60	4.71	3.97	16.16	ppb
Silicon	28-1	1243.78	1216.28	1197.38	1219.15	1.91	ppb
Silver	107-1	0.00	0.00	0.00	0.00	13.86	ppb
Silver	109-1	0.00	0.00	0.00	0.00	173.60	ppb
Sodium	23-2	56727.23	55687.74	55869.51	56094.83	0.99	ppb
Strontium	86-1	190.62	185.62	189.50	188.58	1.39	ppb
Strontium	88-1	203.90	197.73	198.69	200.11	1.66	ppb
Sulfur	34-1	12710.56	12176.61	11961.66	12282.94	3.14	ppb
Terbium	159-1				90		%
Terbium	159-2				93		%
Thallium	203-1	0.05	0.05	0.04	0.05	10.28	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	5.25	ppb
Tin	118-1	0.22	0.18	0.19	0.20	9.22	ppb
Titanium	47-1	1.06	1.01	1.11	1.06	4.64	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	14.19	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.27	0.31	0.29	7.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				92		%
Zinc	66-2	18.44	18.13	18.36	18.31	0.89	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.26	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	18.24	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.04	2.80	3.52	2.78	26.64	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	3.16	ppb
Arsenic	75-2	-0.02	-0.02	0.01	-0.01		ppb
Barium	135-1	0.12	0.12	0.11	0.12	8.94	ppb
Barium	137-1	0.13	0.13	0.13	0.13	1.53	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	37.06	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.13	-0.01	0.07	0.06	110.79	ppb
Cadmium	106-1	-1.62	-1.83	-2.37	-1.94		ppb
Cadmium	111-1	-0.04	-0.03	-0.05	-0.04		ppb
Calcium	43-1	21.49	20.22	22.58	21.43	5.50	ppb
Calcium	44-1	19.44	18.50	18.99	18.98	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.59	0.68	0.58	0.62	8.59	ppb
Cobalt	59-2	0.01	0.01	0.03	0.02	55.04	ppb
Copper	63-2	-0.03	-0.01	0.03	0.00		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	54-2	6.67	6.87	6.26	6.60	4.74	ppb
Iron	56-2	6.13	6.05	6.14	6.11	0.78	ppb
Iron	57-2	6.32	7.25	4.78	6.12	20.40	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.18	0.17	0.18	2.50	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.16	0.15	0.16	8.11	ppb
Lead	208-1	0.17	0.16	0.16	0.16	5.26	ppb
Lithium	6-1				96		%
Magnesium	24-2	2.45	3.24	2.27	2.65	19.46	ppb
Manganese	55-2	1.26	1.36	1.42	1.35	5.72	ppb
Molybdenum	94-1	0.28	0.29	0.33	0.30	7.96	ppb
Molybdenum	95-1	0.04	0.05	0.06	0.05	18.72	ppb
Molybdenum	96-1	0.09	0.07	0.09	0.08	12.66	ppb
Molybdenum	97-1	0.05	0.05	0.05	0.05	1.90	ppb
Molybdenum	98-1	0.06	0.06	0.06	0.06	5.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.33	0.28	0.21	0.27	21.80	ppb
Phosphorus	31-2	-2.12	-16.18	-15.97	-11.42		ppb
Potassium	39-2	6.23	8.82	7.49	7.51	17.26	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				93		%
Scandium	45-2				88		%
Selenium	82-1	0.32	0.11	-0.20	0.07	351.05	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.18	-0.17	-0.29		ppb
Silicon	28-1	1.01	0.96	1.31	1.09	17.17	ppb
Silver	107-1	0.00	0.00	0.00	0.00	55.17	ppb
Silver	109-1	0.00	0.00	0.00	0.00	494.57	ppb
Sodium	23-2	50.26	49.83	50.37	50.15	0.57	ppb
Strontium	86-1	0.06	0.06	0.05	0.06	10.61	ppb
Strontium	88-1	0.07	0.06	0.06	0.06	12.31	ppb
Sulfur	34-1	-674.56	-765.23	-715.28	-718.36		ppb
Terbium	159-1				91		%
Terbium	159-2				94		%
Thallium	203-1	0.01	0.01	0.00	0.01	46.02	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	37.08	ppb
Tin	118-1	1.46	1.48	1.62	1.52	5.66	ppb
Titanium	47-1	0.07	0.06	0.06	0.06	7.69	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.02	0.00	0.01	102.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	1.29	1.23	1.13	1.22	6.38	ppb
Zirconium	90-1	0.12	0.13	0.14	0.13	7.09	ppb
Zirconium	91-1	0.12	0.14	0.14	0.13	9.11	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.65	3.39	1.76	2.27	42.96	ppb
Antimony	121-1	0.01	0.00	0.01	0.01	19.40	ppb
Arsenic	75-2	-0.02	0.00	-0.02	-0.02		ppb
Barium	135-1	0.00	0.00	-0.01	-0.01		ppb
Barium	137-1	0.02	0.01	0.00	0.01	70.54	ppb
Beryllium	9-1	0.01	0.02	0.01	0.01	17.51	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	-0.04	0.05	-0.01		ppb
Cadmium	106-1	-1.86	-1.93	-1.30	-1.70		ppb
Cadmium	111-1	-0.04	-0.04	-0.03	-0.04		ppb
Calcium	43-1	14.25	16.07	14.38	14.90	6.83	ppb
Calcium	44-1	12.49	12.70	12.56	12.59	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.63	0.64	0.68	0.65	4.16	ppb
Cobalt	59-2	0.02	0.01	0.01	0.01	52.98	ppb
Copper	63-2	0.06	-0.05	0.07	0.03	253.13	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				92		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				91		%
Iron	54-2	4.89	4.77	5.76	5.14	10.56	ppb
Iron	56-2	4.23	4.28	4.07	4.19	2.65	ppb
Iron	57-2	3.66	4.36	4.49	4.17	10.68	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.06	0.06	0.06	3.27	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.07	0.06	0.06	14.59	ppb
Lead	208-1	0.07	0.06	0.06	0.06	4.58	ppb
Lithium	6-1				96		%
Magnesium	24-2	1.27	0.79	0.97	1.01	24.29	ppb
Manganese	55-2	3.46	3.62	3.42	3.50	3.12	ppb
Molybdenum	94-1	0.15	0.16	0.13	0.15	7.96	ppb
Molybdenum	95-1	0.17	0.16	0.17	0.17	2.71	ppb
Molybdenum	96-1	0.18	0.17	0.18	0.17	4.74	ppb
Molybdenum	97-1	0.16	0.16	0.17	0.16	1.72	ppb
Molybdenum	98-1	0.16	0.16	0.18	0.17	4.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.22	0.24	0.33	0.27	22.52	ppb
Phosphorus	31-2	-25.69	-20.98	-21.05	-22.57		ppb
Potassium	39-2	29.46	21.96	22.90	24.77	16.49	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				89		%
Selenium	82-1	0.13	-0.41	0.05	-0.08		ppb
Selenium	77-2	-0.36	0.83	-0.36	0.03	1959.61	ppb
Selenium	78-2	0.18	0.17	0.86	0.41	97.61	ppb
Silicon	28-1	0.91	1.14	1.23	1.10	14.93	ppb
Silver	107-1	0.00	0.00	0.00	0.00	25.87	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	263.23	259.82	254.04	259.03	1.79	ppb
Strontium	86-1	0.02	0.00	0.02	0.01	84.76	ppb
Strontium	88-1	0.02	0.03	0.02	0.02	9.07	ppb
Sulfur	34-1	-285.99	-332.29	-340.58	-319.62		ppb
Terbium	159-1				93		%
Terbium	159-2				95		%
Thallium	203-1	0.01	0.01	0.01	0.01	3.73	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	4.22	ppb
Tin	118-1	0.15	0.14	0.17	0.15	8.74	ppb
Titanium	47-1	0.05	0.06	0.06	0.06	15.53	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	49.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	0.42	0.46	0.44	0.44	4.40	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	115.34	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	74.85	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.47	-0.12	-0.24	0.04	1089.91	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	63.51	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	-0.01	-0.04	-0.02	-0.03		ppb
Barium	137-1	-0.05	-0.03	-0.03	-0.04		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	13.47	ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	-0.03	0.05	-0.01		ppb
Cadmium	106-1	-0.70	-1.59	-1.75	-1.35		ppb
Cadmium	111-1	-0.01	-0.03	-0.04	-0.03		ppb
Calcium	43-1	0.61	-0.48	-0.51	-0.13		ppb
Calcium	44-1	-3.74	-4.32	-3.91	-3.99		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.00	0.01	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	63.53	ppb
Copper	63-2	-0.01	-0.05	-0.10	-0.05		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	0.05	0.34	0.07	0.16	105.56	ppb
Iron	56-2	0.00	0.16	0.20	0.12	86.01	ppb
Iron	57-2	0.59	-0.19	-0.17	0.07	599.98	ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.01	-0.01	-0.01		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.02	0.00	-0.01		ppb
Lead	208-1	-0.01	-0.02	-0.01	-0.01		ppb
Lithium	6-1				96		%
Magnesium	24-2	-0.44	0.21	-0.38	-0.21		ppb
Manganese	55-2	0.16	0.06	0.13	0.12	45.62	ppb
Molybdenum	94-1	-0.01	0.00	0.00	-0.01		ppb
Molybdenum	95-1	0.00	0.01	-0.01	0.00	401.88	ppb
Molybdenum	96-1	0.01	0.00	0.00	0.00	139.29	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	51.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.12	0.04	-0.05		ppb
Phosphorus	31-2	-24.32	-25.86	-22.64	-24.28		ppb
Potassium	39-2	-0.70	-0.85	-1.45	-1.00		ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	0.13	0.24	-0.16	0.07	303.57	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.18	-0.53	-0.53	-0.29		ppb
Silicon	28-1	-0.76	-0.76	-0.62	-0.71		ppb
Silver	107-1	0.00	0.00	0.00	0.00	98.55	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	6.26	4.43	5.53	5.41	17.02	ppb
Strontium	86-1	0.01	0.01	-0.01	0.00	2918.38	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	27.61	ppb
Sulfur	34-1	-751.87	-817.34	-617.09	-728.77		ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.00	0.00	0.00	0.00	135.77	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	49.97	ppb
Tin	118-1	-0.02	-0.03	-0.02	-0.02		ppb
Titanium	47-1	0.00	0.02	0.00	0.01	153.18	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	-0.01	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				91		%
Zinc	66-2	0.17	0.32	0.20	0.23	34.92	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	-0.01	-0.01	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.50	39.54	37.25	39.43	5.39	ppb
Antimony	121-1	3.91	3.94	3.91	3.92	0.37	ppb
Arsenic	75-2	2.08	2.20	2.05	2.11	3.82	ppb
Barium	135-1	19.24	19.45	19.08	19.26	0.98	ppb
Barium	137-1	19.46	19.89	19.56	19.63	1.13	ppb
Beryllium	9-1	1.92	1.98	1.94	1.95	1.49	ppb
Bismuth	209-1				92		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.99	2.06	1.96	2.00	2.39	ppb
Cadmium	106-1	1.32	0.35	0.42	0.70	77.72	ppb
Cadmium	111-1	2.05	2.02	1.91	1.99	3.66	ppb
Calcium	43-1	1002.79	1009.86	998.83	1003.83	0.56	ppb
Calcium	44-1	995.53	1010.00	984.26	996.60	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.84	3.69	3.71	3.75	2.29	ppb
Cobalt	59-2	2.02	1.99	2.07	2.02	1.91	ppb
Copper	63-2	4.61	4.20	4.54	4.45	4.84	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				93		%
Holmium	165-2				95		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	425.38	419.03	416.55	420.32	1.08	ppb
Iron	56-2	428.37	413.39	419.88	420.55	1.79	ppb
Iron	57-2	416.69	409.75	424.06	416.83	1.72	ppb
Krypton	83-1						cps
Lead	206-1	1.94	1.97	1.90	1.94	1.73	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.96	1.95	1.90	1.94	1.67	ppb
Lead	208-1	1.93	1.95	1.89	1.92	1.68	ppb
Lithium	6-1				96		%
Magnesium	24-2	1004.41	958.37	978.51	980.43	2.35	ppb
Manganese	55-2	2.24	2.11	2.31	2.22	4.61	ppb
Molybdenum	94-1	11.54	11.73	11.15	11.48	2.58	ppb
Molybdenum	95-1	9.64	9.70	9.48	9.61	1.22	ppb
Molybdenum	96-1	9.98	10.03	9.55	9.85	2.69	ppb
Molybdenum	97-1	9.67	9.74	9.55	9.66	0.97	ppb
Molybdenum	98-1	9.56	9.68	9.50	9.58	0.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.11	2.12	2.06	2.09	1.57	ppb
Phosphorus	31-2	23.12	51.16	36.61	36.96	37.94	ppb
Potassium	39-2	974.16	936.83	972.67	961.22	2.20	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				92		%
Scandium	45-2				90		%
Selenium	82-1	10.65	10.69	10.63	10.66	0.28	ppb
Selenium	77-2	5.61	8.84	16.30	10.25	53.47	ppb
Selenium	78-2	9.31	6.92	9.63	8.62	17.17	ppb
Silicon	28-1	4.64	4.95	4.57	4.72	4.29	ppb
Silver	107-1	1.95	1.96	1.95	1.95	0.37	ppb
Silver	109-1	1.97	1.94	1.97	1.96	0.80	ppb
Sodium	23-2	1010.21	963.65	995.74	989.87	2.41	ppb
Strontium	86-1	1.81	1.92	1.79	1.84	3.84	ppb
Strontium	88-1	1.87	1.90	1.81	1.86	2.33	ppb
Sulfur	34-1	-416.13	-310.53	-511.05	-412.57		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	1.85	1.90	1.81	1.85	2.58	ppb
Thallium	205-1	1.88	1.91	1.85	1.88	1.62	ppb
Tin	118-1	9.88	10.03	9.78	9.90	1.31	ppb
Titanium	47-1	11.17	11.11	11.03	11.11	0.63	ppb
Uranium	238-1	1.84	1.82	1.77	1.81	2.03	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.76	9.75	9.96	9.82	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	10.96	10.49	10.66	10.70	2.23	ppb
Zirconium	90-1	1.89	1.95	1.87	1.90	2.09	ppb
Zirconium	91-1	1.95	1.91	1.83	1.89	3.13	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5703.21	5402.04	5287.32	5464.19	3.93	ppb
Antimony	121-1	10.77	11.59	11.09	11.15	3.69	ppb
Arsenic	75-2	13.32	12.88	12.28	12.82	4.07	ppb
Barium	135-1	220.33	236.37	226.18	227.63	3.57	ppb
Barium	137-1	223.64	237.06	230.09	230.26	2.91	ppb
Beryllium	9-1	0.49	0.53	0.49	0.50	4.01	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	88.80	94.41	89.53	90.91	3.35	ppb
Cadmium	106-1	68.44	73.73	67.66	69.94	4.72	ppb
Cadmium	111-1	12.29	12.83	12.82	12.65	2.44	ppb
Calcium	43-1	79663.93	85859.83	81323.95	82282.57	3.90	ppb
Calcium	44-1	81032.83	85893.85	80604.53	82510.41	3.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.69	42.41	41.54	42.88	3.80	ppb
Cobalt	59-2	7.60	7.36	7.01	7.32	4.08	ppb
Copper	63-2	250.52	239.13	233.27	240.97	3.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	12422.23	11701.52	11466.28	11863.35	4.20	ppb
Iron	56-2	12800.08	12168.45	11869.52	12279.35	3.87	ppb
Iron	57-2	12242.50	11561.58	11275.12	11693.07	4.25	ppb
Krypton	83-1						cps
Lead	206-1	516.06	537.75	530.22	528.01	2.09	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	491.87	518.63	498.55	503.02	2.77	ppb
Lead	208-1	498.80	527.03	505.90	510.58	2.88	ppb
Lithium	6-1				98		%
Magnesium	24-2	7077.14	6755.05	6554.22	6795.47	3.88	ppb
Manganese	55-2	497.46	472.96	461.54	477.32	3.84	ppb
Molybdenum	94-1	18.97	20.90	19.18	19.68	5.38	ppb
Molybdenum	95-1	2.61	2.64	2.53	2.60	2.26	ppb
Molybdenum	96-1	4.42	4.57	4.29	4.42	3.16	ppb
Molybdenum	97-1	2.61	2.78	2.58	2.66	4.10	ppb
Molybdenum	98-1	2.51	2.64	2.60	2.59	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.28	22.55	21.64	22.49	3.66	ppb
Phosphorus	31-2	4351.84	3989.52	3989.25	4110.20	5.09	ppb
Potassium	39-2	8592.24	8255.47	8073.31	8307.01	3.17	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	3.45	3.66	4.50	3.87	14.32	ppb
Selenium	77-2	24.60	14.83	16.29	18.57	28.37	ppb
Selenium	78-2	5.15	5.86	4.68	5.23	11.33	ppb
Silicon	28-1	474.49	493.49	478.80	482.26	2.06	ppb
Silver	107-1	14.27	15.01	14.45	14.57	2.64	ppb
Silver	109-1	14.19	15.19	14.61	14.66	3.43	ppb
Sodium	23-2	53255.90	50232.52	49613.77	51034.06	3.82	ppb
Strontium	86-1	406.63	424.70	400.33	410.55	3.08	ppb
Strontium	88-1	398.73	423.38	404.78	408.96	3.14	ppb
Sulfur	34-1	35092.07	35973.44	34340.66	35135.39	2.33	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.30	0.45	0.51	0.42	25.76	ppb
Thallium	205-1	0.31	0.47	0.52	0.43	25.04	ppb
Tin	118-1	22.23	23.50	22.61	22.78	2.88	ppb
Titanium	47-1	162.69	169.80	164.77	165.75	2.21	ppb
Uranium	238-1	1.19	1.26	1.19	1.21	3.30	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.62	18.70	18.38	18.90	3.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	3342.35	3156.31	3087.46	3195.37	4.13	ppb
Zirconium	90-1	8.98	9.86	9.38	9.41	4.71	ppb
Zirconium	91-1	9.50	9.63	9.24	9.46	2.12	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51961.74	48517.78	50389.25	50289.59	3.43	ppb
Antimony	121-1	497.27	507.34	493.96	499.52	1.40	ppb
Arsenic	75-2	509.58	483.20	507.61	500.13	2.94	ppb
Barium	135-1	2478.67	2534.96	2425.40	2479.68	2.21	ppb
Barium	137-1	2500.50	2541.71	2400.12	2480.78	2.94	ppb
Beryllium	9-1	495.26	508.35	502.84	502.15	1.31	ppb
Bismuth	209-1				80		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	487.82	493.02	469.82	483.55	2.52	ppb
Cadmium	106-1	484.43	484.07	476.37	481.62	0.95	ppb
Cadmium	111-1	455.43	466.99	445.67	456.03	2.34	ppb
Calcium	43-1	240215.95	249514.23	236970.42	242233.53	2.69	ppb
Calcium	44-1	241990.94	249388.78	241443.71	244274.48	1.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	486.37	462.53	485.14	478.01	2.81	ppb
Cobalt	59-2	516.51	477.97	499.92	498.13	3.88	ppb
Copper	63-2	4922.65	4635.06	4958.34	4838.68	3.66	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				89		%
Holmium	165-2				89		%
Indium	115-1				84		%
Indium	115-2				80		%
Iron	54-2	130239.47	123368.73	128530.07	127379.42	2.81	ppb
Iron	56-2	130141.99	121628.08	128102.36	126624.14	3.51	ppb
Iron	57-2	130174.07	121869.66	129434.62	127159.45	3.61	ppb
Krypton	83-1						cps
Lead	206-1	2534.79	2591.54	2505.10	2543.81	1.73	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2553.77	2593.73	2501.85	2549.78	1.81	ppb
Lead	208-1	2553.23	2601.87	2518.57	2557.89	1.64	ppb
Lithium	6-1				85		%
Magnesium	24-2	257223.13	243133.19	250374.18	250243.50	2.82	ppb
Manganese	55-2	5177.96	4918.98	5187.58	5094.84	2.99	ppb
Molybdenum	94-1	4902.33	5174.29	4913.04	4996.55	3.08	ppb
Molybdenum	95-1	4878.86	5169.10	4909.62	4985.86	3.20	ppb
Molybdenum	96-1	4940.39	5137.37	4925.07	5000.94	2.37	ppb
Molybdenum	97-1	4972.60	5107.05	4912.64	4997.43	1.99	ppb
Molybdenum	98-1	4958.19	5164.81	4923.05	5015.35	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.85	467.35	497.39	487.86	3.64	ppb
Phosphorus	31-2	9969.64	9465.27	10055.15	9830.02	3.24	ppb
Potassium	39-2	124818.62	116921.07	123528.53	121756.07	3.48	ppb
Rhodium	103-1				79		%
Rhodium	103-2				77		%
Scandium	45-1				88		%
Scandium	45-2				84		%
Selenium	82-1	474.50	490.14	476.78	480.48	1.76	ppb
Selenium	77-2	454.83	461.18	441.21	452.41	2.25	ppb
Selenium	78-2	522.84	486.09	526.57	511.83	4.37	ppb
Silicon	28-1	769.30	775.65	764.76	769.90	0.71	ppb
Silver	107-1	478.07	479.94	459.68	472.56	2.37	ppb
Silver	109-1	480.84	486.41	465.53	477.59	2.26	ppb
Sodium	23-2	254168.95	240334.44	249913.21	248138.87	2.86	ppb
Strontium	86-1	501.51	514.47	495.44	503.80	1.93	ppb
Strontium	88-1	497.69	509.03	485.41	497.37	2.37	ppb
Sulfur	34-1	11988.52	12467.75	12045.67	12167.31	2.15	ppb
Terbium	159-1				89		%
Terbium	159-2				87		%
Thallium	203-1	523.52	518.26	507.32	516.37	1.60	ppb
Thallium	205-1	511.80	519.02	502.70	511.17	1.60	ppb
Tin	118-1	496.62	506.32	485.68	496.20	2.08	ppb
Titanium	47-1	4974.96	5134.74	4999.73	5036.48	1.71	ppb
Uranium	238-1	512.04	528.05	511.90	517.33	1.79	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	497.15	471.57	495.89	488.21	2.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				85		%
Zinc	66-2	4726.91	4449.63	4703.84	4626.79	3.33	ppb
Zirconium	90-1	499.44	518.49	494.97	504.30	2.48	ppb
Zirconium	91-1	509.44	521.88	504.05	511.79	1.79	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.45	-0.28	0.41	0.19	215.15	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	15.99	ppb
Arsenic	75-2	0.00	-0.02	0.01	0.00		ppb
Barium	135-1	0.05	0.04	0.04	0.04	14.18	ppb
Barium	137-1	0.05	0.04	0.02	0.03	45.48	ppb
Beryllium	9-1	0.06	0.04	0.05	0.05	21.73	ppb
Bismuth	209-1				90		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.01	-0.01	0.00	295.08	ppb
Cadmium	106-1	-2.68	-1.93	-1.97	-2.19		ppb
Cadmium	111-1	-0.05	-0.03	-0.03	-0.04		ppb
Calcium	43-1	-0.17	-0.95	-0.95	-0.69		ppb
Calcium	44-1	-3.00	-3.54	-3.24	-3.26		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.04	-0.01	-0.02	-0.02		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	19.10	ppb
Copper	63-2	-0.03	-0.08	-0.05	-0.06		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				90		%
Holmium	165-2				93		%
Indium	115-1				91		%
Indium	115-2				89		%
Iron	54-2	0.19	1.01	0.96	0.72	63.46	ppb
Iron	56-2	0.50	0.67	0.47	0.55	19.29	ppb
Iron	57-2	0.59	1.18	0.23	0.66	72.16	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.05	0.07	20.90	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.07	0.08	11.05	ppb
Lead	208-1	0.08	0.08	0.07	0.08	10.72	ppb
Lithium	6-1				95		%
Magnesium	24-2	-0.15	0.80	0.15	0.27	180.61	ppb
Manganese	55-2	0.12	0.11	0.16	0.13	22.91	ppb
Molybdenum	94-1	0.10	0.05	0.03	0.06	56.63	ppb
Molybdenum	95-1	0.05	0.03	0.03	0.03	36.78	ppb
Molybdenum	96-1	0.05	0.03	0.03	0.04	22.16	ppb
Molybdenum	97-1	0.04	0.02	0.03	0.03	24.57	ppb
Molybdenum	98-1	0.05	0.03	0.03	0.03	34.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.08	-0.06	-0.07		ppb
Phosphorus	31-2	-20.84	-20.70	-23.83	-21.79		ppb
Potassium	39-2	1.15	2.27	-0.63	0.93	157.58	ppb
Rhodium	103-1				90		%
Rhodium	103-2				92		%
Scandium	45-1				90		%
Scandium	45-2				87		%
Selenium	82-1	0.21	0.03	0.13	0.12	72.35	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	0.19	0.19	-0.05		ppb
Silicon	28-1	-0.11	-0.49	-0.53	-0.38		ppb
Silver	107-1	0.02	0.01	0.01	0.01	13.81	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.20	ppb
Sodium	23-2	6.06	5.86	7.11	6.35	10.60	ppb
Strontium	86-1	0.00	-0.02	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-409.63	-563.07	-593.49	-522.06		ppb
Terbium	159-1				90		%
Terbium	159-2				92		%
Thallium	203-1	0.03	0.03	0.03	0.03	3.32	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	11.66	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.02	0.01	0.00	0.01	100.22	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	4.41	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	82.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				89		%
Zinc	66-2	0.27	0.30	0.27	0.28	6.64	ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	73.39	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	120.47	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5069.83	5039.12	5017.14	5042.03	0.52	ppb
Antimony	121-1	9.19	9.33	9.20	9.24	0.83	ppb
Arsenic	75-2	11.39	10.90	9.58	10.63	8.83	ppb
Barium	135-1	214.07	215.79	213.38	214.42	0.58	ppb
Barium	137-1	214.10	217.26	216.23	215.86	0.75	ppb
Beryllium	9-1	0.37	0.37	0.35	0.36	3.12	ppb
Bismuth	209-1				91		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	8.85	9.41	9.35	9.21	3.33	ppb
Cadmium	106-1	8.99	8.28	7.92	8.40	6.53	ppb
Cadmium	111-1	8.73	8.77	8.84	8.78	0.67	ppb
Calcium	43-1	183620.94	187423.14	183455.58	184833.22	1.21	ppb
Calcium	44-1	185977.29	186911.10	183885.22	185591.20	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.15	52.64	51.69	52.16	0.90	ppb
Cobalt	59-2	8.30	8.23	8.14	8.22	0.98	ppb
Copper	63-2	179.27	180.07	178.43	179.26	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				96		%
Holmium	165-2				98		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	54-2	7041.28	6960.39	6901.46	6967.71	1.01	ppb
Iron	56-2	7298.24	7236.73	7144.66	7226.54	1.07	ppb
Iron	57-2	6932.87	6843.78	6850.95	6875.87	0.72	ppb
Krypton	83-1						cps
Lead	206-1	602.73	608.15	601.82	604.23	0.57	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	570.38	583.74	580.65	578.26	1.21	ppb
Lead	208-1	579.07	585.46	584.07	582.87	0.58	ppb
Lithium	6-1				97		%
Magnesium	24-2	7343.61	7211.44	7114.87	7223.31	1.59	ppb
Manganese	55-2	372.40	371.26	367.57	370.41	0.68	ppb
Molybdenum	94-1	13.16	14.30	13.72	13.73	4.14	ppb
Molybdenum	95-1	2.05	2.18	2.16	2.13	3.35	ppb
Molybdenum	96-1	3.30	3.29	3.40	3.33	1.76	ppb
Molybdenum	97-1	2.20	2.17	2.14	2.17	1.34	ppb
Molybdenum	98-1	2.08	2.15	2.15	2.13	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.21	23.95	24.24	24.13	0.68	ppb
Phosphorus	31-2	4031.78	4085.91	3937.10	4018.26	1.87	ppb
Potassium	39-2	6900.83	6818.39	6826.43	6848.55	0.66	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	1.82	1.45	1.80	1.69	12.41	ppb
Selenium	77-2	18.50	10.76	15.26	14.84	26.18	ppb
Selenium	78-2	5.35	3.08	2.10	3.51	47.51	ppb
Silicon	28-1	361.27	359.29	357.33	359.30	0.55	ppb
Silver	107-1	49.66	50.37	49.99	50.00	0.71	ppb
Silver	109-1	49.62	50.75	50.46	50.27	1.17	ppb
Sodium	23-2	44536.40	44044.55	43698.02	44092.99	0.96	ppb
Strontium	86-1	479.34	485.66	487.75	484.25	0.91	ppb
Strontium	88-1	472.86	482.21	487.06	480.71	1.50	ppb
Sulfur	34-1	27557.00	28089.88	27589.90	27745.60	1.08	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.27	0.26	0.31	0.28	10.37	ppb
Thallium	205-1	0.24	0.28	0.31	0.28	11.62	ppb
Tin	118-1	14.52	14.69	14.58	14.60	0.60	ppb
Titanium	47-1	87.42	88.55	87.13	87.70	0.86	ppb
Uranium	238-1	0.97	0.99	0.98	0.98	1.16	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	13.00	13.36	12.79	13.05	2.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				97		%
Zinc	66-2	1862.41	1855.25	1837.63	1851.76	0.69	ppb
Zirconium	90-1	6.46	6.36	6.52	6.44	1.21	ppb
Zirconium	91-1	6.43	6.62	6.54	6.53	1.50	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5387.33	5410.01	5538.59	5445.31	1.50	ppb
Antimony	121-1	4.42	3.83	4.09	4.11	7.18	ppb
Arsenic	75-2	12.44	13.56	13.77	13.26	5.40	ppb
Barium	135-1	190.99	166.44	179.39	178.94	6.86	ppb
Barium	137-1	192.03	168.06	181.26	180.45	6.65	ppb
Beryllium	9-1	0.62	0.54	0.55	0.57	7.37	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	7.75	6.94	7.08	7.26	5.94	ppb
Cadmium	106-1	6.72	6.29	5.83	6.28	7.04	ppb
Cadmium	111-1	6.93	6.18	6.72	6.61	5.85	ppb
Calcium	43-1	155660.99	132842.83	146456.18	144986.67	7.92	ppb
Calcium	44-1	157587.26	134341.33	146914.51	146281.04	7.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.51	22.33	23.13	22.66	1.85	ppb
Cobalt	59-2	6.34	6.51	6.54	6.46	1.64	ppb
Copper	63-2	112.90	114.12	116.86	114.63	1.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	14277.07	14551.86	14611.69	14480.21	1.23	ppb
Iron	56-2	14340.74	14382.23	14369.04	14364.00	0.15	ppb
Iron	57-2	13519.90	13741.06	13806.66	13689.21	1.10	ppb
Krypton	83-1						cps
Lead	206-1	476.33	415.60	448.20	446.71	6.80	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	450.98	392.97	427.04	423.66	6.88	ppb
Lead	208-1	456.39	400.50	429.82	428.90	6.52	ppb
Lithium	6-1				97		%
Magnesium	24-2	5023.86	5029.12	5137.01	5063.33	1.26	ppb
Manganese	55-2	465.09	471.78	478.81	471.89	1.45	ppb
Molybdenum	94-1	17.00	14.74	16.57	16.10	7.46	ppb
Molybdenum	95-1	2.90	2.49	2.65	2.68	7.56	ppb
Molybdenum	96-1	4.40	3.77	4.20	4.12	7.80	ppb
Molybdenum	97-1	2.87	2.51	2.79	2.72	7.00	ppb
Molybdenum	98-1	2.87	2.46	2.73	2.69	7.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.10	18.95	19.12	19.05	0.49	ppb
Phosphorus	31-2	2353.18	2297.16	2255.14	2301.83	2.14	ppb
Potassium	39-2	3866.76	3866.50	3920.95	3884.74	0.81	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	1.85	1.60	1.70	1.72	7.31	ppb
Selenium	77-2	22.41	23.29	24.74	23.48	5.01	ppb
Selenium	78-2	3.30	4.54	4.93	4.26	19.97	ppb
Silicon	28-1	607.59	510.99	573.55	564.04	8.69	ppb
Silver	107-1	7.68	6.68	7.22	7.19	6.92	ppb
Silver	109-1	7.75	6.80	7.20	7.25	6.58	ppb
Sodium	23-2	7683.85	7646.95	7749.32	7693.37	0.67	ppb
Strontium	86-1	502.68	435.50	470.87	469.68	7.15	ppb
Strontium	88-1	501.41	429.50	473.89	468.27	7.75	ppb
Sulfur	34-1	51293.11	42878.38	47842.26	47337.92	8.94	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.36	0.39	0.49	0.41	17.28	ppb
Thallium	205-1	0.35	0.38	0.48	0.40	16.41	ppb
Tin	118-1	15.56	13.48	14.63	14.55	7.16	ppb
Titanium	47-1	212.75	182.43	197.20	197.46	7.68	ppb
Uranium	238-1	1.44	1.23	1.34	1.34	7.57	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	20.62	20.85	21.10	20.86	1.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	1698.91	1716.05	1736.79	1717.25	1.10	ppb
Zirconium	90-1	7.94	6.90	7.60	7.48	7.10	ppb
Zirconium	91-1	7.80	6.84	7.59	7.41	6.86	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5178.39	5322.30	5364.26	5288.32	1.84	ppb
Antimony	121-1	3.98	3.98	4.02	3.99	0.65	ppb
Arsenic	75-2	11.23	12.68	12.26	12.06	6.18	ppb
Barium	135-1	174.87	175.51	177.85	176.07	0.89	ppb
Barium	137-1	177.78	177.64	180.61	178.68	0.94	ppb
Beryllium	9-1	0.55	0.52	0.55	0.54	3.34	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	7.05	7.03	6.94	7.01	0.88	ppb
Cadmium	106-1	5.91	7.14	6.02	6.36	10.71	ppb
Cadmium	111-1	6.37	6.61	6.53	6.50	1.90	ppb
Calcium	43-1	142483.29	142590.45	144456.76	143176.84	0.78	ppb
Calcium	44-1	144546.84	142421.11	145481.75	144149.90	1.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.88	21.99	22.32	22.07	1.04	ppb
Cobalt	59-2	6.18	6.46	6.31	6.32	2.17	ppb
Copper	63-2	108.68	111.63	111.62	110.64	1.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	13902.43	14453.17	14461.09	14272.23	2.24	ppb
Iron	56-2	13772.58	14131.32	14354.59	14086.16	2.08	ppb
Iron	57-2	12965.50	13464.68	13590.03	13340.07	2.48	ppb
Krypton	83-1						cps
Lead	206-1	435.23	437.30	436.89	436.47	0.25	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	409.89	409.35	414.24	411.16	0.65	ppb
Lead	208-1	417.52	417.04	418.83	417.80	0.22	ppb
Lithium	6-1				96		%
Magnesium	24-2	4804.35	4956.06	4979.30	4913.24	1.93	ppb
Manganese	55-2	448.97	462.85	468.20	460.01	2.16	ppb
Molybdenum	94-1	15.15	15.44	15.50	15.37	1.23	ppb
Molybdenum	95-1	2.54	2.54	2.59	2.56	1.15	ppb
Molybdenum	96-1	3.87	3.88	4.01	3.92	1.94	ppb
Molybdenum	97-1	2.53	2.53	2.62	2.56	1.93	ppb
Molybdenum	98-1	2.59	2.53	2.56	2.56	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.24	18.86	18.49	18.53	1.67	ppb
Phosphorus	31-2	2125.31	2227.43	2434.11	2262.28	6.95	ppb
Potassium	39-2	3687.10	3810.76	3850.39	3782.75	2.25	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	1.42	1.22	1.45	1.36	9.28	ppb
Selenium	77-2	18.63	24.40	16.16	19.73	21.42	ppb
Selenium	78-2	4.77	7.39	2.82	4.99	45.98	ppb
Silicon	28-1	537.68	540.36	544.19	540.75	0.60	ppb
Silver	107-1	7.10	6.91	7.11	7.04	1.63	ppb
Silver	109-1	7.08	7.02	7.12	7.07	0.72	ppb
Sodium	23-2	7464.94	7550.62	7558.08	7524.55	0.69	ppb
Strontium	86-1	456.76	460.25	457.40	458.13	0.41	ppb
Strontium	88-1	449.62	446.80	459.05	451.82	1.42	ppb
Sulfur	34-1	46703.00	46709.16	47424.47	46945.54	0.88	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.31	0.34	0.38	0.34	10.89	ppb
Thallium	205-1	0.32	0.35	0.39	0.35	10.03	ppb
Tin	118-1	14.09	14.31	14.36	14.25	0.98	ppb
Titanium	47-1	193.01	191.26	200.47	194.91	2.51	ppb
Uranium	238-1	1.30	1.31	1.30	1.30	0.64	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.79	20.54	20.76	20.37	2.50	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	1641.22	1694.73	1699.54	1678.49	1.93	ppb
Zirconium	90-1	7.25	7.25	7.49	7.33	1.90	ppb
Zirconium	91-1	7.08	7.23	7.29	7.20	1.50	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1167.07	1055.95	1100.27	1107.76	5.05	ppb
Antimony	121-1	0.84	0.84	0.82	0.83	1.28	ppb
Arsenic	75-2	3.00	2.17	2.65	2.61	16.07	ppb
Barium	135-1	35.94	35.94	35.74	35.87	0.32	ppb
Barium	137-1	36.35	36.40	36.36	36.37	0.07	ppb
Beryllium	9-1	0.12	0.14	0.14	0.13	7.78	ppb
Bismuth	209-1				95		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.24	1.55	1.55	1.45	12.40	ppb
Cadmium	106-1	0.32	0.38	-0.04	0.22	104.49	ppb
Cadmium	111-1	1.34	1.30	1.33	1.32	1.59	ppb
Calcium	43-1	30252.67	30091.29	30031.04	30125.00	0.38	ppb
Calcium	44-1	29818.45	29686.28	29419.31	29641.35	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.73	4.56	4.60	4.63	1.93	ppb
Cobalt	59-2	1.50	1.25	1.35	1.36	9.37	ppb
Copper	63-2	25.38	23.16	24.08	24.21	4.60	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				92		%
Iron	54-2	2982.25	2758.67	2834.65	2858.52	3.98	ppb
Iron	56-2	3107.62	2899.42	2929.24	2978.76	3.78	ppb
Iron	57-2	2967.40	2731.03	2781.96	2826.80	4.40	ppb
Krypton	83-1						cps
Lead	206-1	82.17	82.66	82.92	82.58	0.46	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	79.50	79.41	79.25	79.39	0.16	ppb
Lead	208-1	82.64	84.05	84.24	83.64	1.04	ppb
Lithium	6-1				96		%
Magnesium	24-2	1084.59	997.11	1031.19	1037.63	4.25	ppb
Manganese	55-2	101.10	93.98	98.06	97.71	3.66	ppb
Molybdenum	94-1	3.19	3.22	3.12	3.18	1.53	ppb
Molybdenum	95-1	0.52	0.54	0.54	0.53	1.56	ppb
Molybdenum	96-1	0.79	0.86	0.85	0.84	4.45	ppb
Molybdenum	97-1	0.57	0.53	0.51	0.54	6.10	ppb
Molybdenum	98-1	0.54	0.55	0.54	0.55	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.15	3.90	4.01	4.02	3.10	ppb
Phosphorus	31-2	434.69	412.98	428.66	425.44	2.63	ppb
Potassium	39-2	837.58	769.59	788.66	798.61	4.39	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	0.27	0.58	0.45	0.43	35.02	ppb
Selenium	77-2	5.71	8.62	4.25	6.19	35.96	ppb
Selenium	78-2	2.69	-0.20	0.15	0.88	178.45	ppb
Silicon	28-1	112.62	111.92	110.93	111.82	0.76	ppb
Silver	107-1	1.51	1.52	1.52	1.51	0.44	ppb
Silver	109-1	1.50	1.49	1.52	1.51	1.03	ppb
Sodium	23-2	1584.21	1473.10	1500.35	1519.22	3.81	ppb
Strontium	86-1	90.60	90.18	90.42	90.40	0.24	ppb
Strontium	88-1	97.09	96.16	95.78	96.34	0.70	ppb
Sulfur	34-1	9744.83	11414.33	11487.81	10882.32	9.06	ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	0.08	0.07	0.07	0.07	5.78	ppb
Thallium	205-1	0.08	0.07	0.07	0.07	4.76	ppb
Tin	118-1	2.96	2.95	2.95	2.95	0.18	ppb
Titanium	47-1	40.26	39.42	40.19	39.96	1.16	ppb
Uranium	238-1	0.26	0.26	0.26	0.26	1.91	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.44	3.97	4.31	4.24	5.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				93		%
Zinc	66-2	375.79	347.70	357.38	360.29	3.96	ppb
Zirconium	90-1	1.47	1.48	1.48	1.47	0.41	ppb
Zirconium	91-1	1.45	1.45	1.50	1.47	2.01	ppb

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Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5408.42	5440.67	5239.51	5362.87	2.01	ppb
Antimony	121-1	22.53	23.45	23.46	23.15	2.32	ppb
Arsenic	75-2	19.46	19.94	18.24	19.21	4.56	ppb
Barium	135-1	587.00	598.72	594.65	593.46	1.00	ppb
Barium	137-1	577.09	589.82	609.99	592.30	2.80	ppb
Beryllium	9-1	9.74	10.13	10.04	9.97	2.05	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	14.50	15.33	15.66	15.16	3.94	ppb
Cadmium	106-1	14.27	13.66	14.02	13.98	2.17	ppb
Cadmium	111-1	15.69	16.39	16.23	16.10	2.27	ppb
Calcium	43-1	134840.49	138162.91	138373.33	137125.58	1.45	ppb
Calcium	44-1	135035.79	140023.45	138592.44	137883.89	1.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59.12	60.01	57.29	58.80	2.36	ppb
Cobalt	59-2	102.98	104.54	100.58	102.70	1.94	ppb
Copper	63-2	157.13	160.45	154.47	157.35	1.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				95		%
Iron	54-2	13058.19	13178.07	12732.34	12989.53	1.78	ppb
Iron	56-2	13562.31	13493.82	13338.79	13464.97	0.85	ppb
Iron	57-2	12762.47	12986.65	12467.60	12738.91	2.04	ppb
Krypton	83-1						cps
Lead	206-1	412.73	424.54	428.26	421.84	1.92	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	396.59	397.54	415.58	403.23	2.65	ppb
Lead	208-1	397.27	407.09	415.61	406.66	2.26	ppb
Lithium	6-1				97		%
Magnesium	24-2	4664.14	4747.59	4534.88	4648.87	2.31	ppb
Manganese	55-2	525.15	532.54	515.72	524.47	1.61	ppb
Molybdenum	94-1	14.19	14.85	15.00	14.68	2.97	ppb
Molybdenum	95-1	2.37	2.53	2.49	2.46	3.39	ppb
Molybdenum	96-1	3.67	3.80	3.74	3.74	1.74	ppb
Molybdenum	97-1	2.43	2.44	2.46	2.45	0.75	ppb
Molybdenum	98-1	2.37	2.40	2.50	2.42	2.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	120.94	123.12	119.30	121.12	1.58	ppb
Phosphorus	31-2	2186.99	2167.01	2083.04	2145.68	2.57	ppb
Potassium	39-2	3578.67	3609.10	3470.75	3552.84	2.05	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	20.92	22.36	22.39	21.89	3.84	ppb
Selenium	77-2	37.73	40.66	33.33	37.24	9.91	ppb
Selenium	78-2	22.21	23.94	26.81	24.32	9.55	ppb
Silicon	28-1	512.67	530.56	523.70	522.31	1.73	ppb
Silver	107-1	16.11	16.52	16.43	16.35	1.32	ppb
Silver	109-1	15.90	16.59	16.74	16.41	2.72	ppb
Sodium	23-2	7234.41	7332.09	7073.25	7213.25	1.81	ppb
Strontium	86-1	423.68	436.36	437.17	432.40	1.75	ppb
Strontium	88-1	426.46	432.86	438.98	432.77	1.45	ppb
Sulfur	34-1	44243.21	46177.95	45841.49	45420.89	2.28	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	9.36	9.44	9.84	9.55	2.73	ppb
Thallium	205-1	9.25	9.47	9.72	9.48	2.51	ppb
Tin	118-1	13.53	13.93	13.90	13.78	1.63	ppb
Titanium	47-1	181.49	186.40	189.67	185.85	2.21	ppb
Uranium	238-1	1.24	1.22	1.29	1.25	2.84	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	113.72	115.15	111.22	113.36	1.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	1689.08	1711.10	1650.99	1683.72	1.81	ppb
Zirconium	90-1	6.74	6.78	7.15	6.89	3.32	ppb
Zirconium	91-1	6.61	7.15	8.22	7.33	11.16	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5856.48	5978.56	5851.22	5895.42	1.22	ppb
Antimony	121-1	2.86	2.83	2.91	2.86	1.41	ppb
Arsenic	75-2	8.17	8.16	7.83	8.05	2.34	ppb
Barium	135-1	151.23	152.66	152.16	152.02	0.48	ppb
Barium	137-1	151.18	154.09	154.90	153.39	1.28	ppb
Beryllium	9-1	0.57	0.59	0.62	0.59	4.08	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	16.91	17.40	17.11	17.14	1.43	ppb
Cadmium	106-1	17.43	17.04	16.87	17.11	1.69	ppb
Cadmium	111-1	17.88	17.65	18.04	17.86	1.10	ppb
Calcium	43-1	74239.39	76149.45	76627.07	75671.97	1.67	ppb
Calcium	44-1	73265.09	75826.25	75479.50	74856.95	1.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	47.95	48.40	47.55	47.97	0.89	ppb
Cobalt	59-2	6.54	6.68	6.43	6.55	1.89	ppb
Copper	63-2	167.58	166.84	165.31	166.58	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				99		%
Holmium	165-2				96		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	54-2	11446.08	11437.27	11228.72	11370.69	1.08	ppb
Iron	56-2	11996.88	11880.43	11696.73	11858.01	1.28	ppb
Iron	57-2	11323.69	11250.69	11183.99	11252.79	0.62	ppb
Krypton	83-1						cps
Lead	206-1	708.22	719.50	723.98	717.23	1.13	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	640.07	651.15	654.56	648.59	1.17	ppb
Lead	208-1	663.56	668.63	680.66	670.95	1.31	ppb
Lithium	6-1				95		%
Magnesium	24-2	7571.40	7376.97	7320.15	7422.84	1.78	ppb
Manganese	55-2	537.82	534.61	531.05	534.49	0.63	ppb
Molybdenum	94-1	15.92	16.47	16.08	16.16	1.74	ppb
Molybdenum	95-1	1.75	1.84	1.83	1.81	2.88	ppb
Molybdenum	96-1	3.34	3.46	3.39	3.39	1.76	ppb
Molybdenum	97-1	1.77	1.79	1.80	1.79	0.83	ppb
Molybdenum	98-1	1.83	1.85	1.83	1.84	0.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	22.92	23.08	22.82	22.94	0.57	ppb
Phosphorus	31-2	14769.63	14813.74	14626.27	14736.54	0.67	ppb
Potassium	39-2	70295.74	70716.07	69819.57	70277.13	0.64	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				95		%
Selenium	82-1	1.26	1.34	1.70	1.43	16.32	ppb
Selenium	77-2	16.26	20.75	17.36	18.12	12.92	ppb
Selenium	78-2	5.67	1.76	5.01	4.15	50.43	ppb
Silicon	28-1	522.70	533.48	530.80	528.99	1.06	ppb
Silver	107-1	24.60	24.81	24.79	24.73	0.46	ppb
Silver	109-1	24.69	24.87	25.10	24.89	0.83	ppb
Sodium	23-2	37311.31	37172.44	37172.38	37218.71	0.22	ppb
Strontium	86-1	212.77	216.07	214.98	214.61	0.78	ppb
Strontium	88-1	225.62	228.14	226.59	226.79	0.56	ppb
Sulfur	34-1	55329.50	57516.69	57540.43	56795.54	2.24	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	0.25	0.25	0.27	0.26	5.89	ppb
Thallium	205-1	0.24	0.25	0.28	0.25	7.95	ppb
Tin	118-1	12.98	13.08	13.12	13.06	0.55	ppb
Titanium	47-1	201.73	210.50	211.67	207.96	2.61	ppb
Uranium	238-1	11.05	11.22	11.31	11.19	1.17	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	28.35	27.85	27.87	28.02	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				97		%
Zinc	66-2	3467.06	3457.57	3411.99	3445.54	0.85	ppb
Zirconium	90-1	7.94	8.09	8.06	8.03	1.03	ppb
Zirconium	91-1	7.81	8.20	7.97	8.00	2.44	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.61	-0.27	-0.69	-0.52		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	1138.95	ppb
Arsenic	75-2	0.00	-0.02	-0.02	-0.02		ppb
Barium	135-1	-0.04	-0.05	-0.05	-0.05		ppb
Barium	137-1	-0.05	-0.05	-0.05	-0.05		ppb
Beryllium	9-1	0.02	0.02	0.01	0.02	25.65	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.09	0.03	-0.02		ppb
Cadmium	106-1	-2.39	-1.50	-1.48	-1.79		ppb
Cadmium	111-1	-0.05	-0.02	-0.03	-0.04		ppb
Calcium	43-1	-0.83	-1.24	-2.13	-1.40		ppb
Calcium	44-1	-4.65	-4.90	-4.95	-4.83		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.03	-0.04	-0.02		ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	87.28	ppb
Copper	63-2	0.47	0.56	0.57	0.53	9.94	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				91		%
Holmium	165-2				90		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	54-2	0.47	0.69	0.78	0.65	24.41	ppb
Iron	56-2	0.33	0.25	0.29	0.29	13.46	ppb
Iron	57-2	0.02	0.33	-0.41	-0.02		ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.06	0.05	0.05	7.90	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.06	0.07	0.06	25.21	ppb
Lead	208-1	0.05	0.06	0.05	0.05	10.35	ppb
Lithium	6-1				91		%
Magnesium	24-2	0.42	0.30	0.53	0.42	27.97	ppb
Manganese	55-2	0.14	0.13	0.10	0.13	15.31	ppb
Molybdenum	94-1	0.00	0.00	0.01	0.01	113.28	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	118.15	ppb
Molybdenum	96-1	0.00	0.00	0.01	0.00	226.98	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	154.86	ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	38.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	-0.07	-0.09	-0.04		ppb
Phosphorus	31-2	-28.57	-13.95	-17.30	-19.94		ppb
Potassium	39-2	-4.63	-5.27	-5.76	-5.22		ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				90		%
Scandium	45-2				86		%
Selenium	82-1	0.13	0.09	-0.05	0.05	171.48	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.57	-0.16	-0.53	-0.04		ppb
Silicon	28-1	-1.19	-1.20	-1.18	-1.19		ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.66	ppb
Silver	109-1	0.01	0.01	0.00	0.01	17.89	ppb
Sodium	23-2	5.00	4.97	3.31	4.43	21.74	ppb
Strontium	86-1	0.00	0.02	0.00	0.00	409.24	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	570.04	ppb
Sulfur	34-1	-565.23	-586.02	-627.29	-592.85		ppb
Terbium	159-1				90		%
Terbium	159-2				90		%
Thallium	203-1	0.02	0.03	0.02	0.02	26.18	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	7.98	ppb
Tin	118-1	0.00	-0.01	-0.02	-0.01		ppb
Titanium	47-1	0.00	0.00	0.02	0.01	231.36	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	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				91		%
Yttrium	89-2				86		%
Zinc	66-2	-0.04	-0.15	-0.12	-0.10		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	195.84	ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.37	39.88	42.69	41.31	3.41	ppb
Antimony	121-1	3.75	3.87	3.91	3.84	2.21	ppb
Arsenic	75-2	2.17	2.25	2.46	2.29	6.36	ppb
Barium	135-1	18.77	18.79	19.15	18.90	1.12	ppb
Barium	137-1	18.62	19.26	19.54	19.14	2.49	ppb
Beryllium	9-1	1.88	1.91	1.94	1.91	1.62	ppb
Bismuth	209-1				89		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	2.15	2.31	1.74	2.07	14.12	ppb
Cadmium	106-1	0.45	0.49	-1.09	-0.05		ppb
Cadmium	111-1	1.87	1.98	2.07	1.97	5.04	ppb
Calcium	43-1	1073.49	1114.77	1113.44	1100.57	2.13	ppb
Calcium	44-1	1018.66	1045.51	1045.45	1036.54	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.82	3.79	3.82	3.81	0.40	ppb
Cobalt	59-2	2.06	2.02	2.14	2.08	3.02	ppb
Copper	63-2	5.02	4.72	5.13	4.96	4.26	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				88		%
Indium	115-1				89		%
Indium	115-2				84		%
Iron	54-2	433.14	423.53	453.72	436.80	3.53	ppb
Iron	56-2	426.80	424.98	441.15	430.97	2.05	ppb
Iron	57-2	409.23	412.28	435.79	419.10	3.47	ppb
Krypton	83-1						cps
Lead	206-1	1.89	1.83	1.88	1.87	1.78	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.87	1.86	1.91	1.88	1.58	ppb
Lead	208-1	1.87	1.86	1.94	1.89	2.36	ppb
Lithium	6-1				92		%
Magnesium	24-2	1000.58	993.31	1033.73	1009.21	2.14	ppb
Manganese	55-2	2.05	2.04	2.07	2.05	0.93	ppb
Molybdenum	94-1	10.99	11.47	11.21	11.22	2.10	ppb
Molybdenum	95-1	9.37	9.46	9.57	9.46	1.03	ppb
Molybdenum	96-1	9.55	9.78	9.84	9.73	1.56	ppb
Molybdenum	97-1	9.40	9.56	9.73	9.56	1.73	ppb
Molybdenum	98-1	9.34	9.44	9.54	9.44	1.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.15	2.32	1.98	2.15	7.72	ppb
Phosphorus	31-2	48.00	6.89	29.76	28.22	73.01	ppb
Potassium	39-2	971.68	950.73	1009.34	977.25	3.04	ppb
Rhodium	103-1				87		%
Rhodium	103-2				86		%
Scandium	45-1				88		%
Scandium	45-2				82		%
Selenium	82-1	9.85	10.09	10.19	10.04	1.74	ppb
Selenium	77-2	7.25	7.40	7.62	7.42	2.53	ppb
Selenium	78-2	13.66	11.27	10.05	11.66	15.75	ppb
Silicon	28-1	3.78	4.10	4.11	4.00	4.62	ppb
Silver	107-1	1.86	1.93	1.93	1.91	2.27	ppb
Silver	109-1	1.90	1.94	1.94	1.93	1.20	ppb
Sodium	23-2	1001.89	989.74	1032.60	1008.08	2.19	ppb
Strontium	86-1	323.02	328.37	332.30	327.90	1.42	ppb
Strontium	88-1	342.08	347.54	345.87	345.17	0.81	ppb
Sulfur	34-1	-514.20	-454.29	-501.67	-490.05		ppb
Terbium	159-1				89		%
Terbium	159-2				87		%
Thallium	203-1	1.79	1.76	1.84	1.80	2.14	ppb
Thallium	205-1	1.80	1.81	1.82	1.81	0.58	ppb
Tin	118-1	9.38	9.74	9.95	9.69	2.95	ppb
Titanium	47-1	10.61	11.00	10.76	10.79	1.85	ppb
Uranium	238-1	1.73	1.72	1.76	1.74	1.13	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.04	9.91	10.55	10.17	3.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				83		%
Zinc	66-2	10.23	10.41	10.75	10.46	2.55	ppb
Zirconium	90-1	1.85	1.89	1.90	1.88	1.41	ppb
Zirconium	91-1	1.95	1.87	1.89	1.90	2.15	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23845.81	24156.16	24010.85	24004.28	0.65	ppb
Antimony	121-1	6.48	6.67	6.58	6.58	1.43	ppb
Arsenic	75-2	71.24	72.39	69.03	70.89	2.41	ppb
Barium	135-1	233.82	237.77	233.54	235.04	1.01	ppb
Barium	137-1	237.87	241.04	237.02	238.64	0.89	ppb
Beryllium	9-1	0.86	0.91	0.88	0.88	3.14	ppb
Bismuth	209-1				86		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	10.43	10.04	10.13	10.20	2.03	ppb
Cadmium	106-1	15.09	15.66	15.05	15.27	2.22	ppb
Cadmium	111-1	2.46	2.54	2.37	2.46	3.33	ppb
Calcium	43-1	521450.21	517757.62	529189.31	522799.05	1.12	ppb
Calcium	44-1	519339.14	523272.68	529113.02	523908.28	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	68.00	67.78	67.10	67.63	0.70	ppb
Cobalt	59-2	10.52	10.63	10.34	10.50	1.44	ppb
Copper	63-2	73.88	74.88	74.94	74.57	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				92		%
Holmium	165-2				91		%
Indium	115-1				89		%
Indium	115-2				87		%
Iron	54-2	31870.64	31545.57	31972.51	31796.24	0.70	ppb
Iron	56-2	31681.58	31678.71	31514.74	31625.01	0.30	ppb
Iron	57-2	30002.08	29970.21	30100.44	30024.24	0.23	ppb
Krypton	83-1						cps
Lead	206-1	59.33	60.83	59.59	59.92	1.34	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	58.58	58.99	59.09	58.88	0.45	ppb
Lead	208-1	58.91	59.97	59.10	59.33	0.95	ppb
Lithium	6-1				88		%
Magnesium	24-2	7856.76	7936.35	7840.31	7877.81	0.65	ppb
Manganese	55-2	1023.44	1027.45	1024.37	1025.09	0.20	ppb
Molybdenum	94-1	190.54	192.10	193.49	192.04	0.77	ppb
Molybdenum	95-1	88.03	88.49	89.22	88.58	0.68	ppb
Molybdenum	96-1	98.74	99.77	100.59	99.70	0.93	ppb
Molybdenum	97-1	90.06	89.26	90.36	89.89	0.63	ppb
Molybdenum	98-1	88.11	88.29	88.93	88.44	0.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.32	26.77	27.13	26.74	1.53	ppb
Phosphorus	31-2	550.56	521.49	493.10	521.72	5.51	ppb
Potassium	39-2	6203.43	6186.96	6171.31	6187.23	0.26	ppb
Rhodium	103-1				85		%
Rhodium	103-2				84		%
Scandium	45-1				95		%
Scandium	45-2				91		%
Selenium	82-1	1.65	1.41	1.18	1.41	16.68	ppb
Selenium	77-2	18.42	14.62	13.49	15.51	16.66	ppb
Selenium	78-2	1.89	6.26	5.25	4.47	51.17	ppb
Silicon	28-1	12567.92	12869.68	12994.12	12810.57	1.71	ppb
Silver	107-1	0.33	0.27	0.27	0.29	12.35	ppb
Silver	109-1	0.25	0.22	0.21	0.23	9.14	ppb
Sodium	23-2	1492.94	1492.35	1488.67	1491.32	0.16	ppb
Strontium	86-1	590.22	600.62	597.72	596.19	0.90	ppb
Strontium	88-1	583.51	590.21	595.02	589.58	0.98	ppb
Sulfur	34-1	11466.21	11450.28	11681.12	11532.54	1.12	ppb
Terbium	159-1				92		%
Terbium	159-2				90		%
Thallium	203-1	0.13	0.12	0.11	0.12	6.73	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	2.26	ppb
Tin	118-1	3.92	3.99	3.90	3.94	1.17	ppb
Titanium	47-1	1344.08	1371.09	1377.96	1364.38	1.31	ppb
Uranium	238-1	2.55	2.58	2.56	2.56	0.67	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	120.76	121.13	120.04	120.64	0.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	471.76	472.94	467.57	470.76	0.60	ppb
Zirconium	90-1	64.35	68.22	68.00	66.86	3.25	ppb
Zirconium	91-1	63.88	64.52	65.70	64.70	1.43	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17069.36	17276.28	17341.53	17229.05	0.82	ppb
Antimony	121-1	0.66	0.66	0.68	0.66	1.83	ppb
Arsenic	75-2	19.00	19.06	19.72	19.26	2.07	ppb
Barium	135-1	98.23	98.56	97.51	98.10	0.55	ppb
Barium	137-1	99.68	99.10	99.20	99.33	0.31	ppb
Beryllium	9-1	0.72	0.69	0.70	0.70	2.65	ppb
Bismuth	209-1				92		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.44	0.78	0.76	0.66	29.03	ppb
Cadmium	106-1	-1.57	-1.19	-1.41	-1.39		ppb
Cadmium	111-1	0.14	0.14	0.15	0.14	5.44	ppb
Calcium	43-1	7222.51	7204.04	7226.96	7217.84	0.17	ppb
Calcium	44-1	7440.65	7508.43	7503.68	7484.25	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	165.02	164.56	164.49	164.69	0.17	ppb
Cobalt	59-2	27.95	28.17	28.34	28.15	0.69	ppb
Copper	63-2	143.21	145.09	145.88	144.73	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	54-2	73543.21	74297.80	73632.63	73824.55	0.56	ppb
Iron	56-2	73381.79	74264.93	74179.33	73942.02	0.66	ppb
Iron	57-2	73366.64	73678.59	75491.99	74179.07	1.55	ppb
Krypton	83-1						cps
Lead	206-1	14.28	14.26	14.09	14.21	0.74	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	13.56	13.77	13.48	13.60	1.13	ppb
Lead	208-1	13.75	13.90	13.72	13.79	0.69	ppb
Lithium	6-1				95		%
Magnesium	24-2	11167.09	11446.98	11338.42	11317.50	1.25	ppb
Manganese	55-2	1682.72	1690.42	1702.85	1692.00	0.60	ppb
Molybdenum	94-1	23.23	22.83	22.94	23.00	0.89	ppb
Molybdenum	95-1	25.42	25.61	25.44	25.49	0.41	ppb
Molybdenum	96-1	25.02	25.44	25.36	25.27	0.87	ppb
Molybdenum	97-1	25.56	26.04	26.11	25.91	1.15	ppb
Molybdenum	98-1	25.15	25.52	25.64	25.44	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.92	25.49	25.37	25.26	1.19	ppb
Phosphorus	31-2	2390.19	2333.38	2328.47	2350.68	1.46	ppb
Potassium	39-2	933.31	923.24	939.40	931.99	0.88	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	0.68	0.51	0.65	0.61	14.73	ppb
Selenium	77-2	17.71	9.92	20.22	15.95	33.68	ppb
Selenium	78-2	4.13	4.18	2.84	3.71	20.46	ppb
Silicon	28-1	734.26	717.08	689.60	713.65	3.16	ppb
Silver	107-1	0.11	0.11	0.13	0.11	10.18	ppb
Silver	109-1	0.11	0.11	0.12	0.12	5.76	ppb
Sodium	23-2	336.51	337.28	361.21	345.00	4.07	ppb
Strontium	86-1	44.84	45.17	44.98	45.00	0.37	ppb
Strontium	88-1	48.40	48.56	48.26	48.41	0.31	ppb
Sulfur	34-1	-604.80	-521.28	-616.90	-580.99		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.10	0.12	0.13	0.12	13.55	ppb
Thallium	205-1	0.10	0.12	0.13	0.12	12.58	ppb
Tin	118-1	2.43	2.44	2.45	2.44	0.49	ppb
Titanium	47-1	283.02	282.34	285.10	283.48	0.51	ppb
Uranium	238-1	0.31	0.31	0.31	0.31	0.26	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	76.63	77.04	77.22	76.96	0.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				94		%
Zinc	66-2	91.84	93.96	93.74	93.18	1.25	ppb
Zirconium	90-1	0.86	1.55	0.87	1.09	35.82	ppb
Zirconium	91-1	0.88	0.91	0.85	0.88	3.38	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3739.95	3681.30	3661.45	3694.23	1.10	ppb
Antimony	121-1	0.27	0.26	0.26	0.26	2.45	ppb
Arsenic	75-2	2.59	2.45	2.77	2.61	6.14	ppb
Barium	135-1	32.02	31.52	31.03	31.52	1.58	ppb
Barium	137-1	32.49	31.67	31.25	31.80	1.98	ppb
Beryllium	9-1	0.10	0.09	0.08	0.09	9.08	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.64	1.51	1.33	1.49	10.46	ppb
Cadmium	106-1	-0.68	-0.89	0.29	-0.42		ppb
Cadmium	111-1	1.30	1.19	1.30	1.26	4.77	ppb
Calcium	43-1	25945.23	25811.77	26941.47	26232.82	2.35	ppb
Calcium	44-1	26991.15	26037.39	26727.30	26585.28	1.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.22	5.00	5.11	5.11	2.07	ppb
Cobalt	59-2	2.33	2.30	2.25	2.30	1.86	ppb
Copper	63-2	14.73	14.94	14.79	14.82	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				97		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				94		%
Iron	54-2	7378.12	7193.40	7207.14	7259.55	1.42	ppb
Iron	56-2	7655.20	7452.17	7455.41	7520.93	1.55	ppb
Iron	57-2	7261.74	7156.08	7123.47	7180.43	1.01	ppb
Krypton	83-1						cps
Lead	206-1	2.25	2.14	2.15	2.18	2.90	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.12	2.16	2.06	2.11	2.36	ppb
Lead	208-1	2.18	2.13	2.08	2.13	2.28	ppb
Lithium	6-1				96		%
Magnesium	24-2	2887.67	2823.56	2845.97	2852.40	1.14	ppb
Manganese	55-2	256.78	255.96	253.45	255.40	0.68	ppb
Molybdenum	94-1	7.92	7.94	7.75	7.87	1.31	ppb
Molybdenum	95-1	1.79	1.78	1.72	1.76	2.29	ppb
Molybdenum	96-1	2.53	2.49	2.47	2.50	1.25	ppb
Molybdenum	97-1	1.74	1.78	1.79	1.77	1.57	ppb
Molybdenum	98-1	1.79	1.74	1.72	1.75	2.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.89	26.42	26.01	26.44	1.65	ppb
Phosphorus	31-2	980.27	933.64	996.00	969.97	3.34	ppb
Potassium	39-2	491.09	481.53	479.75	484.13	1.26	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	0.04	0.16	0.73	0.31	118.92	ppb
Selenium	77-2	4.12	0.74	5.21	3.36	69.41	ppb
Selenium	78-2	2.11	1.10	1.44	1.55	33.30	ppb
Silicon	28-1	1041.05	997.66	1022.24	1020.32	2.13	ppb
Silver	107-1	0.06	0.07	0.08	0.07	16.01	ppb
Silver	109-1	0.05	0.07	0.08	0.07	18.00	ppb
Sodium	23-2	259.07	251.28	259.35	256.56	1.79	ppb
Strontium	86-1	41.00	41.32	40.28	40.87	1.30	ppb
Strontium	88-1	44.42	43.22	43.17	43.60	1.62	ppb
Sulfur	34-1	138.13	-218.27	-27.17	-35.77		ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	0.06	0.07	0.10	0.08	24.44	ppb
Thallium	205-1	0.06	0.08	0.09	0.08	18.07	ppb
Tin	118-1	0.46	0.43	0.44	0.44	4.30	ppb
Titanium	47-1	90.49	87.82	88.96	89.09	1.50	ppb
Uranium	238-1	0.12	0.12	0.12	0.12	0.32	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	7.12	7.10	7.20	7.14	0.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	53.81	54.35	52.48	53.55	1.80	ppb
Zirconium	90-1	3.50	3.40	3.48	3.46	1.48	ppb
Zirconium	91-1	3.41	3.48	3.36	3.42	1.64	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3626.14	3218.01	3565.09	3469.75	6.34	ppb
Antimony	121-1	0.26	0.28	0.28	0.28	3.64	ppb
Arsenic	75-2	2.53	2.12	2.33	2.33	8.91	ppb
Barium	135-1	32.14	32.72	33.42	32.76	1.96	ppb
Barium	137-1	32.53	33.04	33.99	33.19	2.23	ppb
Beryllium	9-1	0.08	0.11	0.09	0.09	12.78	ppb
Bismuth	209-1				95		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	1.47	1.68	1.46	1.54	7.95	ppb
Cadmium	106-1	0.22	0.63	0.05	0.30	100.36	ppb
Cadmium	111-1	1.38	1.33	1.36	1.36	1.91	ppb
Calcium	43-1	26812.51	27224.04	27078.01	27038.18	0.77	ppb
Calcium	44-1	26689.66	27103.21	27473.63	27088.83	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.97	4.38	5.15	4.83	8.27	ppb
Cobalt	59-2	2.24	2.03	2.25	2.17	5.89	ppb
Copper	63-2	14.78	13.25	14.99	14.34	6.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				103		%
Indium	115-1				98		%
Indium	115-2				101		%
Iron	54-2	7096.75	6390.11	7112.77	6866.54	6.01	ppb
Iron	56-2	7391.28	6650.79	7442.46	7161.51	6.19	ppb
Iron	57-2	7069.47	6297.99	7022.63	6796.70	6.36	ppb
Krypton	83-1						cps
Lead	206-1	2.15	2.19	2.28	2.21	2.91	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.15	2.10	2.19	2.15	2.00	ppb
Lead	208-1	2.14	2.13	2.23	2.16	2.49	ppb
Lithium	6-1				93		%
Magnesium	24-2	2790.52	2503.43	2766.39	2686.78	5.93	ppb
Manganese	55-2	253.38	221.88	250.17	241.81	7.17	ppb
Molybdenum	94-1	7.97	7.73	8.04	7.91	2.08	ppb
Molybdenum	95-1	1.80	1.79	1.84	1.81	1.66	ppb
Molybdenum	96-1	2.42	2.42	2.52	2.45	2.30	ppb
Molybdenum	97-1	1.78	1.91	1.86	1.85	3.44	ppb
Molybdenum	98-1	1.81	1.78	1.86	1.81	2.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.43	23.20	25.92	24.85	5.82	ppb
Phosphorus	31-2	962.54	834.53	875.33	890.80	7.34	ppb
Potassium	39-2	470.62	414.23	469.96	451.61	7.17	ppb
Rhodium	103-1				97		%
Rhodium	103-2				105		%
Scandium	45-1				99		%
Scandium	45-2				103		%
Selenium	82-1	0.46	0.39	0.41	0.42	8.90	ppb
Selenium	77-2	7.88	10.72	2.69	7.10	57.38	ppb
Selenium	78-2	1.90	0.56	1.87	1.44	52.96	ppb
Silicon	28-1	1013.14	1070.59	1041.79	1041.84	2.76	ppb
Silver	107-1	0.06	0.07	0.07	0.07	10.25	ppb
Silver	109-1	0.06	0.07	0.07	0.07	4.61	ppb
Sodium	23-2	243.35	216.15	246.21	235.24	7.05	ppb
Strontium	86-1	40.73	41.23	42.45	41.47	2.14	ppb
Strontium	88-1	44.21	44.50	45.91	44.88	2.03	ppb
Sulfur	34-1	-29.64	100.74	133.56	68.22	126.53	ppb
Terbium	159-1				98		%
Terbium	159-2				103		%
Thallium	203-1	0.06	0.07	0.08	0.07	18.98	ppb
Thallium	205-1	0.06	0.08	0.08	0.07	12.09	ppb
Tin	118-1	0.41	0.45	0.47	0.44	7.08	ppb
Titanium	47-1	88.21	91.12	92.61	90.65	2.47	ppb
Uranium	238-1	0.12	0.12	0.13	0.12	3.13	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	7.09	6.17	7.09	6.79	7.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				109		%
Zinc	66-2	53.26	46.87	51.39	50.51	6.50	ppb
Zirconium	90-1	3.44	3.46	3.63	3.51	3.00	ppb
Zirconium	91-1	3.44	3.48	3.69	3.53	3.85	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	747.09	751.67	759.54	752.77	0.84	ppb
Antimony	121-1	0.05	0.05	0.04	0.05	5.71	ppb
Arsenic	75-2	0.58	0.53	0.37	0.49	21.78	ppb
Barium	135-1	6.71	6.19	6.43	6.45	4.03	ppb
Barium	137-1	6.64	6.03	6.50	6.39	4.98	ppb
Beryllium	9-1	0.03	0.02	0.02	0.02	29.34	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.41	0.14	0.15	0.23	65.37	ppb
Cadmium	106-1	-1.57	-2.16	-1.21	-1.65		ppb
Cadmium	111-1	0.21	0.17	0.22	0.20	13.14	ppb
Calcium	43-1	4977.35	4692.30	5057.08	4908.91	3.91	ppb
Calcium	44-1	5227.63	4906.45	5226.04	5120.04	3.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.08	1.06	1.08	1.07	0.95	ppb
Cobalt	59-2	0.44	0.45	0.46	0.45	2.76	ppb
Copper	63-2	3.41	3.48	3.47	3.45	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				100		%
Holmium	165-2				94		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	54-2	1463.65	1468.36	1479.19	1470.40	0.54	ppb
Iron	56-2	1584.97	1552.77	1559.94	1565.89	1.08	ppb
Iron	57-2	1441.67	1455.21	1453.52	1450.13	0.51	ppb
Krypton	83-1						cps
Lead	206-1	0.44	0.40	0.40	0.41	5.08	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.37	0.42	0.40	6.01	ppb
Lead	208-1	0.43	0.39	0.41	0.41	4.98	ppb
Lithium	6-1				96		%
Magnesium	24-2	585.92	580.33	576.40	580.88	0.82	ppb
Manganese	55-2	51.86	51.72	51.89	51.83	0.18	ppb
Molybdenum	94-1	1.57	1.42	1.66	1.55	7.91	ppb
Molybdenum	95-1	0.35	0.32	0.34	0.34	4.91	ppb
Molybdenum	96-1	0.49	0.43	0.49	0.47	7.27	ppb
Molybdenum	97-1	0.33	0.32	0.35	0.33	4.38	ppb
Molybdenum	98-1	0.36	0.33	0.33	0.34	5.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.17	5.15	5.25	5.19	0.95	ppb
Phosphorus	31-2	195.27	166.12	170.79	177.39	8.83	ppb
Potassium	39-2	95.86	97.72	95.97	96.52	1.08	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				91		%
Selenium	82-1	0.31	0.20	0.24	0.25	23.27	ppb
Selenium	77-2	0.81	0.81	-0.36	0.42	161.20	ppb
Selenium	78-2	-0.18	0.85	-0.53	0.05	1496.93	ppb
Silicon	28-1	203.69	188.54	201.14	197.79	4.10	ppb
Silver	107-1	0.02	0.01	0.02	0.02	10.35	ppb
Silver	109-1	0.01	0.02	0.01	0.01	7.28	ppb
Sodium	23-2	61.91	61.43	61.19	61.51	0.59	ppb
Strontium	86-1	8.13	7.39	8.00	7.84	5.05	ppb
Strontium	88-1	8.23	7.64	8.03	7.97	3.73	ppb
Sulfur	34-1	-615.45	-989.37	-682.41	-762.41		ppb
Terbium	159-1				100		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.01	0.01	0.01	26.23	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	13.06	ppb
Tin	118-1	0.07	0.06	0.07	0.07	10.36	ppb
Titanium	47-1	17.62	16.31	17.38	17.10	4.06	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.29	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.41	1.36	1.40	1.39	2.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				92		%
Zinc	66-2	10.54	10.89	10.76	10.73	1.65	ppb
Zirconium	90-1	0.71	0.63	0.65	0.67	6.47	ppb
Zirconium	91-1	0.71	0.66	0.66	0.68	4.25	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4294.48	4168.41	4148.34	4203.74	1.88	ppb
Antimony	121-1	19.46	20.00	20.03	19.83	1.63	ppb
Arsenic	75-2	12.15	11.51	12.75	12.14	5.08	ppb
Barium	135-1	414.06	433.75	431.71	426.51	2.54	ppb
Barium	137-1	440.52	464.86	450.62	452.00	2.71	ppb
Beryllium	9-1	9.56	9.98	9.78	9.77	2.11	ppb
Bismuth	209-1				99		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	9.93	11.07	9.97	10.32	6.30	ppb
Cadmium	106-1	7.14	7.45	7.29	7.29	2.10	ppb
Cadmium	111-1	10.15	10.56	10.42	10.38	2.00	ppb
Calcium	43-1	24329.44	25205.45	24965.72	24833.54	1.82	ppb
Calcium	44-1	24750.00	26064.00	25022.43	25278.81	2.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.29	43.75	44.10	44.05	0.61	ppb
Cobalt	59-2	105.21	103.88	104.78	104.62	0.65	ppb
Copper	63-2	68.42	66.99	68.04	67.82	1.09	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				97		%
Indium	115-1				102		%
Indium	115-2				95		%
Iron	54-2	8016.14	7856.78	7926.89	7933.27	1.01	ppb
Iron	56-2	8274.31	8185.94	8160.93	8207.06	0.73	ppb
Iron	57-2	7895.20	7748.31	7753.31	7798.94	1.07	ppb
Krypton	83-1						cps
Lead	206-1	6.75	7.05	7.02	6.94	2.33	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.65	6.82	6.90	6.79	1.88	ppb
Lead	208-1	6.71	6.86	6.99	6.86	2.05	ppb
Lithium	6-1				96		%
Magnesium	24-2	2817.52	2756.48	2771.23	2781.74	1.14	ppb
Manganese	55-2	353.14	345.93	345.30	348.12	1.25	ppb
Molybdenum	94-1	76.56	79.85	78.99	78.47	2.17	ppb
Molybdenum	95-1	85.97	90.56	90.20	88.91	2.87	ppb
Molybdenum	96-1	85.04	89.09	88.22	87.45	2.44	ppb
Molybdenum	97-1	87.43	91.02	90.90	89.78	2.27	ppb
Molybdenum	98-1	85.46	90.35	89.88	88.56	3.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	128.16	127.20	129.27	128.21	0.81	ppb
Phosphorus	31-2	927.79	885.39	988.05	933.74	5.52	ppb
Potassium	39-2	666.87	673.53	656.26	665.55	1.31	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	20.66	21.49	21.29	21.15	2.06	ppb
Selenium	77-2	37.29	30.28	30.51	32.70	12.18	ppb
Selenium	78-2	21.63	23.63	19.92	21.73	8.56	ppb
Silicon	28-1	903.81	959.93	938.65	934.13	3.03	ppb
Silver	107-1	9.63	10.18	10.16	9.99	3.10	ppb
Silver	109-1	9.77	10.18	10.20	10.05	2.44	ppb
Sodium	23-2	346.43	306.15	296.81	316.46	8.33	ppb
Strontium	86-1	1789.44	1837.05	1830.64	1819.05	1.42	ppb
Strontium	88-1	1776.95	1865.81	1849.00	1830.59	2.58	ppb
Sulfur	34-1	-195.83	-51.67	-186.01	-144.51		ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	9.02	9.40	9.32	9.25	2.13	ppb
Thallium	205-1	9.06	9.27	9.36	9.23	1.64	ppb
Tin	118-1	0.64	0.66	0.64	0.65	2.24	ppb
Titanium	47-1	99.68	103.06	99.82	100.86	1.90	ppb
Uranium	238-1	0.13	0.14	0.13	0.13	1.87	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	107.11	104.33	106.24	105.89	1.34	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				98		%
Zinc	66-2	166.15	165.51	169.70	167.12	1.35	ppb
Zirconium	90-1	2.69	3.23	2.84	2.92	9.47	ppb
Zirconium	91-1	2.69	3.07	2.83	2.86	6.64	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	26342.44	25974.45	26071.44	26129.44	0.73	ppb
Antimony	121-1	0.65	0.68	0.65	0.66	2.64	ppb
Arsenic	75-2	23.47	21.94	22.07	22.49	3.77	ppb
Barium	135-1	239.01	245.33	243.05	242.47	1.32	ppb
Barium	137-1	241.68	248.38	244.22	244.76	1.38	ppb
Beryllium	9-1	1.27	1.23	1.29	1.26	2.52	ppb
Bismuth	209-1				97		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.74	0.77	0.56	0.69	16.36	ppb
Cadmium	106-1	-0.92	0.11	-0.45	-0.42		ppb
Cadmium	111-1	0.10	0.14	0.12	0.12	17.06	ppb
Calcium	43-1	7392.76	7467.82	7596.49	7485.69	1.38	ppb
Calcium	44-1	7686.69	7800.54	7735.95	7741.06	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	110.16	109.41	108.86	109.48	0.59	ppb
Cobalt	59-2	48.04	47.62	47.34	47.67	0.74	ppb
Copper	63-2	128.38	129.39	128.37	128.72	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				100		%
Holmium	165-2				95		%
Indium	115-1				100		%
Indium	115-2				89		%
Iron	54-2	84125.89	84899.17	83206.60	84077.22	1.01	ppb
Iron	56-2	85315.69	84411.72	84281.64	84669.68	0.67	ppb
Iron	57-2	85853.01	84560.68	83302.58	84572.09	1.51	ppb
Krypton	83-1						cps
Lead	206-1	14.19	14.45	14.62	14.42	1.50	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	13.78	13.60	13.94	13.78	1.23	ppb
Lead	208-1	13.98	13.91	14.14	14.01	0.84	ppb
Lithium	6-1				94		%
Magnesium	24-2	16862.65	16631.24	16670.81	16721.57	0.74	ppb
Manganese	55-2	2078.32	2077.32	2027.27	2060.97	1.42	ppb
Molybdenum	94-1	3.02	2.97	2.95	2.98	1.11	ppb
Molybdenum	95-1	0.78	0.81	0.78	0.79	1.82	ppb
Molybdenum	96-1	1.23	1.25	1.26	1.24	1.29	ppb
Molybdenum	97-1	0.80	0.82	0.77	0.80	3.09	ppb
Molybdenum	98-1	0.78	0.79	0.79	0.78	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	43.42	43.14	42.96	43.17	0.53	ppb
Phosphorus	31-2	1504.00	1390.06	1445.73	1446.59	3.94	ppb
Potassium	39-2	1797.00	1785.92	1761.02	1781.31	1.03	ppb
Rhodium	103-1				98		%
Rhodium	103-2				94		%
Scandium	45-1				107		%
Scandium	45-2				98		%
Selenium	82-1	1.06	0.56	0.86	0.83	30.69	ppb
Selenium	77-2	51.22	36.90	31.32	39.81	25.79	ppb
Selenium	78-2	4.42	5.74	6.31	5.49	17.62	ppb
Silicon	28-1	615.68	613.99	623.48	617.72	0.82	ppb
Silver	107-1	0.15	0.13	0.12	0.14	11.05	ppb
Silver	109-1	0.16	0.13	0.13	0.14	13.64	ppb
Sodium	23-2	510.29	511.61	505.64	509.18	0.62	ppb
Strontium	86-1	70.27	70.06	70.01	70.11	0.19	ppb
Strontium	88-1	75.72	74.92	74.57	75.07	0.79	ppb
Sulfur	34-1	-975.29	-1033.03	-961.73	-990.02		ppb
Terbium	159-1				101		%
Terbium	159-2				94		%
Thallium	203-1	0.12	0.11	0.11	0.11	4.09	ppb
Thallium	205-1	0.11	0.11	0.12	0.11	3.66	ppb
Tin	118-1	0.92	0.95	0.97	0.94	2.71	ppb
Titanium	47-1	892.22	893.84	888.85	891.64	0.29	ppb
Uranium	238-1	0.70	0.68	0.68	0.69	1.73	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	193.81	191.90	192.03	192.58	0.56	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	128.55	128.38	129.85	128.93	0.62	ppb
Zirconium	90-1	1.26	1.24	1.25	1.25	1.01	ppb
Zirconium	91-1	1.24	1.32	1.29	1.28	3.12	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	29988.51	30046.03	30092.76	30042.43	0.17	ppb
Antimony	121-1	0.76	0.78	0.78	0.77	1.11	ppb
Arsenic	75-2	26.67	27.41	27.58	27.22	1.78	ppb
Barium	135-1	335.09	339.58	332.76	335.81	1.03	ppb
Barium	137-1	352.73	357.05	359.87	356.55	1.01	ppb
Beryllium	9-1	1.69	1.72	1.69	1.70	0.82	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.95	0.93	0.84	0.91	6.32	ppb
Cadmium	106-1	0.39	0.44	0.48	0.44	10.85	ppb
Cadmium	111-1	0.19	0.20	0.23	0.20	9.76	ppb
Calcium	43-1	7446.95	7510.62	7397.38	7451.65	0.76	ppb
Calcium	44-1	7707.97	7805.68	7721.86	7745.17	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	171.27	169.74	171.39	170.80	0.54	ppb
Cobalt	59-2	60.12	59.56	58.58	59.42	1.32	ppb
Copper	63-2	182.96	183.30	182.49	182.91	0.22	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				100		%
Holmium	165-2				96		%
Indium	115-1				98		%
Indium	115-2				91		%
Iron	54-2	101944.37	101539.72	101054.65	101512.92	0.44	ppb
Iron	56-2	101354.89	101317.19	100883.39	101185.16	0.26	ppb
Iron	57-2	102766.55	101008.79	99772.04	101182.46	1.49	ppb
Krypton	83-1						cps
Lead	206-1	21.27	21.91	21.43	21.54	1.55	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.38	20.79	20.62	20.60	1.01	ppb
Lead	208-1	20.80	21.19	20.90	20.97	0.97	ppb
Lithium	6-1				94		%
Magnesium	24-2	14883.09	14982.70	14853.59	14906.46	0.45	ppb
Manganese	55-2	2614.62	2612.46	2584.45	2603.84	0.65	ppb
Molybdenum	94-1	5.85	5.93	5.82	5.87	0.91	ppb
Molybdenum	95-1	0.75	0.72	0.71	0.73	3.20	ppb
Molybdenum	96-1	1.59	1.55	1.58	1.58	1.34	ppb
Molybdenum	97-1	0.73	0.66	0.71	0.70	5.16	ppb
Molybdenum	98-1	0.68	0.67	0.68	0.68	0.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.46	52.15	52.65	52.75	1.25	ppb
Phosphorus	31-2	1899.80	1972.09	1978.20	1950.03	2.24	ppb
Potassium	39-2	3854.67	3820.77	3859.25	3844.90	0.55	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				110		%
Scandium	45-2				105		%
Selenium	82-1	0.62	1.42	0.65	0.90	50.48	ppb
Selenium	77-2	48.49	41.48	39.65	43.21	10.80	ppb
Selenium	78-2	7.14	3.58	6.79	5.84	33.65	ppb
Silicon	28-1	423.15	424.81	425.15	424.37	0.25	ppb
Silver	107-1	0.16	0.16	0.16	0.16	1.74	ppb
Silver	109-1	0.15	0.16	0.15	0.15	3.83	ppb
Sodium	23-2	214.13	215.99	218.44	216.18	1.00	ppb
Strontium	86-1	83.94	84.06	83.72	83.90	0.21	ppb
Strontium	88-1	90.56	89.27	88.17	89.33	1.34	ppb
Sulfur	34-1	-906.21	-881.23	-982.13	-923.19		ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.15	0.15	0.15	0.15	2.08	ppb
Thallium	205-1	0.15	0.16	0.15	0.15	2.88	ppb
Tin	118-1	1.12	1.17	1.13	1.14	2.22	ppb
Titanium	47-1	1072.54	1087.57	1076.46	1078.85	0.72	ppb
Uranium	238-1	1.13	1.14	1.12	1.13	0.74	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	271.96	272.27	271.52	271.92	0.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				100		%
Zinc	66-2	129.01	129.66	130.79	129.82	0.70	ppb
Zirconium	90-1	2.89	2.90	2.87	2.89	0.50	ppb
Zirconium	91-1	2.86	2.87	3.03	2.92	3.28	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15290.88	15229.10	15295.05	15271.68	0.24	ppb
Antimony	121-1	1.84	1.85	1.86	1.85	0.36	ppb
Arsenic	75-2	1128.64	1131.80	1123.48	1127.97	0.37	ppb
Barium	135-1	170.01	171.45	173.21	171.56	0.93	ppb
Barium	137-1	171.40	172.96	174.78	173.05	0.98	ppb
Beryllium	9-1	0.73	0.77	0.78	0.76	3.16	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.23	0.90	0.91	1.01	18.52	ppb
Cadmium	106-1	-1.06	-1.40	-1.43	-1.30		ppb
Cadmium	111-1	0.50	0.49	0.60	0.53	11.45	ppb
Calcium	43-1	7905.83	8094.65	7941.63	7980.70	1.26	ppb
Calcium	44-1	8093.37	8218.26	8228.70	8180.11	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	65.53	66.05	65.26	65.61	0.61	ppb
Cobalt	59-2	37.97	38.48	38.10	38.19	0.69	ppb
Copper	63-2	195.93	199.01	197.82	197.59	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				97		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	83177.86	83718.92	81956.51	82951.10	1.09	ppb
Iron	56-2	82768.64	83844.48	82619.22	83077.45	0.80	ppb
Iron	57-2	82639.45	82560.78	82580.55	82593.59	0.05	ppb
Krypton	83-1						cps
Lead	206-1	199.38	204.54	208.05	203.99	2.14	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	177.32	180.45	194.29	184.02	4.91	ppb
Lead	208-1	190.62	195.62	200.32	195.52	2.48	ppb
Lithium	6-1				95		%
Magnesium	24-2	9249.43	9395.45	9268.52	9304.47	0.85	ppb
Manganese	55-2	1712.82	1702.35	1674.85	1696.67	1.16	ppb
Molybdenum	94-1	8.95	9.40	9.07	9.14	2.56	ppb
Molybdenum	95-1	5.57	5.70	5.68	5.65	1.21	ppb
Molybdenum	96-1	6.06	6.37	6.32	6.25	2.65	ppb
Molybdenum	97-1	5.60	5.93	5.78	5.77	2.89	ppb
Molybdenum	98-1	5.57	5.83	5.68	5.70	2.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	44.01	45.07	44.86	44.64	1.26	ppb
Phosphorus	31-2	1589.13	1521.68	1493.20	1534.67	3.21	ppb
Potassium	39-2	1989.45	1999.16	1995.30	1994.63	0.25	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				105		%
Scandium	45-2				100		%
Selenium	82-1	2.85	2.88	2.47	2.73	8.47	ppb
Selenium	77-2	18.25	29.28	23.50	23.68	23.30	ppb
Selenium	78-2	5.27	5.61	4.58	5.16	10.18	ppb
Silicon	28-1	410.31	416.40	404.39	410.36	1.46	ppb
Silver	107-1	0.93	0.92	0.93	0.92	0.29	ppb
Silver	109-1	0.93	0.94	0.94	0.93	0.36	ppb
Sodium	23-2	228.27	232.61	228.57	229.82	1.06	ppb
Strontium	86-1	114.96	119.44	118.40	117.60	1.99	ppb
Strontium	88-1	122.45	127.17	125.10	124.91	1.89	ppb
Sulfur	34-1	7120.86	7183.94	7025.84	7110.21	1.12	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	0.11	0.13	0.12	0.12	8.30	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	2.90	ppb
Tin	118-1	1.50	1.53	1.54	1.53	1.39	ppb
Titanium	47-1	669.20	693.01	693.32	685.18	2.02	ppb
Uranium	238-1	0.64	0.65	0.67	0.65	2.42	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	136.30	137.63	137.50	137.14	0.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				98		%
Zinc	66-2	283.84	285.97	285.74	285.18	0.41	ppb
Zirconium	90-1	2.44	2.46	2.50	2.47	1.32	ppb
Zirconium	91-1	2.79	2.93	3.02	2.91	4.01	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19308.68	18861.87	19450.25	19206.94	1.60	ppb
Antimony	121-1	1.70	1.71	1.71	1.70	0.31	ppb
Arsenic	75-2	196.95	187.95	195.01	193.30	2.45	ppb
Barium	135-1	123.40	125.19	124.41	124.33	0.72	ppb
Barium	137-1	125.13	126.94	125.44	125.84	0.77	ppb
Beryllium	9-1	1.13	1.21	1.25	1.20	4.95	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.71	1.47	1.61	1.60	7.82	ppb
Cadmium	106-1	0.23	0.01	0.02	0.09	141.32	ppb
Cadmium	111-1	1.06	1.16	0.98	1.07	8.19	ppb
Calcium	43-1	5514.97	5726.11	5724.98	5655.35	2.15	ppb
Calcium	44-1	5802.47	5866.15	5898.31	5855.65	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.91	43.25	44.43	43.86	1.35	ppb
Cobalt	59-2	64.48	62.07	64.11	63.55	2.04	ppb
Copper	63-2	359.44	350.20	360.83	356.82	1.62	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				103		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				95		%
Iron	54-2	82123.44	79707.32	81460.34	81097.03	1.54	ppb
Iron	56-2	81596.53	79080.20	81383.27	80686.67	1.73	ppb
Iron	57-2	80997.45	80283.33	81352.71	80877.83	0.67	ppb
Krypton	83-1						cps
Lead	206-1	78.61	80.47	79.67	79.58	1.17	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	75.14	76.54	75.66	75.78	0.93	ppb
Lead	208-1	76.21	80.68	79.69	78.86	2.98	ppb
Lithium	6-1				95		%
Magnesium	24-2	12920.12	12636.96	12946.92	12834.66	1.34	ppb
Manganese	55-2	488.87	476.85	487.20	484.31	1.34	ppb
Molybdenum	94-1	6.81	6.98	6.78	6.86	1.55	ppb
Molybdenum	95-1	2.96	2.93	3.05	2.98	2.16	ppb
Molybdenum	96-1	3.50	3.61	3.60	3.57	1.71	ppb
Molybdenum	97-1	3.02	3.09	2.99	3.03	1.63	ppb
Molybdenum	98-1	2.90	2.98	2.91	2.93	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	113.07	107.68	110.65	110.46	2.44	ppb
Phosphorus	31-2	1501.74	1493.65	1527.61	1507.67	1.18	ppb
Potassium	39-2	1863.34	1812.87	1873.11	1849.77	1.75	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				106		%
Scandium	45-2				102		%
Selenium	82-1	1.19	1.53	1.20	1.31	15.05	ppb
Selenium	77-2	28.57	31.92	36.54	32.34	12.37	ppb
Selenium	78-2	7.69	6.10	7.40	7.06	12.04	ppb
Silicon	28-1	599.44	633.59	619.96	617.66	2.78	ppb
Silver	107-1	0.86	0.88	0.87	0.87	1.22	ppb
Silver	109-1	0.86	0.87	0.88	0.87	1.05	ppb
Sodium	23-2	325.98	322.40	327.67	325.35	0.83	ppb
Strontium	86-1	74.22	75.97	75.19	75.13	1.16	ppb
Strontium	88-1	79.58	80.57	80.11	80.09	0.62	ppb
Sulfur	34-1	1750.23	2008.64	1922.04	1893.64	6.95	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.11	0.12	0.12	0.12	4.51	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	0.44	ppb
Tin	118-1	1.19	1.24	1.22	1.22	2.17	ppb
Titanium	47-1	938.11	939.17	921.35	932.87	1.07	ppb
Uranium	238-1	1.80	1.86	1.83	1.83	1.46	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	135.72	133.39	136.28	135.13	1.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				109		%
Zinc	66-2	1040.52	1014.84	1049.46	1034.94	1.74	ppb
Zirconium	90-1	2.35	2.40	2.37	2.37	1.18	ppb
Zirconium	91-1	2.44	2.43	2.46	2.44	0.57	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9025.43	8915.00	9062.31	9000.91	0.85	ppb
Antimony	121-1	0.08	0.08	0.09	0.08	3.94	ppb
Arsenic	75-2	1.64	1.84	1.90	1.79	7.60	ppb
Barium	135-1	201.35	199.22	215.00	205.19	4.17	ppb
Barium	137-1	203.76	201.25	217.10	207.37	4.11	ppb
Beryllium	9-1	0.33	0.32	0.34	0.33	2.91	ppb
Bismuth	209-1				100		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.19	0.21	0.17	34.63	ppb
Cadmium	106-1	-1.16	-2.38	-0.88	-1.47		ppb
Cadmium	111-1	0.01	0.00	0.03	0.01	102.11	ppb
Calcium	43-1	8236.26	8022.00	8537.75	8265.34	3.13	ppb
Calcium	44-1	8544.94	8400.08	8741.89	8562.30	2.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.87	6.85	6.75	6.82	0.88	ppb
Cobalt	59-2	13.90	13.89	14.05	13.95	0.62	ppb
Copper	63-2	24.17	23.71	24.28	24.06	1.25	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				102		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				93		%
Iron	54-2	24262.37	24059.39	24264.48	24195.42	0.49	ppb
Iron	56-2	24251.42	23826.02	23887.67	23988.37	0.96	ppb
Iron	57-2	22664.52	22401.99	22527.85	22531.45	0.58	ppb
Krypton	83-1						cps
Lead	206-1	2.50	2.47	2.65	2.54	3.78	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.38	2.35	2.51	2.42	3.54	ppb
Lead	208-1	2.40	2.38	2.57	2.45	4.12	ppb
Lithium	6-1				92		%
Magnesium	24-2	8402.60	8213.64	8433.43	8349.89	1.43	ppb
Manganese	55-2	1376.63	1361.10	1376.19	1371.31	0.64	ppb
Molybdenum	94-1	2.54	2.48	2.70	2.58	4.45	ppb
Molybdenum	95-1	0.41	0.41	0.43	0.42	2.61	ppb
Molybdenum	96-1	0.66	0.65	0.77	0.69	9.37	ppb
Molybdenum	97-1	0.40	0.34	0.37	0.37	7.23	ppb
Molybdenum	98-1	0.40	0.38	0.42	0.40	5.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.73	6.45	6.62	6.60	2.12	ppb
Phosphorus	31-2	707.63	606.43	623.65	645.90	8.38	ppb
Potassium	39-2	552.47	549.00	553.22	551.56	0.41	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	0.43	0.43	0.33	0.40	14.13	ppb
Selenium	77-2	23.14	21.13	24.80	23.02	7.99	ppb
Selenium	78-2	3.68	3.69	4.62	4.00	13.53	ppb
Silicon	28-1	357.56	348.44	368.95	358.31	2.87	ppb
Silver	107-1	0.06	0.07	0.07	0.06	9.31	ppb
Silver	109-1	0.06	0.06	0.07	0.06	9.91	ppb
Sodium	23-2	327.61	320.94	329.30	325.95	1.36	ppb
Strontium	86-1	23.30	23.26	25.07	23.88	4.32	ppb
Strontium	88-1	23.73	23.32	25.30	24.12	4.32	ppb
Sulfur	34-1	-951.85	-1084.01	-752.60	-929.49		ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.04	0.05	0.05	0.05	12.56	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	10.60	ppb
Tin	118-1	0.32	0.35	0.40	0.36	11.33	ppb
Titanium	47-1	119.88	118.88	125.85	121.53	3.10	ppb
Uranium	238-1	0.34	0.34	0.36	0.35	3.22	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	30.78	30.43	30.63	30.61	0.58	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	86.05	86.21	87.06	86.44	0.63	ppb
Zirconium	90-1	1.18	1.19	1.27	1.21	4.03	ppb
Zirconium	91-1	1.26	1.21	1.28	1.25	3.13	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49229.26	49111.30	49089.67	49143.41	0.15	ppb
Antimony	121-1	494.98	498.77	503.08	498.95	0.81	ppb
Arsenic	75-2	503.72	504.77	501.26	503.25	0.36	ppb
Barium	135-1	2470.28	2495.53	2527.11	2497.64	1.14	ppb
Barium	137-1	2469.92	2504.79	2503.76	2492.82	0.80	ppb
Beryllium	9-1	498.37	507.11	506.28	503.92	0.96	ppb
Bismuth	209-1				82		%
Bismuth	209-2				79		%
Bromine	81-1						cps
Cadmium	108-1	474.76	483.43	486.81	481.67	1.29	ppb
Cadmium	106-1	480.55	481.53	483.80	481.96	0.35	ppb
Cadmium	111-1	453.88	454.10	459.27	455.75	0.67	ppb
Calcium	43-1	244868.80	243946.04	245474.52	244763.12	0.31	ppb
Calcium	44-1	244346.16	246298.17	248427.70	246357.34	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	477.13	482.40	478.45	479.33	0.57	ppb
Cobalt	59-2	497.47	506.50	498.57	500.85	0.98	ppb
Copper	63-2	4852.61	4920.08	4884.92	4885.87	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				92		%
Holmium	165-2				87		%
Indium	115-1				86		%
Indium	115-2				80		%
Iron	54-2	126727.14	126556.45	125395.82	126226.47	0.57	ppb
Iron	56-2	124390.77	127109.60	125598.71	125699.69	1.08	ppb
Iron	57-2	125210.56	127381.27	123295.03	125295.62	1.63	ppb
Krypton	83-1						cps
Lead	206-1	2540.90	2536.36	2539.22	2538.83	0.09	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2530.13	2532.26	2519.02	2527.14	0.28	ppb
Lead	208-1	2541.00	2539.43	2521.36	2533.93	0.43	ppb
Lithium	6-1				82		%
Magnesium	24-2	253143.72	251014.74	246753.86	250304.11	1.30	ppb
Manganese	55-2	5040.99	5047.09	5016.34	5034.81	0.32	ppb
Molybdenum	94-1	5063.69	5032.49	5094.17	5063.45	0.61	ppb
Molybdenum	95-1	5084.69	4991.60	5097.20	5057.83	1.14	ppb
Molybdenum	96-1	5066.11	5015.15	5085.66	5055.64	0.72	ppb
Molybdenum	97-1	5008.66	5020.48	5138.50	5055.88	1.42	ppb
Molybdenum	98-1	5060.29	5051.88	5135.17	5082.45	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	486.16	490.80	485.19	487.38	0.62	ppb
Phosphorus	31-2	10094.44	10108.08	9795.83	9999.45	1.76	ppb
Potassium	39-2	122534.54	122507.75	122544.67	122528.99	0.02	ppb
Rhodium	103-1				82		%
Rhodium	103-2				80		%
Scandium	45-1				90		%
Scandium	45-2				85		%
Selenium	82-1	485.01	481.27	498.72	488.33	1.88	ppb
Selenium	77-2	481.87	483.26	543.70	502.94	7.02	ppb
Selenium	78-2	480.36	465.85	495.43	480.55	3.08	ppb
Silicon	28-1	738.35	751.17	761.72	750.41	1.56	ppb
Silver	107-1	472.35	479.75	477.67	476.59	0.80	ppb
Silver	109-1	471.69	477.79	478.29	475.92	0.77	ppb
Sodium	23-2	249077.55	251100.01	247226.14	249134.57	0.78	ppb
Strontium	86-1	507.74	509.43	525.05	514.08	1.86	ppb
Strontium	88-1	501.11	500.33	504.12	501.85	0.40	ppb
Sulfur	34-1	12038.12	12219.14	12391.65	12216.30	1.45	ppb
Terbium	159-1				91		%
Terbium	159-2				87		%
Thallium	203-1	521.67	515.23	524.53	520.47	0.92	ppb
Thallium	205-1	511.78	512.75	510.66	511.73	0.20	ppb
Tin	118-1	500.18	501.60	503.20	501.66	0.30	ppb
Titanium	47-1	4957.51	5037.32	5113.52	5036.12	1.55	ppb
Uranium	238-1	517.89	510.71	508.11	512.24	0.99	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	489.72	491.95	488.40	490.03	0.37	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				85		%
Zinc	66-2	4926.78	4887.41	4903.80	4906.00	0.40	ppb
Zirconium	90-1	507.39	504.73	504.18	505.43	0.34	ppb
Zirconium	91-1	509.95	509.88	513.21	511.01	0.37	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.27	0.93	0.76	0.65	52.46	ppb
Antimony	121-1	0.04	0.03	0.03	0.03	13.05	ppb
Arsenic	75-2	-0.02	0.02	-0.02	-0.01		ppb
Barium	135-1	0.02	0.03	0.02	0.03	27.79	ppb
Barium	137-1	0.05	0.03	0.04	0.04	30.49	ppb
Beryllium	9-1	0.05	0.04	0.04	0.04	13.38	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	-0.05	-0.04	-0.04	-0.04		ppb
Cadmium	106-1	-2.11	-2.50	-2.74	-2.45		ppb
Cadmium	111-1	-0.02	-0.05	-0.06	-0.04		ppb
Calcium	43-1	0.70	1.59	-0.09	0.73	114.25	ppb
Calcium	44-1	-1.15	-2.08	-1.61	-1.61		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.04	-0.01	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	49.35	ppb
Copper	63-2	0.39	0.40	0.39	0.39	0.84	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				91		%
Holmium	165-2				91		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	54-2	2.13	2.34	3.17	2.55	21.60	ppb
Iron	56-2	1.95	1.82	1.90	1.89	3.31	ppb
Iron	57-2	0.79	-0.22	2.10	0.89	130.26	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.08	0.09	0.09	7.17	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.09	0.11	0.11	13.92	ppb
Lead	208-1	0.10	0.10	0.10	0.10	3.88	ppb
Lithium	6-1				92		%
Magnesium	24-2	1.41	2.28	1.71	1.80	24.35	ppb
Manganese	55-2	0.16	0.11	0.21	0.16	29.87	ppb
Molybdenum	94-1	0.08	0.08	0.06	0.07	20.53	ppb
Molybdenum	95-1	0.09	0.06	0.07	0.07	21.71	ppb
Molybdenum	96-1	0.08	0.07	0.07	0.07	4.45	ppb
Molybdenum	97-1	0.08	0.06	0.06	0.07	14.23	ppb
Molybdenum	98-1	0.09	0.07	0.07	0.08	15.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.01	-0.04	0.01	512.04	ppb
Phosphorus	31-2	-6.10	-26.90	-20.58	-17.86		ppb
Potassium	39-2	-5.70	-5.41	-5.13	-5.41		ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	0.07	0.22	-0.03	0.09	145.09	ppb
Selenium	77-2	0.88	-0.36	-0.36	0.05	1340.31	ppb
Selenium	78-2	-0.16	0.95	0.20	0.33	171.03	ppb
Silicon	28-1	-0.72	-0.74	-0.55	-0.67		ppb
Silver	107-1	0.02	0.02	0.02	0.02	7.33	ppb
Silver	109-1	0.02	0.01	0.02	0.02	7.37	ppb
Sodium	23-2	-3.83	-2.75	-4.72	-3.77		ppb
Strontium	86-1	0.00	-0.01	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	29.53	ppb
Sulfur	34-1	-511.97	-423.53	-427.18	-454.23		ppb
Terbium	159-1				91		%
Terbium	159-2				91		%
Thallium	203-1	0.03	0.03	0.03	0.03	11.14	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	9.36	ppb
Tin	118-1	0.01	0.00	0.01	0.01	123.93	ppb
Titanium	47-1	0.09	0.04	0.06	0.06	35.57	ppb
Uranium	238-1	0.01	0.00	0.00	0.01	18.92	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	139.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				86		%
Zinc	66-2	0.33	0.44	0.23	0.33	32.36	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	25.08	ppb
Zirconium	91-1	0.01	0.02	0.00	0.01	71.30	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15845.27	15657.75	15313.77	15605.60	1.73	ppb
Antimony	121-1	0.93	0.95	0.98	0.95	2.32	ppb
Arsenic	75-2	129.35	126.55	127.51	127.80	1.12	ppb
Barium	135-1	256.94	258.42	277.17	264.18	4.27	ppb
Barium	137-1	260.41	261.56	279.55	267.17	4.02	ppb
Beryllium	9-1	1.25	1.25	1.29	1.26	1.87	ppb
Bismuth	209-1				91		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.72	0.82	0.71	16.54	ppb
Cadmium	106-1	-0.59	-0.82	-1.17	-0.86		ppb
Cadmium	111-1	0.34	0.33	0.38	0.35	8.38	ppb
Calcium	43-1	4662.61	4621.88	4993.52	4759.34	4.28	ppb
Calcium	44-1	4816.52	4735.13	5188.50	4913.38	4.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59.85	59.35	57.65	58.95	1.95	ppb
Cobalt	59-2	43.45	43.49	42.53	43.16	1.25	ppb
Copper	63-2	150.39	150.20	146.20	148.93	1.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				95		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	76508.81	75437.92	73374.88	75107.20	2.12	ppb
Iron	56-2	76906.12	75428.01	73793.01	75375.71	2.07	ppb
Iron	57-2	76931.99	75494.90	74347.63	75591.51	1.71	ppb
Krypton	83-1						cps
Lead	206-1	17.54	17.70	18.95	18.06	4.28	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	16.70	16.84	18.41	17.32	5.48	ppb
Lead	208-1	17.07	17.23	18.61	17.63	4.79	ppb
Lithium	6-1				91		%
Magnesium	24-2	10226.25	9860.37	9888.19	9991.61	2.04	ppb
Manganese	55-2	498.40	502.95	492.13	497.83	1.09	ppb
Molybdenum	94-1	3.53	3.58	3.80	3.64	3.90	ppb
Molybdenum	95-1	0.73	0.77	0.84	0.78	7.17	ppb
Molybdenum	96-1	1.24	1.27	1.38	1.30	5.90	ppb
Molybdenum	97-1	0.78	0.79	0.86	0.81	5.16	ppb
Molybdenum	98-1	0.74	0.73	0.82	0.76	6.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	47.88	47.41	46.03	47.11	2.04	ppb
Phosphorus	31-2	1162.64	1207.27	1229.84	1199.92	2.85	ppb
Potassium	39-2	1453.63	1436.43	1416.43	1435.50	1.30	ppb
Rhodium	103-1				92		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				98		%
Selenium	82-1	0.72	0.64	0.48	0.61	19.26	ppb
Selenium	77-2	20.99	23.07	26.05	23.37	10.89	ppb
Selenium	78-2	5.10	4.07	2.39	3.85	35.48	ppb
Silicon	28-1	382.52	386.68	420.00	396.40	5.18	ppb
Silver	107-1	0.44	0.41	0.47	0.44	6.74	ppb
Silver	109-1	0.45	0.45	0.47	0.46	2.49	ppb
Sodium	23-2	264.19	265.13	260.76	263.36	0.87	ppb
Strontium	86-1	76.91	78.17	84.16	79.75	4.86	ppb
Strontium	88-1	82.56	82.68	90.31	85.18	5.22	ppb
Sulfur	34-1	-101.56	-146.04	349.45	33.95	807.51	ppb
Terbium	159-1				94		%
Terbium	159-2				96		%
Thallium	203-1	0.19	0.21	0.21	0.20	6.18	ppb
Thallium	205-1	0.20	0.19	0.22	0.20	7.31	ppb
Tin	118-1	0.70	0.65	0.73	0.69	5.35	ppb
Titanium	47-1	400.50	401.86	437.88	413.41	5.13	ppb
Uranium	238-1	0.64	0.64	0.70	0.66	4.90	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	151.57	149.61	145.43	148.87	2.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				97		%
Zinc	66-2	224.31	217.81	212.17	218.10	2.79	ppb
Zirconium	90-1	1.57	1.63	1.76	1.66	5.77	ppb
Zirconium	91-1	1.64	1.65	1.80	1.70	5.37	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17486.09	17677.68	17624.51	17596.10	0.56	ppb
Antimony	121-1	0.40	0.39	0.41	0.40	2.76	ppb
Arsenic	75-2	24.08	24.04	24.49	24.20	1.04	ppb
Barium	135-1	366.34	365.23	367.38	366.32	0.29	ppb
Barium	137-1	398.35	387.46	389.76	391.86	1.47	ppb
Beryllium	9-1	0.89	0.91	0.89	0.89	1.47	ppb
Bismuth	209-1				94		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.81	0.83	0.75	0.80	5.45	ppb
Cadmium	106-1	-1.68	-0.86	-0.52	-1.02		ppb
Cadmium	111-1	0.27	0.30	0.33	0.30	9.79	ppb
Calcium	43-1	12864.75	12556.99	12943.78	12788.51	1.60	ppb
Calcium	44-1	13324.56	13085.82	13445.86	13285.41	1.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.84	6.98	6.96	6.93	1.08	ppb
Cobalt	59-2	38.16	38.55	38.62	38.44	0.65	ppb
Copper	63-2	224.37	225.18	226.07	225.21	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				94		%
Indium	115-1				98		%
Indium	115-2				90		%
Iron	54-2	65734.11	66145.55	66515.17	66131.61	0.59	ppb
Iron	56-2	66446.22	66843.97	66452.05	66580.75	0.34	ppb
Iron	57-2	67445.51	67230.65	66756.17	67144.11	0.53	ppb
Krypton	83-1						cps
Lead	206-1	7.87	7.89	8.04	7.94	1.15	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	7.63	7.54	7.61	7.59	0.64	ppb
Lead	208-1	7.67	7.67	7.86	7.74	1.44	ppb
Lithium	6-1				94		%
Magnesium	24-2	12048.79	12234.06	12111.26	12131.37	0.78	ppb
Manganese	55-2	2314.58	2266.36	2290.52	2290.48	1.05	ppb
Molybdenum	94-1	5.47	5.15	5.24	5.29	3.08	ppb
Molybdenum	95-1	0.89	0.90	0.90	0.90	0.45	ppb
Molybdenum	96-1	1.52	1.49	1.57	1.53	2.69	ppb
Molybdenum	97-1	0.90	0.89	0.91	0.90	1.09	ppb
Molybdenum	98-1	0.89	0.85	0.90	0.88	3.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.26	14.39	14.50	14.38	0.85	ppb
Phosphorus	31-2	4514.15	4563.36	4471.29	4516.26	1.02	ppb
Potassium	39-2	2747.29	2749.90	2770.16	2755.78	0.45	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	1.17	1.01	0.65	0.95	28.23	ppb
Selenium	77-2	34.66	20.98	23.41	26.35	27.70	ppb
Selenium	78-2	4.46	3.77	5.14	4.46	15.34	ppb
Silicon	28-1	580.11	562.23	618.69	587.01	4.91	ppb
Silver	107-1	0.19	0.19	0.18	0.19	1.86	ppb
Silver	109-1	0.18	0.19	0.19	0.18	3.83	ppb
Sodium	23-2	904.71	902.13	904.02	903.62	0.15	ppb
Strontium	86-1	77.70	76.89	78.34	77.64	0.94	ppb
Strontium	88-1	83.37	81.85	82.22	82.48	0.96	ppb
Sulfur	34-1	938.97	653.04	868.70	820.23	18.17	ppb
Terbium	159-1				99		%
Terbium	159-2				93		%
Thallium	203-1	0.17	0.16	0.17	0.16	3.19	ppb
Thallium	205-1	0.17	0.17	0.18	0.17	4.05	ppb
Tin	118-1	0.30	0.32	0.34	0.32	6.29	ppb
Titanium	47-1	329.38	316.28	330.87	325.51	2.47	ppb
Uranium	238-1	0.46	0.47	0.48	0.47	2.08	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	62.16	63.30	62.86	62.77	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				95		%
Zinc	66-2	189.50	189.19	192.96	190.55	1.10	ppb
Zirconium	90-1	2.54	2.47	2.51	2.51	1.46	ppb
Zirconium	91-1	2.46	2.54	2.52	2.51	1.77	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1708.11	1718.61	1728.43	1718.38	0.59	ppb
Antimony	121-1	2.62	2.45	2.79	2.62	6.55	ppb
Arsenic	75-2	126.72	130.37	120.19	125.76	4.10	ppb
Barium	135-1	54.33	50.81	57.93	54.36	6.55	ppb
Barium	137-1	55.20	51.04	58.32	54.86	6.65	ppb
Beryllium	9-1	0.19	0.17	0.19	0.19	5.51	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.81	0.93	1.02	0.92	11.03	ppb
Cadmium	106-1	-2.23	-2.42	-1.25	-1.96		ppb
Cadmium	111-1	0.54	0.42	0.48	0.48	12.20	ppb
Calcium	43-1	19576.08	17823.12	20411.12	19270.11	6.85	ppb
Calcium	44-1	20144.96	18423.74	21144.55	19904.42	6.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.44	3.77	3.69	3.63	4.82	ppb
Cobalt	59-2	11.10	11.37	11.51	11.33	1.83	ppb
Copper	63-2	73.82	76.74	75.91	75.49	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				97		%
Holmium	165-2				94		%
Indium	115-1				97		%
Indium	115-2				92		%
Iron	54-2	30809.44	31396.13	31948.39	31384.65	1.81	ppb
Iron	56-2	30769.24	31405.15	31621.91	31265.43	1.42	ppb
Iron	57-2	29207.92	31479.05	31141.31	30609.43	4.00	ppb
Krypton	83-1						cps
Lead	206-1	41.69	38.42	42.95	41.02	5.70	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	39.27	36.50	41.17	38.98	6.02	ppb
Lead	208-1	40.31	37.44	41.94	39.90	5.71	ppb
Lithium	6-1				91		%
Magnesium	24-2	6922.64	7300.33	7097.99	7106.99	2.66	ppb
Manganese	55-2	549.20	559.75	567.62	558.86	1.65	ppb
Molybdenum	94-1	5.58	5.13	5.86	5.52	6.71	ppb
Molybdenum	95-1	2.48	2.30	2.70	2.49	8.09	ppb
Molybdenum	96-1	2.98	2.69	3.09	2.92	7.06	ppb
Molybdenum	97-1	2.57	2.32	2.66	2.52	7.12	ppb
Molybdenum	98-1	2.51	2.34	2.70	2.52	7.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	39.18	40.70	39.52	39.80	2.00	ppb
Phosphorus	31-2	1023.03	993.02	943.53	986.53	4.07	ppb
Potassium	39-2	377.06	382.51	382.26	380.61	0.81	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	1.41	1.33	1.60	1.45	9.33	ppb
Selenium	77-2	3.04	11.08	9.26	7.79	54.14	ppb
Selenium	78-2	2.81	3.85	2.93	3.20	17.84	ppb
Silicon	28-1	236.36	199.54	228.20	221.37	8.74	ppb
Silver	107-1	1.28	1.17	1.38	1.28	8.03	ppb
Silver	109-1	1.30	1.21	1.39	1.30	6.92	ppb
Sodium	23-2	73.42	78.33	78.73	76.83	3.85	ppb
Strontium	86-1	188.79	172.21	194.88	185.29	6.33	ppb
Strontium	88-1	197.01	180.79	203.85	193.88	6.11	ppb
Sulfur	34-1	1828.55	1131.69	2188.62	1716.29	31.31	ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	0.10	0.10	0.11	0.10	4.34	ppb
Thallium	205-1	0.11	0.10	0.11	0.11	7.18	ppb
Tin	118-1	0.25	0.21	0.26	0.24	10.03	ppb
Titanium	47-1	3.66	3.42	3.78	3.62	5.08	ppb
Uranium	238-1	0.12	0.11	0.13	0.12	5.61	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.68	4.71	4.81	4.73	1.41	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	99.16	101.40	100.78	100.45	1.15	ppb
Zirconium	90-1	1.92	1.78	2.01	1.90	6.19	ppb
Zirconium	91-1	2.00	1.86	2.12	2.00	6.51	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2389.44	2381.84	2423.52	2398.27	0.93	ppb
Antimony	121-1	2.82	2.93	2.84	2.86	2.02	ppb
Arsenic	75-2	174.22	178.57	174.10	175.63	1.45	ppb
Barium	135-1	76.14	79.56	79.69	78.46	2.57	ppb
Barium	137-1	77.06	80.65	80.78	79.49	2.65	ppb
Beryllium	9-1	0.22	0.22	0.23	0.22	2.50	ppb
Bismuth	209-1				99		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.12	0.91	1.16	1.07	12.45	ppb
Cadmium	106-1	-0.88	-0.76	-0.86	-0.83		ppb
Cadmium	111-1	0.54	0.54	0.53	0.54	1.28	ppb
Calcium	43-1	23438.31	25152.17	25364.50	24651.66	4.28	ppb
Calcium	44-1	24273.07	24852.51	25009.52	24711.70	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.88	3.87	3.89	3.88	0.36	ppb
Cobalt	59-2	13.59	13.64	13.43	13.55	0.79	ppb
Copper	63-2	89.41	89.34	90.01	89.59	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				96		%
Indium	115-1				102		%
Indium	115-2				93		%
Iron	54-2	37699.52	38214.92	38663.77	38192.74	1.26	ppb
Iron	56-2	37666.46	38081.46	37520.96	37756.29	0.77	ppb
Iron	57-2	37755.57	37648.72	38066.09	37823.46	0.57	ppb
Krypton	83-1						cps
Lead	206-1	75.86	80.18	79.24	78.43	2.90	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	72.66	75.73	75.11	74.50	2.18	ppb
Lead	208-1	76.06	80.10	79.83	78.66	2.87	ppb
Lithium	6-1				91		%
Magnesium	24-2	8386.00	8353.78	8306.16	8348.65	0.48	ppb
Manganese	55-2	565.80	567.61	571.59	568.34	0.52	ppb
Molybdenum	94-1	8.50	9.01	9.07	8.86	3.52	ppb
Molybdenum	95-1	3.29	3.40	3.46	3.38	2.57	ppb
Molybdenum	96-1	3.87	4.10	4.16	4.04	3.83	ppb
Molybdenum	97-1	3.30	3.47	3.49	3.42	3.18	ppb
Molybdenum	98-1	3.21	3.45	3.43	3.36	4.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	41.13	41.66	42.57	41.79	1.73	ppb
Phosphorus	31-2	1424.35	1265.40	1390.54	1360.10	6.16	ppb
Potassium	39-2	490.53	487.71	492.62	490.28	0.50	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	2.37	2.83	2.88	2.69	10.43	ppb
Selenium	77-2	18.57	19.87	9.71	16.05	34.43	ppb
Selenium	78-2	4.06	4.44	5.73	4.74	18.49	ppb
Silicon	28-1	217.36	223.30	226.99	222.55	2.18	ppb
Silver	107-1	1.52	1.57	1.58	1.55	1.98	ppb
Silver	109-1	1.56	1.61	1.62	1.59	1.95	ppb
Sodium	23-2	92.60	93.77	97.18	94.52	2.51	ppb
Strontium	86-1	203.33	212.34	215.76	210.48	3.05	ppb
Strontium	88-1	214.18	223.77	225.41	221.12	2.74	ppb
Sulfur	34-1	3686.17	4152.89	4148.82	3995.96	6.71	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.10	0.10	0.11	0.10	7.61	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	3.53	ppb
Tin	118-1	0.36	0.37	0.37	0.36	1.64	ppb
Titanium	47-1	3.92	4.18	4.04	4.05	3.18	ppb
Uranium	238-1	0.20	0.21	0.21	0.21	2.38	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.02	6.02	6.29	6.11	2.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				96		%
Zinc	66-2	121.08	118.98	120.11	120.06	0.88	ppb
Zirconium	90-1	3.20	3.41	3.50	3.37	4.64	ppb
Zirconium	91-1	3.19	3.37	3.46	3.34	4.11	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1254.26	1202.32	1228.57	1228.38	2.11	ppb
Antimony	121-1	1.63	1.68	1.65	1.65	1.77	ppb
Arsenic	75-2	106.95	104.17	110.71	107.28	3.06	ppb
Barium	135-1	50.59	51.16	51.87	51.21	1.26	ppb
Barium	137-1	50.95	52.37	52.24	51.86	1.51	ppb
Beryllium	9-1	0.13	0.14	0.12	0.13	6.15	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.30	0.41	0.58	0.43	33.15	ppb
Cadmium	106-1	-0.92	-1.13	-1.32	-1.12		ppb
Cadmium	111-1	0.30	0.32	0.35	0.32	8.89	ppb
Calcium	43-1	10451.98	10907.38	10819.53	10726.30	2.25	ppb
Calcium	44-1	10779.16	11323.78	11258.22	11120.39	2.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.80	2.76	2.73	2.76	1.32	ppb
Cobalt	59-2	7.15	7.11	7.21	7.15	0.69	ppb
Copper	63-2	55.35	54.87	55.20	55.14	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				102		%
Holmium	165-2				96		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	35307.51	34975.93	35917.14	35400.19	1.35	ppb
Iron	56-2	35186.23	34869.18	35542.25	35199.22	0.96	ppb
Iron	57-2	35737.30	35089.96	35191.10	35339.46	0.99	ppb
Krypton	83-1						cps
Lead	206-1	38.93	39.68	40.31	39.64	1.74	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	37.06	38.07	38.13	37.75	1.58	ppb
Lead	208-1	37.85	38.85	39.06	38.59	1.68	ppb
Lithium	6-1				92		%
Magnesium	24-2	2470.50	2445.82	2488.44	2468.26	0.87	ppb
Manganese	55-2	858.16	846.14	857.61	853.97	0.79	ppb
Molybdenum	94-1	2.83	2.96	3.00	2.93	2.99	ppb
Molybdenum	95-1	1.51	1.58	1.54	1.54	2.52	ppb
Molybdenum	96-1	1.74	1.77	1.84	1.78	2.77	ppb
Molybdenum	97-1	1.52	1.60	1.52	1.55	2.90	ppb
Molybdenum	98-1	1.53	1.57	1.58	1.56	1.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.00	25.21	24.50	24.90	1.46	ppb
Phosphorus	31-2	858.65	841.93	840.88	847.15	1.18	ppb
Potassium	39-2	285.15	283.20	279.25	282.53	1.06	ppb
Rhodium	103-1				102		%
Rhodium	103-2				98		%
Scandium	45-1				104		%
Scandium	45-2				97		%
Selenium	82-1	0.63	1.20	1.12	0.99	31.27	ppb
Selenium	77-2	12.02	8.61	11.98	10.87	18.00	ppb
Selenium	78-2	2.45	2.77	3.77	3.00	22.82	ppb
Silicon	28-1	262.91	270.66	266.52	266.70	1.45	ppb
Silver	107-1	1.58	1.66	1.61	1.62	2.29	ppb
Silver	109-1	1.64	1.67	1.62	1.64	1.48	ppb
Sodium	23-2	65.41	64.32	65.32	65.02	0.93	ppb
Strontium	86-1	71.55	74.89	73.96	73.46	2.35	ppb
Strontium	88-1	76.05	79.36	78.46	77.96	2.20	ppb
Sulfur	34-1	729.93	1053.60	1007.52	930.35	18.82	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	0.06	0.06	0.06	0.06	2.47	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	2.44	ppb
Tin	118-1	0.12	0.14	0.14	0.13	7.72	ppb
Titanium	47-1	10.82	11.06	11.19	11.02	1.72	ppb
Uranium	238-1	0.09	0.09	0.09	0.09	2.38	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	8.21	7.82	7.95	7.99	2.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				96		%
Zinc	66-2	85.51	83.47	85.92	84.96	1.55	ppb
Zirconium	90-1	0.87	0.89	0.88	0.88	0.95	ppb
Zirconium	91-1	0.89	0.88	0.96	0.91	4.63	ppb

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2033.53	2161.29	2055.54	2083.45	3.28	ppb
Antimony	121-1	3.06	3.09	3.07	3.07	0.55	ppb
Arsenic	75-2	136.52	144.79	136.64	139.32	3.40	ppb
Barium	135-1	49.05	50.06	50.09	49.73	1.19	ppb
Barium	137-1	49.38	50.80	51.45	50.55	2.09	ppb
Beryllium	9-1	0.18	0.18	0.19	0.18	2.58	ppb
Bismuth	209-1				101		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.96	0.69	0.90	0.85	16.47	ppb
Cadmium	106-1	-1.47	-0.85	-0.56	-0.96		ppb
Cadmium	111-1	0.67	0.71	0.71	0.69	3.33	ppb
Calcium	43-1	3117.45	3247.99	3220.04	3195.16	2.15	ppb
Calcium	44-1	3340.34	3404.01	3393.42	3379.25	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.61	3.72	3.79	3.71	2.34	ppb
Cobalt	59-2	11.84	12.63	11.97	12.15	3.49	ppb
Copper	63-2	91.86	96.98	93.94	94.26	2.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				94		%
Indium	115-1				103		%
Indium	115-2				91		%
Iron	54-2	33141.45	35359.94	34312.43	34271.27	3.24	ppb
Iron	56-2	33380.00	35031.88	33567.68	33993.19	2.66	ppb
Iron	57-2	33376.48	35538.62	33737.79	34217.63	3.38	ppb
Krypton	83-1						cps
Lead	206-1	91.74	92.04	92.93	92.24	0.67	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	87.36	88.49	88.59	88.15	0.77	ppb
Lead	208-1	92.95	93.46	94.24	93.55	0.69	ppb
Lithium	6-1				92		%
Magnesium	24-2	1426.34	1521.73	1444.05	1464.04	3.47	ppb
Manganese	55-2	435.84	460.39	438.42	444.89	3.03	ppb
Molybdenum	94-1	3.26	3.48	3.42	3.39	3.39	ppb
Molybdenum	95-1	2.34	2.35	2.38	2.36	0.77	ppb
Molybdenum	96-1	2.53	2.65	2.62	2.60	2.45	ppb
Molybdenum	97-1	2.44	2.42	2.49	2.45	1.51	ppb
Molybdenum	98-1	2.32	2.40	2.41	2.38	1.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	42.50	43.58	43.32	43.13	1.31	ppb
Phosphorus	31-2	1620.93	1852.13	1588.44	1687.17	8.52	ppb
Potassium	39-2	537.28	581.90	547.70	555.63	4.20	ppb
Rhodium	103-1				102		%
Rhodium	103-2				97		%
Scandium	45-1				104		%
Scandium	45-2				94		%
Selenium	82-1	2.11	2.22	2.93	2.42	18.49	ppb
Selenium	77-2	14.26	9.05	14.24	12.52	23.98	ppb
Selenium	78-2	3.45	5.01	5.42	4.63	22.53	ppb
Silicon	28-1	271.22	282.17	275.61	276.33	1.99	ppb
Silver	107-1	1.48	1.54	1.55	1.52	2.43	ppb
Silver	109-1	1.53	1.53	1.53	1.53	0.25	ppb
Sodium	23-2	94.77	106.45	98.95	100.06	5.92	ppb
Strontium	86-1	42.75	44.26	43.89	43.63	1.81	ppb
Strontium	88-1	45.67	47.04	45.91	46.21	1.59	ppb
Sulfur	34-1	-447.01	-273.00	-326.33	-348.78		ppb
Terbium	159-1				102		%
Terbium	159-2				95		%
Thallium	203-1	0.09	0.10	0.10	0.10	4.23	ppb
Thallium	205-1	0.09	0.10	0.10	0.10	3.76	ppb
Tin	118-1	0.51	0.53	0.57	0.53	5.78	ppb
Titanium	47-1	12.46	12.94	12.84	12.75	1.97	ppb
Uranium	238-1	0.12	0.13	0.13	0.13	1.00	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.27	6.62	6.60	6.49	3.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				94		%
Zinc	66-2	248.94	267.25	257.03	257.74	3.56	ppb
Zirconium	90-1	0.77	0.77	0.77	0.77	0.16	ppb
Zirconium	91-1	0.78	0.87	0.83	0.83	5.39	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2764.52	2882.23	2834.44	2827.06	2.09	ppb
Antimony	121-1	3.23	3.24	3.23	3.23	0.33	ppb
Arsenic	75-2	165.44	177.43	178.39	173.75	4.15	ppb
Barium	135-1	64.00	65.78	65.05	64.94	1.37	ppb
Barium	137-1	65.44	66.80	66.01	66.08	1.03	ppb
Beryllium	9-1	0.26	0.27	0.26	0.26	1.66	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.09	1.32	1.07	1.16	11.85	ppb
Cadmium	106-1	-0.69	-0.25	0.01	-0.31		ppb
Cadmium	111-1	0.60	0.58	0.62	0.60	3.06	ppb
Calcium	43-1	35615.44	37102.18	36644.48	36454.03	2.09	ppb
Calcium	44-1	35456.22	36353.88	36366.94	36059.01	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.33	4.60	4.30	4.41	3.77	ppb
Cobalt	59-2	14.11	14.79	14.50	14.47	2.36	ppb
Copper	63-2	78.73	82.48	81.37	80.86	2.38	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				98		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	38117.21	39562.76	38657.53	38779.17	1.88	ppb
Iron	56-2	37498.36	39855.36	38810.43	38721.38	3.05	ppb
Iron	57-2	38199.54	39347.62	38905.93	38817.70	1.49	ppb
Krypton	83-1						cps
Lead	206-1	88.56	88.72	89.90	89.06	0.82	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	84.31	84.92	85.64	84.96	0.78	ppb
Lead	208-1	89.56	90.22	91.24	90.34	0.94	ppb
Lithium	6-1				89		%
Magnesium	24-2	7401.91	7633.63	7527.32	7520.95	1.54	ppb
Manganese	55-2	583.04	603.19	595.31	593.84	1.71	ppb
Molybdenum	94-1	7.85	8.11	7.99	7.98	1.65	ppb
Molybdenum	95-1	2.57	2.58	2.63	2.59	1.26	ppb
Molybdenum	96-1	3.19	3.20	3.33	3.24	2.49	ppb
Molybdenum	97-1	2.56	2.62	2.57	2.58	1.35	ppb
Molybdenum	98-1	2.54	2.58	2.54	2.56	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	49.17	50.36	50.56	50.03	1.51	ppb
Phosphorus	31-2	1276.33	1363.78	1371.41	1337.17	3.95	ppb
Potassium	39-2	523.40	551.21	547.78	540.80	2.80	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				104		%
Scandium	45-2				98		%
Selenium	82-1	2.36	2.29	2.81	2.49	11.40	ppb
Selenium	77-2	12.21	4.12	12.94	9.76	50.20	ppb
Selenium	78-2	5.95	3.10	3.06	4.04	41.04	ppb
Silicon	28-1	252.61	263.20	255.72	257.17	2.12	ppb
Silver	107-1	1.40	1.45	1.40	1.42	1.88	ppb
Silver	109-1	1.41	1.42	1.41	1.41	0.44	ppb
Sodium	23-2	84.49	88.99	90.94	88.14	3.75	ppb
Strontium	86-1	202.17	206.62	209.29	206.03	1.75	ppb
Strontium	88-1	209.65	215.51	218.02	214.39	2.00	ppb
Sulfur	34-1	1648.19	1691.50	1770.63	1703.44	3.64	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	0.10	0.10	0.11	0.10	4.18	ppb
Thallium	205-1	0.11	0.10	0.11	0.11	4.95	ppb
Tin	118-1	0.44	0.45	0.46	0.45	2.06	ppb
Titanium	47-1	5.75	5.93	5.93	5.87	1.74	ppb
Uranium	238-1	0.20	0.21	0.21	0.21	3.52	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.84	7.37	6.89	7.03	4.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				99		%
Zinc	66-2	139.55	144.62	143.33	142.50	1.85	ppb
Zirconium	90-1	3.23	3.26	3.25	3.25	0.53	ppb
Zirconium	91-1	3.18	3.30	3.35	3.28	2.54	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1389.88	1359.00	1379.93	1376.27	1.15	ppb
Antimony	121-1	1.51	1.62	1.59	1.57	3.52	ppb
Arsenic	75-2	83.80	81.84	91.55	85.73	5.99	ppb
Barium	135-1	48.13	50.41	48.78	49.11	2.39	ppb
Barium	137-1	48.68	50.98	49.62	49.76	2.32	ppb
Beryllium	9-1	0.13	0.12	0.15	0.13	8.99	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.75	0.72	0.96	0.81	15.79	ppb
Cadmium	106-1	-1.12	-0.43	-1.83	-1.13		ppb
Cadmium	111-1	0.79	0.79	0.74	0.77	4.00	ppb
Calcium	43-1	4842.01	4898.64	4890.07	4876.91	0.63	ppb
Calcium	44-1	5105.68	4994.27	5059.59	5053.18	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.93	2.81	2.97	2.90	2.88	ppb
Cobalt	59-2	7.01	6.77	7.01	6.93	2.02	ppb
Copper	63-2	42.76	41.06	43.76	42.53	3.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				97		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	31711.02	30266.41	31800.98	31259.47	2.75	ppb
Iron	56-2	31394.58	29889.28	31420.86	30901.57	2.84	ppb
Iron	57-2	31208.13	28401.42	29768.05	29792.53	4.71	ppb
Krypton	83-1						cps
Lead	206-1	55.36	56.03	56.21	55.87	0.80	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	52.45	53.41	53.22	53.03	0.96	ppb
Lead	208-1	53.70	54.31	54.32	54.11	0.65	ppb
Lithium	6-1				89		%
Magnesium	24-2	1274.89	1233.67	1294.21	1267.59	2.44	ppb
Manganese	55-2	574.86	548.55	579.90	567.77	2.97	ppb
Molybdenum	94-1	1.66	1.89	1.88	1.81	7.15	ppb
Molybdenum	95-1	1.26	1.24	1.23	1.24	1.16	ppb
Molybdenum	96-1	1.33	1.43	1.47	1.41	4.98	ppb
Molybdenum	97-1	1.26	1.24	1.30	1.27	2.25	ppb
Molybdenum	98-1	1.23	1.27	1.28	1.26	2.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.80	15.33	15.91	15.68	1.95	ppb
Phosphorus	31-2	2638.25	2583.83	2534.58	2585.55	2.01	ppb
Potassium	39-2	309.60	300.94	325.28	311.94	3.96	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				96		%
Selenium	82-1	0.90	1.08	0.90	0.96	10.92	ppb
Selenium	77-2	7.04	5.85	13.41	8.77	46.38	ppb
Selenium	78-2	2.28	2.82	4.54	3.21	36.76	ppb
Silicon	28-1	206.54	211.24	200.44	206.07	2.63	ppb
Silver	107-1	0.44	0.44	0.42	0.44	2.53	ppb
Silver	109-1	0.44	0.47	0.42	0.44	4.90	ppb
Sodium	23-2	58.81	55.30	63.75	59.29	7.16	ppb
Strontium	86-1	75.68	78.10	77.71	77.16	1.68	ppb
Strontium	88-1	81.33	82.91	82.98	82.41	1.13	ppb
Sulfur	34-1	88.03	129.02	109.40	108.82	18.84	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.05	0.06	0.05	0.05	8.36	ppb
Thallium	205-1	0.05	0.06	0.05	0.05	3.43	ppb
Tin	118-1	0.50	0.54	0.53	0.52	3.76	ppb
Titanium	47-1	24.30	24.04	24.44	24.26	0.83	ppb
Uranium	238-1	0.21	0.21	0.21	0.21	0.71	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	7.57	7.01	7.34	7.31	3.88	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				100		%
Zinc	66-2	297.07	290.22	301.98	296.42	1.99	ppb
Zirconium	90-1	0.36	0.42	0.41	0.40	7.87	ppb
Zirconium	91-1	0.42	0.43	0.44	0.43	2.26	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12125.25	12283.25	12234.89	12214.46	0.66	ppb
Antimony	121-1	3.52	3.57	3.44	3.51	1.90	ppb
Arsenic	75-2	169.29	169.08	167.90	168.76	0.45	ppb
Barium	135-1	75.78	78.57	77.09	77.15	1.81	ppb
Barium	137-1	76.95	79.45	77.44	77.95	1.70	ppb
Beryllium	9-1	0.50	0.54	0.52	0.52	3.71	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.51	1.61	1.31	1.47	10.50	ppb
Cadmium	106-1	-0.37	0.06	0.82	0.17	351.38	ppb
Cadmium	111-1	1.04	1.17	1.21	1.14	8.05	ppb
Calcium	43-1	17319.37	17395.03	17338.58	17350.99	0.23	ppb
Calcium	44-1	17884.12	17843.29	18013.13	17913.51	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	35.65	35.56	36.50	35.90	1.44	ppb
Cobalt	59-2	42.63	43.17	43.47	43.09	0.99	ppb
Copper	63-2	152.41	152.96	154.11	153.16	0.57	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				102		%
Holmium	165-2				96		%
Indium	115-1				101		%
Indium	115-2				92		%
Iron	54-2	67412.28	68463.36	68422.23	68099.29	0.87	ppb
Iron	56-2	67558.15	68344.25	68843.76	68248.72	0.95	ppb
Iron	57-2	68492.35	68594.28	68509.63	68532.09	0.08	ppb
Krypton	83-1						cps
Lead	206-1	25.89	25.55	26.08	25.84	1.05	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.67	24.23	25.07	24.66	1.71	ppb
Lead	208-1	25.25	24.98	25.46	25.23	0.97	ppb
Lithium	6-1				90		%
Magnesium	24-2	14956.73	14925.46	15278.41	15053.53	1.30	ppb
Manganese	55-2	1135.84	1146.33	1149.70	1143.96	0.63	ppb
Molybdenum	94-1	6.06	6.23	6.30	6.20	2.03	ppb
Molybdenum	95-1	4.21	4.40	4.38	4.33	2.35	ppb
Molybdenum	96-1	4.71	4.74	4.73	4.73	0.30	ppb
Molybdenum	97-1	4.31	4.40	4.43	4.38	1.36	ppb
Molybdenum	98-1	4.22	4.33	4.30	4.28	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	150.41	151.61	151.27	151.10	0.41	ppb
Phosphorus	31-2	2058.30	2065.58	2120.56	2081.48	1.64	ppb
Potassium	39-2	802.10	813.89	812.53	809.51	0.80	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				104		%
Scandium	45-2				98		%
Selenium	82-1	1.99	1.90	1.72	1.87	7.35	ppb
Selenium	77-2	18.39	20.60	21.67	20.22	8.27	ppb
Selenium	78-2	5.32	5.64	4.66	5.21	9.62	ppb
Silicon	28-1	553.02	540.28	534.19	542.50	1.77	ppb
Silver	107-1	0.66	0.71	0.66	0.68	3.59	ppb
Silver	109-1	0.68	0.71	0.71	0.70	2.40	ppb
Sodium	23-2	103.71	107.26	106.76	105.91	1.81	ppb
Strontium	86-1	126.92	130.92	130.24	129.36	1.65	ppb
Strontium	88-1	136.75	138.60	139.47	138.27	1.00	ppb
Sulfur	34-1	1457.48	1387.48	1400.91	1415.29	2.62	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	0.13	0.13	0.14	0.13	4.22	ppb
Thallium	205-1	0.13	0.14	0.14	0.14	3.95	ppb
Tin	118-1	0.30	0.70	0.33	0.44	48.89	ppb
Titanium	47-1	182.09	183.14	184.32	183.18	0.61	ppb
Uranium	238-1	0.42	0.41	0.42	0.42	2.15	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	44.90	44.22	44.33	44.48	0.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				98		%
Zinc	66-2	181.52	181.18	182.15	181.62	0.27	ppb
Zirconium	90-1	1.39	1.43	1.50	1.44	3.81	ppb
Zirconium	91-1	1.44	1.46	1.56	1.49	4.19	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	26185.70	25454.59	25475.56	25705.29	1.62	ppb
Antimony	121-1	1.84	1.72	1.79	1.78	3.27	ppb
Arsenic	75-2	21.47	22.43	20.77	21.56	3.85	ppb
Barium	135-1	157.78	152.30	154.44	154.84	1.78	ppb
Barium	137-1	158.69	153.28	157.31	156.43	1.80	ppb
Beryllium	9-1	0.72	0.67	0.70	0.70	3.32	ppb
Bismuth	209-1				98		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.89	0.72	0.78	0.80	10.93	ppb
Cadmium	106-1	-1.18	-1.49	-1.39	-1.35		ppb
Cadmium	111-1	0.45	0.43	0.52	0.47	9.65	ppb
Calcium	43-1	3742.36	3772.61	3787.76	3767.58	0.61	ppb
Calcium	44-1	3870.22	3932.95	3945.69	3916.29	1.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.29	32.04	31.83	32.05	0.72	ppb
Cobalt	59-2	39.00	38.75	38.51	38.75	0.64	ppb
Copper	63-2	122.18	122.01	121.65	121.95	0.22	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				102		%
Holmium	165-2				95		%
Indium	115-1				102		%
Indium	115-2				91		%
Iron	54-2	74685.00	73178.50	73833.63	73899.04	1.02	ppb
Iron	56-2	74465.56	73700.93	74349.26	74171.92	0.56	ppb
Iron	57-2	74543.23	73851.43	75025.13	74473.27	0.79	ppb
Krypton	83-1						cps
Lead	206-1	20.51	20.97	20.85	20.78	1.15	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.73	19.92	20.06	19.90	0.83	ppb
Lead	208-1	19.91	20.27	20.31	20.17	1.08	ppb
Lithium	6-1				90		%
Magnesium	24-2	16969.58	16949.56	16588.27	16835.80	1.27	ppb
Manganese	55-2	717.15	713.78	711.76	714.23	0.38	ppb
Molybdenum	94-1	7.70	7.79	7.72	7.73	0.60	ppb
Molybdenum	95-1	4.49	4.68	4.60	4.59	2.00	ppb
Molybdenum	96-1	5.02	5.07	5.14	5.08	1.19	ppb
Molybdenum	97-1	4.50	4.56	4.66	4.57	1.73	ppb
Molybdenum	98-1	4.43	4.61	4.63	4.56	2.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	68.98	68.33	68.00	68.44	0.73	ppb
Phosphorus	31-2	1140.73	1016.17	1158.84	1105.25	7.03	ppb
Potassium	39-2	2873.29	2838.86	2809.03	2840.39	1.13	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				96		%
Selenium	82-1	1.73	1.67	1.40	1.60	11.16	ppb
Selenium	77-2	22.25	12.06	15.58	16.63	31.12	ppb
Selenium	78-2	2.47	4.79	2.82	3.36	37.22	ppb
Silicon	28-1	716.65	722.87	716.77	718.77	0.50	ppb
Silver	107-1	0.34	0.30	0.32	0.32	7.28	ppb
Silver	109-1	0.32	0.33	0.32	0.32	2.58	ppb
Sodium	23-2	196.34	194.06	194.36	194.92	0.63	ppb
Strontium	86-1	16.89	17.13	17.28	17.10	1.16	ppb
Strontium	88-1	16.86	17.25	17.38	17.16	1.59	ppb
Sulfur	34-1	7027.12	7040.30	6865.95	6977.79	1.39	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.07	0.07	0.06	0.07	8.84	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	0.65	ppb
Tin	118-1	0.50	0.46	0.51	0.49	4.93	ppb
Titanium	47-1	820.51	817.62	820.37	819.50	0.20	ppb
Uranium	238-1	0.46	0.47	0.45	0.46	1.82	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	53.07	52.67	52.86	52.87	0.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				95		%
Zinc	66-2	132.99	131.46	131.98	132.14	0.59	ppb
Zirconium	90-1	2.05	2.25	2.15	2.15	4.57	ppb
Zirconium	91-1	2.63	2.08	2.13	2.28	13.47	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	26120.90	26157.04	25400.86	25892.94	1.65	ppb
Antimony	121-1	1.01	1.11	1.18	1.10	7.83	ppb
Arsenic	75-2	27.04	26.19	27.15	26.79	1.95	ppb
Barium	135-1	151.03	158.71	167.75	159.16	5.26	ppb
Barium	137-1	152.16	161.67	169.94	161.26	5.52	ppb
Beryllium	9-1	0.81	0.80	0.89	0.83	6.18	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.03	1.06	1.26	1.12	11.23	ppb
Cadmium	106-1	-1.87	-0.44	-0.98	-1.10		ppb
Cadmium	111-1	0.53	0.62	0.60	0.58	7.59	ppb
Calcium	43-1	10189.86	10815.32	11393.86	10799.68	5.58	ppb
Calcium	44-1	10644.95	11216.23	11729.67	11196.95	4.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.54	31.96	31.95	32.15	1.04	ppb
Cobalt	59-2	38.73	38.64	37.83	38.40	1.29	ppb
Copper	63-2	125.06	123.74	122.28	123.69	1.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				96		%
Indium	115-1				98		%
Indium	115-2				91		%
Iron	54-2	72240.64	71101.67	70069.12	71137.14	1.53	ppb
Iron	56-2	72420.94	71234.53	70195.98	71283.82	1.56	ppb
Iron	57-2	72390.20	71077.91	69654.17	71040.76	1.93	ppb
Krypton	83-1						cps
Lead	206-1	20.30	20.82	22.50	21.21	5.41	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.37	19.83	21.48	20.23	5.49	ppb
Lead	208-1	19.71	20.29	21.77	20.59	5.15	ppb
Lithium	6-1				88		%
Magnesium	24-2	17502.47	17030.15	17108.26	17213.63	1.47	ppb
Manganese	55-2	1105.82	1110.74	1082.94	1099.83	1.35	ppb
Molybdenum	94-1	12.49	12.97	13.74	13.07	4.82	ppb
Molybdenum	95-1	7.47	8.01	8.51	8.00	6.45	ppb
Molybdenum	96-1	8.27	8.90	9.29	8.82	5.82	ppb
Molybdenum	97-1	7.83	8.02	8.65	8.17	5.26	ppb
Molybdenum	98-1	7.68	8.09	8.55	8.11	5.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	127.26	127.07	124.79	126.37	1.09	ppb
Phosphorus	31-2	1371.91	1405.90	1370.76	1382.86	1.44	ppb
Potassium	39-2	4143.52	4096.02	4039.90	4093.15	1.27	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	1.56	1.59	1.31	1.49	10.50	ppb
Selenium	77-2	8.68	6.42	18.68	11.26	57.97	ppb
Selenium	78-2	4.13	5.46	3.76	4.45	20.09	ppb
Silicon	28-1	799.15	850.37	872.03	840.52	4.45	ppb
Silver	107-1	0.27	0.28	0.30	0.29	5.00	ppb
Silver	109-1	0.25	0.29	0.30	0.28	7.95	ppb
Sodium	23-2	302.44	306.48	297.10	302.01	1.56	ppb
Strontium	86-1	26.79	28.57	29.85	28.40	5.41	ppb
Strontium	88-1	27.31	28.63	30.30	28.75	5.21	ppb
Sulfur	34-1	13388.47	14164.51	15175.24	14242.74	6.29	ppb
Terbium	159-1				99		%
Terbium	159-2				95		%
Thallium	203-1	0.07	0.08	0.08	0.08	8.19	ppb
Thallium	205-1	0.07	0.07	0.08	0.07	8.33	ppb
Tin	118-1	0.37	0.39	0.45	0.40	9.79	ppb
Titanium	47-1	475.00	499.23	528.11	500.78	5.31	ppb
Uranium	238-1	0.31	0.33	0.35	0.33	5.87	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	52.05	51.76	50.75	51.52	1.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				95		%
Zinc	66-2	164.67	164.84	161.24	163.58	1.24	ppb
Zirconium	90-1	3.23	3.35	3.59	3.39	5.40	ppb
Zirconium	91-1	3.35	3.56	3.74	3.55	5.59	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33214.12	33879.89	33413.53	33502.51	1.02	ppb
Antimony	121-1	0.49	0.46	0.49	0.48	4.05	ppb
Arsenic	75-2	22.34	23.04	22.83	22.74	1.57	ppb
Barium	135-1	142.42	141.61	143.19	142.41	0.55	ppb
Barium	137-1	143.77	143.36	144.79	143.97	0.51	ppb
Beryllium	9-1	1.33	1.30	1.31	1.31	1.15	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.07	0.88	1.01	0.99	9.90	ppb
Cadmium	106-1	-0.51	-0.77	-0.55	-0.61		ppb
Cadmium	111-1	0.84	0.90	0.87	0.87	3.86	ppb
Calcium	43-1	6144.63	6236.15	6246.55	6209.11	0.90	ppb
Calcium	44-1	6447.60	6365.96	6427.59	6413.72	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	45.06	45.14	45.78	45.33	0.88	ppb
Cobalt	59-2	89.89	90.68	91.02	90.53	0.64	ppb
Copper	63-2	110.19	111.37	112.21	111.26	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	54-2	115631.15	117047.13	118216.14	116964.81	1.11	ppb
Iron	56-2	115524.64	117533.24	116197.16	116418.34	0.88	ppb
Iron	57-2	113229.88	117129.28	115735.24	115364.80	1.71	ppb
Krypton	83-1						cps
Lead	206-1	21.22	21.08	20.97	21.09	0.61	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.41	20.27	20.19	20.29	0.53	ppb
Lead	208-1	20.71	20.49	20.47	20.56	0.65	ppb
Lithium	6-1				90		%
Magnesium	24-2	22765.28	22660.83	23282.70	22902.94	1.45	ppb
Manganese	55-2	2472.75	2568.10	2553.95	2531.60	2.03	ppb
Molybdenum	94-1	4.86	4.88	4.87	4.87	0.20	ppb
Molybdenum	95-1	3.13	3.16	3.16	3.15	0.63	ppb
Molybdenum	96-1	3.68	3.74	3.67	3.69	0.96	ppb
Molybdenum	97-1	3.18	3.23	3.25	3.22	1.03	ppb
Molybdenum	98-1	3.15	3.15	3.10	3.13	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	253.43	255.96	259.15	256.18	1.12	ppb
Phosphorus	31-2	1861.88	1769.88	1750.30	1794.02	3.32	ppb
Potassium	39-2	1891.06	1918.35	1911.42	1906.94	0.74	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	0.96	0.63	0.87	0.82	20.77	ppb
Selenium	77-2	49.14	59.15	62.99	57.10	12.52	ppb
Selenium	78-2	8.80	8.23	10.72	9.25	14.10	ppb
Silicon	28-1	758.68	767.85	764.90	763.81	0.61	ppb
Silver	107-1	0.22	0.21	0.23	0.22	4.05	ppb
Silver	109-1	0.21	0.20	0.22	0.21	5.39	ppb
Sodium	23-2	163.02	166.15	166.41	165.19	1.14	ppb
Strontium	86-1	30.15	30.22	30.76	30.38	1.09	ppb
Strontium	88-1	30.28	30.61	30.72	30.54	0.76	ppb
Sulfur	34-1	-394.51	-359.28	-399.54	-384.44		ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.15	0.15	0.14	0.14	5.83	ppb
Thallium	205-1	0.15	0.15	0.14	0.15	3.16	ppb
Tin	118-1	0.46	0.52	0.52	0.50	6.46	ppb
Titanium	47-1	660.11	664.02	660.78	661.63	0.32	ppb
Uranium	238-1	0.42	0.42	0.42	0.42	0.28	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	67.99	69.07	68.56	68.54	0.79	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	303.47	307.77	311.06	307.44	1.24	ppb
Zirconium	90-1	1.20	1.23	1.25	1.23	2.05	ppb
Zirconium	91-1	1.26	1.27	1.29	1.27	0.97	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.92	0.16	0.92	0.67	65.59	ppb
Antimony	121-1	0.00	0.00	0.00	0.00		ppb
Arsenic	75-2	0.00	-0.02	0.00	-0.01		ppb
Barium	135-1	-0.06	-0.07	-0.06	-0.06		ppb
Barium	137-1	-0.05	-0.07	-0.07	-0.07		ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	338.95	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.01	-0.07	-0.02	-0.03		ppb
Cadmium	106-1	-2.91	-3.01	-2.79	-2.90		ppb
Cadmium	111-1	-0.06	-0.06	-0.06	-0.06		ppb
Calcium	43-1	0.16	1.18	1.55	0.96	74.93	ppb
Calcium	44-1	-2.02	-2.27	-2.37	-2.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	0.01	-0.01		ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	123.92	ppb
Copper	63-2	0.20	0.24	0.10	0.18	40.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				94		%
Indium	115-1				98		%
Indium	115-2				90		%
Iron	54-2	6.48	5.67	6.53	6.23	7.75	ppb
Iron	56-2	5.32	5.34	5.58	5.41	2.68	ppb
Iron	57-2	5.53	4.74	6.16	5.48	13.00	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.10	0.10	0.10	8.40	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.11	0.11	0.11	3.77	ppb
Lead	208-1	0.10	0.10	0.11	0.11	3.72	ppb
Lithium	6-1				90		%
Magnesium	24-2	0.99	1.04	0.47	0.83	37.98	ppb
Manganese	55-2	0.26	0.19	0.23	0.23	15.04	ppb
Molybdenum	94-1	0.02	0.00	-0.01	0.00	609.88	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	73.23	ppb
Molybdenum	97-1	0.00	0.01	-0.01	0.00	429.11	ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	117.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.08	0.00	-0.07	-0.05		ppb
Phosphorus	31-2	-22.86	-28.88	-31.99	-27.91		ppb
Potassium	39-2	-8.44	-7.20	-6.53	-7.39		ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				89		%
Selenium	82-1	0.18	0.00	-0.06	0.04	293.03	ppb
Selenium	77-2	-0.36	0.84	-0.36	0.04	1827.16	ppb
Selenium	78-2	0.52	0.88	-0.17	0.41	130.37	ppb
Silicon	28-1	-1.18	-1.21	-1.19	-1.19		ppb
Silver	107-1	0.00	0.00	0.00	0.00	53.31	ppb
Silver	109-1	0.00	0.00	0.00	0.00	77.88	ppb
Sodium	23-2	-3.42	-3.52	-4.53	-3.82		ppb
Strontium	86-1	-0.01	-0.01	-0.02	-0.01		ppb
Strontium	88-1	0.00	-0.01	-0.01	-0.01		ppb
Sulfur	34-1	-957.86	-926.88	-846.11	-910.28		ppb
Terbium	159-1				98		%
Terbium	159-2				93		%
Thallium	203-1	0.00	0.00	0.00	0.00	47.22	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	103.11	ppb
Tin	118-1	-0.02	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.06	0.02	0.03	0.04	61.05	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	172.97	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				90		%
Zinc	66-2	-0.11	-0.05	0.14	-0.01		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	1799.19	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	34.37	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.15	41.83	35.76	39.25	7.99	ppb
Antimony	121-1	3.73	3.88	3.88	3.83	2.32	ppb
Arsenic	75-2	2.16	2.37	1.89	2.14	11.29	ppb
Barium	135-1	18.57	19.18	19.17	18.97	1.85	ppb
Barium	137-1	18.78	19.17	19.59	19.18	2.10	ppb
Beryllium	9-1	1.88	1.95	1.96	1.93	2.36	ppb
Bismuth	209-1				92		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.82	2.21	1.68	1.90	14.46	ppb
Cadmium	106-1	-0.53	0.46	0.43	0.12	477.09	ppb
Cadmium	111-1	1.89	2.00	2.02	1.97	3.55	ppb
Calcium	43-1	1080.72	1085.50	1095.57	1087.26	0.70	ppb
Calcium	44-1	1024.27	1029.28	1036.84	1030.13	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.92	3.97	3.69	3.86	3.79	ppb
Cobalt	59-2	2.03	2.08	2.01	2.04	1.66	ppb
Copper	63-2	4.73	4.73	4.40	4.62	4.19	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				92		%
Holmium	165-2				92		%
Indium	115-1				92		%
Indium	115-2				87		%
Iron	54-2	423.77	431.22	414.84	423.28	1.94	ppb
Iron	56-2	423.00	433.01	413.55	423.19	2.30	ppb
Iron	57-2	418.84	426.15	406.46	417.15	2.39	ppb
Krypton	83-1						cps
Lead	206-1	1.86	1.92	1.96	1.91	2.71	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.82	1.92	1.94	1.89	3.46	ppb
Lead	208-1	1.84	1.91	1.94	1.89	2.48	ppb
Lithium	6-1				90		%
Magnesium	24-2	995.08	985.97	966.92	982.66	1.46	ppb
Manganese	55-2	2.06	2.16	2.04	2.09	2.93	ppb
Molybdenum	94-1	10.95	11.36	11.32	11.21	2.05	ppb
Molybdenum	95-1	9.41	9.54	9.47	9.47	0.68	ppb
Molybdenum	96-1	9.36	9.71	9.78	9.62	2.35	ppb
Molybdenum	97-1	9.33	9.70	9.59	9.54	1.98	ppb
Molybdenum	98-1	9.15	9.37	9.41	9.31	1.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.08	2.09	2.03	2.07	1.69	ppb
Phosphorus	31-2	25.09	28.00	21.36	24.82	13.41	ppb
Potassium	39-2	936.09	968.65	918.74	941.16	2.69	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	9.51	10.97	10.24	10.24	7.15	ppb
Selenium	77-2	8.30	9.70	11.95	9.98	18.45	ppb
Selenium	78-2	6.39	10.21	11.43	9.34	28.12	ppb
Silicon	28-1	3.72	3.88	3.90	3.83	2.51	ppb
Silver	107-1	1.84	1.95	1.97	1.92	3.67	ppb
Silver	109-1	1.88	1.91	1.97	1.92	2.50	ppb
Sodium	23-2	975.79	993.49	961.57	976.95	1.64	ppb
Strontium	86-1	317.64	327.73	327.20	324.19	1.75	ppb
Strontium	88-1	340.64	348.12	350.39	346.38	1.47	ppb
Sulfur	34-1	-583.19	-508.86	-508.91	-533.65		ppb
Terbium	159-1				92		%
Terbium	159-2				90		%
Thallium	203-1	1.78	1.86	1.84	1.83	2.15	ppb
Thallium	205-1	1.80	1.81	1.87	1.83	2.17	ppb
Tin	118-1	9.38	9.74	9.99	9.70	3.15	ppb
Titanium	47-1	10.87	10.76	10.56	10.73	1.44	ppb
Uranium	238-1	1.71	1.75	1.78	1.75	1.97	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.77	9.85	9.85	9.82	0.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				87		%
Zinc	66-2	10.68	10.34	10.37	10.47	1.80	ppb
Zirconium	90-1	1.85	1.88	1.90	1.88	1.29	ppb
Zirconium	91-1	1.81	1.84	1.88	1.85	1.95	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32608.58	32093.68	32210.66	32304.31	0.84	ppb
Antimony	121-1	0.56	0.55	0.57	0.56	2.07	ppb
Arsenic	75-2	31.08	29.12	30.11	30.10	3.27	ppb
Barium	135-1	138.29	140.82	141.52	140.21	1.21	ppb
Barium	137-1	140.41	142.68	142.22	141.77	0.85	ppb
Beryllium	9-1	0.53	0.54	0.54	0.54	0.46	ppb
Bismuth	209-1				92		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	1.30	1.41	1.36	1.36	4.39	ppb
Cadmium	106-1	0.09	-0.65	-0.58	-0.38		ppb
Cadmium	111-1	1.01	0.98	1.05	1.02	3.56	ppb
Calcium	43-1	5323.46	5420.33	5409.83	5384.54	0.99	ppb
Calcium	44-1	5633.22	5651.46	5756.16	5680.28	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.57	43.83	44.02	43.81	0.52	ppb
Cobalt	59-2	51.34	51.87	51.42	51.55	0.55	ppb
Copper	63-2	174.58	174.22	174.15	174.31	0.13	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				96		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				87		%
Iron	54-2	91540.95	91227.54	90766.09	91178.19	0.43	ppb
Iron	56-2	92073.23	92055.37	91739.72	91956.11	0.20	ppb
Iron	57-2	92034.15	91239.08	90380.97	91218.07	0.91	ppb
Krypton	83-1						cps
Lead	206-1	15.20	15.26	15.55	15.34	1.23	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	14.43	14.36	14.81	14.53	1.66	ppb
Lead	208-1	14.76	14.68	15.13	14.86	1.61	ppb
Lithium	6-1				91		%
Magnesium	24-2	20936.28	20348.60	21010.83	20765.24	1.75	ppb
Manganese	55-2	1019.81	1023.70	1018.57	1020.69	0.26	ppb
Molybdenum	94-1	6.20	5.97	6.16	6.11	2.05	ppb
Molybdenum	95-1	3.32	3.39	3.47	3.39	2.22	ppb
Molybdenum	96-1	3.87	4.04	3.89	3.93	2.46	ppb
Molybdenum	97-1	3.40	3.46	3.44	3.43	0.89	ppb
Molybdenum	98-1	3.41	3.46	3.39	3.42	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	88.06	88.66	88.68	88.47	0.40	ppb
Phosphorus	31-2	1982.16	1880.99	2065.86	1976.34	4.68	ppb
Potassium	39-2	2884.57	2862.30	2870.07	2872.31	0.39	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	1.62	2.00	1.88	1.83	10.64	ppb
Selenium	77-2	35.22	45.60	32.72	37.84	18.05	ppb
Selenium	78-2	7.24	6.57	8.20	7.34	11.14	ppb
Silicon	28-1	324.52	326.99	303.98	318.50	3.97	ppb
Silver	107-1	0.41	0.38	0.38	0.39	4.31	ppb
Silver	109-1	0.43	0.38	0.38	0.40	6.83	ppb
Sodium	23-2	138.02	143.62	145.91	142.52	2.85	ppb
Strontium	86-1	23.53	23.54	23.32	23.46	0.53	ppb
Strontium	88-1	23.34	23.39	23.46	23.40	0.26	ppb
Sulfur	34-1	2146.05	2165.09	2153.53	2154.89	0.45	ppb
Terbium	159-1				96		%
Terbium	159-2				92		%
Thallium	203-1	0.13	0.13	0.12	0.12	3.90	ppb
Thallium	205-1	0.13	0.13	0.13	0.13	1.77	ppb
Tin	118-1	0.60	0.61	0.58	0.60	1.78	ppb
Titanium	47-1	958.83	933.44	944.78	945.68	1.35	ppb
Uranium	238-1	0.57	0.57	0.57	0.57	0.79	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	72.78	72.10	72.97	72.62	0.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				94		%
Zinc	66-2	161.35	159.24	162.09	160.89	0.92	ppb
Zirconium	90-1	1.76	1.81	1.79	1.79	1.62	ppb
Zirconium	91-1	1.78	1.87	1.91	1.85	3.58	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	29923.94	30714.86	34903.78	31847.53	8.40	ppb
Antimony	121-1	0.82	0.80	0.82	0.81	1.14	ppb
Arsenic	75-2	29.44	31.69	34.63	31.92	8.16	ppb
Barium	135-1	357.37	352.08	361.49	356.98	1.32	ppb
Barium	137-1	378.76	376.08	387.46	380.77	1.56	ppb
Beryllium	9-1	1.33	1.33	1.33	1.33	0.06	ppb
Bismuth	209-1				93		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.73	0.97	0.76	25.42	ppb
Cadmium	106-1	0.63	0.75	0.91	0.76	18.83	ppb
Cadmium	111-1	0.41	0.36	0.41	0.39	7.70	ppb
Calcium	43-1	4338.11	4360.39	4312.43	4336.98	0.55	ppb
Calcium	44-1	4507.76	4445.34	4414.05	4455.71	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	57.06	58.94	67.16	61.05	8.80	ppb
Cobalt	59-2	46.38	49.26	55.04	50.23	8.77	ppb
Copper	63-2	104.39	109.44	123.22	112.35	8.67	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				96		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	95709.86	99077.10	113755.54	102847.50	9.33	ppb
Iron	56-2	95866.39	99292.74	113170.56	102776.57	8.92	ppb
Iron	57-2	95318.81	101552.16	112265.71	103045.56	8.32	ppb
Krypton	83-1						cps
Lead	206-1	24.34	23.81	24.22	24.12	1.16	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.86	22.46	23.02	22.78	1.26	ppb
Lead	208-1	23.42	22.98	23.64	23.34	1.45	ppb
Lithium	6-1				90		%
Magnesium	24-2	16328.35	16827.91	18873.81	17343.36	7.78	ppb
Manganese	55-2	3837.58	4014.18	4506.18	4119.31	8.41	ppb
Molybdenum	94-1	6.85	6.95	9.74	7.85	20.87	ppb
Molybdenum	95-1	4.42	4.40	4.48	4.43	0.93	ppb
Molybdenum	96-1	5.00	4.91	4.95	4.95	0.85	ppb
Molybdenum	97-1	4.53	4.39	4.55	4.49	1.98	ppb
Molybdenum	98-1	4.31	4.30	4.39	4.33	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	110.28	114.49	128.48	117.75	8.09	ppb
Phosphorus	31-2	1182.76	1242.63	1336.45	1253.95	6.18	ppb
Potassium	39-2	3096.63	3197.96	3623.29	3305.96	8.45	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				107		%
Scandium	45-2				103		%
Selenium	82-1	1.22	1.25	0.56	1.01	38.84	ppb
Selenium	77-2	94.06	106.88	119.69	106.88	11.99	ppb
Selenium	78-2	14.41	17.19	18.52	16.71	12.54	ppb
Silicon	28-1	189.61	185.16	182.72	185.83	1.88	ppb
Silver	107-1	0.07	0.06	0.07	0.07	4.15	ppb
Silver	109-1	0.06	0.06	0.06	0.06	1.70	ppb
Sodium	23-2	30.08	34.91	47.00	37.33	23.35	ppb
Strontium	86-1	31.65	31.55	32.17	31.79	1.04	ppb
Strontium	88-1	31.94	32.03	32.21	32.06	0.43	ppb
Sulfur	34-1	-1112.74	-1114.54	-1137.47	-1121.59		ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	0.25	0.26	0.26	0.26	1.76	ppb
Thallium	205-1	0.26	0.26	0.27	0.26	2.49	ppb
Tin	118-1	1.73	1.77	1.75	1.75	1.09	ppb
Titanium	47-1	858.53	865.06	855.91	859.83	0.55	ppb
Uranium	238-1	1.78	1.73	1.79	1.77	1.65	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	127.78	131.92	149.80	136.50	8.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				113		%
Zinc	66-2	187.03	194.23	223.11	201.46	9.48	ppb
Zirconium	90-1	1.81	1.78	1.78	1.79	0.73	ppb
Zirconium	91-1	1.79	1.82	1.80	1.80	0.79	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32419.98	33215.82	32974.90	32870.24	1.24	ppb
Antimony	121-1	0.72	0.72	0.74	0.72	1.49	ppb
Arsenic	75-2	32.39	30.01	30.14	30.85	4.35	ppb
Barium	135-1	359.78	363.84	363.13	362.25	0.60	ppb
Barium	137-1	393.59	391.76	391.47	392.27	0.29	ppb
Beryllium	9-1	1.27	1.29	1.33	1.30	2.54	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.70	0.70	0.73	0.71	2.44	ppb
Cadmium	106-1	0.61	1.56	0.53	0.90	63.48	ppb
Cadmium	111-1	0.35	0.37	0.37	0.36	2.06	ppb
Calcium	43-1	4214.70	4359.88	4349.68	4308.09	1.88	ppb
Calcium	44-1	4410.24	4482.02	4460.45	4450.90	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	62.90	63.05	62.33	62.76	0.60	ppb
Cobalt	59-2	51.38	51.00	51.41	51.26	0.44	ppb
Copper	63-2	114.05	115.92	115.28	115.08	0.83	ppb
Dysprosium	156-1						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				95		%
Indium	115-1				97		%
Indium	115-2				89		%
Iron	54-2	105689.49	105686.64	105520.19	105632.11	0.09	ppb
Iron	56-2	105810.16	106214.87	106214.79	106079.94	0.22	ppb
Iron	57-2	106237.82	104825.03	104201.16	105088.00	0.99	ppb
Krypton	83-1						cps
Lead	206-1	23.58	24.00	24.19	23.92	1.31	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.15	22.23	22.73	22.37	1.40	ppb
Lead	208-1	22.81	22.99	23.34	23.05	1.17	ppb
Lithium	6-1				90		%
Magnesium	24-2	17953.68	18040.65	18055.11	18016.48	0.30	ppb
Manganese	55-2	4209.33	4206.84	4195.03	4203.73	0.18	ppb
Molybdenum	94-1	6.13	6.22	6.29	6.22	1.30	ppb
Molybdenum	95-1	3.89	3.86	3.82	3.85	0.94	ppb
Molybdenum	96-1	4.37	4.48	4.45	4.43	1.26	ppb
Molybdenum	97-1	3.94	3.97	4.01	3.97	0.86	ppb
Molybdenum	98-1	3.80	3.92	3.92	3.88	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	119.16	119.95	120.60	119.91	0.60	ppb
Phosphorus	31-2	1237.17	1289.35	1330.61	1285.71	3.64	ppb
Potassium	39-2	3444.53	3432.89	3425.69	3434.37	0.28	ppb
Rhodium	103-1				95		%
Rhodium	103-2				93		%
Scandium	45-1				108		%
Scandium	45-2				102		%
Selenium	82-1	0.89	1.46	1.49	1.28	26.26	ppb
Selenium	77-2	108.56	111.70	102.19	107.48	4.51	ppb
Selenium	78-2	18.19	18.20	18.68	18.36	1.51	ppb
Silicon	28-1	357.55	361.67	367.94	362.39	1.44	ppb
Silver	107-1	0.06	0.07	0.06	0.06	5.44	ppb
Silver	109-1	0.05	0.07	0.06	0.06	10.86	ppb
Sodium	23-2	41.63	42.65	45.11	43.13	4.15	ppb
Strontium	86-1	31.33	32.13	31.99	31.82	1.34	ppb
Strontium	88-1	33.26	33.60	33.88	33.58	0.92	ppb
Sulfur	34-1	-1239.00	-1173.82	-1185.67	-1199.50		ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.25	0.26	0.27	0.26	3.08	ppb
Thallium	205-1	0.25	0.27	0.26	0.26	3.60	ppb
Tin	118-1	1.67	1.65	1.63	1.65	1.05	ppb
Titanium	47-1	873.89	902.58	886.29	887.59	1.62	ppb
Uranium	238-1	1.73	1.76	1.76	1.75	1.06	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	141.40	141.41	141.38	141.40	0.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				113		%
Zinc	66-2	206.25	203.45	207.85	205.85	1.08	ppb
Zirconium	90-1	1.69	1.67	1.67	1.68	0.75	ppb
Zirconium	91-1	1.72	1.85	1.72	1.76	4.20	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7044.67	7101.83	7074.40	7073.63	0.40	ppb
Antimony	121-1	0.15	0.17	0.17	0.16	7.00	ppb
Arsenic	75-2	8.28	8.12	7.88	8.09	2.47	ppb
Barium	135-1	73.71	74.15	74.60	74.15	0.60	ppb
Barium	137-1	74.97	74.87	75.39	75.07	0.37	ppb
Beryllium	9-1	0.28	0.27	0.25	0.26	5.80	ppb
Bismuth	209-1				94		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.22	0.11	0.03	0.12	79.45	ppb
Cadmium	106-1	-1.90	-2.01	-1.52	-1.81		ppb
Cadmium	111-1	0.02	0.03	0.04	0.03	23.87	ppb
Calcium	43-1	972.81	952.97	988.26	971.35	1.82	ppb
Calcium	44-1	951.91	959.11	976.45	962.49	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.19	14.14	14.18	14.17	0.18	ppb
Cobalt	59-2	11.54	11.59	11.74	11.62	0.88	ppb
Copper	63-2	26.27	26.80	26.35	26.47	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				96		%
Holmium	165-2				93		%
Indium	115-1				95		%
Indium	115-2				88		%
Iron	54-2	24076.49	24724.70	24505.42	24435.54	1.35	ppb
Iron	56-2	23900.58	24089.43	24076.58	24022.20	0.44	ppb
Iron	57-2	22599.70	22836.75	22637.93	22691.46	0.56	ppb
Krypton	83-1						cps
Lead	206-1	4.70	4.81	4.90	4.80	2.10	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.46	4.54	4.59	4.53	1.53	ppb
Lead	208-1	4.65	4.67	4.70	4.67	0.61	ppb
Lithium	6-1				90		%
Magnesium	24-2	3875.38	3922.68	3901.18	3899.75	0.61	ppb
Manganese	55-2	903.58	918.39	916.66	912.88	0.89	ppb
Molybdenum	94-1	1.57	1.52	1.54	1.54	1.71	ppb
Molybdenum	95-1	1.01	1.01	1.01	1.01	0.35	ppb
Molybdenum	96-1	1.06	1.13	1.13	1.11	3.67	ppb
Molybdenum	97-1	1.01	0.95	1.05	1.00	4.80	ppb
Molybdenum	98-1	0.99	0.96	0.99	0.98	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.05	27.94	28.06	28.01	0.24	ppb
Phosphorus	31-2	247.47	252.60	244.79	248.29	1.60	ppb
Potassium	39-2	751.15	752.99	746.16	750.10	0.47	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				89		%
Selenium	82-1	0.71	0.15	0.20	0.35	88.07	ppb
Selenium	77-2	23.33	21.96	16.23	20.51	18.37	ppb
Selenium	78-2	5.40	1.20	4.36	3.65	59.81	ppb
Silicon	28-1	44.21	43.16	55.20	47.52	14.04	ppb
Silver	107-1	0.02	0.01	0.02	0.01	17.74	ppb
Silver	109-1	0.01	0.01	0.01	0.01	9.16	ppb
Sodium	23-2	0.69	1.98	0.79	1.15	61.97	ppb
Strontium	86-1	7.22	7.15	7.26	7.21	0.82	ppb
Strontium	88-1	7.27	7.24	7.40	7.30	1.12	ppb
Sulfur	34-1	-895.84	-949.00	-887.27	-910.70		ppb
Terbium	159-1				94		%
Terbium	159-2				92		%
Thallium	203-1	0.04	0.05	0.05	0.05	8.89	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	2.60	ppb
Tin	118-1	0.34	0.32	0.35	0.34	5.25	ppb
Titanium	47-1	184.40	182.81	185.54	184.25	0.74	ppb
Uranium	238-1	0.35	0.34	0.34	0.34	0.84	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	31.20	31.07	31.95	31.41	1.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				91		%
Zinc	66-2	45.46	45.42	45.74	45.54	0.39	ppb
Zirconium	90-1	0.41	0.39	0.39	0.40	2.81	ppb
Zirconium	91-1	0.43	0.41	0.46	0.43	4.99	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	35297.10	41880.20	35197.94	37458.41	10.22	ppb
Antimony	121-1	19.20	18.72	19.08	19.00	1.33	ppb
Arsenic	75-2	38.92	44.30	36.11	39.78	10.46	ppb
Barium	135-1	850.41	850.09	857.45	852.65	0.49	ppb
Barium	137-1	855.13	851.08	846.83	851.01	0.49	ppb
Beryllium	9-1	10.81	10.95	11.25	11.00	2.05	ppb
Bismuth	209-1				94		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	9.73	9.39	9.75	9.62	2.09	ppb
Cadmium	106-1	8.85	8.07	9.25	8.72	6.84	ppb
Cadmium	111-1	10.08	10.13	10.20	10.14	0.62	ppb
Calcium	43-1	5087.93	5091.05	5276.12	5151.70	2.09	ppb
Calcium	44-1	5042.68	5085.33	5206.46	5111.49	1.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	105.72	125.69	104.74	112.05	10.55	ppb
Cobalt	59-2	142.89	170.42	141.67	151.66	10.72	ppb
Copper	63-2	168.11	198.69	165.57	177.46	10.39	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				101		%
Holmium	165-2				90		%
Indium	115-1				98		%
Indium	115-2				84		%
Iron	54-2	111404.42	131370.51	109640.56	117471.83	10.27	ppb
Iron	56-2	111387.31	130815.22	107547.94	116583.49	10.70	ppb
Iron	57-2	110365.53	129367.21	108386.38	116039.71	9.98	ppb
Krypton	83-1						cps
Lead	206-1	26.65	27.58	28.48	27.57	3.32	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.66	26.21	26.98	26.29	2.52	ppb
Lead	208-1	26.20	26.74	27.63	26.86	2.67	ppb
Lithium	6-1				90		%
Magnesium	24-2	19683.06	22955.96	19005.79	20548.27	10.28	ppb
Manganese	55-2	4307.62	5031.04	4202.18	4513.62	10.00	ppb
Molybdenum	94-1	66.35	67.56	67.95	67.29	1.24	ppb
Molybdenum	95-1	76.88	78.35	78.90	78.04	1.33	ppb
Molybdenum	96-1	75.93	76.80	77.49	76.74	1.02	ppb
Molybdenum	97-1	76.79	78.61	80.00	78.47	2.05	ppb
Molybdenum	98-1	76.38	77.39	78.73	77.50	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	222.17	264.35	222.12	236.21	10.32	ppb
Phosphorus	31-2	1261.01	1539.78	1317.50	1372.76	10.74	ppb
Potassium	39-2	3787.32	4476.17	3723.36	3995.62	10.45	ppb
Rhodium	103-1				96		%
Rhodium	103-2				87		%
Scandium	45-1				108		%
Scandium	45-2				97		%
Selenium	82-1	17.24	18.52	18.29	18.01	3.80	ppb
Selenium	77-2	132.69	150.33	118.66	133.89	11.85	ppb
Selenium	78-2	36.89	44.16	34.22	38.42	13.39	ppb
Silicon	28-1	416.03	404.73	451.16	423.97	5.71	ppb
Silver	107-1	9.76	9.64	9.82	9.74	0.95	ppb
Silver	109-1	9.78	9.60	9.93	9.77	1.69	ppb
Sodium	23-2	76.81	99.20	76.83	84.28	15.33	ppb
Strontium	86-1	1596.76	1591.05	1650.47	1612.76	2.03	ppb
Strontium	88-1	1607.72	1613.56	1637.16	1619.48	0.96	ppb
Sulfur	34-1	-1463.90	-1499.62	-1321.96	-1428.49		ppb
Terbium	159-1				99		%
Terbium	159-2				89		%
Thallium	203-1	9.36	9.52	9.76	9.55	2.13	ppb
Thallium	205-1	9.26	9.61	9.87	9.58	3.18	ppb
Tin	118-1	1.83	1.81	1.83	1.82	0.60	ppb
Titanium	47-1	927.81	906.50	927.51	920.61	1.33	ppb
Uranium	238-1	1.69	1.75	1.78	1.74	2.62	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	235.34	276.24	231.01	247.53	10.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				105		%
Zinc	66-2	314.74	370.31	304.79	329.95	10.70	ppb
Zirconium	90-1	1.51	1.55	1.56	1.54	1.87	ppb
Zirconium	91-1	1.54	1.80	1.59	1.64	8.50	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32568.97	34661.45	33026.20	33418.87	3.29	ppb
Antimony	121-1	0.78	0.77	0.79	0.78	1.75	ppb
Arsenic	75-2	20.55	23.11	22.52	22.06	6.07	ppb
Barium	135-1	179.08	182.01	191.49	184.19	3.52	ppb
Barium	137-1	181.20	183.75	192.06	185.67	3.06	ppb
Beryllium	9-1	1.03	1.04	1.12	1.06	4.82	ppb
Bismuth	209-1				95		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.90	0.97	1.28	1.05	19.64	ppb
Cadmium	106-1	-0.25	-0.90	0.86	-0.10		ppb
Cadmium	111-1	0.49	0.52	0.46	0.49	5.74	ppb
Calcium	43-1	6026.60	6071.42	6182.88	6093.63	1.32	ppb
Calcium	44-1	6222.39	6235.25	6393.58	6283.74	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42.46	44.24	42.49	43.06	2.37	ppb
Cobalt	59-2	44.49	46.78	45.20	45.49	2.58	ppb
Copper	63-2	123.08	132.45	126.49	127.34	3.72	ppb
Dysprosium	156-1						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				98		%
Indium	115-2				89		%
Iron	54-2	97006.66	100734.28	97657.09	98466.01	2.02	ppb
Iron	56-2	97705.26	101932.20	99742.54	99793.33	2.12	ppb
Iron	57-2	96578.21	100479.86	97903.15	98320.41	2.02	ppb
Krypton	83-1						cps
Lead	206-1	25.70	25.71	26.61	26.00	2.01	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.23	24.18	24.96	24.46	1.78	ppb
Lead	208-1	24.70	24.82	25.85	25.12	2.51	ppb
Lithium	6-1				89		%
Magnesium	24-2	19564.20	20723.78	19926.18	20071.39	2.96	ppb
Manganese	55-2	1425.88	1478.15	1449.30	1451.11	1.80	ppb
Molybdenum	94-1	8.89	8.75	9.22	8.95	2.70	ppb
Molybdenum	95-1	4.48	4.65	4.75	4.63	2.96	ppb
Molybdenum	96-1	5.36	5.39	5.43	5.40	0.66	ppb
Molybdenum	97-1	4.80	4.72	4.86	4.79	1.49	ppb
Molybdenum	98-1	4.64	4.68	4.82	4.71	1.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	72.43	75.34	75.06	74.28	2.16	ppb
Phosphorus	31-2	1090.78	1130.57	1035.30	1085.55	4.41	ppb
Potassium	39-2	1627.60	1708.53	1662.08	1666.07	2.44	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	1.75	0.87	0.57	1.06	57.60	ppb
Selenium	77-2	41.00	61.21	53.25	51.82	19.64	ppb
Selenium	78-2	6.43	7.56	7.99	7.33	11.01	ppb
Silicon	28-1	251.63	237.23	260.69	249.85	4.74	ppb
Silver	107-1	0.18	0.15	0.14	0.16	12.69	ppb
Silver	109-1	0.15	0.15	0.16	0.15	3.29	ppb
Sodium	23-2	67.75	73.05	72.90	71.23	4.24	ppb
Strontium	86-1	39.61	39.55	40.78	39.98	1.73	ppb
Strontium	88-1	42.55	42.15	43.80	42.84	2.01	ppb
Sulfur	34-1	-1110.64	-1121.58	-1025.82	-1086.01		ppb
Terbium	159-1				99		%
Terbium	159-2				93		%
Thallium	203-1	0.08	0.08	0.08	0.08	0.42	ppb
Thallium	205-1	0.07	0.08	0.08	0.08	5.10	ppb
Tin	118-1	1.15	1.20	1.25	1.20	4.30	ppb
Titanium	47-1	1295.79	1305.98	1341.10	1314.29	1.81	ppb
Uranium	238-1	1.08	1.08	1.11	1.09	1.29	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	88.71	93.48	91.14	91.11	2.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				102		%
Zinc	66-2	190.36	199.68	190.97	193.67	2.69	ppb
Zirconium	90-1	2.69	2.73	2.86	2.76	3.07	ppb
Zirconium	91-1	2.72	2.89	3.24	2.95	9.01	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	34163.33	34276.87	33393.45	33944.55	1.42	ppb
Antimony	121-1	0.71	0.74	0.70	0.72	3.43	ppb
Arsenic	75-2	18.50	19.14	18.99	18.88	1.77	ppb
Barium	135-1	190.31	191.06	191.80	191.06	0.39	ppb
Barium	137-1	191.61	193.31	194.58	193.17	0.77	ppb
Beryllium	9-1	1.03	1.05	1.04	1.04	0.88	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.89	1.13	1.05	1.03	12.04	ppb
Cadmium	106-1	0.16	0.53	-0.07	0.21	145.96	ppb
Cadmium	111-1	0.56	0.56	0.57	0.56	1.15	ppb
Calcium	43-1	6387.04	6387.95	6415.85	6396.95	0.26	ppb
Calcium	44-1	6720.03	6608.83	6613.43	6647.43	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42.33	42.64	41.58	42.18	1.30	ppb
Cobalt	59-2	34.08	33.86	33.19	33.71	1.37	ppb
Copper	63-2	127.57	127.12	124.82	126.51	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				101		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	97930.95	98524.56	96951.58	97802.36	0.81	ppb
Iron	56-2	98736.63	97589.73	96705.34	97677.23	1.04	ppb
Iron	57-2	98515.77	98395.29	96152.99	97688.02	1.36	ppb
Krypton	83-1						cps
Lead	206-1	26.58	26.45	26.63	26.55	0.35	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.33	25.32	25.10	25.25	0.52	ppb
Lead	208-1	25.93	25.85	25.78	25.85	0.30	ppb
Lithium	6-1				89		%
Magnesium	24-2	20526.64	20755.12	20738.99	20673.59	0.62	ppb
Manganese	55-2	1283.69	1281.60	1258.38	1274.56	1.10	ppb
Molybdenum	94-1	9.83	10.00	9.66	9.83	1.71	ppb
Molybdenum	95-1	4.99	5.03	4.89	4.97	1.46	ppb
Molybdenum	96-1	5.72	5.85	5.79	5.79	1.16	ppb
Molybdenum	97-1	5.04	4.96	5.05	5.02	0.98	ppb
Molybdenum	98-1	4.80	4.96	4.88	4.88	1.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	73.23	73.33	72.68	73.08	0.48	ppb
Phosphorus	31-2	1084.64	1073.05	1049.57	1069.09	1.67	ppb
Potassium	39-2	1771.15	1784.36	1762.63	1772.71	0.62	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				105		%
Scandium	45-2				100		%
Selenium	82-1	1.19	1.31	1.16	1.22	6.68	ppb
Selenium	77-2	48.05	54.02	65.38	55.82	15.78	ppb
Selenium	78-2	7.91	11.40	15.30	11.54	32.08	ppb
Silicon	28-1	259.03	283.76	269.28	270.69	4.59	ppb
Silver	107-1	0.09	0.10	0.09	0.09	6.34	ppb
Silver	109-1	0.07	0.08	0.09	0.08	7.14	ppb
Sodium	23-2	76.00	74.91	74.07	74.99	1.29	ppb
Strontium	86-1	42.51	43.04	43.05	42.86	0.72	ppb
Strontium	88-1	45.13	45.71	45.55	45.46	0.66	ppb
Sulfur	34-1	-1106.77	-1114.92	-1089.92	-1103.87		ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.08	0.09	0.08	0.08	10.83	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	2.61	ppb
Tin	118-1	1.19	1.21	1.16	1.19	2.06	ppb
Titanium	47-1	1639.59	1645.44	1652.66	1645.90	0.40	ppb
Uranium	238-1	0.94	0.96	0.96	0.95	0.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	85.75	85.27	84.97	85.33	0.46	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	194.28	196.39	193.58	194.75	0.75	ppb
Zirconium	90-1	3.14	3.20	3.15	3.16	1.06	ppb
Zirconium	91-1	3.09	3.15	3.16	3.13	1.20	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	27581.15	27056.81	31294.90	28644.28	8.07	ppb
Antimony	121-1	1.06	0.98	1.16	1.07	8.46	ppb
Arsenic	75-2	23.38	22.24	27.33	24.31	10.98	ppb
Barium	135-1	149.68	145.45	173.46	156.20	9.67	ppb
Barium	137-1	150.88	148.29	175.85	158.34	9.61	ppb
Beryllium	9-1	0.82	0.83	0.92	0.86	6.32	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.71	1.55	2.12	1.80	16.41	ppb
Cadmium	106-1	1.14	-0.02	0.67	0.60	96.93	ppb
Cadmium	111-1	1.22	1.21	1.38	1.27	7.84	ppb
Calcium	43-1	16209.26	16223.11	19042.42	17158.27	9.51	ppb
Calcium	44-1	16824.12	16627.92	19668.37	17706.80	9.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	91.52	89.76	103.63	94.97	7.95	ppb
Cobalt	59-2	35.16	34.60	40.47	36.74	8.82	ppb
Copper	63-2	112.32	111.43	129.01	117.59	8.42	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				94		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	66616.52	65444.80	76790.39	69617.24	8.96	ppb
Iron	56-2	67257.59	65493.90	75763.62	69505.04	7.90	ppb
Iron	57-2	67087.42	65233.69	76922.84	69747.98	9.01	ppb
Krypton	83-1						cps
Lead	206-1	22.41	22.11	25.71	23.41	8.54	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.90	20.96	24.49	22.12	9.30	ppb
Lead	208-1	21.53	21.41	25.06	22.67	9.14	ppb
Lithium	6-1				86		%
Magnesium	24-2	19194.66	18640.88	21656.87	19830.80	8.10	ppb
Manganese	55-2	1493.78	1483.28	1711.58	1562.88	8.25	ppb
Molybdenum	94-1	6.32	6.18	7.24	6.58	8.73	ppb
Molybdenum	95-1	2.11	2.06	2.42	2.20	8.67	ppb
Molybdenum	96-1	2.78	2.71	3.17	2.89	8.66	ppb
Molybdenum	97-1	2.03	2.06	2.42	2.17	9.95	ppb
Molybdenum	98-1	2.02	2.06	2.32	2.14	7.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	165.02	164.88	190.35	173.42	8.46	ppb
Phosphorus	31-2	1140.14	1127.92	1326.17	1198.08	9.27	ppb
Potassium	39-2	490.82	480.02	565.57	512.14	9.10	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	1.05	1.36	1.51	1.31	18.11	ppb
Selenium	77-2	59.36	59.67	68.73	62.59	8.51	ppb
Selenium	78-2	6.62	6.13	7.54	6.77	10.52	ppb
Silicon	28-1	215.06	204.65	254.57	224.76	11.72	ppb
Silver	107-1	0.67	0.65	0.79	0.70	10.75	ppb
Silver	109-1	0.63	0.65	0.77	0.69	11.15	ppb
Sodium	23-2	62.62	64.49	80.10	69.07	13.90	ppb
Strontium	86-1	50.85	51.93	59.18	53.99	8.39	ppb
Strontium	88-1	55.10	55.06	62.78	57.65	7.71	ppb
Sulfur	34-1	-855.42	-872.69	57.37	-556.91		ppb
Terbium	159-1				96		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.11	0.13	0.11	9.30	ppb
Thallium	205-1	0.11	0.11	0.14	0.12	14.74	ppb
Tin	118-1	0.66	0.64	0.74	0.68	7.22	ppb
Titanium	47-1	351.58	351.68	411.72	371.66	9.33	ppb
Uranium	238-1	0.77	0.78	0.90	0.82	8.66	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	80.53	79.40	92.20	84.04	8.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	180.35	179.12	206.65	188.71	8.24	ppb
Zirconium	90-1	2.47	2.46	2.87	2.60	9.05	ppb
Zirconium	91-1	2.39	2.51	2.88	2.59	9.78	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19768.40	19599.84	19767.76	19712.00	0.49	ppb
Antimony	121-1	1.06	1.10	1.05	1.07	2.48	ppb
Arsenic	75-2	23.24	22.51	22.81	22.85	1.60	ppb
Barium	135-1	333.07	349.47	345.03	342.52	2.48	ppb
Barium	137-1	358.67	364.48	366.27	363.14	1.09	ppb
Beryllium	9-1	0.98	0.98	1.01	0.99	1.91	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.35	0.52	0.57	0.48	23.63	ppb
Cadmium	106-1	-0.68	-0.72	-0.62	-0.68		ppb
Cadmium	111-1	0.21	0.20	0.22	0.21	5.20	ppb
Calcium	43-1	6256.36	6414.91	6327.38	6332.89	1.25	ppb
Calcium	44-1	6597.42	6519.06	6522.85	6546.45	0.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	54.78	53.94	54.34	54.35	0.77	ppb
Cobalt	59-2	35.84	35.85	36.44	36.04	0.95	ppb
Copper	63-2	95.54	93.59	96.10	95.08	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				102		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	79074.15	78456.51	79640.14	79056.93	0.75	ppb
Iron	56-2	79395.94	78336.82	79880.21	79204.32	1.00	ppb
Iron	57-2	79599.98	79362.68	80723.60	79895.42	0.91	ppb
Krypton	83-1						cps
Lead	206-1	20.98	21.40	21.76	21.38	1.82	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.05	20.14	20.55	20.25	1.33	ppb
Lead	208-1	20.34	20.70	21.00	20.68	1.60	ppb
Lithium	6-1				90		%
Magnesium	24-2	8741.03	8445.44	8673.78	8620.08	1.80	ppb
Manganese	55-2	2023.15	2023.28	2068.81	2038.41	1.29	ppb
Molybdenum	94-1	3.05	3.27	3.04	3.12	4.22	ppb
Molybdenum	95-1	2.47	2.49	2.47	2.48	0.58	ppb
Molybdenum	96-1	2.75	2.77	2.79	2.77	0.73	ppb
Molybdenum	97-1	2.52	2.49	2.46	2.49	1.19	ppb
Molybdenum	98-1	2.38	2.45	2.45	2.42	1.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.22	50.85	51.86	51.64	1.37	ppb
Phosphorus	31-2	2772.55	2954.06	2906.00	2877.54	3.27	ppb
Potassium	39-2	3889.00	3846.03	3892.88	3875.97	0.67	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				105		%
Scandium	45-2				98		%
Selenium	82-1	0.72	0.85	1.52	1.03	41.62	ppb
Selenium	77-2	57.13	72.03	54.56	61.24	15.40	ppb
Selenium	78-2	11.05	7.94	12.99	10.66	23.92	ppb
Silicon	28-1	212.70	215.26	211.77	213.25	0.85	ppb
Silver	107-1	0.14	0.15	0.16	0.15	5.88	ppb
Silver	109-1	0.14	0.14	0.13	0.14	3.64	ppb
Sodium	23-2	64.93	65.12	65.68	65.24	0.60	ppb
Strontium	86-1	53.64	54.30	53.57	53.83	0.75	ppb
Strontium	88-1	57.24	58.02	57.68	57.64	0.68	ppb
Sulfur	34-1	-912.95	-867.24	-958.34	-912.84		ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.15	0.14	0.16	0.15	4.35	ppb
Thallium	205-1	0.15	0.15	0.16	0.15	3.38	ppb
Tin	118-1	1.29	1.36	1.40	1.35	3.98	ppb
Titanium	47-1	745.66	753.59	728.81	742.68	1.70	ppb
Uranium	238-1	1.19	1.25	1.23	1.23	2.21	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	127.49	126.51	128.71	127.57	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				108		%
Zinc	66-2	130.84	129.74	130.83	130.47	0.49	ppb
Zirconium	90-1	0.54	0.55	0.55	0.54	1.19	ppb
Zirconium	91-1	0.57	0.59	0.58	0.58	1.77	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30522.96	30154.28	31152.26	30609.83	1.65	ppb
Antimony	121-1	0.75	0.77	0.75	0.76	1.16	ppb
Arsenic	75-2	26.93	28.52	26.82	27.42	3.47	ppb
Barium	135-1	144.77	145.59	143.84	144.73	0.61	ppb
Barium	137-1	145.07	148.00	146.49	146.52	1.00	ppb
Beryllium	9-1	0.71	0.70	0.72	0.71	1.37	ppb
Bismuth	209-1				95		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.07	1.04	0.87	1.00	10.66	ppb
Cadmium	106-1	-1.03	-1.62	0.21	-0.81		ppb
Cadmium	111-1	0.62	0.65	0.66	0.64	3.43	ppb
Calcium	43-1	5651.02	5642.49	5659.48	5651.00	0.15	ppb
Calcium	44-1	5833.55	5851.98	5826.93	5837.49	0.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53.29	53.03	54.43	53.58	1.40	ppb
Cobalt	59-2	57.21	55.98	56.46	56.55	1.09	ppb
Copper	63-2	119.13	118.23	119.49	118.95	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				100		%
Holmium	165-2				95		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	80605.59	79712.30	80610.99	80309.62	0.64	ppb
Iron	56-2	80906.55	79370.88	80684.26	80320.56	1.03	ppb
Iron	57-2	81058.54	78985.56	81540.58	80528.23	1.69	ppb
Krypton	83-1						cps
Lead	206-1	17.36	17.36	17.30	17.34	0.17	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	16.32	16.65	16.44	16.47	1.04	ppb
Lead	208-1	16.59	16.97	16.87	16.81	1.16	ppb
Lithium	6-1				90		%
Magnesium	24-2	19601.67	19546.07	19890.21	19679.31	0.94	ppb
Manganese	55-2	1069.61	1057.05	1072.38	1066.35	0.77	ppb
Molybdenum	94-1	5.46	5.46	5.51	5.48	0.47	ppb
Molybdenum	95-1	2.52	2.47	2.45	2.48	1.53	ppb
Molybdenum	96-1	3.04	3.08	3.05	3.06	0.69	ppb
Molybdenum	97-1	2.49	2.56	2.55	2.53	1.57	ppb
Molybdenum	98-1	2.50	2.47	2.50	2.49	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	115.79	114.74	115.45	115.33	0.47	ppb
Phosphorus	31-2	1429.20	1469.60	1569.35	1489.38	4.84	ppb
Potassium	39-2	2292.39	2250.81	2292.11	2278.44	1.05	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				95		%
Selenium	82-1	1.33	0.99	1.37	1.23	16.84	ppb
Selenium	77-2	28.77	17.72	33.40	26.63	30.26	ppb
Selenium	78-2	6.73	5.46	6.10	6.09	10.39	ppb
Silicon	28-1	402.88	407.62	412.79	407.76	1.22	ppb
Silver	107-1	0.26	0.26	0.26	0.26	0.04	ppb
Silver	109-1	0.26	0.26	0.26	0.26	0.49	ppb
Sodium	23-2	152.12	154.13	156.98	154.41	1.58	ppb
Strontium	86-1	23.48	23.53	23.26	23.42	0.60	ppb
Strontium	88-1	23.45	23.74	23.57	23.59	0.63	ppb
Sulfur	34-1	1463.16	1512.34	1481.37	1485.62	1.67	ppb
Terbium	159-1				100		%
Terbium	159-2				94		%
Thallium	203-1	0.10	0.10	0.09	0.10	7.69	ppb
Thallium	205-1	0.10	0.10	0.10	0.10	0.71	ppb
Tin	118-1	0.80	0.93	0.81	0.85	8.46	ppb
Titanium	47-1	719.13	723.09	715.70	719.31	0.51	ppb
Uranium	238-1	0.48	0.49	0.49	0.48	1.63	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	68.84	69.01	69.17	69.00	0.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				96		%
Zinc	66-2	176.58	178.24	178.24	177.69	0.54	ppb
Zirconium	90-1	1.88	1.86	1.85	1.87	0.83	ppb
Zirconium	91-1	1.92	2.07	1.93	1.97	4.16	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16913.60	16818.19	16644.84	16792.21	0.81	ppb
Antimony	121-1	3.06	3.02	3.07	3.05	0.84	ppb
Arsenic	75-2	362.96	360.15	362.53	361.88	0.42	ppb
Barium	135-1	310.11	317.48	316.34	314.64	1.26	ppb
Barium	137-1	333.63	340.16	337.87	337.22	0.98	ppb
Beryllium	9-1	1.03	1.00	1.04	1.02	2.09	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.44	1.13	1.23	1.27	12.47	ppb
Cadmium	106-1	-0.76	-0.27	-0.54	-0.52		ppb
Cadmium	111-1	1.07	1.08	1.15	1.10	4.03	ppb
Calcium	43-1	7347.97	7557.69	7361.74	7422.47	1.58	ppb
Calcium	44-1	7728.79	7853.20	7523.32	7701.77	2.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	62.38	61.56	61.28	61.74	0.92	ppb
Cobalt	59-2	39.06	38.58	38.70	38.78	0.65	ppb
Copper	63-2	229.51	227.58	226.32	227.80	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				99		%
Holmium	165-2				93		%
Indium	115-1				99		%
Indium	115-2				89		%
Iron	54-2	87122.86	86000.44	86738.83	86620.71	0.66	ppb
Iron	56-2	88449.97	87280.69	86239.88	87323.51	1.27	ppb
Iron	57-2	88569.43	85980.22	86850.44	87133.36	1.51	ppb
Krypton	83-1						cps
Lead	206-1	274.68	276.51	279.27	276.82	0.83	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	265.11	271.99	272.26	269.79	1.50	ppb
Lead	208-1	268.74	272.84	271.11	270.90	0.76	ppb
Lithium	6-1				89		%
Magnesium	24-2	9704.04	9499.99	9539.60	9581.21	1.13	ppb
Manganese	55-2	2338.09	2388.77	2334.91	2353.93	1.28	ppb
Molybdenum	94-1	4.72	4.82	4.76	4.77	1.07	ppb
Molybdenum	95-1	3.62	3.65	3.65	3.64	0.46	ppb
Molybdenum	96-1	4.00	4.02	3.96	3.99	0.75	ppb
Molybdenum	97-1	3.69	3.74	3.63	3.69	1.47	ppb
Molybdenum	98-1	3.58	3.68	3.57	3.61	1.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	79.65	79.32	78.52	79.16	0.74	ppb
Phosphorus	31-2	1289.96	1353.22	1335.82	1326.33	2.46	ppb
Potassium	39-2	2813.71	2794.66	2827.14	2811.84	0.58	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				92		%
Selenium	82-1	1.29	1.07	0.81	1.06	22.58	ppb
Selenium	77-2	25.96	33.68	29.07	29.57	13.13	ppb
Selenium	78-2	6.21	8.16	8.47	7.61	16.07	ppb
Silicon	28-1	282.19	278.18	263.95	274.77	3.49	ppb
Silver	107-1	0.86	0.89	0.86	0.87	2.42	ppb
Silver	109-1	0.87	0.86	0.89	0.87	1.69	ppb
Sodium	23-2	118.80	118.62	121.01	119.48	1.11	ppb
Strontium	86-1	66.48	67.44	66.34	66.75	0.90	ppb
Strontium	88-1	71.50	72.10	72.19	71.93	0.52	ppb
Sulfur	34-1	-64.34	87.73	-45.40	-7.33		ppb
Terbium	159-1				100		%
Terbium	159-2				94		%
Thallium	203-1	0.13	0.14	0.15	0.14	5.45	ppb
Thallium	205-1	0.14	0.14	0.14	0.14	2.22	ppb
Tin	118-1	23.63	23.98	23.68	23.76	0.80	ppb
Titanium	47-1	129.37	129.36	125.22	127.99	1.87	ppb
Uranium	238-1	0.83	0.85	0.86	0.85	1.90	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	103.32	102.33	102.70	102.78	0.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				95		%
Zinc	66-2	341.06	334.45	330.28	335.26	1.62	ppb
Zirconium	90-1	0.90	0.93	0.91	0.91	1.40	ppb
Zirconium	91-1	1.07	1.08	1.12	1.09	2.60	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23606.60	23834.04	23724.92	23721.86	0.48	ppb
Antimony	121-1	2.41	2.41	2.51	2.44	2.31	ppb
Arsenic	75-2	135.81	136.04	132.80	134.89	1.34	ppb
Barium	135-1	427.78	433.88	444.49	435.38	1.94	ppb
Barium	137-1	462.16	467.73	473.02	467.64	1.16	ppb
Beryllium	9-1	1.48	1.48	1.49	1.48	0.53	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.50	0.76	0.64	0.63	20.75	ppb
Cadmium	106-1	-0.53	-0.78	-0.05	-0.45		ppb
Cadmium	111-1	0.31	0.28	0.29	0.29	6.29	ppb
Calcium	43-1	5817.92	5933.23	6053.12	5934.75	1.98	ppb
Calcium	44-1	6004.82	6100.26	6222.52	6109.20	1.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	74.01	72.91	73.46	73.46	0.74	ppb
Cobalt	59-2	63.82	63.62	64.01	63.82	0.31	ppb
Copper	63-2	128.31	127.64	129.85	128.60	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				94		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	112627.87	112469.73	113268.54	112788.71	0.38	ppb
Iron	56-2	113604.05	113084.53	113894.81	113527.80	0.36	ppb
Iron	57-2	112353.28	112446.51	111407.15	112068.98	0.51	ppb
Krypton	83-1						cps
Lead	206-1	25.25	25.50	25.57	25.44	0.66	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.59	24.12	24.45	24.05	1.82	ppb
Lead	208-1	24.31	24.63	24.80	24.58	1.01	ppb
Lithium	6-1				89		%
Magnesium	24-2	12067.59	11980.98	11971.92	12006.83	0.44	ppb
Manganese	55-2	3569.71	3512.98	3568.76	3550.48	0.91	ppb
Molybdenum	94-1	7.22	7.17	7.46	7.28	2.16	ppb
Molybdenum	95-1	6.09	6.27	6.37	6.24	2.26	ppb
Molybdenum	96-1	6.63	6.73	6.88	6.75	1.87	ppb
Molybdenum	97-1	6.17	6.43	6.43	6.34	2.38	ppb
Molybdenum	98-1	6.10	6.28	6.26	6.21	1.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	109.25	108.29	108.94	108.83	0.45	ppb
Phosphorus	31-2	1118.89	1039.08	980.95	1046.31	6.62	ppb
Potassium	39-2	797.21	786.42	792.73	792.12	0.68	ppb
Rhodium	103-1				98		%
Rhodium	103-2				94		%
Scandium	45-1				102		%
Scandium	45-2				94		%
Selenium	82-1	1.22	1.09	0.86	1.06	17.56	ppb
Selenium	77-2	38.23	42.52	32.01	37.59	14.05	ppb
Selenium	78-2	7.49	9.10	4.73	7.11	31.12	ppb
Silicon	28-1	192.53	196.72	201.92	197.06	2.39	ppb
Silver	107-1	0.28	0.28	0.27	0.28	0.86	ppb
Silver	109-1	0.27	0.27	0.29	0.28	3.29	ppb
Sodium	23-2	234.17	231.83	239.31	235.11	1.63	ppb
Strontium	86-1	66.84	68.42	69.54	68.27	1.99	ppb
Strontium	88-1	71.08	72.23	73.90	72.40	1.96	ppb
Sulfur	34-1	-730.03	-584.16	-446.05	-586.75		ppb
Terbium	159-1				100		%
Terbium	159-2				93		%
Thallium	203-1	0.15	0.15	0.15	0.15	2.95	ppb
Thallium	205-1	0.15	0.15	0.15	0.15	1.74	ppb
Tin	118-1	0.51	0.56	0.55	0.54	4.12	ppb
Titanium	47-1	77.42	79.38	81.42	79.41	2.52	ppb
Uranium	238-1	1.11	1.10	1.11	1.11	0.70	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	127.43	126.92	127.34	127.23	0.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				95		%
Zinc	66-2	153.14	148.97	153.20	151.77	1.60	ppb
Zirconium	90-1	1.12	1.14	1.17	1.14	2.47	ppb
Zirconium	91-1	1.22	1.17	1.24	1.21	3.02	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	46388.92	49004.66	49440.58	48278.06	3.42	ppb
Antimony	121-1	503.69	500.18	497.88	500.58	0.58	ppb
Arsenic	75-2	480.96	489.76	498.62	489.78	1.80	ppb
Barium	135-1	2503.29	2492.69	2440.68	2478.89	1.35	ppb
Barium	137-1	2504.95	2467.31	2431.05	2467.77	1.50	ppb
Beryllium	9-1	503.55	492.88	501.41	499.28	1.13	ppb
Bismuth	209-1				77		%
Bismuth	209-2				77		%
Bromine	81-1						cps
Cadmium	108-1	481.32	484.39	470.34	478.69	1.54	ppb
Cadmium	106-1	481.71	478.65	472.33	477.56	1.00	ppb
Cadmium	111-1	455.72	452.88	450.02	452.87	0.63	ppb
Calcium	43-1	245247.22	250223.70	244597.93	246689.62	1.25	ppb
Calcium	44-1	249109.11	247290.20	245669.65	247356.32	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	456.05	476.86	477.37	470.10	2.59	ppb
Cobalt	59-2	479.89	504.37	499.05	494.44	2.60	ppb
Copper	63-2	4691.53	4856.27	4898.46	4815.42	2.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				86		%
Holmium	165-2				86		%
Indium	115-1				80		%
Indium	115-2				77		%
Iron	54-2	121154.79	126585.94	126644.52	124795.08	2.53	ppb
Iron	56-2	120443.70	125700.49	126522.42	124222.20	2.65	ppb
Iron	57-2	120556.66	124627.02	124311.33	123165.00	1.84	ppb
Krypton	83-1						cps
Lead	206-1	2507.40	2553.91	2551.75	2537.69	1.03	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2517.00	2560.42	2538.25	2538.56	0.86	ppb
Lead	208-1	2517.97	2548.89	2541.98	2536.28	0.64	ppb
Lithium	6-1				79		%
Magnesium	24-2	237140.13	246358.14	247755.13	243751.13	2.37	ppb
Manganese	55-2	4812.54	5074.29	5047.77	4978.20	2.89	ppb
Molybdenum	94-1	5048.82	5111.52	5031.93	5064.09	0.83	ppb
Molybdenum	95-1	4976.77	5065.05	5084.70	5042.17	1.14	ppb
Molybdenum	96-1	5028.12	5080.91	5086.71	5065.25	0.64	ppb
Molybdenum	97-1	4984.53	5078.34	5109.27	5057.38	1.28	ppb
Molybdenum	98-1	5022.77	5084.84	5035.83	5047.81	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	464.20	486.41	490.24	480.28	2.93	ppb
Phosphorus	31-2	9372.10	9668.92	9678.48	9573.17	1.82	ppb
Potassium	39-2	115457.56	120713.85	121666.80	119279.40	2.80	ppb
Rhodium	103-1				76		%
Rhodium	103-2				77		%
Scandium	45-1				83		%
Scandium	45-2				81		%
Selenium	82-1	480.43	479.54	482.43	480.80	0.31	ppb
Selenium	77-2	472.95	461.33	520.22	484.84	6.43	ppb
Selenium	78-2	455.59	495.62	464.24	471.82	4.46	ppb
Silicon	28-1	765.09	749.65	745.57	753.44	1.37	ppb
Silver	107-1	474.88	469.80	469.09	471.25	0.67	ppb
Silver	109-1	471.92	485.12	473.05	476.70	1.54	ppb
Sodium	23-2	233468.85	248200.15	246790.85	242819.95	3.35	ppb
Strontium	86-1	507.27	509.37	503.98	506.87	0.54	ppb
Strontium	88-1	504.52	500.44	509.74	504.90	0.92	ppb
Sulfur	34-1	12166.56	12267.17	11851.06	12094.93	1.80	ppb
Terbium	159-1				86		%
Terbium	159-2				86		%
Thallium	203-1	510.47	523.82	519.85	518.05	1.32	ppb
Thallium	205-1	502.75	514.95	506.41	508.03	1.23	ppb
Tin	118-1	499.18	489.16	498.19	495.51	1.11	ppb
Titanium	47-1	5016.09	5112.05	5030.36	5052.83	1.02	ppb
Uranium	238-1	509.06	511.34	514.69	511.70	0.55	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	466.23	486.03	486.88	479.71	2.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				85		%
Yttrium	89-2				82		%
Zinc	66-2	4433.68	4642.63	4637.41	4571.24	2.61	ppb
Zirconium	90-1	499.58	511.60	509.42	506.87	1.26	ppb
Zirconium	91-1	510.49	524.38	516.35	517.07	1.35	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.47	0.97	0.83	0.76	34.25	ppb
Antimony	121-1	0.11	0.09	0.10	0.10	9.33	ppb
Arsenic	75-2	0.08	0.04	0.04	0.05	44.93	ppb
Barium	135-1	0.19	0.19	0.19	0.19	1.14	ppb
Barium	137-1	0.18	0.17	0.19	0.18	4.89	ppb
Beryllium	9-1	0.13	0.12	0.11	0.12	7.73	ppb
Bismuth	209-1				89		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.01	0.06	0.06	85.02	ppb
Cadmium	106-1	-2.59	-2.88	-2.13	-2.53		ppb
Cadmium	111-1	-0.02	-0.04	-0.02	-0.02		ppb
Calcium	43-1	6.78	5.31	3.71	5.27	29.15	ppb
Calcium	44-1	3.53	1.05	0.97	1.85	78.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.03	0.01	0.03	75.83	ppb
Cobalt	59-2	0.04	0.03	0.04	0.04	11.31	ppb
Copper	63-2	0.10	0.00	0.03	0.05	109.94	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				88		%
Holmium	165-2				86		%
Indium	115-1				89		%
Indium	115-2				82		%
Iron	54-2	4.66	4.84	5.65	5.05	10.40	ppb
Iron	56-2	4.99	5.01	4.88	4.96	1.40	ppb
Iron	57-2	5.35	4.17	3.14	4.22	26.29	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.14	0.12	0.14	16.72	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.13	0.13	0.15	17.99	ppb
Lead	208-1	0.17	0.13	0.12	0.14	15.40	ppb
Lithium	6-1				85		%
Magnesium	24-2	6.62	5.60	5.63	5.95	9.83	ppb
Manganese	55-2	0.43	0.41	0.44	0.42	3.92	ppb
Molybdenum	94-1	0.24	0.21	0.21	0.22	7.16	ppb
Molybdenum	95-1	0.22	0.19	0.16	0.19	16.41	ppb
Molybdenum	96-1	0.25	0.20	0.18	0.21	16.14	ppb
Molybdenum	97-1	0.23	0.20	0.15	0.19	21.38	ppb
Molybdenum	98-1	0.25	0.19	0.18	0.21	19.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	0.04	0.12	0.04	211.48	ppb
Phosphorus	31-2	-24.16	-33.21	-29.62	-29.00		ppb
Potassium	39-2	-1.76	-3.08	-5.46	-3.43		ppb
Rhodium	103-1				88		%
Rhodium	103-2				85		%
Scandium	45-1				86		%
Scandium	45-2				78		%
Selenium	82-1	0.17	0.15	0.11	0.14	22.06	ppb
Selenium	77-2	-0.36	-0.36	0.98	0.09	893.89	ppb
Selenium	78-2	-0.13	-0.14	0.27	0.00		ppb
Silicon	28-1	-1.12	-0.97	-0.97	-1.02		ppb
Silver	107-1	0.05	0.05	0.04	0.05	14.93	ppb
Silver	109-1	0.05	0.05	0.05	0.05	5.77	ppb
Sodium	23-2	4.11	5.72	2.81	4.21	34.55	ppb
Strontium	86-1	0.03	0.01	0.00	0.01	177.07	ppb
Strontium	88-1	0.01	0.00	0.00	0.01	68.48	ppb
Sulfur	34-1	-622.69	-492.59	-530.35	-548.54		ppb
Terbium	159-1				89		%
Terbium	159-2				86		%
Thallium	203-1	0.07	0.06	0.06	0.06	12.78	ppb
Thallium	205-1	0.08	0.06	0.06	0.07	10.90	ppb
Tin	118-1	0.06	0.04	0.03	0.04	39.88	ppb
Titanium	47-1	0.22	0.12	0.12	0.16	37.62	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	27.86	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.00	0.01	110.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				81		%
Zinc	66-2	0.31	0.31	0.07	0.23	59.86	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	11.28	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	11.32	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12672.46	12400.60	12405.69	12492.92	1.24	ppb
Antimony	121-1	1.47	1.43	1.43	1.44	1.59	ppb
Arsenic	75-2	67.80	66.71	66.91	67.14	0.87	ppb
Barium	135-1	63.59	61.14	63.69	62.81	2.30	ppb
Barium	137-1	64.06	62.00	63.23	63.10	1.64	ppb
Beryllium	9-1	0.50	0.49	0.49	0.49	1.81	ppb
Bismuth	209-1				90		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.54	0.37	0.48	0.46	19.06	ppb
Cadmium	106-1	-1.10	-2.43	-1.65	-1.72		ppb
Cadmium	111-1	0.03	0.00	0.03	0.02	76.75	ppb
Calcium	43-1	5785.54	5751.95	5843.53	5793.67	0.80	ppb
Calcium	44-1	6061.26	6014.02	5969.23	6014.84	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28.60	27.90	28.38	28.29	1.28	ppb
Cobalt	59-2	1.66	1.60	1.64	1.63	1.93	ppb
Copper	63-2	54.20	52.73	52.75	53.22	1.58	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				94		%
Holmium	165-2				92		%
Indium	115-1				93		%
Indium	115-2				87		%
Iron	54-2	45578.13	45112.92	45291.40	45327.48	0.52	ppb
Iron	56-2	46300.63	44699.02	44535.98	45178.54	2.16	ppb
Iron	57-2	46871.70	45560.52	45484.58	45972.27	1.70	ppb
Krypton	83-1						cps
Lead	206-1	9.78	10.04	10.30	10.04	2.60	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	9.18	9.46	9.51	9.38	1.87	ppb
Lead	208-1	9.51	9.57	9.88	9.65	2.02	ppb
Lithium	6-1				87		%
Magnesium	24-2	8669.71	8554.70	8475.44	8566.62	1.14	ppb
Manganese	55-2	189.90	187.76	186.56	188.07	0.90	ppb
Molybdenum	94-1	4.34	4.38	4.31	4.34	0.81	ppb
Molybdenum	95-1	3.10	3.20	3.17	3.16	1.67	ppb
Molybdenum	96-1	3.48	3.43	3.44	3.45	0.84	ppb
Molybdenum	97-1	3.20	3.25	3.14	3.20	1.68	ppb
Molybdenum	98-1	3.13	3.13	3.18	3.15	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.09	19.97	20.16	20.41	2.93	ppb
Phosphorus	31-2	374.20	307.42	321.23	334.28	10.55	ppb
Potassium	39-2	220.10	219.35	224.00	221.15	1.13	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				93		%
Scandium	45-2				89		%
Selenium	82-1	0.49	0.37	0.94	0.60	50.49	ppb
Selenium	77-2	5.78	6.84	5.65	6.09	10.67	ppb
Selenium	78-2	1.28	0.53	0.89	0.90	41.49	ppb
Silicon	28-1	133.10	133.02	131.15	132.42	0.83	ppb
Silver	107-1	0.46	0.41	0.43	0.44	5.73	ppb
Silver	109-1	0.46	0.42	0.44	0.44	5.30	ppb
Sodium	23-2	317.65	314.33	317.88	316.62	0.63	ppb
Strontium	86-1	51.22	51.67	51.42	51.44	0.44	ppb
Strontium	88-1	54.95	56.08	55.51	55.51	1.02	ppb
Sulfur	34-1	-680.63	-692.10	-627.83	-666.86		ppb
Terbium	159-1				93		%
Terbium	159-2				92		%
Thallium	203-1	0.24	0.24	0.24	0.24	1.56	ppb
Thallium	205-1	0.24	0.24	0.23	0.24	2.04	ppb
Tin	118-1	0.38	0.40	0.42	0.40	4.68	ppb
Titanium	47-1	11.41	11.98	11.55	11.65	2.52	ppb
Uranium	238-1	0.30	0.30	0.32	0.31	2.99	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	40.09	39.65	40.08	39.94	0.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				89		%
Zinc	66-2	57.12	55.96	56.62	56.57	1.03	ppb
Zirconium	90-1	0.94	0.93	0.94	0.94	0.48	ppb
Zirconium	91-1	0.90	1.01	0.96	0.96	5.89	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6939.73	6851.83	6949.02	6913.53	0.78	ppb
Antimony	121-1	5.94	5.99	5.91	5.95	0.66	ppb
Arsenic	75-2	281.07	284.02	286.75	283.95	1.00	ppb
Barium	135-1	36.14	36.76	36.60	36.50	0.89	ppb
Barium	137-1	36.27	36.71	37.10	36.69	1.13	ppb
Beryllium	9-1	0.22	0.23	0.22	0.23	2.82	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	3.66	3.00	3.30	3.32	9.97	ppb
Cadmium	106-1	1.35	1.74	2.21	1.76	24.42	ppb
Cadmium	111-1	2.13	2.21	2.35	2.23	4.97	ppb
Calcium	43-1	5966.60	6083.77	6099.75	6050.04	1.20	ppb
Calcium	44-1	6167.27	6460.28	6252.84	6293.46	2.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.53	18.58	18.76	18.62	0.67	ppb
Cobalt	59-2	36.29	36.46	36.57	36.44	0.38	ppb
Copper	63-2	237.83	236.38	237.39	237.20	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				93		%
Indium	115-1				98		%
Indium	115-2				90		%
Iron	54-2	58749.52	58463.93	58354.99	58522.81	0.35	ppb
Iron	56-2	57924.32	57962.43	58404.62	58097.12	0.46	ppb
Iron	57-2	59361.42	59812.03	59320.86	59498.10	0.46	ppb
Krypton	83-1						cps
Lead	206-1	22.51	23.12	23.24	22.96	1.69	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.42	22.01	21.98	21.80	1.52	ppb
Lead	208-1	21.82	22.48	22.47	22.26	1.69	ppb
Lithium	6-1				89		%
Magnesium	24-2	4048.96	4075.63	4113.09	4079.23	0.79	ppb
Manganese	55-2	95.83	94.48	95.10	95.14	0.71	ppb
Molybdenum	94-1	23.17	23.03	23.95	23.38	2.12	ppb
Molybdenum	95-1	8.62	8.41	8.63	8.55	1.44	ppb
Molybdenum	96-1	10.09	10.15	10.35	10.19	1.31	ppb
Molybdenum	97-1	8.52	8.58	8.95	8.68	2.66	ppb
Molybdenum	98-1	8.53	8.44	8.65	8.54	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	222.56	222.02	225.84	223.47	0.92	ppb
Phosphorus	31-2	2667.00	2608.54	2590.91	2622.15	1.52	ppb
Potassium	39-2	1271.81	1280.13	1278.74	1276.89	0.35	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				91		%
Selenium	82-1	8.03	8.13	8.12	8.09	0.69	ppb
Selenium	77-2	33.30	14.66	32.22	26.73	39.15	ppb
Selenium	78-2	10.75	14.10	12.83	12.56	13.46	ppb
Silicon	28-1	255.17	262.62	259.31	259.03	1.44	ppb
Silver	107-1	0.63	0.64	0.66	0.64	2.16	ppb
Silver	109-1	0.65	0.63	0.66	0.64	1.96	ppb
Sodium	23-2	95.27	99.24	99.39	97.97	2.38	ppb
Strontium	86-1	69.48	70.62	72.25	70.78	1.96	ppb
Strontium	88-1	74.79	75.63	76.44	75.62	1.10	ppb
Sulfur	34-1	41880.58	43019.12	43205.94	42701.88	1.68	ppb
Terbium	159-1				97		%
Terbium	159-2				94		%
Thallium	203-1	0.14	0.14	0.14	0.14	0.70	ppb
Thallium	205-1	0.13	0.14	0.14	0.14	1.62	ppb
Tin	118-1	0.14	0.14	0.16	0.15	8.59	ppb
Titanium	47-1	11.52	11.84	11.61	11.66	1.40	ppb
Uranium	238-1	0.43	0.46	0.46	0.45	3.51	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	18.69	19.10	19.08	18.96	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				93		%
Zinc	66-2	90.18	88.65	89.06	89.30	0.88	ppb
Zirconium	90-1	8.76	9.04	9.22	9.01	2.58	ppb
Zirconium	91-1	8.90	9.87	9.32	9.36	5.16	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11316.87	11132.07	11193.04	11213.99	0.84	ppb
Antimony	121-1	4.73	4.88	8.81	6.14	37.68	ppb
Arsenic	75-2	352.95	353.11	351.48	352.51	0.26	ppb
Barium	135-1	36.34	36.52	66.58	46.48	37.46	ppb
Barium	137-1	36.69	37.32	67.65	47.22	37.47	ppb
Beryllium	9-1	0.54	0.53	0.95	0.67	35.96	ppb
Bismuth	209-1				83		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	3.94	4.01	7.71	5.22	41.28	ppb
Cadmium	106-1	1.85	1.81	6.26	3.31	77.43	ppb
Cadmium	111-1	2.96	2.81	5.39	3.72	38.88	ppb
Calcium	43-1	4631.51	4737.75	8231.72	5866.99	34.92	ppb
Calcium	44-1	4843.06	4967.88	8611.92	6140.95	34.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.90	40.13	40.76	40.60	1.00	ppb
Cobalt	59-2	38.37	38.24	38.35	38.32	0.17	ppb
Copper	63-2	208.45	205.14	208.85	207.48	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				84		%
Holmium	165-2				93		%
Indium	115-1				85		%
Indium	115-2				90		%
Iron	54-2	59820.91	58693.67	58652.92	59055.83	1.12	ppb
Iron	56-2	59385.70	59073.31	58870.31	59109.77	0.44	ppb
Iron	57-2	60000.67	59437.51	58751.90	59396.69	1.05	ppb
Krypton	83-1						cps
Lead	206-1	27.95	29.16	50.15	35.76	34.91	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	26.77	27.22	47.37	33.79	34.83	ppb
Lead	208-1	27.27	28.12	48.54	34.64	34.76	ppb
Lithium	6-1				77		%
Magnesium	24-2	8137.89	7696.03	7928.14	7920.69	2.79	ppb
Manganese	55-2	194.60	195.14	193.77	194.50	0.36	ppb
Molybdenum	94-1	15.80	15.97	28.33	20.03	35.84	ppb
Molybdenum	95-1	4.45	4.53	8.05	5.68	36.22	ppb
Molybdenum	96-1	5.81	5.85	10.40	7.35	35.91	ppb
Molybdenum	97-1	4.48	4.54	8.33	5.78	38.09	ppb
Molybdenum	98-1	4.42	4.52	7.89	5.61	35.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	182.62	182.00	179.73	181.45	0.84	ppb
Phosphorus	31-2	1644.81	1866.03	1770.42	1760.42	6.30	ppb
Potassium	39-2	948.07	922.16	948.07	939.43	1.59	ppb
Rhodium	103-1				83		%
Rhodium	103-2				95		%
Scandium	45-1				84		%
Scandium	45-2				92		%
Selenium	82-1	5.98	6.33	10.81	7.71	34.97	ppb
Selenium	77-2	13.52	16.86	21.40	17.26	22.93	ppb
Selenium	78-2	10.03	10.28	9.25	9.85	5.45	ppb
Silicon	28-1	314.70	314.13	556.50	395.11	35.37	ppb
Silver	107-1	0.40	0.40	0.75	0.52	39.23	ppb
Silver	109-1	0.38	0.38	0.76	0.51	42.97	ppb
Sodium	23-2	116.39	120.05	124.07	120.17	3.20	ppb
Strontium	86-1	32.63	33.33	59.94	41.97	37.10	ppb
Strontium	88-1	33.06	33.59	59.47	42.04	35.91	ppb
Sulfur	34-1	31659.94	31039.49	58466.39	40388.61	38.77	ppb
Terbium	159-1				84		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.12	0.21	0.15	34.91	ppb
Thallium	205-1	0.11	0.11	0.21	0.15	39.68	ppb
Tin	118-1	0.29	0.29	0.66	0.41	51.21	ppb
Titanium	47-1	16.12	16.31	34.28	22.24	46.92	ppb
Uranium	238-1	0.86	0.86	1.53	1.08	35.66	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	29.46	29.72	30.08	29.75	1.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				93		%
Zinc	66-2	317.08	312.89	311.87	313.95	0.88	ppb
Zirconium	90-1	6.60	6.73	11.83	8.39	35.60	ppb
Zirconium	91-1	6.66	6.89	12.01	8.52	35.52	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18989.14	19031.40	18933.46	18984.67	0.26	ppb
Antimony	121-1	3.39	3.38	3.40	3.39	0.41	ppb
Arsenic	75-2	81.22	80.34	80.67	80.74	0.55	ppb
Barium	135-1	83.88	85.02	84.78	84.56	0.71	ppb
Barium	137-1	84.46	85.04	86.05	85.18	0.94	ppb
Beryllium	9-1	0.76	0.75	0.74	0.75	1.05	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	4.06	3.96	4.06	4.03	1.41	ppb
Cadmium	106-1	1.25	2.22	3.18	2.22	43.67	ppb
Cadmium	111-1	3.32	3.31	3.43	3.35	1.93	ppb
Calcium	43-1	7206.30	7114.37	7192.27	7170.98	0.69	ppb
Calcium	44-1	7449.88	7438.22	7430.75	7439.62	0.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	54.46	55.34	54.06	54.62	1.20	ppb
Cobalt	59-2	41.44	41.69	41.42	41.52	0.36	ppb
Copper	63-2	172.44	174.95	174.34	173.91	0.75	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				98		%
Holmium	165-2				94		%
Indium	115-1				97		%
Indium	115-2				89		%
Iron	54-2	72502.83	72526.01	73123.02	72717.29	0.48	ppb
Iron	56-2	73694.15	73140.98	73171.55	73335.56	0.42	ppb
Iron	57-2	73582.03	73369.56	72759.73	73237.11	0.58	ppb
Krypton	83-1						cps
Lead	206-1	27.84	27.70	28.25	27.93	1.02	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	26.19	26.25	27.09	26.51	1.90	ppb
Lead	208-1	26.93	26.79	27.50	27.07	1.38	ppb
Lithium	6-1				89		%
Magnesium	24-2	12585.67	12583.07	12546.59	12571.78	0.17	ppb
Manganese	55-2	381.82	384.28	382.99	383.03	0.32	ppb
Molybdenum	94-1	18.26	18.70	18.20	18.38	1.49	ppb
Molybdenum	95-1	9.67	9.75	9.59	9.67	0.80	ppb
Molybdenum	96-1	10.81	10.89	11.03	10.91	1.02	ppb
Molybdenum	97-1	9.91	9.80	9.76	9.82	0.82	ppb
Molybdenum	98-1	9.65	9.81	9.83	9.77	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	199.34	201.61	201.68	200.88	0.66	ppb
Phosphorus	31-2	2795.29	2701.89	2863.75	2786.98	2.92	ppb
Potassium	39-2	2040.67	2052.19	2057.39	2050.08	0.42	ppb
Rhodium	103-1				95		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				91		%
Selenium	82-1	7.67	7.57	7.77	7.67	1.33	ppb
Selenium	77-2	31.39	40.66	30.35	34.13	16.63	ppb
Selenium	78-2	13.16	12.22	11.52	12.30	6.66	ppb
Silicon	28-1	532.96	506.24	496.97	512.06	3.65	ppb
Silver	107-1	0.59	0.61	0.62	0.61	2.09	ppb
Silver	109-1	0.60	0.58	0.61	0.60	2.48	ppb
Sodium	23-2	152.29	158.29	157.22	155.94	2.05	ppb
Strontium	86-1	28.40	28.21	28.31	28.31	0.34	ppb
Strontium	88-1	28.21	28.47	28.60	28.43	0.69	ppb
Sulfur	34-1	28264.13	28290.89	28673.34	28409.45	0.81	ppb
Terbium	159-1				98		%
Terbium	159-2				93		%
Thallium	203-1	0.11	0.12	0.13	0.12	7.89	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	2.74	ppb
Tin	118-1	0.36	0.37	0.39	0.37	4.82	ppb
Titanium	47-1	111.68	110.81	113.51	112.00	1.23	ppb
Uranium	238-1	1.10	1.10	1.15	1.12	2.68	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	45.52	45.88	46.16	45.85	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				95		%
Zinc	66-2	350.48	355.69	351.58	352.58	0.78	ppb
Zirconium	90-1	5.54	5.51	5.55	5.53	0.37	ppb
Zirconium	91-1	5.69	5.48	5.93	5.70	3.92	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10629.40	10571.42	10559.87	10586.89	0.35	ppb
Antimony	121-1	1.52	1.58	1.56	1.56	1.96	ppb
Arsenic	75-2	11.49	11.21	11.57	11.42	1.62	ppb
Barium	135-1	44.27	44.86	44.42	44.52	0.69	ppb
Barium	137-1	44.72	44.56	44.90	44.73	0.38	ppb
Beryllium	9-1	0.25	0.23	0.26	0.25	6.18	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.30	1.02	0.86	1.06	21.27	ppb
Cadmium	106-1	-1.12	-1.21	-1.98	-1.44		ppb
Cadmium	111-1	0.07	0.09	0.11	0.09	20.77	ppb
Calcium	43-1	2055.98	1989.17	2091.38	2045.51	2.54	ppb
Calcium	44-1	2146.53	2102.97	2197.41	2148.97	2.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.98	6.07	6.02	6.02	0.75	ppb
Cobalt	59-2	11.65	11.67	11.68	11.67	0.16	ppb
Copper	63-2	76.46	77.13	76.85	76.81	0.44	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				93		%
Indium	115-1				98		%
Indium	115-2				88		%
Iron	54-2	23564.51	23147.73	23245.92	23319.39	0.93	ppb
Iron	56-2	22790.71	22848.77	22653.13	22764.21	0.44	ppb
Iron	57-2	21499.57	21651.53	21601.54	21584.21	0.36	ppb
Krypton	83-1						cps
Lead	206-1	20.63	20.75	21.36	20.92	1.87	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.42	19.81	20.21	19.81	2.00	ppb
Lead	208-1	19.85	20.10	20.56	20.17	1.77	ppb
Lithium	6-1				88		%
Magnesium	24-2	8819.06	8756.62	8833.46	8803.05	0.46	ppb
Manganese	55-2	85.68	85.49	85.52	85.56	0.12	ppb
Molybdenum	94-1	12.10	12.88	12.67	12.55	3.22	ppb
Molybdenum	95-1	3.96	4.01	4.05	4.01	1.07	ppb
Molybdenum	96-1	4.86	5.05	5.02	4.98	2.05	ppb
Molybdenum	97-1	3.86	4.14	4.07	4.02	3.53	ppb
Molybdenum	98-1	3.98	4.04	3.97	4.00	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.31	28.43	28.57	28.44	0.47	ppb
Phosphorus	31-2	566.56	551.31	585.54	567.80	3.02	ppb
Potassium	39-2	838.18	831.59	845.75	838.51	0.85	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				90		%
Selenium	82-1	1.23	1.09	1.20	1.17	6.29	ppb
Selenium	77-2	18.61	19.71	17.31	18.54	6.49	ppb
Selenium	78-2	5.41	2.25	2.59	3.42	50.62	ppb
Silicon	28-1	278.14	255.77	292.56	275.49	6.73	ppb
Silver	107-1	0.16	0.16	0.16	0.16	1.91	ppb
Silver	109-1	0.15	0.16	0.15	0.15	3.68	ppb
Sodium	23-2	57.87	61.35	60.31	59.84	2.99	ppb
Strontium	86-1	14.26	14.92	14.13	14.44	2.95	ppb
Strontium	88-1	14.39	14.84	14.69	14.64	1.58	ppb
Sulfur	34-1	1809.01	1618.15	2023.72	1816.96	11.17	ppb
Terbium	159-1				99		%
Terbium	159-2				94		%
Thallium	203-1	0.09	0.08	0.08	0.08	2.93	ppb
Thallium	205-1	0.08	0.08	0.09	0.08	7.09	ppb
Tin	118-1	0.13	0.12	0.14	0.13	7.45	ppb
Titanium	47-1	10.17	10.20	10.56	10.31	2.14	ppb
Uranium	238-1	0.53	0.54	0.54	0.53	0.59	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.86	3.94	4.11	3.97	3.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				91		%
Zinc	66-2	129.58	131.85	130.22	130.55	0.89	ppb
Zirconium	90-1	5.08	5.15	5.12	5.12	0.72	ppb
Zirconium	91-1	4.93	5.21	5.18	5.10	2.99	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18635.04	18658.38	18601.01	18631.48	0.15	ppb
Antimony	121-1	1.86	1.95	1.95	1.92	2.59	ppb
Arsenic	75-2	56.14	58.17	58.32	57.55	2.11	ppb
Barium	135-1	227.85	232.51	233.96	231.44	1.38	ppb
Barium	137-1	230.46	234.81	235.47	233.58	1.17	ppb
Beryllium	9-1	0.83	0.81	0.86	0.83	3.05	ppb
Bismuth	209-1				96		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.56	0.49	0.65	0.57	14.37	ppb
Cadmium	106-1	-1.73	-1.98	-1.77	-1.83		ppb
Cadmium	111-1	0.12	0.09	0.12	0.11	13.09	ppb
Calcium	43-1	5198.30	5208.51	5272.82	5226.54	0.77	ppb
Calcium	44-1	5462.25	5303.32	5381.03	5382.20	1.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.63	43.87	43.59	43.70	0.35	ppb
Cobalt	59-2	25.38	25.59	25.76	25.57	0.74	ppb
Copper	63-2	93.90	95.13	95.05	94.69	0.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				93		%
Indium	115-1				97		%
Indium	115-2				88		%
Iron	54-2	58948.66	59968.36	59364.82	59427.28	0.86	ppb
Iron	56-2	58420.84	59142.80	58529.74	58697.79	0.66	ppb
Iron	57-2	58686.36	58875.56	59257.62	58939.85	0.49	ppb
Krypton	83-1						cps
Lead	206-1	24.81	25.26	25.18	25.09	0.95	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.30	23.67	23.64	23.54	0.88	ppb
Lead	208-1	23.87	24.18	24.31	24.12	0.94	ppb
Lithium	6-1				89		%
Magnesium	24-2	11706.64	11411.42	11765.04	11627.70	1.63	ppb
Manganese	55-2	478.91	479.65	479.08	479.21	0.08	ppb
Molybdenum	94-1	3.76	3.63	3.64	3.68	1.89	ppb
Molybdenum	95-1	1.79	1.74	1.81	1.78	1.92	ppb
Molybdenum	96-1	2.12	2.14	2.16	2.14	1.03	ppb
Molybdenum	97-1	1.78	1.74	1.84	1.78	2.73	ppb
Molybdenum	98-1	1.78	1.82	1.74	1.78	2.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	75.18	75.96	76.44	75.86	0.84	ppb
Phosphorus	31-2	548.26	549.23	525.66	541.05	2.46	ppb
Potassium	39-2	382.74	385.66	392.82	387.07	1.34	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				97		%
Scandium	45-2				90		%
Selenium	82-1	0.91	0.90	0.96	0.92	3.51	ppb
Selenium	77-2	31.08	15.98	21.97	23.01	33.03	ppb
Selenium	78-2	4.27	2.91	3.63	3.60	18.92	ppb
Silicon	28-1	160.83	159.98	166.08	162.30	2.03	ppb
Silver	107-1	0.24	0.26	0.27	0.26	5.34	ppb
Silver	109-1	0.27	0.27	0.27	0.27	0.77	ppb
Sodium	23-2	46.89	48.90	48.73	48.17	2.31	ppb
Strontium	86-1	43.59	43.85	44.32	43.92	0.84	ppb
Strontium	88-1	45.71	46.71	47.38	46.60	1.81	ppb
Sulfur	34-1	-979.62	-976.40	-859.78	-938.60		ppb
Terbium	159-1				98		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.10	0.10	0.10	8.50	ppb
Thallium	205-1	0.10	0.11	0.11	0.10	2.12	ppb
Tin	118-1	0.44	0.45	0.47	0.46	3.44	ppb
Titanium	47-1	33.58	34.10	35.69	34.46	3.19	ppb
Uranium	238-1	0.46	0.45	0.46	0.46	0.30	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	53.99	54.99	54.42	54.47	0.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				92		%
Zinc	66-2	135.94	139.17	138.82	137.98	1.28	ppb
Zirconium	90-1	1.20	1.22	1.22	1.21	0.89	ppb
Zirconium	91-1	1.22	1.24	1.18	1.21	2.65	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	31440.79	37154.94	31600.75	33398.83	9.74	ppb
Antimony	121-1	2.86	2.90	2.87	2.88	0.82	ppb
Arsenic	75-2	62.30	77.31	61.96	67.19	13.04	ppb
Barium	135-1	106.28	106.99	106.32	106.53	0.37	ppb
Barium	137-1	107.67	107.85	107.26	107.59	0.28	ppb
Beryllium	9-1	0.45	0.46	0.46	0.45	0.91	ppb
Bismuth	209-1				95		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	1.32	1.80	1.61	1.58	15.47	ppb
Cadmium	106-1	-0.22	-0.46	-0.91	-0.53		ppb
Cadmium	111-1	0.71	0.67	0.67	0.68	3.88	ppb
Calcium	43-1	5272.22	5315.97	5329.43	5305.88	0.56	ppb
Calcium	44-1	5408.41	5492.70	5507.54	5469.55	0.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	56.45	66.96	55.48	59.63	10.68	ppb
Cobalt	59-2	44.94	53.98	44.18	47.70	11.44	ppb
Copper	63-2	140.47	166.80	138.23	148.50	10.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				88		%
Indium	115-1				97		%
Indium	115-2				83		%
Iron	54-2	97716.15	115839.11	94617.99	102724.42	11.16	ppb
Iron	56-2	96990.13	115851.13	95231.17	102690.81	11.13	ppb
Iron	57-2	98038.95	114720.70	95807.03	102855.56	10.05	ppb
Krypton	83-1						cps
Lead	206-1	27.27	27.70	27.53	27.50	0.78	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.31	25.70	25.79	25.60	1.00	ppb
Lead	208-1	26.06	26.54	26.45	26.35	0.96	ppb
Lithium	6-1				88		%
Magnesium	24-2	18323.78	21701.37	18123.19	19382.78	10.37	ppb
Manganese	55-2	1027.80	1230.10	1018.47	1092.13	10.95	ppb
Molybdenum	94-1	11.09	11.31	11.01	11.14	1.39	ppb
Molybdenum	95-1	4.59	4.76	4.66	4.67	1.89	ppb
Molybdenum	96-1	5.60	5.81	5.64	5.68	2.00	ppb
Molybdenum	97-1	4.69	4.84	4.74	4.76	1.64	ppb
Molybdenum	98-1	4.56	4.69	4.59	4.61	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	155.04	184.19	151.40	163.54	10.99	ppb
Phosphorus	31-2	1578.21	1904.64	1632.21	1705.02	10.26	ppb
Potassium	39-2	1293.86	1540.53	1262.79	1365.73	11.14	ppb
Rhodium	103-1				95		%
Rhodium	103-2				88		%
Scandium	45-1				96		%
Scandium	45-2				85		%
Selenium	82-1	1.99	2.28	2.17	2.15	6.71	ppb
Selenium	77-2	22.69	37.79	15.63	25.37	44.63	ppb
Selenium	78-2	8.97	3.89	6.53	6.46	39.35	ppb
Silicon	28-1	353.33	356.51	368.90	359.58	2.29	ppb
Silver	107-1	0.49	0.49	0.49	0.49	0.21	ppb
Silver	109-1	0.47	0.50	0.50	0.49	2.44	ppb
Sodium	23-2	108.37	135.41	105.37	116.39	14.22	ppb
Strontium	86-1	49.05	50.28	49.34	49.55	1.29	ppb
Strontium	88-1	52.27	53.32	52.25	52.61	1.17	ppb
Sulfur	34-1	-884.60	-919.02	-868.16	-890.59		ppb
Terbium	159-1				98		%
Terbium	159-2				89		%
Thallium	203-1	0.25	0.24	0.25	0.25	1.24	ppb
Thallium	205-1	0.24	0.25	0.24	0.25	2.86	ppb
Tin	118-1	0.20	0.19	0.19	0.19	2.32	ppb
Titanium	47-1	22.42	21.45	24.67	22.85	7.22	ppb
Uranium	238-1	1.26	1.25	1.27	1.26	0.67	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	56.93	67.34	55.86	60.04	10.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				89		%
Zinc	66-2	238.73	286.55	235.21	253.50	11.31	ppb
Zirconium	90-1	3.96	4.03	3.97	3.99	0.99	ppb
Zirconium	91-1	3.91	4.44	6.51	4.95	27.77	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	29982.09	29504.02	30601.66	30029.26	1.83	ppb
Antimony	121-1	1.44	1.47	1.47	1.46	1.24	ppb
Arsenic	75-2	15.59	16.97	16.07	16.21	4.30	ppb
Barium	135-1	164.99	166.26	164.24	165.17	0.62	ppb
Barium	137-1	165.01	170.20	166.15	167.12	1.63	ppb
Beryllium	9-1	0.58	0.59	0.56	0.58	3.08	ppb
Bismuth	209-1				93		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.78	0.60	0.66	0.68	13.06	ppb
Cadmium	106-1	-1.13	-1.45	-1.26	-1.28		ppb
Cadmium	111-1	0.24	0.22	0.22	0.23	5.13	ppb
Calcium	43-1	6862.93	6986.43	7093.61	6980.99	1.65	ppb
Calcium	44-1	7102.68	7203.09	7198.20	7167.99	0.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	68.48	68.41	67.77	68.22	0.57	ppb
Cobalt	59-2	37.34	37.64	37.41	37.46	0.42	ppb
Copper	63-2	74.01	74.15	74.00	74.05	0.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				92		%
Indium	115-1				95		%
Indium	115-2				86		%
Iron	54-2	65731.97	64446.91	64693.50	64957.46	1.05	ppb
Iron	56-2	64413.00	65208.57	65608.22	65076.59	0.93	ppb
Iron	57-2	65204.83	65825.87	65410.74	65480.48	0.48	ppb
Krypton	83-1						cps
Lead	206-1	25.60	26.16	26.08	25.94	1.16	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.36	24.54	24.80	24.57	0.91	ppb
Lead	208-1	24.81	25.21	25.28	25.10	1.01	ppb
Lithium	6-1				87		%
Magnesium	24-2	20790.87	20444.61	21082.87	20772.78	1.54	ppb
Manganese	55-2	635.27	631.63	634.67	633.86	0.31	ppb
Molybdenum	94-1	5.23	5.38	5.40	5.34	1.73	ppb
Molybdenum	95-1	1.23	1.23	1.24	1.23	0.61	ppb
Molybdenum	96-1	1.87	1.88	1.86	1.87	0.77	ppb
Molybdenum	97-1	1.28	1.22	1.28	1.26	2.60	ppb
Molybdenum	98-1	1.25	1.24	1.23	1.24	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	108.98	110.04	107.98	109.00	0.95	ppb
Phosphorus	31-2	644.37	592.96	591.43	609.59	4.94	ppb
Potassium	39-2	662.61	672.89	670.77	668.75	0.81	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				95		%
Scandium	45-2				88		%
Selenium	82-1	0.58	0.51	0.38	0.49	21.10	ppb
Selenium	77-2	21.11	19.82	8.02	16.32	44.22	ppb
Selenium	78-2	2.63	4.37	2.65	3.21	31.02	ppb
Silicon	28-1	233.72	239.57	251.23	241.51	3.69	ppb
Silver	107-1	0.32	0.32	0.28	0.31	6.26	ppb
Silver	109-1	0.31	0.30	0.31	0.31	0.73	ppb
Sodium	23-2	258.61	257.98	261.04	259.21	0.62	ppb
Strontium	86-1	109.46	109.93	110.20	109.86	0.34	ppb
Strontium	88-1	116.12	115.61	115.26	115.67	0.37	ppb
Sulfur	34-1	149.50	215.22	250.32	205.01	24.96	ppb
Terbium	159-1				97		%
Terbium	159-2				93		%
Thallium	203-1	0.14	0.15	0.14	0.14	4.12	ppb
Thallium	205-1	0.14	0.14	0.15	0.14	4.63	ppb
Tin	118-1	0.14	0.15	0.15	0.15	3.32	ppb
Titanium	47-1	17.93	18.37	18.41	18.24	1.46	ppb
Uranium	238-1	0.69	0.69	0.70	0.69	1.08	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	63.83	64.57	63.89	64.10	0.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				90		%
Zinc	66-2	158.46	156.21	157.85	157.51	0.74	ppb
Zirconium	90-1	2.27	2.29	2.29	2.28	0.55	ppb
Zirconium	91-1	2.23	2.35	2.33	2.30	2.83	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1257.54	1271.05	1258.44	1262.34	0.60	ppb
Antimony	121-1	0.71	0.71	0.76	0.73	3.73	ppb
Arsenic	75-2	22.73	23.23	24.71	23.56	4.37	ppb
Barium	135-1	12.42	12.54	12.78	12.58	1.44	ppb
Barium	137-1	12.50	12.64	12.87	12.67	1.48	ppb
Beryllium	9-1	0.10	0.09	0.09	0.09	2.21	ppb
Bismuth	209-1				96		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.26	0.40	0.34	0.33	21.52	ppb
Cadmium	106-1	-1.68	-3.12	-1.62	-2.14		ppb
Cadmium	111-1	0.01	-0.01	0.02	0.01	238.21	ppb
Calcium	43-1	17886.23	18285.80	18272.20	18148.08	1.25	ppb
Calcium	44-1	18683.71	18748.79	18791.40	18741.30	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.96	3.90	4.12	3.99	2.87	ppb
Cobalt	59-2	3.23	3.35	3.37	3.32	2.25	ppb
Copper	63-2	13.55	13.42	13.61	13.53	0.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				92		%
Indium	115-1				97		%
Indium	115-2				87		%
Iron	54-2	17366.49	17435.21	16940.16	17247.29	1.55	ppb
Iron	56-2	17051.41	17285.70	17091.51	17142.87	0.73	ppb
Iron	57-2	16141.56	16200.60	16145.86	16162.67	0.20	ppb
Krypton	83-1						cps
Lead	206-1	4.08	4.25	4.21	4.18	2.09	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.84	3.96	3.99	3.93	2.00	ppb
Lead	208-1	3.94	4.10	4.10	4.05	2.23	ppb
Lithium	6-1				87		%
Magnesium	24-2	5901.41	5931.01	5922.27	5918.23	0.26	ppb
Manganese	55-2	455.72	457.40	454.97	456.03	0.27	ppb
Molybdenum	94-1	4.35	4.25	4.35	4.32	1.31	ppb
Molybdenum	95-1	0.61	0.60	0.65	0.62	4.12	ppb
Molybdenum	96-1	1.06	1.05	1.10	1.07	2.51	ppb
Molybdenum	97-1	0.65	0.66	0.62	0.64	3.64	ppb
Molybdenum	98-1	0.65	0.66	0.65	0.65	0.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.64	7.40	7.74	7.59	2.28	ppb
Phosphorus	31-2	199.78	239.62	266.59	235.33	14.28	ppb
Potassium	39-2	285.73	302.96	298.84	295.84	3.04	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				95		%
Scandium	45-2				88		%
Selenium	82-1	0.60	0.36	0.56	0.51	25.25	ppb
Selenium	77-2	3.27	5.63	2.04	3.65	50.02	ppb
Selenium	78-2	0.90	2.65	0.53	1.36	83.08	ppb
Silicon	28-1	122.46	141.68	145.72	136.62	9.10	ppb
Silver	107-1	0.08	0.08	0.09	0.08	6.96	ppb
Silver	109-1	0.08	0.08	0.09	0.08	5.75	ppb
Sodium	23-2	57.63	62.85	61.43	60.64	4.45	ppb
Strontium	86-1	203.51	204.96	204.63	204.36	0.37	ppb
Strontium	88-1	215.17	216.63	214.60	215.47	0.48	ppb
Sulfur	34-1	892.40	1077.24	1087.25	1018.96	10.77	ppb
Terbium	159-1				98		%
Terbium	159-2				92		%
Thallium	203-1	0.02	0.03	0.03	0.03	4.64	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	10.97	ppb
Tin	118-1	0.09	0.11	0.10	0.10	6.51	ppb
Titanium	47-1	1.99	1.99	1.96	1.98	1.08	ppb
Uranium	238-1	0.40	0.41	0.41	0.41	1.46	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.76	1.82	1.72	1.77	2.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				89		%
Zinc	66-2	19.87	19.41	20.72	20.00	3.31	ppb
Zirconium	90-1	2.08	2.06	2.05	2.06	0.80	ppb
Zirconium	91-1	2.09	2.09	2.17	2.12	2.03	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	765.94	744.72	750.84	753.83	1.45	ppb
Antimony	121-1	0.05	0.04	0.06	0.05	14.51	ppb
Arsenic	75-2	0.48	0.58	0.46	0.51	11.93	ppb
Barium	135-1	6.25	5.94	6.23	6.14	2.79	ppb
Barium	137-1	6.37	6.24	6.27	6.29	1.02	ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	9.20	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.17	0.32	0.24	0.24	30.54	ppb
Cadmium	106-1	-1.31	-2.26	-2.52	-2.03		ppb
Cadmium	111-1	0.25	0.19	0.20	0.21	15.49	ppb
Calcium	43-1	5056.40	5122.48	5091.82	5090.23	0.65	ppb
Calcium	44-1	5154.25	5332.01	5335.95	5274.07	1.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.04	1.10	1.12	1.09	3.67	ppb
Cobalt	59-2	0.50	0.45	0.44	0.46	7.06	ppb
Copper	63-2	2.51	2.34	2.38	2.41	3.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				89		%
Indium	115-1				93		%
Indium	115-2				85		%
Iron	54-2	1495.84	1483.42	1476.45	1485.24	0.66	ppb
Iron	56-2	1619.04	1595.30	1600.57	1604.97	0.78	ppb
Iron	57-2	1509.01	1472.67	1462.91	1481.53	1.64	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.38	0.39	0.39	2.73	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.35	0.37	2.86	ppb
Lead	208-1	0.37	0.38	0.37	0.37	1.02	ppb
Lithium	6-1				86		%
Magnesium	24-2	584.43	569.52	580.05	578.00	1.33	ppb
Manganese	55-2	53.15	52.87	52.73	52.91	0.40	ppb
Molybdenum	94-1	1.52	1.49	1.61	1.54	4.25	ppb
Molybdenum	95-1	0.33	0.36	0.36	0.35	5.77	ppb
Molybdenum	96-1	0.46	0.51	0.51	0.49	5.18	ppb
Molybdenum	97-1	0.33	0.37	0.38	0.36	7.74	ppb
Molybdenum	98-1	0.34	0.34	0.37	0.35	4.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.66	5.56	5.23	5.48	4.15	ppb
Phosphorus	31-2	193.65	183.14	156.82	177.87	10.67	ppb
Potassium	39-2	93.45	85.51	83.45	87.47	6.04	ppb
Rhodium	103-1				92		%
Rhodium	103-2				90		%
Scandium	45-1				91		%
Scandium	45-2				83		%
Selenium	82-1	0.09	0.03	0.05	0.06	49.33	ppb
Selenium	77-2	2.18	0.91	2.19	1.76	41.72	ppb
Selenium	78-2	1.34	0.22	-0.15	0.47	164.74	ppb
Silicon	28-1	197.56	199.03	194.27	196.95	1.24	ppb
Silver	107-1	0.01	0.01	0.00	0.01	19.28	ppb
Silver	109-1	0.01	0.01	0.01	0.01	9.24	ppb
Sodium	23-2	32.40	30.13	28.63	30.39	6.24	ppb
Strontium	86-1	8.28	8.12	8.10	8.17	1.19	ppb
Strontium	88-1	8.19	8.14	8.31	8.21	1.08	ppb
Sulfur	34-1	-461.44	-408.85	-469.79	-446.69		ppb
Terbium	159-1				94		%
Terbium	159-2				90		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	110.19	ppb
Tin	118-1	0.11	0.10	0.10	0.10	5.71	ppb
Titanium	47-1	17.51	17.84	17.25	17.53	1.67	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	9.04	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.49	1.39	1.39	1.43	4.02	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				85		%
Zinc	66-2	12.85	11.76	12.13	12.25	4.51	ppb
Zirconium	90-1	0.71	0.70	0.69	0.70	1.68	ppb
Zirconium	91-1	0.68	0.69	0.69	0.69	0.76	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	747.14	731.48	748.54	742.39	1.28	ppb
Antimony	121-1	0.05	0.05	0.05	0.05	1.87	ppb
Arsenic	75-2	0.63	0.54	0.75	0.64	16.14	ppb
Barium	135-1	6.18	6.24	6.44	6.29	2.13	ppb
Barium	137-1	6.42	6.36	6.46	6.41	0.75	ppb
Beryllium	9-1	0.02	0.03	0.04	0.03	23.40	ppb
Bismuth	209-1				91		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.33	0.44	0.42	0.40	15.29	ppb
Cadmium	106-1	-2.48	-2.68	-2.79	-2.65		ppb
Cadmium	111-1	0.19	0.18	0.20	0.19	5.30	ppb
Calcium	43-1	5121.85	5174.33	5138.82	5145.00	0.52	ppb
Calcium	44-1	5401.78	5372.75	5347.21	5373.91	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.11	1.03	1.05	1.06	4.10	ppb
Cobalt	59-2	0.47	0.47	0.47	0.47	0.51	ppb
Copper	63-2	2.23	2.14	2.32	2.23	3.93	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				92		%
Holmium	165-2				90		%
Indium	115-1				92		%
Indium	115-2				84		%
Iron	54-2	1497.59	1485.22	1514.90	1499.24	0.99	ppb
Iron	56-2	1590.04	1600.89	1598.60	1596.51	0.36	ppb
Iron	57-2	1485.50	1467.23	1504.80	1485.84	1.26	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.40	0.38	0.39	3.63	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.36	0.38	0.37	0.37	3.48	ppb
Lead	208-1	0.39	0.39	0.38	0.39	0.66	ppb
Lithium	6-1				85		%
Magnesium	24-2	590.69	580.09	580.72	583.84	1.02	ppb
Manganese	55-2	52.82	51.31	52.79	52.31	1.64	ppb
Molybdenum	94-1	1.60	1.55	1.55	1.57	1.96	ppb
Molybdenum	95-1	0.36	0.34	0.33	0.34	4.09	ppb
Molybdenum	96-1	0.47	0.48	0.51	0.48	4.11	ppb
Molybdenum	97-1	0.30	0.36	0.32	0.33	8.26	ppb
Molybdenum	98-1	0.37	0.36	0.37	0.37	1.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.38	5.20	5.26	5.28	1.73	ppb
Phosphorus	31-2	187.36	176.81	181.93	182.03	2.90	ppb
Potassium	39-2	86.05	80.78	85.60	84.14	3.47	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				89		%
Scandium	45-2				82		%
Selenium	82-1	0.38	0.07	-0.07	0.13	179.64	ppb
Selenium	77-2	-0.36	2.20	0.92	0.92	139.32	ppb
Selenium	78-2	0.98	0.23	-0.15	0.35	162.93	ppb
Silicon	28-1	198.98	203.05	203.34	201.79	1.21	ppb
Silver	107-1	0.01	0.01	0.01	0.01	22.37	ppb
Silver	109-1	0.00	0.01	0.01	0.00	79.65	ppb
Sodium	23-2	24.22	25.71	26.17	25.37	4.02	ppb
Strontium	86-1	8.20	8.19	8.25	8.21	0.41	ppb
Strontium	88-1	8.20	8.25	8.33	8.26	0.82	ppb
Sulfur	34-1	-384.48	-350.66	-398.51	-377.88		ppb
Terbium	159-1				92		%
Terbium	159-2				88		%
Thallium	203-1	0.00	0.00	0.00	0.00	334.67	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	171.84	ppb
Tin	118-1	0.08	0.11	0.09	0.09	16.94	ppb
Titanium	47-1	17.83	18.17	17.51	17.84	1.85	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	7.79	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.47	1.45	1.51	1.48	2.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				84		%
Zinc	66-2	11.21	10.56	11.26	11.01	3.52	ppb
Zirconium	90-1	0.69	0.71	0.70	0.70	1.11	ppb
Zirconium	91-1	0.66	0.66	0.69	0.67	3.00	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	150.14	143.30	145.07	146.17	2.43	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	34.59	ppb
Arsenic	75-2	0.21	0.13	0.08	0.14	47.98	ppb
Barium	135-1	1.15	1.12	1.12	1.13	1.63	ppb
Barium	137-1	1.28	1.11	1.19	1.19	6.82	ppb
Beryllium	9-1	0.02	0.01	0.00	0.01	86.82	ppb
Bismuth	209-1				91		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.12	0.06	0.09	35.46	ppb
Cadmium	106-1	-2.22	-3.06	-1.89	-2.39		ppb
Cadmium	111-1	0.00	-0.01	0.03	0.01	216.25	ppb
Calcium	43-1	976.53	978.06	989.90	981.50	0.75	ppb
Calcium	44-1	989.26	991.43	984.77	988.49	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.15	0.24	0.21	0.20	22.05	ppb
Cobalt	59-2	0.10	0.10	0.10	0.10	2.95	ppb
Copper	63-2	0.29	0.34	0.34	0.32	9.18	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				90		%
Holmium	165-2				88		%
Indium	115-1				91		%
Indium	115-2				83		%
Iron	54-2	300.11	291.87	286.27	292.75	2.38	ppb
Iron	56-2	291.63	294.17	291.58	292.46	0.51	ppb
Iron	57-2	300.35	299.86	300.75	300.32	0.15	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.13	0.12	0.12	11.56	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.13	0.12	0.13	6.24	ppb
Lead	208-1	0.12	0.13	0.12	0.12	3.75	ppb
Lithium	6-1				86		%
Magnesium	24-2	115.63	114.54	114.19	114.78	0.65	ppb
Manganese	55-2	10.28	10.05	10.39	10.24	1.72	ppb
Molybdenum	94-1	0.31	0.30	0.31	0.31	1.58	ppb
Molybdenum	95-1	0.08	0.07	0.08	0.08	10.43	ppb
Molybdenum	96-1	0.10	0.11	0.11	0.10	4.80	ppb
Molybdenum	97-1	0.06	0.06	0.06	0.06	2.03	ppb
Molybdenum	98-1	0.08	0.08	0.07	0.08	2.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.19	0.98	0.92	1.03	13.83	ppb
Phosphorus	31-2	10.21	-1.76	13.53	7.33	109.72	ppb
Potassium	39-2	8.28	10.61	5.80	8.23	29.19	ppb
Rhodium	103-1				90		%
Rhodium	103-2				88		%
Scandium	45-1				88		%
Scandium	45-2				80		%
Selenium	82-1	0.42	0.09	-0.21	0.10	318.70	ppb
Selenium	77-2	2.25	0.95	-0.36	0.95	137.73	ppb
Selenium	78-2	-0.53	-0.53	0.25	-0.27		ppb
Silicon	28-1	38.35	38.04	36.86	37.75	2.08	ppb
Silver	107-1	0.00	0.00	0.00	0.00	6.76	ppb
Silver	109-1	0.00	0.00	0.00	0.00	209.53	ppb
Sodium	23-2	-4.80	-6.88	-5.44	-5.71		ppb
Strontium	86-1	1.52	1.59	1.67	1.59	4.72	ppb
Strontium	88-1	1.60	1.60	1.59	1.60	0.36	ppb
Sulfur	34-1	-472.75	-534.76	-536.15	-514.55		ppb
Terbium	159-1				90		%
Terbium	159-2				87		%
Thallium	203-1	0.00	0.01	0.00	0.00	121.72	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	69.01	ppb
Tin	118-1	0.01	-0.01	0.00	0.00	790.82	ppb
Titanium	47-1	3.48	3.34	3.60	3.47	3.66	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	25.50	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.31	0.28	0.26	0.28	8.58	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				82		%
Zinc	66-2	2.28	1.97	2.45	2.24	10.85	ppb
Zirconium	90-1	0.13	0.14	0.13	0.13	3.32	ppb
Zirconium	91-1	0.14	0.14	0.14	0.14	1.22	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	850.30	862.28	863.44	858.68	0.85	ppb
Antimony	121-1	3.91	4.01	3.97	3.96	1.22	ppb
Arsenic	75-2	2.48	2.21	2.35	2.35	5.85	ppb
Barium	135-1	84.56	84.91	84.54	84.67	0.25	ppb
Barium	137-1	84.76	86.14	85.85	85.58	0.85	ppb
Beryllium	9-1	1.95	1.93	1.96	1.95	0.79	ppb
Bismuth	209-1				90		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	2.12	2.08	1.97	2.06	3.86	ppb
Cadmium	106-1	-0.73	-1.05	-0.82	-0.87		ppb
Cadmium	111-1	1.98	2.02	2.00	2.00	0.98	ppb
Calcium	43-1	5048.42	4949.73	5009.08	5002.41	0.99	ppb
Calcium	44-1	5217.96	5115.52	5182.36	5171.95	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.99	8.92	9.00	8.97	0.49	ppb
Cobalt	59-2	21.36	21.92	21.90	21.73	1.47	ppb
Copper	63-2	12.87	13.11	13.14	13.04	1.16	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				90		%
Holmium	165-2				88		%
Indium	115-1				89		%
Indium	115-2				82		%
Iron	54-2	1632.19	1623.36	1656.44	1637.33	1.05	ppb
Iron	56-2	1725.82	1737.23	1725.64	1729.56	0.38	ppb
Iron	57-2	1605.82	1625.64	1617.74	1616.40	0.62	ppb
Krypton	83-1						cps
Lead	206-1	1.42	1.39	1.41	1.41	1.20	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.35	1.38	1.40	1.38	1.82	ppb
Lead	208-1	1.40	1.38	1.39	1.39	0.43	ppb
Lithium	6-1				88		%
Magnesium	24-2	568.03	585.33	577.76	577.04	1.50	ppb
Manganese	55-2	71.40	72.07	73.00	72.16	1.12	ppb
Molybdenum	94-1	15.73	16.02	15.96	15.91	0.96	ppb
Molybdenum	95-1	17.97	18.25	18.08	18.10	0.78	ppb
Molybdenum	96-1	17.54	18.21	17.89	17.88	1.88	ppb
Molybdenum	97-1	18.06	18.34	18.50	18.30	1.24	ppb
Molybdenum	98-1	17.80	18.26	18.04	18.03	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.83	26.68	27.14	26.55	2.49	ppb
Phosphorus	31-2	178.21	189.34	197.54	188.36	5.15	ppb
Potassium	39-2	124.54	115.88	120.18	120.20	3.60	ppb
Rhodium	103-1				89		%
Rhodium	103-2				87		%
Scandium	45-1				88		%
Scandium	45-2				81		%
Selenium	82-1	4.35	4.43	5.46	4.74	13.06	ppb
Selenium	77-2	7.40	6.14	7.53	7.02	10.95	ppb
Selenium	78-2	3.66	5.59	2.96	4.07	33.51	ppb
Silicon	28-1	183.04	182.90	182.92	182.95	0.04	ppb
Silver	107-1	1.96	1.94	1.95	1.95	0.54	ppb
Silver	109-1	1.99	1.91	1.94	1.95	2.11	ppb
Sodium	23-2	31.28	30.74	32.12	31.38	2.22	ppb
Strontium	86-1	373.23	378.36	381.02	377.54	1.05	ppb
Strontium	88-1	370.88	374.01	377.35	374.08	0.86	ppb
Sulfur	34-1	-369.19	-497.39	-373.34	-413.31		ppb
Terbium	159-1				91		%
Terbium	159-2				87		%
Thallium	203-1	1.87	1.87	1.82	1.85	1.49	ppb
Thallium	205-1	1.87	1.85	1.86	1.86	0.64	ppb
Tin	118-1	0.11	0.13	0.10	0.11	11.44	ppb
Titanium	47-1	20.42	20.24	20.18	20.28	0.61	ppb
Uranium	238-1	0.02	0.02	0.03	0.02	3.86	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	21.69	21.50	21.72	21.64	0.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				83		%
Zinc	66-2	35.61	33.80	36.49	35.30	3.88	ppb
Zirconium	90-1	0.55	0.56	0.57	0.56	2.40	ppb
Zirconium	91-1	0.57	0.56	0.57	0.57	0.93	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7888.54	7917.61	7831.31	7879.15	0.56	ppb
Antimony	121-1	0.95	0.98	0.93	0.95	2.61	ppb
Arsenic	75-2	574.85	581.21	567.96	574.67	1.15	ppb
Barium	135-1	85.55	87.93	86.07	86.52	1.44	ppb
Barium	137-1	86.23	89.52	86.72	87.49	2.03	ppb
Beryllium	9-1	0.39	0.38	0.38	0.38	1.42	ppb
Bismuth	209-1				91		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.73	0.50	0.78	0.67	22.66	ppb
Cadmium	106-1	-1.73	-1.34	-2.24	-1.77		ppb
Cadmium	111-1	0.24	0.27	0.22	0.24	10.76	ppb
Calcium	43-1	4082.51	4090.47	4131.90	4101.63	0.65	ppb
Calcium	44-1	4196.42	4238.82	4355.63	4263.62	1.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34.35	34.14	33.54	34.01	1.23	ppb
Cobalt	59-2	20.04	20.21	19.71	19.99	1.28	ppb
Copper	63-2	101.23	102.68	100.43	101.45	1.13	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				92		%
Holmium	165-2				89		%
Indium	115-1				91		%
Indium	115-2				83		%
Iron	54-2	43456.19	44348.32	42844.82	43549.77	1.74	ppb
Iron	56-2	43621.67	43885.02	42514.48	43340.39	1.68	ppb
Iron	57-2	44207.07	45108.83	43623.25	44313.05	1.69	ppb
Krypton	83-1						cps
Lead	206-1	94.42	95.86	96.92	95.73	1.32	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	89.55	90.49	92.04	90.69	1.39	ppb
Lead	208-1	95.71	97.20	97.31	96.74	0.93	ppb
Lithium	6-1				88		%
Magnesium	24-2	4588.43	4646.71	4570.94	4602.03	0.86	ppb
Manganese	55-2	817.73	837.12	820.73	825.19	1.26	ppb
Molybdenum	94-1	4.55	4.65	4.58	4.59	1.11	ppb
Molybdenum	95-1	2.88	2.93	2.88	2.90	1.09	ppb
Molybdenum	96-1	3.15	3.26	3.24	3.22	1.75	ppb
Molybdenum	97-1	2.88	2.86	2.90	2.88	0.69	ppb
Molybdenum	98-1	2.86	2.89	2.87	2.87	0.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	22.85	23.53	23.02	23.14	1.53	ppb
Phosphorus	31-2	841.97	762.74	844.68	816.46	5.70	ppb
Potassium	39-2	1007.11	1015.90	1010.65	1011.22	0.44	ppb
Rhodium	103-1				90		%
Rhodium	103-2				89		%
Scandium	45-1				91		%
Scandium	45-2				84		%
Selenium	82-1	1.55	1.43	1.34	1.44	7.23	ppb
Selenium	77-2	12.39	12.38	8.41	11.06	20.72	ppb
Selenium	78-2	6.60	1.72	1.32	3.22	91.44	ppb
Silicon	28-1	205.77	205.50	213.52	208.26	2.19	ppb
Silver	107-1	0.51	0.50	0.46	0.49	4.57	ppb
Silver	109-1	0.48	0.52	0.48	0.49	4.50	ppb
Sodium	23-2	84.94	86.02	83.81	84.92	1.30	ppb
Strontium	86-1	59.18	60.61	59.83	59.87	1.20	ppb
Strontium	88-1	63.43	65.25	63.62	64.10	1.56	ppb
Sulfur	34-1	3413.08	3497.63	3660.93	3523.88	3.58	ppb
Terbium	159-1				92		%
Terbium	159-2				89		%
Thallium	203-1	0.05	0.05	0.05	0.05	3.85	ppb
Thallium	205-1	0.05	0.05	0.06	0.05	7.55	ppb
Tin	118-1	0.74	0.78	0.83	0.78	5.34	ppb
Titanium	47-1	329.56	331.29	339.63	333.49	1.61	ppb
Uranium	238-1	0.32	0.31	0.34	0.32	4.37	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	70.74	72.04	71.00	71.26	0.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				85		%
Zinc	66-2	148.63	150.36	149.63	149.54	0.58	ppb
Zirconium	90-1	1.19	1.23	1.22	1.21	1.99	ppb
Zirconium	91-1	1.47	1.49	1.46	1.47	1.10	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6841.87	7111.41	6987.21	6980.16	1.93	ppb
Antimony	121-1	0.16	0.16	0.17	0.16	3.95	ppb
Arsenic	75-2	8.39	8.33	7.65	8.12	5.07	ppb
Barium	135-1	71.70	72.41	73.64	72.58	1.35	ppb
Barium	137-1	71.66	73.31	74.04	73.01	1.67	ppb
Beryllium	9-1	0.25	0.26	0.26	0.26	1.81	ppb
Bismuth	209-1				90		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.23	0.20	0.12	0.18	29.41	ppb
Cadmium	106-1	-2.15	-1.62	-0.64	-1.47		ppb
Cadmium	111-1	0.01	0.04	0.07	0.04	81.97	ppb
Calcium	43-1	945.90	969.93	953.53	956.45	1.28	ppb
Calcium	44-1	932.04	953.89	951.18	945.70	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.13	13.79	13.96	13.96	1.23	ppb
Cobalt	59-2	11.58	11.49	11.43	11.50	0.64	ppb
Copper	63-2	25.70	26.41	26.57	26.22	1.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				87		%
Indium	115-1				90		%
Indium	115-2				81		%
Iron	54-2	23789.45	24539.22	24427.40	24252.02	1.67	ppb
Iron	56-2	23700.50	23902.90	24121.98	23908.46	0.88	ppb
Iron	57-2	22322.59	22635.91	22754.32	22570.94	0.99	ppb
Krypton	83-1						cps
Lead	206-1	4.77	4.78	4.65	4.73	1.58	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.46	4.50	4.41	4.46	0.96	ppb
Lead	208-1	4.56	4.60	4.58	4.58	0.35	ppb
Lithium	6-1				87		%
Magnesium	24-2	3861.88	3923.32	3910.91	3898.70	0.83	ppb
Manganese	55-2	899.40	915.41	911.64	908.82	0.92	ppb
Molybdenum	94-1	1.47	1.57	1.56	1.54	3.75	ppb
Molybdenum	95-1	0.97	0.96	0.98	0.97	1.03	ppb
Molybdenum	96-1	1.14	1.09	1.09	1.11	2.67	ppb
Molybdenum	97-1	1.00	0.98	0.97	0.99	1.53	ppb
Molybdenum	98-1	0.98	0.97	0.96	0.97	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.98	27.38	27.41	27.26	0.88	ppb
Phosphorus	31-2	240.73	225.60	253.87	240.07	5.89	ppb
Potassium	39-2	726.55	741.69	751.24	739.83	1.68	ppb
Rhodium	103-1				88		%
Rhodium	103-2				85		%
Scandium	45-1				89		%
Scandium	45-2				81		%
Selenium	82-1	0.41	0.65	0.20	0.42	52.81	ppb
Selenium	77-2	22.55	15.10	28.20	21.95	29.93	ppb
Selenium	78-2	4.34	4.02	5.21	4.52	13.51	ppb
Silicon	28-1	38.39	38.17	39.03	38.53	1.15	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.48	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.42	ppb
Sodium	23-2	-4.12	-4.04	-2.74	-3.63		ppb
Strontium	86-1	7.19	7.25	7.20	7.21	0.49	ppb
Strontium	88-1	7.00	7.14	7.14	7.09	1.12	ppb
Sulfur	34-1	-687.95	-618.03	-659.07	-655.02		ppb
Terbium	159-1				90		%
Terbium	159-2				86		%
Thallium	203-1	0.05	0.05	0.05	0.05	2.05	ppb
Thallium	205-1	0.05	0.04	0.05	0.05	8.82	ppb
Tin	118-1	0.35	0.35	0.34	0.35	2.74	ppb
Titanium	47-1	179.00	181.97	193.21	184.73	4.06	ppb
Uranium	238-1	0.34	0.34	0.35	0.34	2.02	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	31.04	31.09	31.18	31.10	0.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				84		%
Zinc	66-2	46.29	47.61	47.66	47.19	1.65	ppb
Zirconium	90-1	0.38	0.41	0.39	0.39	3.70	ppb
Zirconium	91-1	0.40	0.38	0.40	0.39	2.74	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6844.02	6935.33	6810.47	6863.27	0.94	ppb
Antimony	121-1	0.15	0.16	0.16	0.16	0.36	ppb
Arsenic	75-2	7.21	6.64	6.97	6.94	4.16	ppb
Barium	135-1	82.74	74.31	73.10	76.72	6.85	ppb
Barium	137-1	83.70	76.28	74.20	78.06	6.40	ppb
Beryllium	9-1	0.30	0.27	0.25	0.27	8.92	ppb
Bismuth	209-1				85		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.29	0.29	0.17	0.25	28.41	ppb
Cadmium	106-1	-2.53	-2.35	-2.09	-2.32		ppb
Cadmium	111-1	0.00	0.02	0.02	0.01	108.98	ppb
Calcium	43-1	1063.98	976.67	931.93	990.86	6.78	ppb
Calcium	44-1	1068.54	971.45	933.49	991.16	7.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13.97	13.94	13.59	13.83	1.53	ppb
Cobalt	59-2	11.19	11.69	11.29	11.39	2.33	ppb
Copper	63-2	25.60	25.94	25.59	25.71	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				86		%
Holmium	165-2				87		%
Indium	115-1				85		%
Indium	115-2				82		%
Iron	54-2	23940.23	24367.04	23409.75	23905.67	2.01	ppb
Iron	56-2	23612.54	23473.64	23237.99	23441.39	0.81	ppb
Iron	57-2	22231.98	22352.02	22065.49	22216.50	0.65	ppb
Krypton	83-1						cps
Lead	206-1	5.32	4.79	4.75	4.95	6.43	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.00	4.61	4.48	4.70	5.71	ppb
Lead	208-1	5.15	4.64	4.61	4.80	6.36	ppb
Lithium	6-1				83		%
Magnesium	24-2	3800.76	3842.54	3802.48	3815.26	0.62	ppb
Manganese	55-2	886.65	882.36	881.57	883.53	0.31	ppb
Molybdenum	94-1	1.60	1.38	1.41	1.46	8.13	ppb
Molybdenum	95-1	1.00	0.93	0.89	0.94	6.00	ppb
Molybdenum	96-1	1.11	0.98	1.04	1.05	6.21	ppb
Molybdenum	97-1	0.99	0.89	0.91	0.93	5.77	ppb
Molybdenum	98-1	0.99	0.89	0.86	0.91	7.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.72	26.63	27.04	26.80	0.80	ppb
Phosphorus	31-2	275.52	232.86	273.21	260.53	9.21	ppb
Potassium	39-2	736.59	745.29	737.00	739.62	0.66	ppb
Rhodium	103-1				83		%
Rhodium	103-2				86		%
Scandium	45-1				84		%
Scandium	45-2				82		%
Selenium	82-1	0.43	0.19	0.38	0.33	38.96	ppb
Selenium	77-2	36.62	32.54	21.32	30.16	26.26	ppb
Selenium	78-2	5.48	6.92	3.23	5.21	35.75	ppb
Silicon	28-1	87.60	80.91	75.71	81.41	7.32	ppb
Silver	107-1	0.01	0.02	0.01	0.01	22.07	ppb
Silver	109-1	0.01	0.01	0.01	0.01	25.48	ppb
Sodium	23-2	-5.80	-7.81	-6.77	-6.80		ppb
Strontium	86-1	8.07	7.16	6.98	7.40	7.90	ppb
Strontium	88-1	8.07	7.22	7.23	7.51	6.49	ppb
Sulfur	34-1	-97.35	-640.99	-825.92	-521.42		ppb
Terbium	159-1				86		%
Terbium	159-2				86		%
Thallium	203-1	0.05	0.05	0.04	0.05	2.12	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	6.69	ppb
Tin	118-1	0.36	0.31	0.33	0.34	7.79	ppb
Titanium	47-1	210.58	194.78	185.63	197.00	6.40	ppb
Uranium	238-1	0.38	0.36	0.34	0.36	5.62	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	30.77	31.32	30.33	30.80	1.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				85		%
Zinc	66-2	46.59	45.11	45.66	45.79	1.63	ppb
Zirconium	90-1	0.40	0.39	0.36	0.38	4.56	ppb
Zirconium	91-1	0.43	0.40	0.36	0.40	8.72	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1415.98	1461.55	1431.20	1436.24	1.62	ppb
Antimony	121-1	0.03	0.04	0.04	0.04	8.04	ppb
Arsenic	75-2	1.68	1.59	1.79	1.69	5.91	ppb
Barium	135-1	15.00	14.44	14.57	14.67	2.01	ppb
Barium	137-1	15.30	14.84	14.72	14.95	2.04	ppb
Beryllium	9-1	0.06	0.04	0.07	0.06	22.05	ppb
Bismuth	209-1				88		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.03	0.04	0.04	42.45	ppb
Cadmium	106-1	-2.71	-1.34	-3.07	-2.37		ppb
Cadmium	111-1	-0.05	-0.02	-0.05	-0.04		ppb
Calcium	43-1	200.52	204.06	196.83	200.47	1.80	ppb
Calcium	44-1	196.76	194.22	192.33	194.44	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.92	2.99	2.75	2.89	4.28	ppb
Cobalt	59-2	2.47	2.43	2.43	2.45	0.93	ppb
Copper	63-2	5.20	5.17	5.24	5.21	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				88		%
Indium	115-1				89		%
Indium	115-2				82		%
Iron	54-2	4656.83	4791.57	4662.19	4703.53	1.62	ppb
Iron	56-2	4886.45	5006.81	4878.76	4924.01	1.46	ppb
Iron	57-2	4613.49	4721.52	4688.94	4674.65	1.19	ppb
Krypton	83-1						cps
Lead	206-1	1.08	1.06	1.01	1.05	3.81	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.03	1.00	0.95	0.99	4.21	ppb
Lead	208-1	1.03	0.99	0.96	0.99	3.23	ppb
Lithium	6-1				85		%
Magnesium	24-2	789.64	803.01	800.99	797.88	0.90	ppb
Manganese	55-2	187.09	190.16	187.06	188.10	0.95	ppb
Molybdenum	94-1	0.34	0.34	0.30	0.33	7.41	ppb
Molybdenum	95-1	0.21	0.20	0.22	0.21	4.41	ppb
Molybdenum	96-1	0.27	0.23	0.24	0.24	7.26	ppb
Molybdenum	97-1	0.23	0.24	0.21	0.23	5.31	ppb
Molybdenum	98-1	0.22	0.19	0.21	0.21	7.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.80	5.88	5.40	5.69	4.52	ppb
Phosphorus	31-2	26.43	23.89	31.63	27.32	14.45	ppb
Potassium	39-2	135.24	141.80	140.10	139.05	2.45	ppb
Rhodium	103-1				87		%
Rhodium	103-2				86		%
Scandium	45-1				86		%
Scandium	45-2				79		%
Selenium	82-1	0.04	0.55	0.25	0.28	90.95	ppb
Selenium	77-2	7.48	10.11	6.21	7.93	25.05	ppb
Selenium	78-2	3.32	-0.14	0.25	1.14	165.97	ppb
Silicon	28-1	9.62	9.01	9.07	9.23	3.68	ppb
Silver	107-1	0.00	0.01	0.00	0.00	42.81	ppb
Silver	109-1	0.00	0.00	0.00	0.00	99.89	ppb
Sodium	23-2	-14.20	-12.52	-13.16	-13.29		ppb
Strontium	86-1	1.53	1.52	1.52	1.52	0.36	ppb
Strontium	88-1	1.55	1.51	1.48	1.51	2.19	ppb
Sulfur	34-1	-454.47	-654.84	-644.38	-584.56		ppb
Terbium	159-1				88		%
Terbium	159-2				87		%
Thallium	203-1	0.02	0.01	0.01	0.01	33.12	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	8.62	ppb
Tin	118-1	0.07	0.06	0.05	0.06	12.89	ppb
Titanium	47-1	37.61	37.26	37.35	37.41	0.49	ppb
Uranium	238-1	0.07	0.07	0.07	0.07	3.17	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.38	6.39	6.07	6.28	2.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				82		%
Zinc	66-2	10.35	9.38	9.72	9.82	5.02	ppb
Zirconium	90-1	0.09	0.07	0.08	0.08	9.36	ppb
Zirconium	91-1	0.08	0.08	0.11	0.09	15.27	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7405.55	7357.01	7325.93	7362.83	0.54	ppb
Antimony	121-1	4.12	4.11	4.19	4.14	1.01	ppb
Arsenic	75-2	9.26	8.17	8.43	8.62	6.58	ppb
Barium	135-1	169.68	172.50	175.50	172.56	1.69	ppb
Barium	137-1	170.24	171.86	175.36	172.49	1.52	ppb
Beryllium	9-1	2.36	2.30	2.45	2.37	3.18	ppb
Bismuth	209-1				84		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	2.24	2.28	1.86	2.13	10.81	ppb
Cadmium	106-1	-0.20	0.01	-0.05	-0.08		ppb
Cadmium	111-1	2.20	2.20	2.09	2.16	2.93	ppb
Calcium	43-1	1186.00	1183.63	1232.96	1200.86	2.32	ppb
Calcium	44-1	1126.12	1133.67	1174.13	1144.64	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.34	23.09	22.73	23.05	1.33	ppb
Cobalt	59-2	31.76	31.82	31.11	31.56	1.24	ppb
Copper	63-2	37.23	37.49	37.19	37.30	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				85		%
Holmium	165-2				88		%
Indium	115-1				83		%
Indium	115-2				82		%
Iron	54-2	25227.83	25221.66	24041.50	24830.33	2.75	ppb
Iron	56-2	24655.13	24624.35	24404.48	24561.32	0.56	ppb
Iron	57-2	23358.43	23257.11	23112.26	23242.60	0.53	ppb
Krypton	83-1						cps
Lead	206-1	5.84	5.92	5.92	5.89	0.82	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.49	5.48	5.57	5.51	0.82	ppb
Lead	208-1	5.67	5.68	5.70	5.68	0.27	ppb
Lithium	6-1				81		%
Magnesium	24-2	4123.66	4084.57	4045.75	4084.66	0.95	ppb
Manganese	55-2	898.91	897.47	886.32	894.23	0.77	ppb
Molybdenum	94-1	15.87	16.56	16.26	16.23	2.13	ppb
Molybdenum	95-1	18.59	18.91	18.77	18.76	0.87	ppb
Molybdenum	96-1	18.18	18.48	18.59	18.42	1.16	ppb
Molybdenum	97-1	18.55	18.82	19.14	18.84	1.57	ppb
Molybdenum	98-1	18.34	18.90	18.94	18.73	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	49.66	49.57	48.03	49.09	1.87	ppb
Phosphorus	31-2	255.32	277.64	269.16	267.37	4.22	ppb
Potassium	39-2	807.21	808.98	805.36	807.19	0.22	ppb
Rhodium	103-1				82		%
Rhodium	103-2				86		%
Scandium	45-1				83		%
Scandium	45-2				81		%
Selenium	82-1	4.88	3.95	4.29	4.37	10.84	ppb
Selenium	77-2	31.17	19.65	17.30	22.71	32.68	ppb
Selenium	78-2	10.61	9.04	6.53	8.73	23.59	ppb
Silicon	28-1	115.75	106.49	111.56	111.26	4.17	ppb
Silver	107-1	2.04	2.07	2.13	2.08	2.21	ppb
Silver	109-1	2.08	2.08	2.15	2.10	2.06	ppb
Sodium	23-2	-0.15	1.74	1.08	0.89	107.77	ppb
Strontium	86-1	387.83	390.50	397.05	391.80	1.21	ppb
Strontium	88-1	388.91	391.53	389.72	390.06	0.34	ppb
Sulfur	34-1	-391.52	-493.02	-295.37	-393.30		ppb
Terbium	159-1				84		%
Terbium	159-2				88		%
Thallium	203-1	1.98	1.99	2.09	2.02	2.96	ppb
Thallium	205-1	2.00	2.00	2.04	2.01	1.10	ppb
Tin	118-1	0.38	0.36	0.40	0.38	4.99	ppb
Titanium	47-1	205.72	214.49	210.87	210.36	2.09	ppb
Uranium	238-1	0.36	0.37	0.36	0.36	1.48	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.09	51.25	50.69	51.01	0.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				85		%
Zinc	66-2	69.27	71.01	69.44	69.91	1.37	ppb
Zirconium	90-1	0.46	0.35	0.34	0.38	18.22	ppb
Zirconium	91-1	0.34	0.57	0.33	0.41	32.32	ppb

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Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5275.22	5415.26	5646.05	5445.51	3.44	ppb
Antimony	121-1	4.18	4.05	4.17	4.13	1.63	ppb
Arsenic	75-2	46.00	45.88	48.14	46.67	2.72	ppb
Barium	135-1	183.22	181.30	181.38	181.97	0.60	ppb
Barium	137-1	186.86	183.84	183.40	184.70	1.02	ppb
Beryllium	9-1	0.54	0.54	0.56	0.54	2.28	ppb
Bismuth	209-1				93		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	7.45	7.25	7.20	7.30	1.85	ppb
Cadmium	106-1	6.26	5.33	4.58	5.39	15.67	ppb
Cadmium	111-1	6.85	6.82	6.79	6.82	0.49	ppb
Calcium	43-1	149639.73	151935.09	151444.02	151006.28	0.80	ppb
Calcium	44-1	146903.75	150396.72	150527.02	149275.83	1.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.70	23.24	23.86	23.27	2.51	ppb
Cobalt	59-2	6.76	6.90	7.00	6.89	1.80	ppb
Copper	63-2	439.04	450.90	467.39	452.44	3.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				93		%
Indium	115-1				95		%
Indium	115-2				89		%
Iron	54-2	13919.56	14233.74	14634.91	14262.74	2.51	ppb
Iron	56-2	14619.37	14791.25	15391.26	14933.96	2.71	ppb
Iron	57-2	13635.68	14090.99	14646.90	14124.52	3.59	ppb
Krypton	83-1						cps
Lead	206-1	458.42	450.12	457.80	455.45	1.01	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	437.89	427.79	434.74	433.47	1.19	ppb
Lead	208-1	442.10	432.87	437.35	437.44	1.05	ppb
Lithium	6-1				86		%
Magnesium	24-2	4979.64	5101.91	5292.04	5124.53	3.07	ppb
Manganese	55-2	470.03	482.53	492.72	481.76	2.36	ppb
Molybdenum	94-1	15.81	15.47	16.35	15.88	2.80	ppb
Molybdenum	95-1	2.64	2.63	2.63	2.63	0.23	ppb
Molybdenum	96-1	4.07	4.04	4.14	4.09	1.21	ppb
Molybdenum	97-1	2.67	2.70	2.71	2.70	0.77	ppb
Molybdenum	98-1	2.73	2.66	2.68	2.69	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.27	20.07	20.61	19.98	3.38	ppb
Phosphorus	31-2	2307.99	2328.01	2437.39	2357.80	2.95	ppb
Potassium	39-2	3775.91	3850.90	4019.17	3881.99	3.21	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	1.52	1.78	1.82	1.71	9.47	ppb
Selenium	77-2	22.31	22.63	17.36	20.77	14.22	ppb
Selenium	78-2	4.48	3.19	2.95	3.54	23.17	ppb
Silicon	28-1	560.11	582.42	569.08	570.53	1.97	ppb
Silver	107-1	7.30	7.15	7.24	7.23	1.04	ppb
Silver	109-1	7.32	7.21	7.23	7.25	0.78	ppb
Sodium	23-2	7600.86	7750.57	7983.41	7778.28	2.48	ppb
Strontium	86-1	478.58	473.34	483.97	478.63	1.11	ppb
Strontium	88-1	477.90	468.91	479.51	475.44	1.20	ppb
Sulfur	34-1	47670.35	48071.50	48178.90	47973.58	0.56	ppb
Terbium	159-1				96		%
Terbium	159-2				94		%
Thallium	203-1	0.19	0.19	0.19	0.19	1.27	ppb
Thallium	205-1	0.20	0.21	0.21	0.21	2.87	ppb
Tin	118-1	14.75	14.66	14.71	14.71	0.30	ppb
Titanium	47-1	200.32	204.42	203.69	202.81	1.08	ppb
Uranium	238-1	1.38	1.34	1.37	1.37	1.59	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	21.25	21.85	22.43	21.84	2.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				93		%
Zinc	66-2	1731.15	1797.72	1847.59	1792.15	3.26	ppb
Zirconium	90-1	7.39	7.41	7.45	7.41	0.40	ppb
Zirconium	91-1	7.31	7.43	7.48	7.40	1.18	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3792.49	3657.41	3560.38	3670.09	3.18	ppb
Antimony	121-1	0.27	0.24	0.26	0.26	5.49	ppb
Arsenic	75-2	2.42	2.49	2.50	2.47	1.68	ppb
Barium	135-1	32.08	31.85	32.49	32.14	1.01	ppb
Barium	137-1	32.50	32.17	32.60	32.43	0.69	ppb
Beryllium	9-1	0.09	0.09	0.09	0.09	2.20	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	1.68	1.67	1.32	1.55	13.23	ppb
Cadmium	106-1	0.63	-0.11	-1.03	-0.17		ppb
Cadmium	111-1	1.32	1.27	1.30	1.30	1.87	ppb
Calcium	43-1	25174.70	25497.45	26944.80	25872.32	3.64	ppb
Calcium	44-1	26207.48	26433.94	26723.31	26454.91	0.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.29	5.09	5.13	5.17	2.04	ppb
Cobalt	59-2	2.36	2.40	2.30	2.35	2.20	ppb
Copper	63-2	12.45	12.32	12.22	12.33	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				99		%
Holmium	165-2				94		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	7589.54	7473.55	7369.40	7477.50	1.47	ppb
Iron	56-2	7924.68	7754.28	7731.41	7803.46	1.35	ppb
Iron	57-2	7514.62	7327.21	7336.17	7392.67	1.43	ppb
Krypton	83-1						cps
Lead	206-1	2.09	2.08	2.13	2.10	1.30	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.01	1.97	2.01	2.00	1.13	ppb
Lead	208-1	2.05	2.04	2.06	2.05	0.37	ppb
Lithium	6-1				84		%
Magnesium	24-2	2944.02	2874.23	2837.19	2885.15	1.88	ppb
Manganese	55-2	831.92	816.03	811.21	819.72	1.32	ppb
Molybdenum	94-1	7.72	7.65	7.70	7.69	0.46	ppb
Molybdenum	95-1	1.82	1.80	1.81	1.81	0.71	ppb
Molybdenum	96-1	2.41	2.35	2.46	2.41	2.37	ppb
Molybdenum	97-1	1.81	1.73	1.83	1.79	2.83	ppb
Molybdenum	98-1	1.79	1.78	1.78	1.79	0.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.75	26.58	26.09	26.47	1.30	ppb
Phosphorus	31-2	876.53	967.35	918.15	920.68	4.94	ppb
Potassium	39-2	471.49	459.04	451.48	460.67	2.19	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				90		%
Selenium	82-1	0.73	0.90	0.38	0.67	39.57	ppb
Selenium	77-2	6.79	7.79	0.79	5.12	73.86	ppb
Selenium	78-2	0.53	2.22	1.85	1.53	58.09	ppb
Silicon	28-1	998.43	990.22	1000.72	996.46	0.55	ppb
Silver	107-1	0.07	0.06	0.06	0.06	17.15	ppb
Silver	109-1	0.07	0.05	0.05	0.06	24.61	ppb
Sodium	23-2	176.50	174.33	180.74	177.19	1.84	ppb
Strontium	86-1	41.46	40.95	41.00	41.14	0.68	ppb
Strontium	88-1	43.83	42.91	44.71	43.82	2.05	ppb
Sulfur	34-1	-56.57	-35.78	74.79	-5.85		ppb
Terbium	159-1				98		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.03	0.03	0.03	23.95	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	9.41	ppb
Tin	118-1	0.39	0.60	0.50	0.50	20.60	ppb
Titanium	47-1	86.98	87.95	88.40	87.78	0.83	ppb
Uranium	238-1	0.11	0.11	0.11	0.11	2.25	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	7.38	7.14	7.06	7.19	2.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				92		%
Zinc	66-2	55.99	54.07	55.12	55.06	1.75	ppb
Zirconium	90-1	3.39	3.37	3.37	3.38	0.37	ppb
Zirconium	91-1	3.40	3.40	3.41	3.40	0.13	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	53339.27	53925.85	53621.88	53629.00	0.55	ppb
Antimony	121-1	522.61	535.84	530.02	529.49	1.25	ppb
Arsenic	75-2	537.95	519.01	526.39	527.78	1.81	ppb
Barium	135-1	2625.32	2616.03	2656.97	2632.77	0.82	ppb
Barium	137-1	2596.18	2630.27	2641.26	2622.57	0.90	ppb
Beryllium	9-1	510.91	513.28	515.57	513.25	0.45	ppb
Bismuth	209-1				74		%
Bismuth	209-2				72		%
Bromine	81-1						cps
Cadmium	108-1	533.64	546.67	545.53	541.95	1.33	ppb
Cadmium	106-1	531.82	546.38	547.09	541.77	1.59	ppb
Cadmium	111-1	514.06	528.23	534.28	525.52	1.98	ppb
Calcium	43-1	256155.98	265955.22	261151.53	261087.58	1.88	ppb
Calcium	44-1	259556.56	266963.95	262932.68	263151.06	1.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	515.41	508.16	515.88	513.15	0.84	ppb
Cobalt	59-2	532.63	533.00	545.00	536.88	1.31	ppb
Copper	63-2	5253.47	5193.36	5230.55	5225.79	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				83		%
Holmium	165-2				81		%
Indium	115-1				77		%
Indium	115-2				71		%
Iron	54-2	138282.51	136448.40	136588.25	137106.39	0.74	ppb
Iron	56-2	138915.40	135701.98	137041.38	137219.59	1.18	ppb
Iron	57-2	137644.21	135225.47	136690.42	136520.03	0.89	ppb
Krypton	83-1						cps
Lead	206-1	2664.74	2761.43	2732.33	2719.50	1.82	ppb

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2646.43	2725.31	2690.67	2687.47	1.47	ppb
Lead	208-1	2647.16	2729.64	2711.57	2696.12	1.61	ppb
Lithium	6-1				75		%
Magnesium	24-2	271411.22	265227.27	269124.30	268587.60	1.16	ppb
Manganese	55-2	5571.06	5373.88	5439.76	5461.57	1.84	ppb
Molybdenum	94-1	5232.46	5470.92	5344.99	5349.46	2.23	ppb
Molybdenum	95-1	5203.35	5434.03	5371.20	5336.20	2.23	ppb
Molybdenum	96-1	5268.34	5476.86	5421.59	5388.93	2.00	ppb
Molybdenum	97-1	5245.49	5499.97	5395.09	5380.18	2.38	ppb
Molybdenum	98-1	5280.95	5390.10	5355.20	5342.09	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	528.26	520.70	524.05	524.34	0.72	ppb
Phosphorus	31-2	10662.65	10224.91	10305.50	10397.69	2.24	ppb
Potassium	39-2	131495.33	130889.24	130528.74	130971.10	0.37	ppb
Rhodium	103-1				73		%
Rhodium	103-2				70		%
Scandium	45-1				79		%
Scandium	45-2				73		%
Selenium	82-1	500.30	529.80	502.49	510.86	3.22	ppb
Selenium	77-2	495.54	559.39	540.24	531.72	6.16	ppb
Selenium	78-2	519.98	514.32	533.89	522.73	1.93	ppb
Silicon	28-1	722.12	737.94	736.82	732.30	1.21	ppb
Silver	107-1	481.66	501.82	504.51	496.00	2.52	ppb
Silver	109-1	490.07	505.73	500.41	498.73	1.60	ppb
Sodium	23-2	268305.24	267382.99	266207.61	267298.62	0.39	ppb
Strontium	86-1	532.81	542.81	539.68	538.44	0.95	ppb
Strontium	88-1	520.70	544.76	537.45	534.30	2.31	ppb
Sulfur	34-1	12089.51	12506.54	12324.96	12307.00	1.70	ppb
Terbium	159-1				82		%
Terbium	159-2				79		%
Thallium	203-1	540.18	554.61	557.63	550.80	1.69	ppb
Thallium	205-1	533.21	549.23	548.70	543.71	1.67	ppb
Tin	118-1	521.62	528.77	534.42	528.27	1.21	ppb
Titanium	47-1	5194.16	5393.60	5344.98	5310.91	1.96	ppb
Uranium	238-1	531.83	553.88	542.43	542.72	2.03	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	524.00	519.51	520.85	521.45	0.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				81		%
Yttrium	89-2				75		%
Zinc	66-2	5000.52	4934.76	4978.90	4971.39	0.67	ppb
Zirconium	90-1	523.84	543.44	538.18	535.15	1.90	ppb
Zirconium	91-1	529.41	558.22	550.78	546.14	2.74	ppb

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.59	1.78	1.40	1.26	48.09	ppb
Antimony	121-1	0.19	0.19	0.15	0.18	12.40	ppb
Arsenic	75-2	0.04	0.06	0.00	0.03	94.40	ppb
Barium	135-1	0.33	0.31	0.28	0.31	8.36	ppb
Barium	137-1	0.36	0.31	0.30	0.32	10.19	ppb
Beryllium	9-1	0.22	0.19	0.17	0.19	11.80	ppb
Bismuth	209-1				85		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.05	0.10	0.10	45.05	ppb
Cadmium	106-1	-2.31	-2.55	-3.07	-2.64		ppb
Cadmium	111-1	0.02	0.01	-0.02	0.00	1079.74	ppb
Calcium	43-1	14.15	10.22	9.53	11.30	22.04	ppb
Calcium	44-1	10.56	7.60	6.20	8.12	27.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.04	0.03	0.03	34.98	ppb
Cobalt	59-2	0.04	0.03	0.03	0.03	11.21	ppb
Copper	63-2	0.09	0.03	-0.03	0.03	175.98	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				84		%
Holmium	165-2				84		%
Indium	115-1				86		%
Indium	115-2				79		%
Iron	54-2	8.27	5.43	6.44	6.71	21.44	ppb
Iron	56-2	6.53	6.00	5.73	6.09	6.65	ppb
Iron	57-2	5.46	7.15	4.78	5.80	21.03	ppb
Krypton	83-1						cps
Lead	206-1	0.27	0.23	0.20	0.23	15.99	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.26	0.23	0.22	0.24	9.39	ppb
Lead	208-1	0.26	0.23	0.20	0.23	13.44	ppb
Lithium	6-1				81		%
Magnesium	24-2	9.09	8.90	8.23	8.74	5.19	ppb
Manganese	55-2	0.46	0.54	0.42	0.47	12.40	ppb
Molybdenum	94-1	0.46	0.38	0.36	0.40	13.41	ppb
Molybdenum	95-1	0.44	0.37	0.32	0.38	15.70	ppb
Molybdenum	96-1	0.46	0.39	0.31	0.38	19.38	ppb
Molybdenum	97-1	0.46	0.41	0.32	0.40	17.40	ppb
Molybdenum	98-1	0.44	0.36	0.30	0.37	19.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.08	-0.04	-0.02	-0.05		ppb
Phosphorus	31-2	-22.00	-27.51	-16.29	-21.94		ppb
Potassium	39-2	0.80	0.30	2.02	1.04	84.68	ppb
Rhodium	103-1				83		%
Rhodium	103-2				83		%
Scandium	45-1				81		%
Scandium	45-2				76		%
Selenium	82-1	0.10	0.19	0.48	0.26	76.85	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	0.68	0.28	0.14	429.28	ppb
Silicon	28-1	-1.00	-1.20	-0.80	-1.00		ppb
Silver	107-1	0.09	0.07	0.08	0.08	15.51	ppb
Silver	109-1	0.09	0.07	0.07	0.08	16.23	ppb
Sodium	23-2	11.01	9.78	8.42	9.73	13.31	ppb
Strontium	86-1	0.02	0.01	0.00	0.01	94.02	ppb
Strontium	88-1	0.03	0.02	0.02	0.02	16.06	ppb
Sulfur	34-1	-669.30	-793.73	-811.93	-758.32		ppb
Terbium	159-1				84		%
Terbium	159-2				84		%
Thallium	203-1	0.12	0.10	0.09	0.10	15.75	ppb
Thallium	205-1	0.11	0.10	0.09	0.10	12.16	ppb
Tin	118-1	0.07	0.06	0.05	0.06	11.48	ppb
Titanium	47-1	0.34	0.33	0.29	0.32	9.33	ppb
Uranium	238-1	0.03	0.02	0.02	0.02	23.76	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.02	0.02	0.02	35.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				84		%
Yttrium	89-2				79		%
Zinc	66-2	0.36	0.40	0.25	0.33	23.19	ppb
Zirconium	90-1	0.05	0.05	0.04	0.05	14.02	ppb
Zirconium	91-1	0.05	0.04	0.04	0.04	15.36	ppb

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	77	67	100	81	21.09	cps
Antimony	121-1	63	67	80	70	12.60	cps
Arsenic	75-2	0	10	3	4	114.60	cps
Barium	135-1	390	330	403	374	10.43	cps
Barium	137-1	607	693	533	611	13.11	cps
Beryllium	9-1	205	190	187	194	4.88	cps
Bismuth	209-1	8984071	7553327	9822281	8786560	13.06	cps
Bismuth	209-2	3401555	3321310	3258213	3327026	2.16	cps
Bromine	81-1	5741	6001	5938	5894	2.30	cps
Cadmium	108-1	37	27	30	31	16.37	cps
Cadmium	106-1	7185	5868	7619	6891	13.23	cps
Cadmium	111-1	1425	1182	1519	1375	12.67	cps
Calcium	43-1	407	390	423	407	4.10	cps
Calcium	44-1	9687	9326	9670	9561	2.13	cps
Carbon	12-1	2802983	2763957	2769367	2778769	0.76	cps
Carbon	12-2	18722	18942	19156	18940	1.15	cps
Chlorine	35-1	63137	63930	64459	63842	1.04	cps
Chlorine	35-2	237	267	253	252	5.96	cps
Chromium	52-2	623	563	583	590	5.18	cps
Cobalt	59-2	100	127	90	106	17.96	cps
Copper	63-2	3207	3374	3097	3226	4.32	cps
Dysprosium	156-1	143	77	113	111	30.05	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	63	53	73	63	15.79	cps
Erbium	164-2	10	23	17	17	39.99	cps
Gadolinium	160-1	63	27	70	53	43.75	cps
Gadolinium	160-2	7	7	7	7	0.00	cps
Holmium	165-1	14498610	12136272	15616701	14083861	12.62	cps
Holmium	165-2	4792681	4641287	4737377	4723781	1.62	cps
Indium	115-1	11193700	9739364	12373781	11102282	11.89	cps
Indium	115-2	1074744	1067054	1066728	1069509	0.42	cps
Iron	54-2	363	253	270	296	20.06	cps
Iron	56-2	4661	4674	4641	4659	0.36	cps
Iron	57-2	123	137	123	128	6.03	cps
Krypton	83-1	133	177	143	151	15.01	cps
Lead	206-1	1137	1160	1087	1128	3.32	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1057	977	920	984	6.98	cps
Lead	208-1	4657	4520	4294	4490	4.09	cps
Lithium	6-1	6494095	5737232	7201306	6477544	11.30	cps
Magnesium	24-2	547	493	433	491	11.55	cps
Manganese	55-2	210	140	160	170	21.21	cps
Molybdenum	94-1	260	233	360	284	23.48	cps
Molybdenum	95-1	167	137	130	144	13.52	cps
Molybdenum	96-1	230	207	193	210	8.84	cps
Molybdenum	97-1	93	87	83	88	5.80	cps
Molybdenum	98-1	213	177	197	196	9.39	cps
Neodymium	150-1	23	17	7	16	53.90	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1020	1097	1153	1090	6.14	cps
Phosphorus	31-2	43	43	50	46	8.45	cps
Potassium	39-2	6738	6411	6812	6654	3.20	cps
Rhodium	103-1	10500948	8825555	11426678	10251060	12.86	cps
Rhodium	103-2	3899012	3783581	3849865	3844153	1.51	cps
Scandium	45-1	8653620	7199905	9269183	8374236	12.69	cps
Scandium	45-2	148296	145696	148401	147464	1.04	cps
Selenium	82-1	0	-70	0	-23	-173.21	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	0	10	6	91.64	cps
Silicon	28-1	402866	404585	400939	402797	0.45	cps
Silver	107-1	80	123	130	111	24.43	cps
Silver	109-1	60	50	57	56	9.17	cps
Sodium	23-2	18645	18862	19520	19009	2.40	cps
Strontium	86-1	253	330	247	277	16.74	cps
Strontium	88-1	577	560	623	587	5.60	cps
Sulfur	34-1	387298	388378	386020	387232	0.30	cps
Terbium	159-1	14586481	12364203	16175157	14375280	13.32	cps
Terbium	159-2	4599222	4495917	4618547	4571229	1.44	cps
Thallium	203-1	257	203	160	207	23.43	cps
Thallium	205-1	527	440	470	479	9.19	cps
Tin	118-1	1277	1283	1327	1296	2.10	cps
Titanium	47-1	107	123	110	113	7.78	cps
Uranium	238-1	60	20	53	44	48.22	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:47:03	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	17	10	11	45.82	cps
Ytterbium	172-1	73	73	100	82	18.73	cps
Ytterbium	172-2	20	17	40	26	49.38	cps
Ytterbium	176-1	2027	1817	2250	2031	10.67	cps
Ytterbium	176-2	317	277	333	309	9.43	cps
Yttrium	89-1	20810130	17392621	22701487	20301413	13.25	cps
Yttrium	89-2	1392429	1372783	1385557	1383590	0.72	cps
Zinc	66-2	257	290	230	259	11.61	cps
Zirconium	90-1	637	567	710	638	11.24	cps
Zirconium	91-1	163	90	163	139	30.49	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1043	1110	1123	1092	3.92	cps
Antimony	121-1	21928	21637	21868	21811	0.70	cps
Arsenic	75-2	200	237	217	218	8.43	cps
Barium	135-1	28320	28667	29335	28774	1.79	cps
Barium	137-1	49466	49423	48831	49240	0.72	cps
Beryllium	9-1	4530	4726	4635	4631	2.12	cps
Bismuth	209-1	8867351	8730910	8737418	8778560	0.88	cps
Bismuth	209-2	3303077	3386968	3377645	3355897	1.37	cps
Bromine	81-1	5668	5851	5544	5688	2.71	cps
Cadmium	108-1	280	273	237	263	8.86	cps
Cadmium	106-1	7349	7119	6928	7132	2.95	cps
Cadmium	111-1	4391	4333	4184	4302	2.48	cps
Calcium	43-1	22698	23292	23202	23064	1.39	cps
Calcium	44-1	375707	379512	378283	377834	0.51	cps
Carbon	12-1	2807509	2749082	2785060	2780551	1.06	cps
Carbon	12-2	18889	18909	18495	18764	1.24	cps
Chlorine	35-1	56296	57440	56041	56592	1.32	cps
Chlorine	35-2	187	233	223	214	11.46	cps
Chromium	52-2	5364	5331	5371	5355	0.40	cps
Cobalt	59-2	4948	4841	4854	4881	1.19	cps
Copper	63-2	10130	10214	10257	10200	0.63	cps
Dysprosium	156-1	133	110	110	118	11.44	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	43	73	57	58	26.01	cps
Erbium	164-2	33	27	30	30	11.10	cps
Gadolinium	160-1	60	57	40	52	20.52	cps
Gadolinium	160-2	13	0	3	6	124.93	cps
Holmium	165-1	13987151	14013341	13972421	13990971	0.15	cps
Holmium	165-2	4649673	4684714	4640530	4658306	0.50	cps
Indium	115-1	11235188	11138564	11040957	11138236	0.87	cps
Indium	115-2	1041244	1040523	1045213	1042327	0.24	cps
Iron	54-2	5431	5488	5428	5449	0.62	cps
Iron	56-2	99279	97550	99279	98703	1.01	cps
Iron	57-2	2444	2637	2310	2464	6.67	cps
Krypton	83-1	127	133	127	129	2.99	cps
Lead	206-1	10187	10067	10371	10209	1.50	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9343	9140	8853	9112	2.70	cps
Lead	208-1	40962	40695	41306	40988	0.75	cps
Lithium	6-1	6675867	6584376	6498717	6586320	1.35	cps
Magnesium	24-2	94627	95339	95876	95281	0.66	cps
Manganese	55-2	1180	1317	1203	1233	5.93	cps
Molybdenum	94-1	24084	24325	24178	24196	0.50	cps
Molybdenum	95-1	28937	28379	28706	28674	0.98	cps
Molybdenum	96-1	32298	32027	32588	32304	0.87	cps
Molybdenum	97-1	17962	17955	17912	17943	0.15	cps
Molybdenum	98-1	45785	45244	45655	45561	0.62	cps
Neodymium	150-1	23	30	27	27	12.51	cps
Neodymium	150-2	7	7	3	6	34.70	cps
Nickel	60-2	2224	2247	2260	2244	0.83	cps
Phosphorus	31-2	147	120	117	128	12.87	cps
Potassium	39-2	56972	57022	57300	57098	0.31	cps
Rhodium	103-1	10380303	10265948	10205782	10284011	0.86	cps
Rhodium	103-2	3740454	3799561	3744200	3761405	0.88	cps
Scandium	45-1	8446861	8509751	8350218	8435610	0.95	cps
Scandium	45-2	145858	144245	145497	145200	0.58	cps
Selenium	82-1	917	903	987	936	4.79	cps
Selenium	77-2	23	30	23	26	15.07	cps
Selenium	78-2	63	83	80	76	14.18	cps
Silicon	28-1	456911	456435	457544	456963	0.12	cps
Silver	107-1	14791	14298	14544	14544	1.70	cps
Silver	109-1	13940	13630	13887	13819	1.20	cps
Sodium	23-2	200431	201836	201121	201129	0.35	cps
Strontium	86-1	4504	4297	4444	4415	2.41	cps
Strontium	88-1	34553	34813	34569	34645	0.42	cps
Sulfur	34-1	384127	387798	384883	385603	0.50	cps
Terbium	159-1	14591522	14270342	14313298	14391721	1.21	cps
Terbium	159-2	4531447	4474128	4526939	4510838	0.71	cps
Thallium	203-1	11435	11605	11849	11630	1.79	cps
Thallium	205-1	27553	28301	28027	27960	1.35	cps
Tin	118-1	48820	49322	49041	49061	0.51	cps
Titanium	47-1	9510	9703	9600	9604	1.01	cps
Uranium	238-1	36512	36118	35987	36206	0.75	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:53:49	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9500	9427	9113	9346	2.20	cps
Ytterbium	172-1	90	70	120	93	26.96	cps
Ytterbium	172-2	7	27	13	16	65.47	cps
Ytterbium	176-1	2134	1940	1913	1996	6.02	cps
Ytterbium	176-2	300	283	277	287	4.19	cps
Yttrium	89-1	20518031	20213284	20094833	20275382	1.08	cps
Yttrium	89-2	1341779	1352632	1354999	1349803	0.52	cps
Zinc	66-2	2077	2150	1853	2027	7.63	cps
Zirconium	90-1	20352	20872	20485	20570	1.31	cps
Zirconium	91-1	4611	4567	4561	4580	0.59	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	57118	57044	57911	57358	0.84	cps
Antimony	121-1	590516	599513	602378	597469	1.04	cps
Arsenic	75-2	11371	10531	11148	11017	3.95	cps
Barium	135-1	749616	758178	758325	755373	0.66	cps
Barium	137-1	1295048	1321135	1321360	1312514	1.15	cps
Beryllium	9-1	238306	239805	240251	239454	0.43	cps
Bismuth	209-1	8632581	8702375	8709880	8681612	0.49	cps
Bismuth	209-2	3294956	3260500	3374392	3309949	1.76	cps
Bromine	81-1	5454	5831	5541	5609	3.52	cps
Cadmium	108-1	12753	12756	13100	12869	1.55	cps
Cadmium	106-1	25136	24899	24959	24998	0.49	cps
Cadmium	111-1	154405	154443	155250	154699	0.31	cps
Calcium	43-1	240779	246228	243161	243389	1.12	cps
Calcium	44-1	3980136	4017540	3988571	3995416	0.49	cps
Carbon	12-1	2920796	2892928	2902707	2905477	0.49	cps
Carbon	12-2	20094	20571	20768	20478	1.69	cps
Chlorine	35-1	69285	70507	71328	70373	1.46	cps
Chlorine	35-2	277	303	273	284	5.78	cps
Chromium	52-2	133152	131793	132177	132374	0.53	cps
Cobalt	59-2	244727	244976	244993	244899	0.06	cps
Copper	63-2	1896865	1876483	1907901	1893750	0.84	cps
Dysprosium	156-1	113	100	110	108	6.44	cps
Dysprosium	156-2	13	10	7	10	33.30	cps
Erbium	164-1	70	107	83	87	21.42	cps
Erbium	164-2	30	33	27	30	11.10	cps
Gadolinium	160-1	43	53	60	52	16.07	cps
Gadolinium	160-2	10	7	20	12	56.76	cps
Holmium	165-1	13824061	14095126	14237187	14052125	1.49	cps
Holmium	165-2	4645776	4662862	4777257	4695298	1.52	cps
Indium	115-1	10918119	11043308	11107672	11023033	0.87	cps
Indium	115-2	1043387	1056672	1055270	1051776	0.69	cps
Iron	54-2	270984	272038	273305	272109	0.43	cps
Iron	56-2	5102536	5066307	5031686	5066843	0.70	cps
Iron	57-2	123031	123288	124017	123445	0.41	cps
Krypton	83-1	153	140	130	141	8.30	cps
Lead	206-1	2591235	2624426	2599675	2605112	0.66	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2268512	2255458	2266076	2263349	0.31	cps
Lead	208-1	10290663	10354340	10449926	10364976	0.77	cps
Lithium	6-1	6613423	6595842	6494471	6567912	0.98	cps
Magnesium	24-2	1010005	1003302	1011679	1008329	0.44	cps
Manganese	55-2	564966	567501	564098	565521	0.31	cps
Molybdenum	94-1	2238436	2252994	2300890	2264107	1.44	cps
Molybdenum	95-1	3190685	3250458	3249052	3230065	1.06	cps
Molybdenum	96-1	3470282	3563270	3526012	3519855	1.33	cps
Molybdenum	97-1	1982139	1987716	2008885	1992913	0.71	cps
Molybdenum	98-1	5121934	5184166	5140358	5148819	0.62	cps
Neodymium	150-1	90	103	77	90	14.81	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	68886	68641	67606	68378	0.99	cps
Phosphorus	31-2	2507	2657	2540	2568	3.07	cps
Potassium	39-2	280499	277872	277474	278615	0.59	cps
Rhodium	103-1	9968193	10001491	10200099	10056594	1.25	cps
Rhodium	103-2	3751936	3761528	3862169	3791878	1.61	cps
Scandium	45-1	8301461	8412995	8415718	8376725	0.78	cps
Scandium	45-2	145864	144872	146201	145646	0.47	cps
Selenium	82-1	10191	10060	9860	10037	1.66	cps
Selenium	77-2	153	173	177	168	7.52	cps
Selenium	78-2	610	630	573	604	4.75	cps
Silicon	28-1	2817673	2909944	2828107	2851908	1.77	cps
Silver	107-1	803581	814306	820738	812875	1.07	cps
Silver	109-1	760700	768158	784624	771161	1.59	cps
Sodium	23-2	2059213	2048796	2064801	2057603	0.39	cps
Strontium	86-1	221791	224090	226118	224000	0.97	cps
Strontium	88-1	1999844	2006155	1987848	1997949	0.47	cps
Sulfur	34-1	452803	453823	453869	453498	0.13	cps
Terbium	159-1	14183560	14445991	14413697	14347750	1.00	cps
Terbium	159-2	4484730	4613802	4504293	4534275	1.53	cps
Thallium	203-1	627646	635013	641716	634792	1.11	cps
Thallium	205-1	1490641	1518913	1504283	1504612	0.94	cps
Tin	118-1	516846	524758	522764	521456	0.79	cps
Titanium	47-1	1006901	1019898	1020961	1015920	0.77	cps
Uranium	238-1	2056593	2050237	2070353	2059061	0.50	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 09:57:11	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	102181	100576	102822	101860	1.14	cps
Ytterbium	172-1	110	57	100	89	31.89	cps
Ytterbium	172-2	23	53	27	34	47.73	cps
Ytterbium	176-1	4638	4491	4654	4594	1.96	cps
Ytterbium	176-2	1153	1220	1343	1239	7.78	cps
Yttrium	89-1	20077909	20250323	20520120	20282784	1.10	cps
Yttrium	89-2	1350446	1366281	1373238	1363322	0.86	cps
Zinc	66-2	193711	192857	192465	193011	0.33	cps
Zirconium	90-1	1060732	1078660	1089068	1076153	1.33	cps
Zirconium	91-1	236104	239014	241754	238957	1.18	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143041	143469	143917	143476	0.31	cps
Antimony	121-1	1466885	1482219	1552974	1500693	3.06	cps
Arsenic	75-2	27310	27363	27741	27471	0.85	cps
Barium	135-1	1972655	1987121	1946500	1968759	1.05	cps
Barium	137-1	3369346	3427359	3330375	3375693	1.45	cps
Beryllium	9-1	585939	585982	585401	585774	0.06	cps
Bismuth	209-1	8781374	8682048	8892583	8785335	1.20	cps
Bismuth	209-2	3144814	3233417	3283838	3220690	2.19	cps
Bromine	81-1	5665	5801	5601	5689	1.80	cps
Cadmium	108-1	31610	32435	32699	32248	1.76	cps
Cadmium	106-1	50512	51037	51476	51008	0.95	cps
Cadmium	111-1	373761	375469	376977	375402	0.43	cps
Calcium	43-1	599905	603782	606785	603491	0.57	cps
Calcium	44-1	9852868	9919326	9916054	9896083	0.38	cps
Carbon	12-1	2944021	2962795	3035296	2980704	1.62	cps
Carbon	12-2	20615	20334	21125	20691	1.94	cps
Chlorine	35-1	73278	74403	74842	74174	1.09	cps
Chlorine	35-2	323	307	360	330	8.27	cps
Chromium	52-2	324183	325040	329754	326326	0.92	cps
Cobalt	59-2	610054	605200	609707	608321	0.45	cps
Copper	63-2	4700179	4695609	4754217	4716668	0.69	cps
Dysprosium	156-1	120	173	143	146	18.37	cps
Dysprosium	156-2	17	10	23	17	39.99	cps
Erbium	164-1	107	97	113	106	7.95	cps
Erbium	164-2	40	53	37	43	20.34	cps
Gadolinium	160-1	77	43	60	60	27.78	cps
Gadolinium	160-2	13	20	13	16	24.76	cps
Holmium	165-1	14153769	14420352	14256526	14276882	0.94	cps
Holmium	165-2	4488010	4551220	4809656	4616295	3.69	cps
Indium	115-1	11153478	11048112	11137463	11113018	0.51	cps
Indium	115-2	995955	1028712	1062959	1029209	3.26	cps
Iron	54-2	673705	672361	675382	673816	0.22	cps
Iron	56-2	12564254	12617691	12598301	12593415	0.21	cps
Iron	57-2	308417	305137	310603	308052	0.89	cps
Krypton	83-1	117	120	170	136	22.04	cps
Lead	206-1	6346488	6315818	6403617	6355308	0.70	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5616723	5582818	5614622	5604721	0.34	cps
Lead	208-1	25567289	25489580	25811177	25622682	0.65	cps
Lithium	6-1	6624378	6415103	6428490	6489324	1.81	cps
Magnesium	24-2	2586060	2595147	2538995	2573401	1.17	cps
Manganese	55-2	1520885	1491204	1476849	1496313	1.50	cps
Molybdenum	94-1	5528388	5533338	5611433	5557720	0.84	cps
Molybdenum	95-1	8130252	8053106	7955986	8046448	1.09	cps
Molybdenum	96-1	8661887	8758198	8714919	8711668	0.55	cps
Molybdenum	97-1	4926725	4900868	4951558	4926384	0.51	cps
Molybdenum	98-1	12761514	12929653	13000215	12897127	0.95	cps
Neodymium	150-1	180	207	233	207	12.90	cps
Neodymium	150-2	20	7	20	16	49.47	cps
Nickel	60-2	165217	165574	168619	166470	1.12	cps
Phosphorus	31-2	6485	6448	6442	6458	0.36	cps
Potassium	39-2	685214	680470	692642	686109	0.89	cps
Rhodium	103-1	10209953	10029298	10139759	10126337	0.90	cps
Rhodium	103-2	3596616	3639796	3813494	3683302	3.12	cps
Scandium	45-1	8737323	8532823	8555981	8608709	1.30	cps
Scandium	45-2	138650	144267	149267	144061	3.69	cps
Selenium	82-1	24879	25343	25874	25365	1.96	cps
Selenium	77-2	463	433	453	450	3.40	cps
Selenium	78-2	1437	1477	1523	1479	2.93	cps
Silicon	28-1	6388489	6380549	6395262	6388100	0.12	cps
Silver	107-1	2105592	2091763	2117216	2104857	0.61	cps
Silver	109-1	2006719	2016655	2058212	2027196	1.35	cps
Sodium	23-2	5055477	4963187	5049586	5022750	1.03	cps
Strontium	86-1	553269	559467	559166	557301	0.63	cps
Strontium	88-1	4898506	4990571	4923320	4937466	0.96	cps
Sulfur	34-1	565431	563182	562691	563768	0.26	cps
Terbium	159-1	14671396	14434368	14676763	14594176	0.95	cps
Terbium	159-2	4346972	4507778	4637453	4497401	3.24	cps
Thallium	203-1	1543977	1570706	1579288	1564657	1.18	cps
Thallium	205-1	3912195	3921611	3866848	3900218	0.75	cps
Tin	118-1	1277560	1290853	1298068	1288827	0.81	cps
Titanium	47-1	2574568	2660101	2584606	2606425	1.79	cps
Uranium	238-1	5026996	5126206	5076288	5076496	0.98	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:00:22	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	254299	254818	255472	254863	0.23	cps
Ytterbium	172-1	83	83	87	84	2.28	cps
Ytterbium	172-2	20	33	57	37	50.62	cps
Ytterbium	176-1	9050	8840	9283	9058	2.45	cps
Ytterbium	176-2	2414	2610	2630	2551	4.69	cps
Yttrium	89-1	20774736	20491732	20680626	20649031	0.70	cps
Yttrium	89-2	1362801	1344096	1436951	1381283	3.56	cps
Zinc	66-2	478888	479666	480853	479803	0.21	cps
Zirconium	90-1	2786283	2802284	2797669	2795412	0.29	cps
Zirconium	91-1	591311	597659	600564	596511	0.79	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	280636	284635	280739	282003	0.81	cps
Antimony	121-1	3101821	3154918	3101501	3119413	0.99	cps
Arsenic	75-2	55525	55305	55107	55312	0.38	cps
Barium	135-1	3981776	3934862	3912274	3942971	0.90	cps
Barium	137-1	6815054	6786012	6703948	6768338	0.85	cps
Beryllium	9-1	1180602	1210258	1187811	1192890	1.30	cps
Bismuth	209-1	8693267	8798788	8663149	8718401	0.82	cps
Bismuth	209-2	3240986	3298109	3254981	3264692	0.91	cps
Bromine	81-1	6101	5808	5938	5949	2.47	cps
Cadmium	108-1	63626	63378	63918	63640	0.42	cps
Cadmium	106-1	93913	95168	96481	95187	1.35	cps
Cadmium	111-1	739174	754681	750607	748154	1.07	cps
Calcium	43-1	1226277	1210891	1267682	1234950	2.38	cps
Calcium	44-1	19788075	19827496	19960229	19858600	0.45	cps
Carbon	12-1	3009750	3056878	3090576	3052401	1.33	cps
Carbon	12-2	21439	21366	21663	21489	0.72	cps
Chlorine	35-1	78582	80076	81182	79947	1.63	cps
Chlorine	35-2	307	290	323	307	5.43	cps
Chromium	52-2	655473	646514	650165	650717	0.69	cps
Cobalt	59-2	1205459	1206844	1208121	1206808	0.11	cps
Copper	63-2	9397752	9277582	9241875	9305737	0.88	cps
Dysprosium	156-1	200	183	170	184	8.15	cps
Dysprosium	156-2	7	17	10	11	45.82	cps
Erbium	164-1	110	107	137	118	13.96	cps
Erbium	164-2	40	40	33	38	10.19	cps
Gadolinium	160-1	83	37	57	59	39.75	cps
Gadolinium	160-2	20	10	13	14	35.26	cps
Holmium	165-1	14425788	14313572	14177516	14305625	0.87	cps
Holmium	165-2	4718166	4705864	4705938	4709989	0.15	cps
Indium	115-1	11113729	11134423	11037507	11095219	0.46	cps
Indium	115-2	1044625	1044155	1033310	1040697	0.62	cps
Iron	54-2	1390644	1339665	1335128	1355146	2.27	cps
Iron	56-2	24863492	24758291	25015310	24879031	0.52	cps
Iron	57-2	607263	605725	609852	607614	0.34	cps
Krypton	83-1	173	150	157	160	7.51	cps
Lead	206-1	12732046	12642613	12736551	12703736	0.42	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10957115	10944919	11081022	10994352	0.68	cps
Lead	208-1	50678052	50650544	51141096	50823230	0.54	cps
Lithium	6-1	6415177	6448950	6333754	6399293	0.93	cps
Magnesium	24-2	5039490	5060097	5021023	5040203	0.39	cps
Manganese	55-2	2979551	2966802	2956264	2967539	0.39	cps
Molybdenum	94-1	11108296	11085731	11182282	11125436	0.45	cps
Molybdenum	95-1	16159867	16244850	16214292	16206336	0.27	cps
Molybdenum	96-1	17393025	17845912	17560382	17599773	1.30	cps
Molybdenum	97-1	9735720	9882183	9807278	9808394	0.75	cps
Molybdenum	98-1	25805191	25863003	25791170	25819788	0.15	cps
Neodymium	150-1	420	383	483	429	11.80	cps
Neodymium	150-2	17	10	7	11	45.82	cps
Nickel	60-2	326445	327343	327928	327239	0.23	cps
Phosphorus	31-2	12525	12816	12252	12531	2.25	cps
Potassium	39-2	1411586	1421489	1398656	1410577	0.81	cps
Rhodium	103-1	10127802	10016715	9919844	10021454	1.04	cps
Rhodium	103-2	3764311	3720239	3699288	3727946	0.89	cps
Scandium	45-1	8544332	8534241	8425879	8501484	0.77	cps
Scandium	45-2	146844	147794	145848	146829	0.66	cps
Selenium	82-1	49481	50046	50140	49889	0.71	cps
Selenium	77-2	837	737	837	803	7.19	cps
Selenium	78-2	2514	2900	2580	2665	7.76	cps
Silicon	28-1	12531872	12451332	12562828	12515344	0.46	cps
Silver	107-1	4188577	4211535	4198978	4199697	0.27	cps
Silver	109-1	3943149	4022995	3974596	3980247	1.01	cps
Sodium	23-2	10072039	10028767	9951928	10017578	0.61	cps
Strontium	86-1	1107349	1121819	1120696	1116622	0.72	cps
Strontium	88-1	9840416	9922135	9896854	9886468	0.42	cps
Sulfur	34-1	755801	760039	756566	757469	0.30	cps
Terbium	159-1	14595511	14775059	14680988	14683853	0.61	cps
Terbium	159-2	4539056	4607981	4463817	4536952	1.59	cps
Thallium	203-1	3247439	3266516	3317941	3277299	1.11	cps
Thallium	205-1	7654733	7719592	7690839	7688388	0.42	cps
Tin	118-1	2679318	2718877	2718948	2705714	0.84	cps
Titanium	47-1	5141165	5155377	5189676	5162073	0.48	cps
Uranium	238-1	9976644	10141577	10238489	10118903	1.31	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:03:22	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	508088	508357	508827	508424	0.07	cps
Ytterbium	172-1	143	100	120	121	17.91	cps
Ytterbium	172-2	57	37	30	41	33.76	cps
Ytterbium	176-1	15776	16257	16223	16085	1.67	cps
Ytterbium	176-2	4984	5158	4824	4989	3.34	cps
Yttrium	89-1	20624986	20759111	20610693	20664930	0.40	cps
Yttrium	89-2	1386016	1376542	1357013	1373190	1.08	cps
Zinc	66-2	947939	947177	945330	946815	0.14	cps
Zirconium	90-1	5573017	5675679	5589870	5612855	0.98	cps
Zirconium	91-1	1188491	1189731	1202083	1193435	0.63	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	560053	556358	559352	558588	0.35	cps
Antimony	121-1	6070133	6169274	6149797	6129735	0.86	cps
Arsenic	75-2	110660	109125	109329	109705	0.76	cps
Barium	135-1	7805204	7839714	7851115	7832011	0.31	cps
Barium	137-1	13446975	13521525	13397843	13455448	0.46	cps
Beryllium	9-1	2301786	2286586	2326791	2305054	0.88	cps
Bismuth	209-1	8636939	8666471	8468172	8590527	1.25	cps
Bismuth	209-2	3141187	3197739	3207812	3182246	1.13	cps
Bromine	81-1	5818	5935	6402	6051	5.10	cps
Cadmium	108-1	124731	123494	124711	124312	0.57	cps
Cadmium	106-1	180725	184310	179852	181629	1.30	cps
Cadmium	111-1	1503325	1465511	1460621	1476486	1.58	cps
Calcium	43-1	2414875	2497190	2489675	2467247	1.84	cps
Calcium	44-1	39477451	39841602	39818824	39712626	0.51	cps
Carbon	12-1	3090642	3124399	3173765	3129602	1.34	cps
Carbon	12-2	23135	22317	22421	22624	1.97	cps
Chlorine	35-1	86215	88756	91047	88673	2.73	cps
Chlorine	35-2	467	377	417	420	10.74	cps
Chromium	52-2	1389333	1294258	1290442	1324678	4.23	cps
Cobalt	59-2	2468983	2480464	2494306	2481251	0.51	cps
Copper	63-2	18395935	18302923	18082393	18260417	0.88	cps
Dysprosium	156-1	280	247	280	269	7.16	cps
Dysprosium	156-2	17	10	13	13	25.01	cps
Erbium	164-1	200	150	143	164	18.83	cps
Erbium	164-2	70	57	50	59	17.29	cps
Gadolinium	160-1	113	133	120	122	8.33	cps
Gadolinium	160-2	23	23	13	20	28.87	cps
Holmium	165-1	14436036	14561991	14272964	14423664	1.00	cps
Holmium	165-2	4674259	4677880	4758268	4703469	1.01	cps
Indium	115-1	11060232	10958490	10793310	10937344	1.23	cps
Indium	115-2	1010718	1031221	1025838	1022593	1.04	cps
Iron	54-2	2753193	2758645	2748677	2753505	0.18	cps
Iron	56-2	49800083	49486681	49232654	49506473	0.57	cps
Iron	57-2	1204626	1202799	1202301	1203242	0.10	cps
Krypton	83-1	177	150	120	149	19.04	cps
Lead	206-1	25106638	25048426	25080610	25078558	0.12	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	21534592	21833215	21897405	21755071	0.89	cps
Lead	208-1	99776949	99786452	100444678	100002693	0.38	cps
Lithium	6-1	6398911	6352899	6242211	6331340	1.27	cps
Magnesium	24-2	10018188	9997644	9972500	9996111	0.23	cps
Manganese	55-2	5865084	5786801	5835588	5829157	0.68	cps
Molybdenum	94-1	22142410	22216155	22366343	22241636	0.51	cps
Molybdenum	95-1	32174310	32214434	32647330	32345358	0.81	cps
Molybdenum	96-1	35185788	35060608	35375995	35207464	0.45	cps
Molybdenum	97-1	19636561	19619481	19546851	19600964	0.24	cps
Molybdenum	98-1	51887441	51417963	51555211	51620205	0.47	cps
Neodymium	150-1	780	783	717	760	4.94	cps
Neodymium	150-2	33	20	43	32	36.33	cps
Nickel	60-2	643206	642680	642326	642737	0.07	cps
Phosphorus	31-2	24985	24447	25416	24949	1.94	cps
Potassium	39-2	2831831	2800247	2830952	2821010	0.64	cps
Rhodium	103-1	9988162	10144990	9828657	9987269	1.58	cps
Rhodium	103-2	3601377	3707952	3680507	3663279	1.51	cps
Scandium	45-1	8626042	8767891	8474846	8622926	1.70	cps
Scandium	45-2	146111	146955	149437	147501	1.17	cps
Selenium	82-1	98655	99098	99339	99031	0.35	cps
Selenium	77-2	1713	1553	1573	1613	5.40	cps
Selenium	78-2	5511	5428	5401	5447	1.05	cps
Silicon	28-1	22657041	22617344	22460260	22578215	0.46	cps
Silver	107-1	8155699	8191579	8094943	8147407	0.60	cps
Silver	109-1	7644995	7770709	7796037	7737247	1.05	cps
Sodium	23-2	19945196	19852991	19984847	19927678	0.34	cps
Strontium	86-1	2344394	2348529	2301098	2331340	1.13	cps
Strontium	88-1	19693048	19571294	19590686	19618342	0.33	cps
Sulfur	34-1	1016189	1006905	1001883	1008326	0.72	cps
Terbium	159-1	14796528	15021244	14592049	14803273	1.45	cps
Terbium	159-2	4479730	4520060	4527742	4509177	0.57	cps
Thallium	203-1	6468804	6454242	6415991	6446345	0.42	cps
Thallium	205-1	15230930	15147181	15093411	15157174	0.46	cps
Tin	118-1	5247043	5318599	5245037	5270226	0.80	cps
Titanium	47-1	10336733	10392294	10385369	10371465	0.29	cps
Uranium	238-1	20323386	20236616	20402120	20320707	0.41	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:06:18	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1015628	1020003	1018264	1017965	0.22	cps
Ytterbium	172-1	143	153	150	149	3.42	cps
Ytterbium	172-2	40	67	53	53	25.00	cps
Ytterbium	176-1	29346	29229	29907	29494	1.23	cps
Ytterbium	176-2	9527	9157	9353	9346	1.98	cps
Yttrium	89-1	21140912	20741546	20522883	20801780	1.51	cps
Yttrium	89-2	1366633	1389804	1424800	1393746	2.10	cps
Zinc	66-2	1950464	1959117	1974139	1961240	0.61	cps
Zirconium	90-1	11123407	11063119	11214443	11133657	0.68	cps
Zirconium	91-1	2496028	2522995	2545744	2521589	0.99	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1051593	1059724	1067075	1059464	0.73	cps
Antimony	121-1	11794492	11850361	11937152	11860668	0.61	cps
Arsenic	75-2	207609	210877	212116	210201	1.11	cps
Barium	135-1	15273670	15224676	15337867	15278738	0.37	cps
Barium	137-1	26383185	26416579	26151221	26316995	0.55	cps
Beryllium	9-1	4250622	4330732	4321844	4301066	1.02	cps
Bismuth	209-1	8303254	8427636	8431017	8387302	0.87	cps
Bismuth	209-2	3047775	3100838	3053274	3067296	0.95	cps
Bromine	81-1	6325	6145	6418	6296	2.21	cps
Cadmium	108-1	237953	240512	240867	239777	0.66	cps
Cadmium	106-1	339075	343599	340826	341167	0.67	cps
Cadmium	111-1	2914202	2964434	2991237	2956624	1.32	cps
Calcium	43-1	4744990	4784101	4843383	4790825	1.03	cps
Calcium	44-1	76576486	77874522	77041301	77164103	0.85	cps
Carbon	12-1	3142512	3233993	3252337	3209614	1.83	cps
Carbon	12-2	24644	24647	24437	24576	0.49	cps
Chlorine	35-1	92527	96220	97465	95404	2.69	cps
Chlorine	35-2	443	427	527	466	11.51	cps
Chromium	52-2	2575037	2616686	2592459	2594727	0.81	cps
Cobalt	59-2	4664274	4664489	4657121	4661961	0.09	cps
Copper	63-2	33349683	33622186	33799621	33590497	0.67	cps
Dysprosium	156-1	420	497	403	440	11.31	cps
Dysprosium	156-2	40	40	33	38	10.19	cps
Erbium	164-1	220	233	203	219	6.87	cps
Erbium	164-2	93	70	63	76	20.85	cps
Gadolinium	160-1	160	190	197	182	10.72	cps
Gadolinium	160-2	40	53	43	46	15.23	cps
Holmium	165-1	14418736	14367679	14560284	14448899	0.69	cps
Holmium	165-2	4667498	4710131	4595348	4657659	1.25	cps
Indium	115-1	10787613	10702795	10833924	10774777	0.62	cps
Indium	115-2	975462	1003795	991446	990234	1.43	cps
Iron	54-2	5186900	5192510	5206900	5195437	0.20	cps
Iron	56-2	93652632	93447645	93959405	93686561	0.27	cps
Iron	57-2	2386790	2365435	2422628	2391618	1.21	cps
Krypton	83-1	170	230	223	208	15.83	cps
Lead	206-1	48129248	48626253	48479298	48411599	0.53	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	42165497	41615218	42237473	42006062	0.81	cps
Lead	208-1	192872863	192820955	192774125	192822648	0.03	cps
Lithium	6-1	6184670	6232508	6169740	6195639	0.53	cps
Magnesium	24-2	18726645	19213864	19114254	19018254	1.35	cps
Manganese	55-2	10896294	10979332	11068832	10981486	0.79	cps
Molybdenum	94-1	43352161	43852124	43972914	43725733	0.75	cps
Molybdenum	95-1	62787854	63379676	63603909	63257146	0.67	cps
Molybdenum	96-1	67510457	68718537	69194751	68474582	1.27	cps
Molybdenum	97-1	38238519	38765359	38988338	38664072	1.00	cps
Molybdenum	98-1	101168658	101967608	101679222	101605163	0.40	cps
Neodymium	150-1	1433	1483	1503	1473	2.45	cps
Neodymium	150-2	53	47	57	52	9.75	cps
Nickel	60-2	1171403	1186830	1197344	1185192	1.10	cps
Phosphorus	31-2	45969	47561	47879	47136	2.17	cps
Potassium	39-2	5241296	5377445	5440095	5352945	1.90	cps
Rhodium	103-1	9620195	9807315	9739015	9722175	0.97	cps
Rhodium	103-2	3548869	3609078	3483111	3547019	1.78	cps
Scandium	45-1	8586647	8704089	8572668	8621135	0.84	cps
Scandium	45-2	146110	149410	147707	147742	1.12	cps
Selenium	82-1	187640	188969	190864	189158	0.86	cps
Selenium	77-2	3184	3057	2977	3073	3.39	cps
Selenium	78-2	10077	10617	10804	10500	3.60	cps
Silicon	28-1	49421941	49838343	48675196	49311826	1.20	cps
Silver	107-1	15526963	15448788	15418228	15464660	0.36	cps
Silver	109-1	14463343	14694778	14761641	14639921	1.07	cps
Sodium	23-2	37676629	38324972	37756981	37919527	0.93	cps
Strontium	86-1	4483566	4554265	4512198	4516677	0.79	cps
Strontium	88-1	38284510	38329434	38671227	38428390	0.55	cps
Sulfur	34-1	1608261	1595747	1578464	1594157	0.94	cps
Terbium	159-1	14702493	14698123	14827408	14742675	0.50	cps
Terbium	159-2	4463617	4578546	4544823	4528995	1.30	cps
Thallium	203-1	12268746	12388640	12304045	12320477	0.50	cps
Thallium	205-1	29216910	29689717	29491111	29465913	0.81	cps
Tin	118-1	10151992	10192135	10206067	10183398	0.28	cps
Titanium	47-1	19949236	20285560	20219822	20151540	0.88	cps
Uranium	238-1	39279727	39681695	39095039	39352154	0.76	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:09:07	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2006711	2044043	2064400	2038385	1.44	cps
Ytterbium	172-1	253	263	243	253	3.95	cps
Ytterbium	172-2	103	97	80	93	12.88	cps
Ytterbium	176-1	56125	56095	57799	56673	1.72	cps
Ytterbium	176-2	17886	18493	18470	18283	1.88	cps
Yttrium	89-1	20787169	20901756	20901181	20863369	0.32	cps
Yttrium	89-2	1340836	1424089	1410659	1391861	3.21	cps
Zinc	66-2	3605103	3634650	3682671	3640808	1.08	cps
Zirconium	90-1	22030282	22292888	22069295	22130822	0.64	cps
Zirconium	91-1	4916198	4920884	4875272	4904118	0.51	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4620960	4546484	4554796	4574080	0.89	cps
Antimony	121-1	3914	3310	3290	3505	10.11	cps
Arsenic	75-2	113	83	83	93	18.56	cps
Barium	135-1	7242	6368	6232	6614	8.29	cps
Barium	137-1	12346	11535	10231	11370	9.39	cps
Beryllium	9-1	1225	1101	1059	1128	7.65	cps
Bismuth	209-1	6956865	6793003	6550005	6766624	3.03	cps
Bismuth	209-2	2511977	2424126	2435316	2457140	1.95	cps
Bromine	81-1	6291	6105	5858	6085	3.57	cps
Cadmium	108-1	183	163	143	163	12.24	cps
Cadmium	106-1	5755	5681	5801	5746	1.05	cps
Cadmium	111-1	1939	1812	1803	1852	4.11	cps
Calcium	43-1	20598681	20079325	19280838	19986282	3.32	cps
Calcium	44-1	332043715	322678009	313173029	322631584	2.92	cps
Carbon	12-1	2642147	2600214	2582225	2608196	1.18	cps
Carbon	12-2	22631	22981	22591	22734	0.95	cps
Chlorine	35-1	58973	58411	58210	58531	0.68	cps
Chlorine	35-2	280	300	267	282	5.95	cps
Chromium	52-2	4124	3347	5444	4305	24.62	cps
Cobalt	59-2	8022	8002	7489	7838	3.86	cps
Copper	63-2	7419	7572	7575	7522	1.19	cps
Dysprosium	156-1	563	450	573	529	12.95	cps
Dysprosium	156-2	93	140	93	109	24.75	cps
Erbium	164-1	550	567	507	541	5.72	cps
Erbium	164-2	173	160	167	167	4.00	cps
Gadolinium	160-1	417	430	457	434	4.69	cps
Gadolinium	160-2	137	177	143	152	14.08	cps
Holmium	165-1	12857949	12322284	12061486	12413906	3.27	cps
Holmium	165-2	4057529	3999510	4046852	4034630	0.77	cps
Indium	115-1	9346059	8922567	8702008	8990211	3.64	cps
Indium	115-2	848055	827494	844386	839978	1.31	cps
Iron	54-2	20781594	20684828	20351174	20605866	1.10	cps
Iron	56-2	384044688	379475568	375323501	379614585	1.15	cps
Iron	57-2	9654755	9758487	9534689	9649310	1.16	cps
Krypton	83-1	240	273	237	250	8.11	cps
Lead	206-1	9330	8760	8016	8702	7.57	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8009	7859	6665	7511	9.81	cps
Lead	208-1	36597	35279	31909	34595	6.99	cps
Lithium	6-1	5119947	5132644	5126833	5126475	0.12	cps
Magnesium	24-2	77052957	76645262	76584029	76760749	0.33	cps
Manganese	55-2	4264	4041	3707	4004	7.00	cps
Molybdenum	94-1	11125	10547	9657	10443	7.08	cps
Molybdenum	95-1	11155	9944	9580	10226	8.06	cps
Molybdenum	96-1	15148	14394	13447	14330	5.95	cps
Molybdenum	97-1	5995	5384	5158	5512	7.85	cps
Molybdenum	98-1	14271	13830	12546	13549	6.62	cps
Neodymium	150-1	320	327	323	323	1.03	cps
Neodymium	150-2	67	53	50	57	15.57	cps
Nickel	60-2	3117	3010	3020	3049	1.93	cps
Phosphorus	31-2	67	53	37	52	28.78	cps
Potassium	39-2	22678899	22326373	22512967	22506080	0.78	cps
Rhodium	103-1	8005663	7608482	7502070	7705405	3.44	cps
Rhodium	103-2	2823815	2752159	2814014	2796662	1.39	cps
Scandium	45-1	7258893	7106195	6915548	7093545	2.43	cps
Scandium	45-2	122873	118160	119041	120025	2.09	cps
Selenium	82-1	40	-23	63	27	168.18	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	7	3	100.05	cps
Silicon	28-1	519863	487378	467150	491464	5.41	cps
Silver	107-1	2060	1927	1777	1921	7.38	cps
Silver	109-1	2037	1783	1607	1809	11.95	cps
Sodium	23-2	155496298	155649081	153737354	154960911	0.69	cps
Strontium	86-1	11972	12005	11638	11872	1.71	cps
Strontium	88-1	102741	101851	98907	101166	1.98	cps
Sulfur	34-1	316292	308759	305802	310284	1.74	cps
Terbium	159-1	13147416	12613905	12384964	12715429	3.08	cps
Terbium	159-2	3926270	3797909	3919718	3881299	1.86	cps
Thallium	203-1	1250	1160	1017	1142	10.30	cps
Thallium	205-1	2940	2544	2204	2563	14.39	cps
Tin	118-1	3167	3017	2717	2967	7.72	cps
Titanium	47-1	6665	6678	6195	6513	4.23	cps
Uranium	238-1	3174	2667	2434	2758	13.72	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:11:54	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	487	553	487	509	7.56	cps
Ytterbium	172-1	587	540	603	577	5.69	cps
Ytterbium	172-2	227	153	203	194	19.27	cps
Ytterbium	176-1	2054	2130	2054	2079	2.13	cps
Ytterbium	176-2	313	387	410	370	13.63	cps
Yttrium	89-1	17964401	17522585	17072825	17519937	2.54	cps
Yttrium	89-2	1158835	1132313	1146350	1145833	1.16	cps
Zinc	66-2	1173	1307	1320	1267	6.40	cps
Zirconium	90-1	11398	11425	10801	11208	3.15	cps
Zirconium	91-1	2654	2604	2464	2574	3.83	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25205	25416	25836	25486	1.26	cps
Antimony	121-1	2187198	2229317	2228991	2215169	1.09	cps
Arsenic	75-2	40555	40745	41013	40771	0.56	cps
Barium	135-1	273341	276537	279295	276391	1.08	cps
Barium	137-1	476167	482348	484413	480976	0.89	cps
Beryllium	9-1	418137	422592	424290	421673	0.75	cps
Bismuth	209-1	8324871	8427793	8363198	8371954	0.62	cps
Bismuth	209-2	3260145	3278260	3299075	3279160	0.59	cps
Bromine	81-1	5494	5771	5821	5696	3.09	cps
Cadmium	108-1	39791	40426	40643	40287	1.10	cps
Cadmium	106-1	65186	66975	66673	66278	1.44	cps
Cadmium	111-1	269480	272621	276549	272883	1.30	cps
Calcium	43-1	92924	94387	95259	94190	1.25	cps
Calcium	44-1	1519387	1564418	1568061	1550622	1.75	cps
Carbon	12-1	2719745	2770813	2787224	2759261	1.28	cps
Carbon	12-2	18585	19283	18815	18894	1.88	cps
Chlorine	35-1	61353	64188	64894	63478	2.95	cps
Chlorine	35-2	223	290	230	248	14.82	cps
Chromium	52-2	237130	239155	238072	238119	0.43	cps
Cobalt	59-2	445921	444931	446881	445911	0.22	cps
Copper	63-2	347094	347761	348514	347790	0.20	cps
Dysprosium	156-1	103	133	107	114	14.37	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	60	70	77	69	12.18	cps
Erbium	164-2	20	17	20	19	10.18	cps
Gadolinium	160-1	63	30	63	52	36.85	cps
Gadolinium	160-2	23	13	7	14	58.06	cps
Holmium	165-1	13241837	13303455	13215923	13253738	0.34	cps
Holmium	165-2	4577172	4521240	4626713	4575042	1.15	cps
Indium	115-1	10412324	10455334	10404779	10424146	0.26	cps
Indium	115-2	999572	1003980	1016688	1006747	0.88	cps
Iron	54-2	204620	206696	205154	205490	0.52	cps
Iron	56-2	3743294	3732253	3766029	3747192	0.46	cps
Iron	57-2	91605	91273	91790	91556	0.29	cps
Krypton	83-1	143	110	197	150	29.14	cps
Lead	206-1	1937453	1989104	1949532	1958697	1.38	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1510124	1543984	1553164	1535757	1.48	cps
Lead	208-1	7415783	7628951	7608303	7551012	1.56	cps
Lithium	6-1	6483359	6288306	6381842	6384502	1.53	cps
Magnesium	24-2	209733	208647	210387	209589	0.42	cps
Manganese	55-2	105113	105012	104885	105004	0.11	cps
Molybdenum	94-1	19559615	19692060	19741233	19664303	0.48	cps
Molybdenum	95-1	27751112	28314398	27974339	28013283	1.01	cps
Molybdenum	96-1	30095530	30738689	30790470	30541563	1.27	cps
Molybdenum	97-1	16885604	17320913	17273652	17160056	1.39	cps
Molybdenum	98-1	44757071	45145096	45178969	45027045	0.52	cps
Neodymium	150-1	50	73	77	67	21.80	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	123087	122777	122902	122922	0.13	cps
Phosphorus	31-2	30	50	27	36	35.49	cps
Potassium	39-2	202169	202391	199922	201494	0.68	cps
Rhodium	103-1	9653928	9664511	9642127	9653522	0.12	cps
Rhodium	103-2	3703401	3661254	3717736	3694130	0.79	cps
Scandium	45-1	8019546	8026171	7893542	7979753	0.94	cps
Scandium	45-2	139374	141401	141360	140712	0.82	cps
Selenium	82-1	35910	36204	36167	36093	0.44	cps
Selenium	77-2	607	523	617	582	8.80	cps
Selenium	78-2	1997	1817	2154	1989	8.47	cps
Silicon	28-1	4641429	4688325	4662469	4664074	0.50	cps
Silver	107-1	678836	693739	693994	688856	1.26	cps
Silver	109-1	638124	646956	656986	647355	1.46	cps
Sodium	23-2	718704	722601	719611	720305	0.28	cps
Strontium	86-1	1990919	2039834	2063931	2031561	1.83	cps
Strontium	88-1	17001716	17207207	17267016	17158646	0.81	cps
Sulfur	34-1	340563	340113	343351	341342	0.51	cps
Terbium	159-1	13637319	13825190	13432223	13631577	1.44	cps
Terbium	159-2	4401024	4445204	4498344	4448191	1.10	cps
Thallium	203-1	2380440	2393795	2384731	2386322	0.29	cps
Thallium	205-1	5650185	5576922	5679386	5635498	0.94	cps
Tin	118-1	4909510	4960018	4974039	4947856	0.69	cps
Titanium	47-1	8898716	9050279	9062313	9003769	1.01	cps
Uranium	238-1	18156867	18697347	18657667	18503960	1.63	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:23:25	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	179486	178485	179908	179293	0.41	cps
Ytterbium	172-1	87	93	90	90	3.70	cps
Ytterbium	172-2	37	23	30	30	22.23	cps
Ytterbium	176-1	26300	26961	27262	26841	1.83	cps
Ytterbium	176-2	9110	8940	9153	9068	1.24	cps
Yttrium	89-1	19128784	19381279	19239966	19250010	0.66	cps
Yttrium	89-2	1311458	1313811	1330464	1318578	0.79	cps
Zinc	66-2	71033	70300	71050	70794	0.61	cps
Zirconium	90-1	10213938	10241614	10373190	10276247	0.83	cps
Zirconium	91-1	2280425	2340951	2340741	2320706	1.50	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	77	73	84	19.47	cps
Antimony	121-1	240	240	243	241	0.80	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	583	447	480	503	14.16	cps
Barium	137-1	907	947	923	926	2.17	cps
Beryllium	9-1	437	375	420	411	7.85	cps
Bismuth	209-1	8350748	8518343	8433050	8434047	0.99	cps
Bismuth	209-2	3346284	3301519	3350818	3332874	0.82	cps
Bromine	81-1	5801	6015	5645	5820	3.19	cps
Cadmium	108-1	33	13	40	29	48.05	cps
Cadmium	106-1	6478	6241	6298	6339	1.95	cps
Cadmium	111-1	1302	1279	1265	1282	1.47	cps
Calcium	43-1	407	443	453	434	5.66	cps
Calcium	44-1	8743	8843	8953	8846	1.19	cps
Carbon	12-1	2773984	2757309	2773489	2768261	0.34	cps
Carbon	12-2	18845	18745	18712	18768	0.37	cps
Chlorine	35-1	57959	59278	59696	58977	1.54	cps
Chlorine	35-2	233	280	267	260	9.25	cps
Chromium	52-2	553	517	607	559	8.10	cps
Cobalt	59-2	160	137	183	160	14.58	cps
Copper	63-2	3384	3374	3414	3390	0.61	cps
Dysprosium	156-1	87	113	123	108	17.59	cps
Dysprosium	156-2	17	7	13	12	41.65	cps
Erbium	164-1	60	97	93	83	24.33	cps
Erbium	164-2	30	37	37	34	11.18	cps
Gadolinium	160-1	47	47	30	41	23.41	cps
Gadolinium	160-2	13	7	7	9	43.25	cps
Holmium	165-1	13334549	13511047	13529615	13458404	0.80	cps
Holmium	165-2	4612582	4678951	4712440	4667991	1.09	cps
Indium	115-1	10479961	10770465	10615438	10621955	1.37	cps
Indium	115-2	1027011	1036702	1041832	1035182	0.73	cps
Iron	54-2	473	397	427	432	8.94	cps
Iron	56-2	5191	5594	5608	5464	4.34	cps
Iron	57-2	127	127	133	129	2.99	cps
Krypton	83-1	120	120	100	113	10.19	cps
Lead	206-1	1803	1783	1763	1783	1.12	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1503	1463	1413	1460	3.09	cps
Lead	208-1	7007	7071	6744	6941	2.50	cps
Lithium	6-1	6367464	6543675	6562883	6491341	1.66	cps
Magnesium	24-2	420	473	543	479	12.92	cps
Manganese	55-2	310	260	270	280	9.45	cps
Molybdenum	94-1	417	450	350	406	12.55	cps
Molybdenum	95-1	293	280	390	321	18.69	cps
Molybdenum	96-1	433	397	450	427	6.39	cps
Molybdenum	97-1	200	227	203	210	6.92	cps
Molybdenum	98-1	517	497	540	518	4.19	cps
Neodymium	150-1	13	17	43	24	67.26	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1020	997	957	991	3.23	cps
Phosphorus	31-2	53	73	57	61	17.53	cps
Potassium	39-2	7008	6712	6658	6793	2.78	cps
Rhodium	103-1	9730065	9825476	10018158	9857900	1.49	cps
Rhodium	103-2	3758815	3763261	3809958	3777345	0.75	cps
Scandium	45-1	8026184	8099263	8006115	8043854	0.61	cps
Scandium	45-2	141343	140360	144882	142195	1.67	cps
Selenium	82-1	23	-17	37	14	192.15	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	0	10	7	86.60	cps
Silicon	28-1	393084	391399	390686	391723	0.31	cps
Silver	107-1	250	287	283	273	7.42	cps
Silver	109-1	230	160	170	187	20.28	cps
Sodium	23-2	21576	21246	21589	21470	0.91	cps
Strontium	86-1	267	297	277	280	5.46	cps
Strontium	88-1	620	650	587	619	5.12	cps
Sulfur	34-1	357671	355922	358710	357434	0.39	cps
Terbium	159-1	13508397	13841491	13796921	13715603	1.32	cps
Terbium	159-2	4397082	4405897	4550535	4451171	1.94	cps
Thallium	203-1	297	257	270	274	7.42	cps
Thallium	205-1	720	657	753	710	6.92	cps
Tin	118-1	1437	1503	1443	1461	2.51	cps
Titanium	47-1	233	217	210	220	5.46	cps
Uranium	238-1	87	77	83	82	6.19	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:30:12	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	10	3	6	69.34	cps
Ytterbium	172-1	73	60	67	67	10.00	cps
Ytterbium	172-2	23	27	40	30	29.40	cps
Ytterbium	176-1	1740	1877	1803	1807	3.79	cps
Ytterbium	176-2	283	227	213	241	15.42	cps
Yttrium	89-1	19293567	19581949	19547854	19474457	0.81	cps
Yttrium	89-2	1323972	1332741	1351119	1335944	1.04	cps
Zinc	66-2	343	293	300	312	8.69	cps
Zirconium	90-1	670	540	683	631	12.55	cps
Zirconium	91-1	193	180	153	176	11.60	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4901108	4957614	5011390	4956704	1.11	cps
Antimony	121-1	11445	11605	11862	11637	1.81	cps
Arsenic	75-2	60	47	57	54	12.74	cps
Barium	135-1	4517	4421	4564	4501	1.62	cps
Barium	137-1	7429	7992	7669	7697	3.67	cps
Beryllium	9-1	1462	1451	1536	1483	3.11	cps
Bismuth	209-1	8029161	7920141	7695182	7881494	2.16	cps
Bismuth	209-2	3076553	2725237	2460050	2753947	11.23	cps
Bromine	81-1	8012	8793	8893	8566	5.63	cps
Cadmium	108-1	3534	3410	3297	3414	3.47	cps
Cadmium	106-1	6302	6261	5971	6178	2.92	cps
Cadmium	111-1	2834	3109	2757	2900	6.38	cps
Calcium	43-1	4388937	4497275	4533970	4473394	1.69	cps
Calcium	44-1	70056577	71805634	72467876	71443362	1.74	cps
Carbon	12-1	34017057	34964672	35356715	34779481	1.98	cps
Carbon	12-2	237387	238762	238995	238381	0.36	cps
Chlorine	35-1	52808736	57254009	59245486	56436077	5.84	cps
Chlorine	35-2	235971	239533	242665	239390	1.40	cps
Chromium	52-2	46405	46221	46646	46424	0.46	cps
Cobalt	59-2	4881	5101	5194	5059	3.18	cps
Copper	63-2	28702	29708	28555	28989	2.16	cps
Dysprosium	156-1	123	110	107	113	7.78	cps
Dysprosium	156-2	27	30	10	22	48.22	cps
Erbium	164-1	110	130	137	126	11.05	cps
Erbium	164-2	50	47	43	47	7.15	cps
Gadolinium	160-1	143	107	83	111	27.23	cps
Gadolinium	160-2	30	23	30	28	13.86	cps
Holmium	165-1	14114502	14083022	13675259	13957594	1.76	cps
Holmium	165-2	4839672	4130141	3859162	4276325	11.84	cps
Indium	115-1	10760650	10525780	10335297	10540576	2.02	cps
Indium	115-2	1035173	895240	818791	916401	11.97	cps
Iron	54-2	9914222	9915854	9915299	9915125	0.01	cps
Iron	56-2	182133344	183506117	184159311	183266257	0.56	cps
Iron	57-2	4523052	4662043	4656379	4613825	1.70	cps
Krypton	83-1	167	147	157	157	6.38	cps
Lead	206-1	42198	41907	41824	41977	0.47	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	33520	32848	33674	33347	1.32	cps
Lead	208-1	156629	155918	157424	156657	0.48	cps
Lithium	6-1	6173079	6123249	5902247	6066191	2.38	cps
Magnesium	24-2	17173928	17341772	17650684	17388795	1.39	cps
Manganese	55-2	7759	7896	7889	7848	0.98	cps
Molybdenum	94-1	6476123	6432498	6598263	6502294	1.32	cps
Molybdenum	95-1	11452394	11609811	11669994	11577399	0.97	cps
Molybdenum	96-1	12058014	12324906	12348248	12243723	1.32	cps
Molybdenum	97-1	6981968	7048584	7114519	7048357	0.94	cps
Molybdenum	98-1	18226836	18499169	18768087	18498031	1.46	cps
Neodymium	150-1	87	90	90	89	2.16	cps
Neodymium	150-2	20	13	3	12	68.66	cps
Nickel	60-2	7015	6662	7002	6893	2.91	cps
Phosphorus	31-2	233161	231752	233490	232801	0.40	cps
Potassium	39-2	10121879	10282164	10325520	10243188	1.05	cps
Rhodium	103-1	9461628	9356224	9321153	9379668	0.78	cps
Rhodium	103-2	3594971	3117320	2863266	3191852	11.64	cps
Scandium	45-1	8328380	8264494	8153872	8248915	1.07	cps
Scandium	45-2	147946	130264	117738	131983	11.50	cps
Selenium	82-1	-33	23	10	0	0.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	3	10	7	50.03	cps
Silicon	28-1	620057	625243	623504	622935	0.42	cps
Silver	107-1	1137	1020	850	1002	14.38	cps
Silver	109-1	1150	907	703	920	24.31	cps
Sodium	23-2	36544424	36411435	36681626	36545829	0.37	cps
Strontium	86-1	128766	131773	132975	131171	1.65	cps
Strontium	88-1	1105428	1118103	1132747	1118759	1.22	cps
Sulfur	34-1	6034441	6046232	6140711	6073795	0.96	cps
Terbium	159-1	14326915	14261221	14089071	14225736	0.86	cps
Terbium	159-2	4548473	4005213	3642906	4065530	11.21	cps
Thallium	203-1	1257	1410	1397	1355	6.27	cps
Thallium	205-1	2824	3290	3387	3167	9.51	cps
Tin	118-1	2410	2704	2914	2676	9.46	cps
Titanium	47-1	3872497	3963795	3951762	3929351	1.26	cps
Uranium	238-1	637	603	697	646	7.33	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:33:35	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	277	290	237	268	10.37	cps
Ytterbium	172-1	67	73	87	76	13.48	cps
Ytterbium	172-2	20	23	20	21	9.11	cps
Ytterbium	176-1	1793	1757	1867	1806	3.10	cps
Ytterbium	176-2	270	193	180	214	22.65	cps
Yttrium	89-1	20378428	20108549	19717012	20067997	1.66	cps
Yttrium	89-2	1448361	1263731	1102350	1271481	13.62	cps
Zinc	66-2	4117	3704	4101	3974	5.89	cps
Zirconium	90-1	803	897	977	892	9.72	cps
Zirconium	91-1	233	237	193	221	10.91	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5124886	5072657	5099720	5099087	0.51	cps
Antimony	121-1	230472	237215	240009	235899	2.08	cps
Arsenic	75-2	4521	4287	4384	4397	2.67	cps
Barium	135-1	63504	63789	64586	63960	0.88	cps
Barium	137-1	109327	110067	111669	110354	1.09	cps
Beryllium	9-1	86520	86691	86938	86716	0.24	cps
Bismuth	209-1	7975120	8070693	7971758	8005857	0.70	cps
Bismuth	209-2	2999167	3019331	2973818	2997438	0.76	cps
Bromine	81-1	8279	8636	8723	8546	2.75	cps
Cadmium	108-1	8423	8499	8569	8497	0.86	cps
Cadmium	106-1	13700	14895	14588	14394	4.31	cps
Cadmium	111-1	56473	58114	56815	57134	1.52	cps
Calcium	43-1	4594774	4660398	4579144	4611439	0.93	cps
Calcium	44-1	73301092	75217097	75626387	74714859	1.66	cps
Carbon	12-1	36051259	36651419	36892309	36531663	1.19	cps
Carbon	12-2	248480	246500	248714	247898	0.49	cps
Chlorine	35-1	58964424	62950056	64484166	62132882	4.59	cps
Chlorine	35-2	253643	251231	256709	253861	1.08	cps
Chromium	52-2	96814	96301	96925	96680	0.34	cps
Cobalt	59-2	95319	95286	96292	95632	0.60	cps
Copper	63-2	96676	96995	97964	97212	0.69	cps
Dysprosium	156-1	143	137	120	133	9.02	cps
Dysprosium	156-2	23	17	23	21	18.21	cps
Erbium	164-1	107	97	120	108	10.86	cps
Erbium	164-2	43	33	23	33	30.00	cps
Gadolinium	160-1	97	80	53	77	28.51	cps
Gadolinium	160-2	17	23	23	21	18.21	cps
Holmium	165-1	13891629	13992551	14145320	14009834	0.91	cps
Holmium	165-2	4625531	4622520	4682128	4643393	0.72	cps
Indium	115-1	10562276	10740088	10941603	10747989	1.77	cps
Indium	115-2	1002761	1000278	1006698	1003246	0.32	cps
Iron	54-2	10276068	10142870	10218415	10212451	0.65	cps
Iron	56-2	190239257	187045677	186609424	187964786	1.05	cps
Iron	57-2	4778537	4812411	4842939	4811296	0.67	cps
Krypton	83-1	140	160	180	160	12.50	cps
Lead	206-1	227009	228786	231613	229136	1.01	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	189132	192844	193422	191799	1.21	cps
Lead	208-1	875328	892622	895325	887758	1.22	cps
Lithium	6-1	6070048	6034669	6055828	6053515	0.29	cps
Magnesium	24-2	17844476	17767882	18115308	17909222	1.02	cps
Manganese	55-2	29871	29243	30195	29770	1.63	cps
Molybdenum	94-1	7195039	7378776	7440857	7338224	1.74	cps
Molybdenum	95-1	12226885	12342474	12375141	12314833	0.63	cps
Molybdenum	96-1	12981142	13267610	13282053	13176935	1.29	cps
Molybdenum	97-1	7409752	7506484	7578822	7498353	1.13	cps
Molybdenum	98-1	19702011	19854350	20099896	19885419	1.01	cps
Neodymium	150-1	87	93	87	89	4.33	cps
Neodymium	150-2	13	10	3	9	57.30	cps
Nickel	60-2	31749	31124	30890	31254	1.42	cps
Phosphorus	31-2	241871	239844	239871	240528	0.48	cps
Potassium	39-2	10622818	10533296	10604144	10586753	0.45	cps
Rhodium	103-1	9457318	9450627	9530779	9479575	0.47	cps
Rhodium	103-2	3529108	3521914	3573863	3541628	0.79	cps
Scandium	45-1	8266122	8583208	8545764	8465031	2.05	cps
Scandium	45-2	145650	145534	147272	146152	0.66	cps
Selenium	82-1	3881	3807	4017	3902	2.73	cps
Selenium	77-2	77	90	37	68	40.95	cps
Selenium	78-2	203	220	210	211	3.97	cps
Silicon	28-1	1023419	1030305	1055773	1036499	1.64	cps
Silver	107-1	270815	278339	279235	276130	1.67	cps
Silver	109-1	260604	264387	267099	264030	1.24	cps
Sodium	23-2	37824588	38030154	37732189	37862311	0.40	cps
Strontium	86-1	316320	320329	321950	319533	0.91	cps
Strontium	88-1	2849848	2846761	2855171	2850593	0.15	cps
Sulfur	34-1	6167447	6291641	6347294	6268794	1.47	cps
Terbium	159-1	14295274	14484759	14537814	14439282	0.88	cps
Terbium	159-2	4471628	4423506	4487157	4460764	0.74	cps
Thallium	203-1	229645	234017	234928	232863	1.21	cps
Thallium	205-1	544612	559375	560574	554854	1.60	cps
Tin	118-1	433452	441783	441475	438903	1.08	cps
Titanium	47-1	4027062	4166229	4150663	4114651	1.85	cps
Uranium	238-1	1719544	1757624	1783186	1753451	1.83	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:36:45	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	39347	37974	38191	38504	1.92	cps
Ytterbium	172-1	80	90	90	87	6.66	cps
Ytterbium	172-2	40	33	20	31	32.73	cps
Ytterbium	176-1	4317	4638	4421	4459	3.66	cps
Ytterbium	176-2	1023	1027	1137	1062	6.07	cps
Yttrium	89-1	20155802	20348232	20477061	20327032	0.80	cps
Yttrium	89-2	1359421	1417091	1364705	1380406	2.31	cps
Zinc	66-2	11365	11124	11124	11205	1.24	cps
Zirconium	90-1	929031	937760	955309	940700	1.42	cps
Zirconium	91-1	206327	210402	210123	208950	1.09	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2695980	2698738	2734489	2709736	0.79	cps
Antimony	121-1	5701044	5799598	5716505	5739049	0.92	cps
Arsenic	75-2	102485	101774	102294	102185	0.36	cps
Barium	135-1	7437488	7412588	7493474	7447850	0.56	cps
Barium	137-1	12932604	12939318	12878161	12916694	0.26	cps
Beryllium	9-1	2150722	2152857	2153786	2152455	0.07	cps
Bismuth	209-1	7452751	7473976	7481188	7469305	0.20	cps
Bismuth	209-2	2742485	2777926	2773964	2764791	0.70	cps
Bromine	81-1	6858	6752	6655	6755	1.51	cps
Cadmium	108-1	114050	114238	114346	114211	0.13	cps
Cadmium	106-1	166339	166143	166950	166477	0.25	cps
Cadmium	111-1	1298648	1311501	1314572	1308241	0.65	cps
Calcium	43-1	11367744	11282537	11407749	11352677	0.56	cps
Calcium	44-1	184625624	183229797	186732251	184862557	0.95	cps
Carbon	12-1	2954172	3001556	3060561	3005430	1.77	cps
Carbon	12-2	24711	24147	23733	24197	2.03	cps
Chlorine	35-1	1822999	1725408	1632923	1727110	5.50	cps
Chlorine	35-2	5581	5328	5171	5360	3.86	cps
Chromium	52-2	1208981	1194583	1203241	1202268	0.60	cps
Cobalt	59-2	2251387	2240947	2225883	2239406	0.57	cps
Copper	63-2	15910724	15980261	15831109	15907365	0.47	cps
Dysprosium	156-1	543	480	440	488	10.68	cps
Dysprosium	156-2	103	77	63	81	25.11	cps
Erbium	164-1	307	293	313	304	3.34	cps
Erbium	164-2	97	107	163	122	29.42	cps
Gadolinium	160-1	240	250	260	250	4.00	cps
Gadolinium	160-2	123	90	113	109	15.71	cps
Holmium	165-1	13575292	13557458	13356074	13496275	0.90	cps
Holmium	165-2	4373024	4418760	4454096	4415293	0.92	cps
Indium	115-1	9987146	9873819	10059893	9973619	0.94	cps
Indium	115-2	930308	934574	935489	933457	0.30	cps
Iron	54-2	12394695	12260434	12217170	12290766	0.75	cps
Iron	56-2	227987223	226939390	225742143	226889586	0.50	cps
Iron	57-2	5710920	5700653	5714364	5708645	0.12	cps
Krypton	83-1	230	257	240	242	5.56	cps
Lead	206-1	22945153	23179987	22891348	23005496	0.67	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19817439	20050023	19698512	19855325	0.90	cps
Lead	208-1	91873942	92176334	91001996	91684090	0.67	cps
Lithium	6-1	5524285	5580855	5628171	5577770	0.93	cps
Magnesium	24-2	45052434	45611671	45110206	45258104	0.68	cps
Manganese	55-2	5443889	5376349	5398720	5406320	0.64	cps
Molybdenum	94-1	21702406	21700239	21546346	21649664	0.41	cps
Molybdenum	95-1	30842926	31107165	31094030	31014707	0.48	cps
Molybdenum	96-1	33477708	34159882	34260307	33965966	1.25	cps
Molybdenum	97-1	18899745	18976276	19108209	18994743	0.56	cps
Molybdenum	98-1	49408081	49880341	49815818	49701413	0.52	cps
Neodymium	150-1	747	830	867	814	7.55	cps
Neodymium	150-2	47	53	20	40	44.09	cps
Nickel	60-2	566472	568176	565812	566820	0.22	cps
Phosphorus	31-2	23319	22891	22735	22982	1.32	cps
Potassium	39-2	13186269	13129888	13146127	13154095	0.22	cps
Rhodium	103-1	8810504	8774478	8870010	8818331	0.55	cps
Rhodium	103-2	3237179	3209997	3241380	3229518	0.53	cps
Scandium	45-1	7817109	7896097	8015560	7909589	1.26	cps
Scandium	45-2	136319	137766	139728	137937	1.24	cps
Selenium	82-1	89807	89877	90524	90069	0.44	cps
Selenium	77-2	1530	1377	1480	1462	5.35	cps
Selenium	78-2	4918	4914	4924	4919	0.10	cps
Silicon	28-1	35883204	35590792	35938382	35804126	0.52	cps
Silver	107-1	7242404	7192962	7183824	7206397	0.44	cps
Silver	109-1	6924688	6916840	6974380	6938636	0.45	cps
Sodium	23-2	90095639	91512639	91122172	90910150	0.81	cps
Strontium	86-1	2231661	2240546	2235780	2235995	0.20	cps
Strontium	88-1	18754785	18799007	19031950	18861914	0.79	cps
Sulfur	34-1	962573	963545	975559	967226	0.75	cps
Terbium	159-1	13668289	13595252	13619839	13627794	0.27	cps
Terbium	159-2	4285839	4210692	4254835	4250455	0.89	cps
Thallium	203-1	5977732	5938268	5881116	5932372	0.82	cps
Thallium	205-1	14140676	14123829	13836242	14033583	1.22	cps
Tin	118-1	4914976	4919661	5005646	4946761	1.03	cps
Titanium	47-1	9984607	9921061	9793885	9899851	0.98	cps
Uranium	238-1	19221093	19103515	18998093	19107567	0.58	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:41:13	DataFile Name :	018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	961873	961543	960947	961455	0.05	cps
Ytterbium	172-1	453	350	357	387	14.96	cps
Ytterbium	172-2	123	140	120	128	8.38	cps
Ytterbium	176-1	28758	29406	29169	29111	1.13	cps
Ytterbium	176-2	9197	8843	9253	9098	2.44	cps
Yttrium	89-1	19208026	19420785	19364881	19331230	0.57	cps
Yttrium	89-2	1270870	1290997	1291726	1284531	0.92	cps
Zinc	66-2	1709399	1741676	1715082	1722052	1.00	cps
Zirconium	90-1	10872622	10967903	10886822	10909116	0.47	cps
Zirconium	91-1	2440124	2483264	2439090	2454160	1.03	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	137	143	127	136	6.19	cps
Antimony	121-1	817	670	660	716	12.26	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	957	977	957	963	1.20	cps
Barium	137-1	1627	1570	1413	1537	7.19	cps
Beryllium	9-1	594	654	626	625	4.81	cps
Bismuth	209-1	8620483	8653728	8533509	8602573	0.72	cps
Bismuth	209-2	3330870	3273411	3254291	3286191	1.21	cps
Bromine	81-1	6488	6135	6058	6227	3.69	cps
Cadmium	108-1	30	27	33	30	11.10	cps
Cadmium	106-1	6572	6812	6628	6671	1.88	cps
Cadmium	111-1	1377	1414	1389	1393	1.35	cps
Calcium	43-1	590	680	647	639	7.12	cps
Calcium	44-1	12472	12042	11655	12056	3.39	cps
Carbon	12-1	2860907	2835633	2889137	2861892	0.94	cps
Carbon	12-2	19299	19093	19176	19189	0.54	cps
Chlorine	35-1	699953	668231	638036	668740	4.63	cps
Chlorine	35-2	2327	2287	2164	2259	3.77	cps
Chromium	52-2	537	657	657	617	11.24	cps
Cobalt	59-2	213	237	210	220	6.60	cps
Copper	63-2	3567	3504	3774	3615	3.91	cps
Dysprosium	156-1	77	77	103	86	17.99	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	43	83	70	66	31.07	cps
Erbium	164-2	17	20	40	26	49.38	cps
Gadolinium	160-1	27	33	53	38	36.73	cps
Gadolinium	160-2	10	23	13	16	44.60	cps
Holmium	165-1	14034903	13965571	13520414	13840296	2.02	cps
Holmium	165-2	4640936	4517934	4524085	4560985	1.52	cps
Indium	115-1	11254094	11073338	10799512	11042315	2.07	cps
Indium	115-2	1045047	1046284	1040022	1043784	0.32	cps
Iron	54-2	730	813	753	766	5.62	cps
Iron	56-2	11348	11208	11782	11446	2.61	cps
Iron	57-2	307	280	300	296	4.69	cps
Krypton	83-1	187	147	127	153	19.92	cps
Lead	206-1	3007	2927	2867	2934	2.39	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2554	2620	2370	2515	5.15	cps
Lead	208-1	12072	11575	11115	11588	4.13	cps
Lithium	6-1	6608206	6596812	6351991	6519003	2.22	cps
Magnesium	24-2	1453	1520	1607	1527	5.04	cps
Manganese	55-2	400	370	380	383	3.98	cps
Molybdenum	94-1	1113	1027	973	1038	6.81	cps
Molybdenum	95-1	1143	977	1023	1048	8.21	cps
Molybdenum	96-1	1443	1350	1170	1321	10.52	cps
Molybdenum	97-1	817	777	670	754	10.05	cps
Molybdenum	98-1	2157	1667	1680	1835	15.22	cps
Neodymium	150-1	20	47	40	36	39.03	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1070	963	990	1008	5.51	cps
Phosphorus	31-2	47	33	47	42	18.24	cps
Potassium	39-2	8046	7712	7625	7794	2.85	cps
Rhodium	103-1	10312281	10243686	10213081	10256349	0.50	cps
Rhodium	103-2	3836842	3823908	3795571	3818774	0.55	cps
Scandium	45-1	8460222	8566128	8348295	8458215	1.29	cps
Scandium	45-2	144269	143794	142885	143649	0.49	cps
Selenium	82-1	-50	13	3	-11	-306.35	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	3	0	4	114.60	cps
Silicon	28-1	389884	389488	393389	390920	0.55	cps
Silver	107-1	517	470	567	518	9.34	cps
Silver	109-1	400	400	407	402	0.96	cps
Sodium	23-2	26721	27015	26608	26781	0.79	cps
Strontium	86-1	287	273	297	286	4.10	cps
Strontium	88-1	703	707	690	700	1.26	cps
Sulfur	34-1	362418	363972	364146	363512	0.26	cps
Terbium	159-1	14404740	14223469	13892806	14173672	1.83	cps
Terbium	159-2	4564221	4525498	4414820	4501513	1.72	cps
Thallium	203-1	873	873	780	842	6.40	cps
Thallium	205-1	2134	1850	1917	1967	7.53	cps
Tin	118-1	1563	1390	1573	1509	6.83	cps
Titanium	47-1	407	367	330	368	10.43	cps
Uranium	238-1	540	427	440	469	13.21	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 10:45:39	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	23	37	26	39.85	cps
Ytterbium	172-1	77	57	70	68	15.02	cps
Ytterbium	172-2	23	20	37	27	33.08	cps
Ytterbium	176-1	1960	1843	1853	1886	3.43	cps
Ytterbium	176-2	253	240	303	266	12.57	cps
Yttrium	89-1	20968203	20450417	20174848	20531156	1.96	cps
Yttrium	89-2	1437576	1347487	1348827	1377963	3.75	cps
Zinc	66-2	373	363	300	346	11.51	cps
Zirconium	90-1	1080	1133	983	1066	7.14	cps
Zirconium	91-1	217	260	237	238	9.12	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	463	517	567	516	10.02	cps
Antimony	121-1	4821	4601	4761	4728	2.41	cps
Arsenic	75-2	67	93	90	83	17.43	cps
Barium	135-1	6608	5968	6405	6327	5.17	cps
Barium	137-1	10681	10401	10658	10580	1.47	cps
Beryllium	9-1	2161	2217	2162	2180	1.47	cps
Bismuth	209-1	8651910	8738669	8702726	8697768	0.50	cps
Bismuth	209-2	3310902	3259100	3227622	3265875	1.29	cps
Bromine	81-1	5691	5745	5911	5782	1.99	cps
Cadmium	108-1	120	133	110	121	9.67	cps
Cadmium	106-1	6605	6655	6578	6613	0.59	cps
Cadmium	111-1	2437	2601	2455	2498	3.60	cps
Calcium	43-1	9680	9543	9583	9602	0.73	cps
Calcium	44-1	156110	156096	156504	156236	0.15	cps
Carbon	12-1	2816339	2860015	2886090	2854148	1.23	cps
Carbon	12-2	19329	18725	19286	19114	1.76	cps
Chlorine	35-1	166684	166734	165483	166301	0.43	cps
Chlorine	35-2	563	593	527	561	5.95	cps
Chromium	52-2	1407	1550	1543	1500	5.39	cps
Cobalt	59-2	1900	1907	2024	1943	3.57	cps
Copper	63-2	5895	5488	5531	5638	3.96	cps
Dysprosium	156-1	103	80	90	91	12.85	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	73	53	63	63	15.79	cps
Erbium	164-2	43	23	17	28	49.95	cps
Gadolinium	160-1	63	40	60	54	23.18	cps
Gadolinium	160-2	10	3	13	9	57.30	cps
Holmium	165-1	13843547	13802205	13634302	13760018	0.81	cps
Holmium	165-2	4612545	4639181	4596457	4616061	0.47	cps
Indium	115-1	10997421	10979608	10822244	10933091	0.88	cps
Indium	115-2	1017886	1020607	1016880	1018457	0.19	cps
Iron	54-2	3887	3697	3477	3687	5.57	cps
Iron	56-2	66832	66423	66283	66513	0.43	cps
Iron	57-2	1627	1627	1593	1616	1.19	cps
Krypton	83-1	133	133	127	131	2.94	cps
Lead	206-1	5094	5375	5231	5233	2.68	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4874	4764	4684	4774	2.00	cps
Lead	208-1	21350	21187	21270	21269	0.38	cps
Lithium	6-1	6511436	6498529	6503277	6504414	0.10	cps
Magnesium	24-2	38421	38778	38374	38524	0.57	cps
Manganese	55-2	1087	1127	1033	1082	4.33	cps
Molybdenum	94-1	4691	4734	4647	4691	0.92	cps
Molybdenum	95-1	2564	2737	2447	2582	5.65	cps
Molybdenum	96-1	3137	3230	3270	3213	2.13	cps
Molybdenum	97-1	1443	1577	1563	1528	4.81	cps
Molybdenum	98-1	4094	4011	4007	4037	1.22	cps
Neodymium	150-1	17	13	33	21	50.75	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1437	1440	1347	1408	3.76	cps
Phosphorus	31-2	67	77	93	79	17.07	cps
Potassium	39-2	20421	19907	20204	20178	1.28	cps
Rhodium	103-1	10091880	10194590	10161883	10149451	0.52	cps
Rhodium	103-2	3801119	3814982	3797303	3804468	0.24	cps
Scandium	45-1	8350948	8355607	8351523	8352693	0.03	cps
Scandium	45-2	142054	142599	141525	142059	0.38	cps
Selenium	82-1	867	823	840	843	2.59	cps
Selenium	77-2	17	7	27	17	59.99	cps
Selenium	78-2	60	50	47	52	13.28	cps
Silicon	28-1	387976	387794	390187	388652	0.34	cps
Silver	107-1	6131	6408	6278	6273	2.21	cps
Silver	109-1	5588	5288	5881	5586	5.31	cps
Sodium	23-2	96453	97932	96768	97051	0.80	cps
Strontium	86-1	1960	1803	2024	1929	5.87	cps
Strontium	88-1	13867	14468	14314	14216	2.19	cps
Sulfur	34-1	371249	373754	371840	372281	0.35	cps
Terbium	159-1	14183596	14085881	13989742	14086406	0.69	cps
Terbium	159-2	4482705	4451883	4414875	4449821	0.76	cps
Thallium	203-1	5114	4794	5224	5044	4.43	cps
Thallium	205-1	12089	11932	11902	11975	0.84	cps
Tin	118-1	5024	4768	5024	4939	3.00	cps
Titanium	47-1	1063	957	1063	1028	5.99	cps
Uranium	238-1	14926	15089	15166	15060	0.81	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT4-	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:01:47	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	847	810	640	766	14.40	cps
Ytterbium	172-1	90	83	77	83	8.00	cps
Ytterbium	172-2	40	27	20	29	35.25	cps
Ytterbium	176-1	1743	1820	1723	1762	2.90	cps
Ytterbium	176-2	220	273	297	263	14.92	cps
Yttrium	89-1	20475121	20247132	20217313	20313189	0.69	cps
Yttrium	89-2	1327227	1321520	1324226	1324325	0.22	cps
Zinc	66-2	610	617	690	639	6.95	cps
Zirconium	90-1	8756	8790	8459	8668	2.10	cps
Zirconium	91-1	2097	1873	2044	2005	5.82	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1093	990	1163	1082	8.06	cps
Antimony	121-1	20729	21126	20763	20873	1.06	cps
Arsenic	75-2	250	163	213	209	20.83	cps
Barium	135-1	26362	27107	26823	26764	1.40	cps
Barium	137-1	46546	46630	45690	46289	1.12	cps
Beryllium	9-1	4465	4428	4466	4453	0.49	cps
Bismuth	209-1	8413544	8409674	8290257	8371159	0.84	cps
Bismuth	209-2	3235112	3217569	3176727	3209802	0.93	cps
Bromine	81-1	5751	5581	5661	5665	1.50	cps
Cadmium	108-1	180	247	283	237	22.14	cps
Cadmium	106-1	6325	6462	6572	6453	1.92	cps
Cadmium	111-1	3979	3903	3980	3954	1.11	cps
Calcium	43-1	21693	22190	22090	21991	1.20	cps
Calcium	44-1	357321	357395	356902	357206	0.07	cps
Carbon	12-1	2786175	2811903	2818519	2805533	0.61	cps
Carbon	12-2	18552	18355	18395	18434	0.56	cps
Chlorine	35-1	112670	113168	109799	111879	1.63	cps
Chlorine	35-2	427	357	450	411	11.82	cps
Chromium	52-2	5061	5124	4918	5034	2.10	cps
Cobalt	59-2	4597	4637	4728	4654	1.43	cps
Copper	63-2	9633	9427	9296	9452	1.80	cps
Dysprosium	156-1	60	60	90	70	24.74	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	40	67	63	57	25.64	cps
Erbium	164-2	13	20	10	14	35.26	cps
Gadolinium	160-1	30	43	43	39	19.79	cps
Gadolinium	160-2	7	13	10	10	33.30	cps
Holmium	165-1	13470458	13439126	13503554	13471046	0.24	cps
Holmium	165-2	4448407	4463720	4422159	4444762	0.47	cps
Indium	115-1	10646790	10613158	10678171	10646040	0.31	cps
Indium	115-2	996790	1001582	1004599	1000991	0.39	cps
Iron	54-2	5494	5254	5324	5358	2.30	cps
Iron	56-2	95020	94047	93785	94284	0.69	cps
Iron	57-2	2520	2340	2254	2371	5.74	cps
Krypton	83-1	117	127	197	147	29.72	cps
Lead	206-1	9657	9764	9687	9703	0.57	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8630	8590	8810	8676	1.35	cps
Lead	208-1	38953	39360	39728	39347	0.98	cps
Lithium	6-1	6342602	6360704	6591878	6431728	2.16	cps
Magnesium	24-2	88758	87065	89254	88359	1.30	cps
Manganese	55-2	1257	1277	1237	1257	1.59	cps
Molybdenum	94-1	22452	22308	22388	22383	0.32	cps
Molybdenum	95-1	27337	27193	27070	27200	0.49	cps
Molybdenum	96-1	29314	30073	29728	29705	1.28	cps
Molybdenum	97-1	16623	16627	17074	16775	1.54	cps
Molybdenum	98-1	43471	42813	44200	43495	1.60	cps
Neodymium	150-1	13	27	7	16	65.47	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	2200	2130	2117	2149	2.08	cps
Phosphorus	31-2	117	100	177	131	30.76	cps
Potassium	39-2	55573	54459	54365	54799	1.23	cps
Rhodium	103-1	9864040	9913084	9973824	9916983	0.55	cps
Rhodium	103-2	3652940	3649807	3668745	3657164	0.28	cps
Scandium	45-1	8161423	8166251	8056626	8128100	0.76	cps
Scandium	45-2	138769	139179	137857	138602	0.49	cps
Selenium	82-1	863	807	727	799	8.59	cps
Selenium	77-2	10	10	23	14	53.28	cps
Selenium	78-2	53	60	43	52	16.07	cps
Silicon	28-1	430326	431365	430333	430674	0.14	cps
Silver	107-1	13473	13110	14031	13538	3.43	cps
Silver	109-1	12506	13083	13103	12897	2.63	cps
Sodium	23-2	193464	191573	191735	192257	0.55	cps
Strontium	86-1	4167	3887	3884	3979	4.09	cps
Strontium	88-1	31870	33113	32772	32585	1.97	cps
Sulfur	34-1	363954	363655	363483	363697	0.07	cps
Terbium	159-1	13708308	13871700	13811699	13797236	0.60	cps
Terbium	159-2	4341388	4307738	4360786	4336637	0.62	cps
Thallium	203-1	10761	11118	11001	10960	1.66	cps
Thallium	205-1	25832	25508	25746	25695	0.65	cps
Tin	118-1	46047	45719	46388	46052	0.73	cps
Titanium	47-1	8910	9116	9176	9067	1.54	cps
Uranium	238-1	32846	33163	33601	33203	1.14	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:13:57	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8763	8599	8623	8662	1.02	cps
Ytterbium	172-1	63	83	97	81	20.69	cps
Ytterbium	172-2	33	30	30	31	6.18	cps
Ytterbium	176-1	1857	1723	1657	1746	5.83	cps
Ytterbium	176-2	253	217	287	252	13.88	cps
Yttrium	89-1	19669596	19604416	19722538	19665516	0.30	cps
Yttrium	89-2	1293186	1298649	1314270	1302035	0.84	cps
Zinc	66-2	2084	2177	2034	2098	3.47	cps
Zirconium	90-1	19804	19614	19567	19662	0.64	cps
Zirconium	91-1	4171	4267	4394	4277	2.62	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1110	967	1007	1028	7.20	cps
Antimony	121-1	20349	20319	20706	20458	1.05	cps
Arsenic	75-2	213	230	173	206	14.17	cps
Barium	135-1	26623	27464	27541	27210	1.87	cps
Barium	137-1	46299	45580	46265	46048	0.88	cps
Beryllium	9-1	4431	4465	4229	4375	2.92	cps
Bismuth	209-1	8231721	8440223	8351334	8341093	1.25	cps
Bismuth	209-2	3215440	3190229	3212601	3206090	0.43	cps
Bromine	81-1	5575	5504	5801	5627	2.76	cps
Cadmium	108-1	283	247	247	259	8.18	cps
Cadmium	106-1	6452	6368	6305	6375	1.15	cps
Cadmium	111-1	3899	3805	3992	3899	2.40	cps
Calcium	43-1	22177	22761	21777	22238	2.23	cps
Calcium	44-1	356526	357940	358171	357546	0.25	cps
Carbon	12-1	2768574	2774265	2730953	2757931	0.85	cps
Carbon	12-2	18171	18058	18548	18259	1.41	cps
Chlorine	35-1	99952	98978	98875	99268	0.60	cps
Chlorine	35-2	410	383	340	378	9.35	cps
Chromium	52-2	4784	5048	5031	4954	2.98	cps
Cobalt	59-2	4487	4424	4427	4446	0.80	cps
Copper	63-2	9637	9750	9593	9660	0.84	cps
Dysprosium	156-1	103	70	57	77	31.35	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	70	63	60	64	7.90	cps
Erbium	164-2	37	20	20	26	37.66	cps
Gadolinium	160-1	50	20	57	42	46.26	cps
Gadolinium	160-2	10	7	3	7	50.03	cps
Holmium	165-1	13464434	13604971	13431926	13500444	0.68	cps
Holmium	165-2	4506297	4499000	4537181	4514159	0.45	cps
Indium	115-1	10517674	10837581	10710668	10688641	1.51	cps
Indium	115-2	1001270	999978	1002013	1001087	0.10	cps
Iron	54-2	5268	5341	5108	5239	2.28	cps
Iron	56-2	92571	92957	92906	92811	0.23	cps
Iron	57-2	2207	2417	2300	2308	4.56	cps
Krypton	83-1	153	153	160	156	2.47	cps
Lead	206-1	9887	9957	9687	9844	1.42	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8693	8643	8570	8635	0.72	cps
Lead	208-1	39971	39868	38826	39555	1.60	cps
Lithium	6-1	6387497	6344876	6504550	6412307	1.29	cps
Magnesium	24-2	90039	88315	88878	89077	0.99	cps
Manganese	55-2	1153	1203	1170	1176	2.17	cps
Molybdenum	94-1	22815	22785	22405	22669	1.01	cps
Molybdenum	95-1	27187	27621	26749	27185	1.60	cps
Molybdenum	96-1	30236	29952	29728	29972	0.85	cps
Molybdenum	97-1	16497	17314	16547	16786	2.73	cps
Molybdenum	98-1	43281	43384	44200	43622	1.15	cps
Neodymium	150-1	17	37	20	24	43.83	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	2220	2364	2127	2237	5.33	cps
Phosphorus	31-2	113	93	120	109	12.75	cps
Potassium	39-2	54355	54693	54660	54569	0.34	cps
Rhodium	103-1	9907870	9883626	9943497	9911665	0.30	cps
Rhodium	103-2	3691132	3651033	3666120	3669428	0.55	cps
Scandium	45-1	8004403	8170335	8077650	8084129	1.03	cps
Scandium	45-2	138513	138281	138755	138516	0.17	cps
Selenium	82-1	870	763	857	830	7.00	cps
Selenium	77-2	30	23	17	23	28.56	cps
Selenium	78-2	73	33	47	51	39.85	cps
Silicon	28-1	425762	428409	427350	427173	0.31	cps
Silver	107-1	13407	13437	13530	13458	0.48	cps
Silver	109-1	12853	12649	12606	12703	1.04	cps
Sodium	23-2	191564	189720	189355	190213	0.62	cps
Strontium	86-1	4001	3981	4034	4005	0.67	cps
Strontium	88-1	32648	33096	32929	32891	0.69	cps
Sulfur	34-1	355052	353493	349932	352826	0.74	cps
Terbium	159-1	13616558	13689650	13673656	13659955	0.28	cps
Terbium	159-2	4370458	4365239	4333450	4356382	0.46	cps
Thallium	203-1	10955	11238	11018	11070	1.34	cps
Thallium	205-1	26250	25836	26036	26041	0.80	cps
Tin	118-1	45529	46331	45653	45838	0.94	cps
Titanium	47-1	9110	8749	8843	8901	2.10	cps
Uranium	238-1	33848	32695	33130	33224	1.75	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:17:22	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8803	8586	8699	8696	1.25	cps
Ytterbium	172-1	53	100	73	76	30.99	cps
Ytterbium	172-2	20	27	13	20	33.35	cps
Ytterbium	176-1	1633	1843	1850	1776	6.94	cps
Ytterbium	176-2	250	233	240	241	3.48	cps
Yttrium	89-1	19580387	19972681	19913406	19822158	1.07	cps
Yttrium	89-2	1290363	1292690	1292386	1291813	0.10	cps
Zinc	66-2	2327	2297	2127	2250	4.79	cps
Zirconium	90-1	19370	19076	19741	19396	1.72	cps
Zirconium	91-1	4347	4251	4434	4344	2.11	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	573	570	507	550	6.83	cps
Antimony	121-1	4551	4421	4604	4525	2.08	cps
Arsenic	75-2	97	70	63	77	23.01	cps
Barium	135-1	6101	6098	5771	5990	3.17	cps
Barium	137-1	10204	10538	10514	10419	1.79	cps
Beryllium	9-1	2000	2050	2066	2039	1.69	cps
Bismuth	209-1	8455858	8377367	8275071	8369432	1.08	cps
Bismuth	209-2	3331027	3278437	3237083	3282183	1.43	cps
Bromine	81-1	5578	5628	5528	5578	0.90	cps
Cadmium	108-1	163	133	113	137	18.41	cps
Cadmium	106-1	6198	6408	6081	6229	2.66	cps
Cadmium	111-1	2342	2398	2234	2325	3.60	cps
Calcium	43-1	9620	9663	9170	9484	2.88	cps
Calcium	44-1	155288	155493	154530	155104	0.33	cps
Carbon	12-1	2742095	2758556	2801852	2767501	1.12	cps
Carbon	12-2	18565	18775	19082	18808	1.38	cps
Chlorine	35-1	93905	94241	94448	94198	0.29	cps
Chlorine	35-2	420	410	423	418	1.66	cps
Chromium	52-2	1410	1373	1457	1413	2.96	cps
Cobalt	59-2	1810	2017	1937	1921	5.42	cps
Copper	63-2	5281	5348	5638	5422	3.50	cps
Dysprosium	156-1	53	70	73	66	16.35	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	60	57	50	56	9.17	cps
Erbium	164-2	33	20	23	26	27.15	cps
Gadolinium	160-1	43	67	37	49	32.22	cps
Gadolinium	160-2	0	10	3	4	114.60	cps
Holmium	165-1	13283436	13278423	13433396	13331752	0.66	cps
Holmium	165-2	4652204	4573995	4487751	4571317	1.80	cps
Indium	115-1	10616047	10592879	10569636	10592854	0.22	cps
Indium	115-2	1041376	1005907	998356	1015213	2.26	cps
Iron	54-2	3687	3637	3791	3705	2.11	cps
Iron	56-2	65379	65757	65838	65658	0.37	cps
Iron	57-2	1627	1767	1770	1721	4.75	cps
Krypton	83-1	110	123	150	128	15.94	cps
Lead	206-1	5291	5334	5131	5252	2.04	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4484	4267	4261	4337	2.93	cps
Lead	208-1	20803	20510	19856	20390	2.38	cps
Lithium	6-1	6288264	6502160	6488827	6426417	1.86	cps
Magnesium	24-2	37669	38324	38354	38115	1.02	cps
Manganese	55-2	1023	1113	1093	1077	4.39	cps
Molybdenum	94-1	4304	4681	4848	4611	6.04	cps
Molybdenum	95-1	2537	2484	2610	2544	2.50	cps
Molybdenum	96-1	3277	3137	3287	3234	2.59	cps
Molybdenum	97-1	1497	1533	1477	1502	1.91	cps
Molybdenum	98-1	3857	4057	3951	3955	2.53	cps
Neodymium	150-1	10	30	37	26	54.31	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1547	1440	1480	1489	3.62	cps
Phosphorus	31-2	87	77	73	79	8.80	cps
Potassium	39-2	19690	19019	19149	19286	1.84	cps
Rhodium	103-1	9902309	9683906	9691136	9759117	1.27	cps
Rhodium	103-2	3836878	3713675	3643927	3731493	2.62	cps
Scandium	45-1	8142883	8064556	8017890	8075109	0.78	cps
Scandium	45-2	144492	139997	138459	140983	2.22	cps
Selenium	82-1	860	830	827	839	2.19	cps
Selenium	77-2	7	20	20	16	49.47	cps
Selenium	78-2	57	47	57	53	10.82	cps
Silicon	28-1	378359	375857	377685	377301	0.34	cps
Silver	107-1	6308	6332	5895	6178	3.98	cps
Silver	109-1	5958	5751	5881	5864	1.78	cps
Sodium	23-2	93255	94718	93430	93801	0.85	cps
Strontium	86-1	2000	1923	1997	1973	2.20	cps
Strontium	88-1	14521	14014	15018	14518	3.46	cps
Sulfur	34-1	350462	355235	357373	354356	1.00	cps
Terbium	159-1	13943613	13633620	13661272	13746169	1.25	cps
Terbium	159-2	4522925	4355567	4329982	4402825	2.38	cps
Thallium	203-1	4704	4951	5088	4914	3.95	cps
Thallium	205-1	11699	12066	11278	11681	3.37	cps
Tin	118-1	5254	5081	4988	5108	2.65	cps
Titanium	47-1	970	883	897	917	5.09	cps
Uranium	238-1	14628	15106	14655	14796	1.81	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:20:45	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	823	667	760	750	10.51	cps
Ytterbium	172-1	57	90	67	71	24.05	cps
Ytterbium	172-2	40	17	33	30	40.05	cps
Ytterbium	176-1	1720	1720	1837	1759	3.83	cps
Ytterbium	176-2	267	273	267	269	1.43	cps
Yttrium	89-1	19578890	19653740	19301100	19511243	0.95	cps
Yttrium	89-2	1413417	1298353	1299790	1337187	4.94	cps
Zinc	66-2	650	657	557	621	9.00	cps
Zirconium	90-1	8523	8759	8686	8656	1.40	cps
Zirconium	91-1	1990	1893	1970	1951	2.62	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1073	1100	1010	1061	4.36	cps
Antimony	121-1	19921	20602	20302	20275	1.68	cps
Arsenic	75-2	230	213	197	213	7.81	cps
Barium	135-1	26756	26426	25982	26388	1.47	cps
Barium	137-1	45316	46450	46439	46068	1.41	cps
Beryllium	9-1	4370	4268	4378	4338	1.42	cps
Bismuth	209-1	8529229	8624235	8459924	8537796	0.97	cps
Bismuth	209-2	3194644	3225355	3246367	3222122	0.81	cps
Bromine	81-1	5655	5925	5608	5729	2.99	cps
Cadmium	108-1	280	247	223	250	11.39	cps
Cadmium	106-1	6478	6682	6565	6575	1.55	cps
Cadmium	111-1	3797	4014	4160	3990	4.59	cps
Calcium	43-1	21900	22565	22030	22165	1.59	cps
Calcium	44-1	357075	354814	357169	356353	0.37	cps
Carbon	12-1	2671568	2697915	2768971	2712818	1.86	cps
Carbon	12-2	17941	18432	17998	18123	1.48	cps
Chlorine	35-1	85752	86268	86999	86340	0.73	cps
Chlorine	35-2	350	323	343	339	4.10	cps
Chromium	52-2	5101	5098	4814	5004	3.29	cps
Cobalt	59-2	4547	4361	4657	4522	3.32	cps
Copper	63-2	10190	10020	9914	10041	1.39	cps
Dysprosium	156-1	60	77	57	64	16.63	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	67	77	43	62	27.50	cps
Erbium	164-2	7	23	23	18	54.11	cps
Gadolinium	160-1	47	27	57	43	35.25	cps
Gadolinium	160-2	10	7	10	9	21.63	cps
Holmium	165-1	13774362	13727528	13397177	13633022	1.51	cps
Holmium	165-2	4470129	4500090	4515459	4495226	0.51	cps
Indium	115-1	10908255	10719787	10749734	10792592	0.94	cps
Indium	115-2	1002792	1002541	1003262	1002865	0.04	cps
Iron	54-2	5164	5211	4998	5124	2.19	cps
Iron	56-2	92323	91618	93202	92381	0.86	cps
Iron	57-2	2334	2434	2430	2399	2.37	cps
Krypton	83-1	153	157	173	161	6.65	cps
Lead	206-1	9607	10061	9654	9774	2.55	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8800	8743	9117	8886	2.27	cps
Lead	208-1	38876	39240	39584	39233	0.90	cps
Lithium	6-1	6561902	6444662	6365910	6457491	1.53	cps
Magnesium	24-2	89224	88801	88319	88781	0.51	cps
Manganese	55-2	1227	1243	1190	1220	2.24	cps
Molybdenum	94-1	22328	22498	22916	22581	1.34	cps
Molybdenum	95-1	26816	27043	27273	27044	0.85	cps
Molybdenum	96-1	29839	29916	29862	29872	0.13	cps
Molybdenum	97-1	16667	17254	15946	16622	3.94	cps
Molybdenum	98-1	43217	42913	44317	43482	1.70	cps
Neodymium	150-1	23	10	33	22	52.68	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	2067	2224	2197	2162	3.88	cps
Phosphorus	31-2	100	117	90	102	13.18	cps
Potassium	39-2	54369	53602	53960	53977	0.71	cps
Rhodium	103-1	10036875	9963952	9953577	9984802	0.45	cps
Rhodium	103-2	3729498	3649807	3687351	3688885	1.08	cps
Scandium	45-1	8207401	8138294	8212916	8186204	0.51	cps
Scandium	45-2	138079	139478	138331	138630	0.54	cps
Selenium	82-1	773	1023	787	861	16.33	cps
Selenium	77-2	20	20	17	19	10.18	cps
Selenium	78-2	40	93	33	56	59.20	cps
Silicon	28-1	425362	424748	425758	425289	0.12	cps
Silver	107-1	12956	13423	13020	13133	1.93	cps
Silver	109-1	12566	12636	12492	12565	0.57	cps
Sodium	23-2	192174	191429	190088	191230	0.55	cps
Strontium	86-1	3897	4147	4054	4033	3.13	cps
Strontium	88-1	32708	32986	33146	32947	0.67	cps
Sulfur	34-1	359758	362178	361615	361183	0.35	cps
Terbium	159-1	14072244	13981075	13877756	13977025	0.70	cps
Terbium	159-2	4396079	4322227	4387301	4368536	0.92	cps
Thallium	203-1	10831	10951	11205	10996	1.73	cps
Thallium	205-1	26233	26561	26120	26304	0.87	cps
Tin	118-1	45321	46157	46793	46091	1.60	cps
Titanium	47-1	9016	8953	8993	8987	0.36	cps
Uranium	238-1	33110	33467	32769	33115	1.05	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:26:10	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8963	8353	8766	8694	3.58	cps
Ytterbium	172-1	80	70	73	74	6.84	cps
Ytterbium	172-2	13	23	23	20	28.87	cps
Ytterbium	176-1	1793	1713	1827	1778	3.28	cps
Ytterbium	176-2	227	250	267	248	8.11	cps
Yttrium	89-1	19775547	19879311	19480487	19711782	1.05	cps
Yttrium	89-2	1295013	1294640	1289450	1293034	0.24	cps
Zinc	66-2	2277	2204	2164	2215	2.60	cps
Zirconium	90-1	19904	19147	19444	19498	1.96	cps
Zirconium	91-1	3901	4074	4364	4113	5.69	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1060	980	997	1012	4.17	cps
Antimony	121-1	20512	20766	21203	20827	1.68	cps
Arsenic	75-2	197	167	177	180	8.49	cps
Barium	135-1	26713	27107	27134	26985	0.87	cps
Barium	137-1	46590	47008	46265	46621	0.80	cps
Beryllium	9-1	4476	4381	4446	4435	1.10	cps
Bismuth	209-1	8494596	8520571	8517189	8510785	0.17	cps
Bismuth	209-2	3253226	3210808	3201090	3221708	0.86	cps
Bromine	81-1	5508	5928	5411	5616	4.89	cps
Cadmium	108-1	230	227	267	241	9.21	cps
Cadmium	106-1	6585	6645	6505	6578	1.07	cps
Cadmium	111-1	3856	3897	3828	3861	0.90	cps
Calcium	43-1	22337	21903	22107	22116	0.98	cps
Calcium	44-1	356796	358723	360666	358728	0.54	cps
Carbon	12-1	2652860	2667595	2695388	2671948	0.81	cps
Carbon	12-2	17694	17457	18408	17853	2.77	cps
Chlorine	35-1	83277	83197	82812	83095	0.30	cps
Chlorine	35-2	290	283	260	278	5.67	cps
Chromium	52-2	5061	5308	4844	5071	4.57	cps
Cobalt	59-2	4511	4464	4414	4463	1.08	cps
Copper	63-2	9633	10084	9677	9798	2.54	cps
Dysprosium	156-1	53	103	107	88	34.04	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	63	70	63	66	5.87	cps
Erbium	164-2	27	13	17	19	36.75	cps
Gadolinium	160-1	47	27	30	34	31.11	cps
Gadolinium	160-2	13	13	13	13	0.00	cps
Holmium	165-1	13608626	13549285	13586862	13581591	0.22	cps
Holmium	165-2	4589862	4434498	4522700	4515686	1.73	cps
Indium	115-1	10741959	10693856	10767219	10734344	0.35	cps
Indium	115-2	1008752	991258	997677	999229	0.89	cps
Iron	54-2	5411	5311	5271	5331	1.35	cps
Iron	56-2	94336	92725	94467	93843	1.03	cps
Iron	57-2	2270	2154	2390	2271	5.21	cps
Krypton	83-1	97	130	120	116	14.80	cps
Lead	206-1	9624	9877	9957	9819	1.77	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8830	8446	8683	8653	2.24	cps
Lead	208-1	39344	39130	39437	39304	0.40	cps
Lithium	6-1	6488471	6335903	6415980	6413452	1.19	cps
Magnesium	24-2	91249	89767	89881	90299	0.91	cps
Manganese	55-2	1253	1240	1227	1240	1.08	cps
Molybdenum	94-1	22538	23209	23043	22930	1.52	cps
Molybdenum	95-1	27003	27961	27517	27494	1.74	cps
Molybdenum	96-1	29959	30256	30226	30147	0.54	cps
Molybdenum	97-1	16727	17324	17021	17024	1.75	cps
Molybdenum	98-1	43749	44364	43545	43886	0.97	cps
Neodymium	150-1	10	13	17	13	25.01	cps
Neodymium	150-2	7	3	3	4	43.40	cps
Nickel	60-2	2304	2254	2240	2266	1.47	cps
Phosphorus	31-2	100	147	87	111	28.35	cps
Potassium	39-2	54251	53887	53649	53929	0.56	cps
Rhodium	103-1	9997685	9953490	9861955	9937710	0.70	cps
Rhodium	103-2	3679580	3663880	3625338	3656266	0.76	cps
Scandium	45-1	8337587	8170447	8236551	8248195	1.02	cps
Scandium	45-2	137941	137652	138550	138048	0.33	cps
Selenium	82-1	900	933	893	909	2.36	cps
Selenium	77-2	17	10	30	19	53.91	cps
Selenium	78-2	53	50	53	52	3.68	cps
Silicon	28-1	425180	427197	426325	426234	0.24	cps
Silver	107-1	13373	13960	13961	13765	2.46	cps
Silver	109-1	12726	12869	13417	13004	2.80	cps
Sodium	23-2	191237	191871	191030	191380	0.23	cps
Strontium	86-1	3954	4004	4034	3997	1.01	cps
Strontium	88-1	33831	33123	32605	33186	1.85	cps
Sulfur	34-1	361233	361900	364307	362480	0.45	cps
Terbium	159-1	13972335	13919769	13875598	13922567	0.35	cps
Terbium	159-2	4367246	4319143	4273686	4320025	1.08	cps
Thallium	203-1	10661	10981	11138	10927	2.23	cps
Thallium	205-1	25913	26694	26731	26446	1.75	cps
Tin	118-1	45438	46158	46111	45902	0.88	cps
Titanium	47-1	9343	8776	9226	9115	3.29	cps
Uranium	238-1	33390	33534	33778	33568	0.58	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT4-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:29:35	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9073	8876	8773	8907	1.71	cps
Ytterbium	172-1	80	100	60	80	25.00	cps
Ytterbium	172-2	17	40	40	32	41.80	cps
Ytterbium	176-1	1760	1820	1773	1785	1.77	cps
Ytterbium	176-2	223	217	317	252	22.17	cps
Yttrium	89-1	19767866	19629004	19538726	19645198	0.59	cps
Yttrium	89-2	1296553	1278496	1293863	1289637	0.76	cps
Zinc	66-2	2194	2070	2254	2172	4.30	cps
Zirconium	90-1	19607	20205	20131	19981	1.63	cps
Zirconium	91-1	4334	4464	4471	4423	1.74	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	487	510	504	3.12	cps
Antimony	121-1	4591	4748	4554	4631	2.22	cps
Arsenic	75-2	113	97	120	110	10.92	cps
Barium	135-1	5911	6078	5715	5901	3.08	cps
Barium	137-1	10371	10217	10871	10486	3.26	cps
Beryllium	9-1	2019	2109	2041	2056	2.28	cps
Bismuth	209-1	8748011	8401798	7512557	8220789	7.75	cps
Bismuth	209-2	3299745	3215322	3183547	3232871	1.86	cps
Bromine	81-1	5771	5418	5488	5559	3.37	cps
Cadmium	108-1	123	113	150	129	14.71	cps
Cadmium	106-1	6221	6515	5611	6116	7.54	cps
Cadmium	111-1	2331	2440	2141	2304	6.58	cps
Calcium	43-1	8913	9226	9203	9114	1.92	cps
Calcium	44-1	151926	153024	153586	152845	0.55	cps
Carbon	12-1	2728211	2793873	2769995	2764026	1.20	cps
Carbon	12-2	18372	18802	19072	18749	1.89	cps
Chlorine	35-1	79255	78907	79778	79313	0.55	cps
Chlorine	35-2	273	290	303	289	5.20	cps
Chromium	52-2	1517	1520	1390	1476	5.02	cps
Cobalt	59-2	2030	1987	1940	1986	2.27	cps
Copper	63-2	5354	5394	5544	5431	1.85	cps
Dysprosium	156-1	57	63	80	67	18.03	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	33	60	47	47	28.58	cps
Erbium	164-2	20	23	40	28	38.58	cps
Gadolinium	160-1	30	33	33	32	5.97	cps
Gadolinium	160-2	7	0	0	2	173.21	cps
Holmium	165-1	13680346	13547706	11961060	13063037	7.32	cps
Holmium	165-2	4627766	4527299	4469557	4541541	1.76	cps
Indium	115-1	10841156	10583897	9378744	10267932	7.60	cps
Indium	115-2	1025118	997394	996464	1006325	1.62	cps
Iron	54-2	3774	3894	3677	3782	2.87	cps
Iron	56-2	63477	65134	65211	64608	1.52	cps
Iron	57-2	1667	1630	1750	1682	3.66	cps
Krypton	83-1	147	127	130	134	7.97	cps
Lead	206-1	4881	4984	4818	4894	1.72	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4304	4421	4234	4320	2.18	cps
Lead	208-1	19743	19686	19363	19597	1.05	cps
Lithium	6-1	6497757	6438443	5829463	6255221	5.91	cps
Magnesium	24-2	38591	38598	37792	38327	1.21	cps
Manganese	55-2	980	1000	887	956	6.33	cps
Molybdenum	94-1	4381	4431	4441	4417	0.73	cps
Molybdenum	95-1	2424	2390	2427	2414	0.84	cps
Molybdenum	96-1	3317	3160	3107	3195	3.42	cps
Molybdenum	97-1	1383	1383	1547	1438	6.56	cps
Molybdenum	98-1	3927	3894	4087	3969	2.60	cps
Neodymium	150-1	7	7	7	7	0.00	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1350	1450	1420	1407	3.65	cps
Phosphorus	31-2	73	37	83	64	38.12	cps
Potassium	39-2	18919	19099	19303	19107	1.01	cps
Rhodium	103-1	10025527	9850728	8644239	9506831	7.91	cps
Rhodium	103-2	3756172	3592678	3658646	3669166	2.24	cps
Scandium	45-1	8224004	8109705	7063530	7799079	8.20	cps
Scandium	45-2	141505	139465	138113	139695	1.22	cps
Selenium	82-1	803	923	843	857	7.13	cps
Selenium	77-2	10	10	17	12	31.50	cps
Selenium	78-2	70	63	40	58	27.26	cps
Silicon	28-1	373182	375433	373817	374144	0.31	cps
Silver	107-1	5698	6005	5891	5865	2.65	cps
Silver	109-1	5765	5831	5695	5763	1.19	cps
Sodium	23-2	92836	92695	91625	92385	0.72	cps
Strontium	86-1	1913	1743	1823	1827	4.66	cps
Strontium	88-1	14257	14131	14624	14337	1.79	cps
Sulfur	34-1	365841	365309	364328	365159	0.21	cps
Terbium	159-1	13927910	13639622	12039559	13202364	7.71	cps
Terbium	159-2	4425459	4383779	4345622	4384953	0.91	cps
Thallium	203-1	4834	4844	4958	4879	1.40	cps
Thallium	205-1	11412	11732	11919	11688	2.19	cps
Tin	118-1	4774	4791	4878	4814	1.15	cps
Titanium	47-1	927	930	1023	960	5.72	cps
Uranium	238-1	14956	14679	14645	14760	1.15	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:35:21	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	720	793	783	766	5.19	cps
Ytterbium	172-1	87	70	57	71	21.14	cps
Ytterbium	172-2	33	40	10	28	56.71	cps
Ytterbium	176-1	1640	1783	1590	1671	6.01	cps
Ytterbium	176-2	257	203	307	256	20.22	cps
Yttrium	89-1	19895742	19379832	17362243	18879272	7.09	cps
Yttrium	89-2	1313065	1285583	1291915	1296854	1.11	cps
Zinc	66-2	553	557	577	562	2.24	cps
Zirconium	90-1	8426	8583	8373	8460	1.29	cps
Zirconium	91-1	1833	1850	1863	1849	0.81	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1077	1050	980	1036	4.82	cps
Antimony	121-1	19768	20148	20439	20118	1.67	cps
Arsenic	75-2	160	240	200	200	20.00	cps
Barium	135-1	26312	26129	26072	26171	0.48	cps
Barium	137-1	45844	45506	46155	45835	0.71	cps
Beryllium	9-1	4408	4315	4423	4382	1.33	cps
Bismuth	209-1	8380436	8490159	8129601	8333398	2.22	cps
Bismuth	209-2	3212325	3218180	3202095	3210867	0.25	cps
Bromine	81-1	5815	5705	5865	5795	1.41	cps
Cadmium	108-1	253	250	207	237	11.00	cps
Cadmium	106-1	6215	6672	6098	6328	4.79	cps
Cadmium	111-1	3789	3800	4215	3935	6.18	cps
Calcium	43-1	22170	22838	21943	22317	2.08	cps
Calcium	44-1	351710	350873	352221	351602	0.19	cps
Carbon	12-1	2884396	2801885	2806650	2830977	1.64	cps
Carbon	12-2	18448	18251	18014	18238	1.19	cps
Chlorine	35-1	77204	77569	77489	77421	0.25	cps
Chlorine	35-2	307	310	267	294	8.19	cps
Chromium	52-2	4991	4964	5018	4991	0.53	cps
Cobalt	59-2	4341	4474	4511	4442	2.01	cps
Copper	63-2	9650	9673	10094	9806	2.55	cps
Dysprosium	156-1	67	53	80	67	20.00	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	93	60	73	76	22.20	cps
Erbium	164-2	7	13	7	9	43.25	cps
Gadolinium	160-1	57	23	47	42	40.52	cps
Gadolinium	160-2	10	10	17	12	31.50	cps
Holmium	165-1	13341197	13748190	12690139	13259842	4.02	cps
Holmium	165-2	4546934	4427109	4493736	4489260	1.34	cps
Indium	115-1	10485127	10711316	10048965	10415136	3.23	cps
Indium	115-2	989138	985354	989885	988126	0.25	cps
Iron	54-2	5254	5224	5301	5260	0.73	cps
Iron	56-2	92199	91165	92889	92084	0.94	cps
Iron	57-2	2180	2164	2247	2197	2.01	cps
Krypton	83-1	130	140	153	141	8.30	cps
Lead	206-1	9337	9607	9734	9559	2.12	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8386	8389	8463	8413	0.52	cps
Lead	208-1	38610	38723	39017	38783	0.54	cps
Lithium	6-1	6522505	6604951	6301567	6476341	2.42	cps
Magnesium	24-2	87225	87748	87782	87585	0.36	cps
Manganese	55-2	1133	1260	1173	1189	5.45	cps
Molybdenum	94-1	22071	22472	22568	22370	1.18	cps
Molybdenum	95-1	26509	26893	26689	26697	0.72	cps
Molybdenum	96-1	29461	29735	29812	29669	0.62	cps
Molybdenum	97-1	16076	16794	16407	16425	2.19	cps
Molybdenum	98-1	42107	42171	43605	42628	1.99	cps
Neodymium	150-1	17	20	30	22	31.22	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	2190	2277	2180	2216	2.40	cps
Phosphorus	31-2	100	103	93	99	5.15	cps
Potassium	39-2	54278	53218	54606	54034	1.34	cps
Rhodium	103-1	9707055	10050883	9239871	9665936	4.21	cps
Rhodium	103-2	3609428	3625461	3608833	3614574	0.26	cps
Scandium	45-1	8223330	8222306	7639865	8028500	4.19	cps
Scandium	45-2	136264	136911	138853	137343	0.98	cps
Selenium	82-1	783	807	863	818	5.03	cps
Selenium	77-2	10	10	17	12	31.50	cps
Selenium	78-2	27	33	47	36	28.64	cps
Silicon	28-1	427001	428267	429925	428398	0.34	cps
Silver	107-1	12919	13610	13193	13241	2.63	cps
Silver	109-1	12683	12766	12369	12606	1.66	cps
Sodium	23-2	189689	190365	187039	189031	0.93	cps
Strontium	86-1	4104	3981	4047	4044	1.53	cps
Strontium	88-1	32070	32671	32444	32395	0.94	cps
Sulfur	34-1	367482	370584	369511	369192	0.43	cps
Terbium	159-1	13659459	13828617	13281579	13589885	2.06	cps
Terbium	159-2	4348030	4350257	4304818	4334368	0.59	cps
Thallium	203-1	11035	10221	11228	10828	4.94	cps
Thallium	205-1	25405	25241	24991	25212	0.83	cps
Tin	118-1	44549	45164	44970	44894	0.70	cps
Titanium	47-1	9053	9270	9000	9107	1.57	cps
Uranium	238-1	32411	33083	32755	32750	1.03	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4368-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT4-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:38:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8763	8453	8599	8605	1.80	cps
Ytterbium	172-1	57	77	77	70	16.49	cps
Ytterbium	172-2	20	13	20	18	21.66	cps
Ytterbium	176-1	1957	1843	1884	1895	3.03	cps
Ytterbium	176-2	227	230	260	239	7.69	cps
Yttrium	89-1	19366066	19862683	18544093	19257614	3.46	cps
Yttrium	89-2	1265518	1271389	1282827	1273245	0.69	cps
Zinc	66-2	2107	2100	2187	2131	2.26	cps
Zirconium	90-1	19053	19237	18859	19050	0.99	cps
Zirconium	91-1	4214	4197	4231	4214	0.40	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2495338	2516940	2484618	2498965	0.66	cps
Antimony	121-1	5116260	5213783	5098507	5142850	1.21	cps
Arsenic	75-2	93796	92829	93313	93313	0.52	cps
Barium	135-1	6645855	6752663	6620381	6672966	1.05	cps
Barium	137-1	11322365	11587934	11280481	11396927	1.46	cps
Beryllium	9-1	1985201	2042405	1994159	2007255	1.53	cps
Bismuth	209-1	6903626	7114629	6916955	6978403	1.69	cps
Bismuth	209-2	2688644	2686761	2653448	2676284	0.74	cps
Bromine	81-1	5915	5878	5965	5919	0.74	cps
Cadmium	108-1	100023	103122	101439	101528	1.53	cps
Cadmium	106-1	147475	150780	147485	148580	1.28	cps
Cadmium	111-1	1158858	1188831	1165397	1171029	1.35	cps
Calcium	43-1	10171691	10603201	10244913	10339935	2.23	cps
Calcium	44-1	164382811	170103237	167564354	167350134	1.71	cps
Carbon	12-1	2779262	2848261	2856124	2827883	1.50	cps
Carbon	12-2	22614	22517	22791	22641	0.61	cps
Chlorine	35-1	80086	83810	83060	82319	2.39	cps
Chlorine	35-2	327	373	343	348	6.80	cps
Chromium	52-2	1103534	1099704	1096700	1099979	0.31	cps
Cobalt	59-2	2099269	2075887	2071450	2082202	0.72	cps
Copper	63-2	14654471	14718743	14647086	14673433	0.27	cps
Dysprosium	156-1	330	387	353	357	7.99	cps
Dysprosium	156-2	57	73	93	74	24.66	cps
Erbium	164-1	357	307	370	344	9.69	cps
Erbium	164-2	97	123	120	113	12.82	cps
Gadolinium	160-1	290	223	210	241	17.78	cps
Gadolinium	160-2	87	103	83	91	11.76	cps
Holmium	165-1	12465705	12603139	12403370	12490738	0.82	cps
Holmium	165-2	4241118	4212303	4197618	4217013	0.52	cps
Indium	115-1	9234825	9238240	9050029	9174365	1.17	cps
Indium	115-2	886253	878924	878927	881368	0.48	cps
Iron	54-2	11390214	11299534	11232959	11307569	0.70	cps
Iron	56-2	210498324	208439217	207392984	208776841	0.76	cps
Iron	57-2	5272094	5306129	5227292	5268505	0.75	cps
Krypton	83-1	167	177	153	166	7.07	cps
Lead	206-1	21042779	20999794	21012246	21018273	0.11	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18009642	18337928	17910691	18086087	1.24	cps
Lead	208-1	82849037	84977475	82502255	83442922	1.61	cps
Lithium	6-1	5576765	5624185	5516261	5572404	0.97	cps
Magnesium	24-2	42172169	42602686	42065852	42280236	0.67	cps
Manganese	55-2	5082287	5013310	4997558	5031052	0.90	cps
Molybdenum	94-1	18970992	19436682	19083491	19163722	1.27	cps
Molybdenum	95-1	27337470	28202376	27530010	27689952	1.64	cps
Molybdenum	96-1	29951678	30426212	29965857	30114582	0.90	cps
Molybdenum	97-1	16855830	17150982	16970016	16992276	0.88	cps
Molybdenum	98-1	44027904	45026891	44262314	44439037	1.18	cps
Neodymium	150-1	793	697	747	746	6.48	cps
Neodymium	150-2	60	33	60	51	30.13	cps
Nickel	60-2	517590	519970	516102	517887	0.38	cps
Phosphorus	31-2	21393	21159	22007	21519	2.04	cps
Potassium	39-2	12169264	12000637	11969196	12046366	0.89	cps
Rhodium	103-1	8099371	8131366	7978221	8069653	1.00	cps
Rhodium	103-2	3084677	3045138	3061696	3063837	0.65	cps
Scandium	45-1	7293067	7429372	7269222	7330554	1.18	cps
Scandium	45-2	130798	128245	128478	129174	1.09	cps
Selenium	82-1	80641	82508	79575	80908	1.84	cps
Selenium	77-2	1337	1200	1340	1292	6.18	cps
Selenium	78-2	4704	4647	4564	4639	1.52	cps
Silicon	28-1	32289633	33412294	32305410	32669112	1.97	cps
Silver	107-1	6364660	6640072	6499204	6501312	2.12	cps
Silver	109-1	6114029	6239671	6119310	6157670	1.15	cps
Sodium	23-2	84117694	84004655	83508722	83877024	0.39	cps
Strontium	86-1	1988740	2040213	1959892	1996282	2.04	cps
Strontium	88-1	16745426	17150068	16776332	16890609	1.33	cps
Sulfur	34-1	986747	1009023	993308	996359	1.15	cps
Terbium	159-1	12627214	12865330	12566216	12686254	1.25	cps
Terbium	159-2	4122277	4045798	4024556	4064210	1.26	cps
Thallium	203-1	5412092	5473936	5412737	5432922	0.65	cps
Thallium	205-1	12690739	12912844	12750774	12784786	0.90	cps
Tin	118-1	4429663	4534318	4407302	4457095	1.52	cps
Titanium	47-1	8766305	8957110	8843504	8855640	1.08	cps
Uranium	238-1	17106735	17824191	17216449	17382458	2.22	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:49:04	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	885390	884632	877594	882539	0.49	cps
Ytterbium	172-1	277	390	363	343	17.26	cps
Ytterbium	172-2	133	163	120	139	15.98	cps
Ytterbium	176-1	26226	26186	25862	26091	0.77	cps
Ytterbium	176-2	8776	8539	8846	8721	1.84	cps
Yttrium	89-1	17639079	17994746	17586218	17740015	1.25	cps
Yttrium	89-2	1212964	1202412	1206372	1207249	0.44	cps
Zinc	66-2	1596477	1613340	1578747	1596188	1.08	cps
Zirconium	90-1	9573603	9909780	9675702	9719695	1.77	cps
Zirconium	91-1	2172172	2224133	2189007	2195104	1.21	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	173	120	90	128	33.03	cps
Antimony	121-1	1280	1070	1010	1120	12.66	cps
Arsenic	75-2	0	10	3	4	114.60	cps
Barium	135-1	1157	1057	903	1039	12.28	cps
Barium	137-1	1900	1550	1457	1636	14.29	cps
Beryllium	9-1	845	739	732	772	8.19	cps
Bismuth	209-1	8185459	8308355	8365562	8286459	1.11	cps
Bismuth	209-2	3248555	3215736	3184453	3216248	1.00	cps
Bromine	81-1	5831	5908	5951	5897	1.03	cps
Cadmium	108-1	47	30	50	42	25.38	cps
Cadmium	106-1	5908	5995	5988	5964	0.81	cps
Cadmium	111-1	1266	1208	1236	1236	2.33	cps
Calcium	43-1	753	740	693	729	4.32	cps
Calcium	44-1	13483	11268	10978	11910	11.51	cps
Carbon	12-1	2723329	2714260	2779403	2738997	1.29	cps
Carbon	12-2	18255	18151	17871	18092	1.10	cps
Chlorine	35-1	73224	72068	73325	72872	0.96	cps
Chlorine	35-2	307	343	253	301	15.03	cps
Chromium	52-2	530	603	540	558	7.13	cps
Cobalt	59-2	173	210	147	177	18.00	cps
Copper	63-2	2990	3007	2844	2947	3.05	cps
Dysprosium	156-1	67	67	43	59	22.88	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	50	73	70	64	19.58	cps
Erbium	164-2	23	23	13	20	28.87	cps
Gadolinium	160-1	57	37	33	42	29.89	cps
Gadolinium	160-2	10	17	0	9	94.38	cps
Holmium	165-1	13115699	13189788	13112907	13139465	0.33	cps
Holmium	165-2	4574088	4569193	4478571	4540617	1.18	cps
Indium	115-1	10322056	10388519	10586749	10432442	1.32	cps
Indium	115-2	997086	994493	996890	996156	0.14	cps
Iron	54-2	670	647	693	670	3.48	cps
Iron	56-2	10631	10414	9990	10345	3.15	cps
Iron	57-2	267	317	193	259	23.96	cps
Krypton	83-1	117	123	147	129	12.22	cps
Lead	206-1	2730	2267	2430	2476	9.49	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2457	2117	1777	2117	16.06	cps
Lead	208-1	11082	9505	9075	9887	10.69	cps
Lithium	6-1	6379776	6423043	6365065	6389295	0.47	cps
Magnesium	24-2	1330	1297	1330	1319	1.46	cps
Manganese	55-2	383	467	360	403	13.90	cps
Molybdenum	94-1	1557	1200	1150	1302	17.03	cps
Molybdenum	95-1	1940	1603	1353	1632	18.04	cps
Molybdenum	96-1	1937	1370	1437	1581	19.59	cps
Molybdenum	97-1	1137	807	800	914	21.05	cps
Molybdenum	98-1	2900	2224	1923	2349	21.30	cps
Neodymium	150-1	43	33	13	30	50.92	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1030	967	840	946	10.23	cps
Phosphorus	31-2	50	47	43	47	7.15	cps
Potassium	39-2	7465	7042	7315	7274	2.95	cps
Rhodium	103-1	9709523	9581491	9839866	9710294	1.33	cps
Rhodium	103-2	3706482	3624831	3586657	3639323	1.68	cps
Scandium	45-1	8005722	8038311	8159795	8067942	1.01	cps
Scandium	45-2	137766	136497	135424	136562	0.86	cps
Selenium	82-1	3	33	30	22	74.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	7	3	7	50.03	cps
Silicon	28-1	373163	369777	370816	371252	0.47	cps
Silver	107-1	730	663	717	703	5.02	cps
Silver	109-1	703	623	507	611	16.18	cps
Sodium	23-2	25973	25656	25225	25618	1.47	cps
Strontium	86-1	303	260	263	276	8.75	cps
Strontium	88-1	1163	807	767	912	23.94	cps
Sulfur	34-1	350738	350206	350429	350457	0.08	cps
Terbium	159-1	13329358	13356339	13593947	13426548	1.08	cps
Terbium	159-2	4278978	4353268	4313760	4315335	0.86	cps
Thallium	203-1	623	507	443	524	17.41	cps
Thallium	205-1	1337	1203	1167	1236	7.24	cps
Tin	118-1	1730	1627	1453	1603	8.72	cps
Titanium	47-1	600	420	373	464	25.77	cps
Uranium	238-1	897	597	420	638	37.79	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:52:24	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	30	27	26	19.92	cps
Ytterbium	172-1	57	93	67	72	26.24	cps
Ytterbium	172-2	17	33	23	24	34.31	cps
Ytterbium	176-1	1847	1813	1810	1823	1.11	cps
Ytterbium	176-2	287	297	227	270	14.02	cps
Yttrium	89-1	19347760	19168158	19568643	19361521	1.04	cps
Yttrium	89-2	1294546	1277639	1279646	1283944	0.72	cps
Zinc	66-2	313	257	350	307	15.33	cps
Zirconium	90-1	1380	1267	1143	1263	9.37	cps
Zirconium	91-1	290	283	260	278	5.67	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	103	120	119	12.65	cps
Antimony	121-1	240	257	247	248	3.38	cps
Arsenic	75-2	0	10	17	9	94.38	cps
Barium	135-1	437	410	510	452	11.45	cps
Barium	137-1	743	710	723	726	2.31	cps
Beryllium	9-1	397	396	400	398	0.48	cps
Bismuth	209-1	8103157	8343594	8328642	8258464	1.63	cps
Bismuth	209-2	3226064	3201129	3200124	3209106	0.46	cps
Bromine	81-1	5665	5721	5441	5609	2.64	cps
Cadmium	108-1	23	13	30	22	37.76	cps
Cadmium	106-1	5671	6038	5935	5881	3.22	cps
Cadmium	111-1	1158	1235	1203	1198	3.23	cps
Calcium	43-1	380	407	493	427	13.89	cps
Calcium	44-1	7285	7295	7389	7323	0.78	cps
Carbon	12-1	2667810	2651778	2637530	2652373	0.57	cps
Carbon	12-2	17337	17707	17601	17548	1.09	cps
Chlorine	35-1	62290	61142	61881	61771	0.94	cps
Chlorine	35-2	247	210	250	236	9.42	cps
Chromium	52-2	540	517	497	518	4.19	cps
Cobalt	59-2	150	140	137	142	4.88	cps
Copper	63-2	2997	3084	3040	3040	1.43	cps
Dysprosium	156-1	40	47	57	48	17.56	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	73	27	70	57	45.94	cps
Erbium	164-2	10	20	33	21	55.45	cps
Gadolinium	160-1	30	43	30	34	22.34	cps
Gadolinium	160-2	17	10	10	12	31.50	cps
Holmium	165-1	12873836	13490037	13548202	13304025	2.81	cps
Holmium	165-2	4557260	4588994	4569045	4571766	0.35	cps
Indium	115-1	10319386	10753050	10713568	10595335	2.26	cps
Indium	115-2	1002372	1008921	1018081	1009791	0.78	cps
Iron	54-2	340	367	387	364	6.42	cps
Iron	56-2	5018	5288	5238	5181	2.77	cps
Iron	57-2	153	133	123	137	11.18	cps
Krypton	83-1	100	123	103	109	11.59	cps
Lead	206-1	1543	1527	1453	1508	3.18	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1283	1220	1260	1255	2.55	cps
Lead	208-1	5857	5767	5671	5765	1.62	cps
Lithium	6-1	6300231	6531134	6497945	6443104	1.94	cps
Magnesium	24-2	443	423	447	438	2.88	cps
Manganese	55-2	307	320	320	316	2.44	cps
Molybdenum	94-1	387	337	403	376	9.24	cps
Molybdenum	95-1	207	217	200	208	4.04	cps
Molybdenum	96-1	377	337	350	354	5.75	cps
Molybdenum	97-1	133	103	127	121	13.01	cps
Molybdenum	98-1	333	317	323	324	2.59	cps
Neodymium	150-1	30	20	23	24	20.83	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	980	1053	1030	1021	3.67	cps
Phosphorus	31-2	20	63	43	42	51.37	cps
Potassium	39-2	6445	6515	6338	6433	1.38	cps
Rhodium	103-1	9531666	9891447	9964161	9795758	2.36	cps
Rhodium	103-2	3688419	3746300	3726802	3720507	0.79	cps
Scandium	45-1	7758613	8127501	8118842	8001652	2.63	cps
Scandium	45-2	138292	138355	138449	138365	0.06	cps
Selenium	82-1	17	-20	67	21	206.06	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	358117	360590	361324	360010	0.47	cps
Silver	107-1	270	277	213	253	13.74	cps
Silver	109-1	163	160	180	168	6.39	cps
Sodium	23-2	19460	19466	19770	19565	0.91	cps
Strontium	86-1	243	237	247	242	2.10	cps
Strontium	88-1	527	503	463	498	6.43	cps
Sulfur	34-1	337796	342212	338497	339502	0.70	cps
Terbium	159-1	13342975	13789070	13821129	13651058	1.96	cps
Terbium	159-2	4351571	4379381	4482413	4404455	1.57	cps
Thallium	203-1	243	300	363	302	19.86	cps
Thallium	205-1	747	613	723	694	10.25	cps
Tin	118-1	1310	2249	1170	1576	37.22	cps
Titanium	47-1	150	157	140	149	5.64	cps
Uranium	238-1	43	43	53	47	12.37	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 11:59:10	DataFile Name :	036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	10	10	0.00	cps
Ytterbium	172-1	77	83	70	77	8.69	cps
Ytterbium	172-2	7	27	27	20	57.73	cps
Ytterbium	176-1	1620	1713	1720	1685	3.32	cps
Ytterbium	176-2	277	227	257	253	9.93	cps
Yttrium	89-1	18802591	19726288	19807174	19445351	2.87	cps
Yttrium	89-2	1290758	1298479	1301171	1296803	0.42	cps
Zinc	66-2	403	487	497	462	11.09	cps
Zirconium	90-1	663	683	650	666	2.52	cps
Zirconium	91-1	130	200	150	160	22.53	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	570	473	463	502	11.73	cps
Antimony	121-1	4487	4581	4581	4550	1.18	cps
Arsenic	75-2	93	53	70	72	27.82	cps
Barium	135-1	5881	6242	6288	6137	3.63	cps
Barium	137-1	10374	10528	10848	10583	2.28	cps
Beryllium	9-1	2104	2092	2180	2125	2.24	cps
Bismuth	209-1	8628066	8884139	8507437	8673214	2.22	cps
Bismuth	209-2	3303116	3300987	3271341	3291815	0.54	cps
Bromine	81-1	5931	5521	5551	5668	4.03	cps
Cadmium	108-1	113	107	130	117	10.30	cps
Cadmium	106-1	6478	6645	6412	6512	1.85	cps
Cadmium	111-1	2346	2424	2278	2350	3.12	cps
Calcium	43-1	9163	9693	9577	9478	2.94	cps
Calcium	44-1	154365	152364	153277	153335	0.65	cps
Carbon	12-1	2658807	2744374	2740385	2714522	1.78	cps
Carbon	12-2	17818	18255	18525	18199	1.96	cps
Chlorine	35-1	63431	64101	63190	63574	0.74	cps
Chlorine	35-2	237	207	273	239	13.98	cps
Chromium	52-2	1473	1357	1320	1383	5.79	cps
Cobalt	59-2	2017	1950	1930	1966	2.31	cps
Copper	63-2	5421	5134	5548	5368	3.95	cps
Dysprosium	156-1	40	63	50	51	22.90	cps
Dysprosium	156-2	3	10	3	6	69.34	cps
Erbium	164-1	33	63	50	49	30.75	cps
Erbium	164-2	20	27	27	24	15.75	cps
Gadolinium	160-1	27	23	63	38	58.75	cps
Gadolinium	160-2	13	13	13	13	0.00	cps
Holmium	165-1	13596229	14260861	13609251	13822114	2.75	cps
Holmium	165-2	4671027	4636281	4592892	4633400	0.84	cps
Indium	115-1	10875703	11424771	10783936	11028137	3.14	cps
Indium	115-2	1032708	1023718	1018438	1024955	0.70	cps
Iron	54-2	3781	3877	3707	3788	2.25	cps
Iron	56-2	65911	65446	66383	65914	0.71	cps
Iron	57-2	1593	1640	1670	1635	2.36	cps
Krypton	83-1	130	123	117	123	5.40	cps
Lead	206-1	5091	4881	4958	4977	2.14	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4207	4344	4367	4306	2.01	cps
Lead	208-1	20003	20183	19956	20047	0.60	cps
Lithium	6-1	6608968	6687166	6568976	6621703	0.91	cps
Magnesium	24-2	37521	38116	38267	37968	1.04	cps
Manganese	55-2	1023	1123	1140	1096	5.76	cps
Molybdenum	94-1	4808	4634	4524	4655	3.07	cps
Molybdenum	95-1	2614	2617	2537	2589	1.75	cps
Molybdenum	96-1	3214	3164	3350	3243	2.98	cps
Molybdenum	97-1	1513	1483	1547	1515	2.09	cps
Molybdenum	98-1	4177	3837	3904	3973	4.54	cps
Neodymium	150-1	20	20	27	22	17.33	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	1470	1393	1477	1447	3.20	cps
Phosphorus	31-2	60	67	40	56	24.98	cps
Potassium	39-2	19490	19283	20001	19591	1.89	cps
Rhodium	103-1	10119495	10668430	9992680	10260202	3.50	cps
Rhodium	103-2	3735956	3766324	3735239	3745839	0.47	cps
Scandium	45-1	8256606	8677339	8173240	8369062	3.23	cps
Scandium	45-2	141451	140290	140065	140602	0.53	cps
Selenium	82-1	827	887	840	851	3.70	cps
Selenium	77-2	30	7	10	16	81.11	cps
Selenium	78-2	57	30	70	52	39.00	cps
Silicon	28-1	368794	370189	367612	368865	0.35	cps
Silver	107-1	6025	6125	6295	6148	2.22	cps
Silver	109-1	5678	5845	5795	5772	1.48	cps
Sodium	23-2	94172	93919	93306	93799	0.47	cps
Strontium	86-1	1807	1907	1817	1843	2.99	cps
Strontium	88-1	14398	14251	14705	14451	1.60	cps
Sulfur	34-1	348184	347608	345129	346974	0.47	cps
Terbium	159-1	13962960	14707806	13834148	14168305	3.33	cps
Terbium	159-2	4505680	4423014	4396991	4441895	1.28	cps
Thallium	203-1	4798	4854	4878	4843	0.85	cps
Thallium	205-1	12002	11492	11792	11762	2.18	cps
Tin	118-1	5251	5124	4941	5105	3.05	cps
Titanium	47-1	1077	883	960	973	10.00	cps
Uranium	238-1	14695	14679	14912	14762	0.88	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-03	Instrumnet Name :	P8
Client Sample ID :	XA102	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:02:34	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	750	893	890	844	9.69	cps
Ytterbium	172-1	67	73	83	74	11.26	cps
Ytterbium	172-2	30	17	33	27	33.06	cps
Ytterbium	176-1	1710	1950	1813	1825	6.60	cps
Ytterbium	176-2	180	203	253	212	17.66	cps
Yttrium	89-1	20277279	21039681	19925346	20414102	2.79	cps
Yttrium	89-2	1327450	1323369	1311185	1320668	0.64	cps
Zinc	66-2	547	653	543	581	10.77	cps
Zirconium	90-1	8656	8719	8886	8754	1.36	cps
Zirconium	91-1	1873	1807	1900	1860	2.58	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	497	533	597	542	9.33	cps
Antimony	121-1	4604	4451	4581	4545	1.82	cps
Arsenic	75-2	77	107	77	87	19.98	cps
Barium	135-1	6035	6165	6158	6119	1.20	cps
Barium	137-1	10678	10297	10457	10477	1.82	cps
Beryllium	9-1	2194	2169	2094	2152	2.42	cps
Bismuth	209-1	8759875	8681149	8516232	8652419	1.44	cps
Bismuth	209-2	3342322	3232332	3303589	3292748	1.69	cps
Bromine	81-1	5695	5735	5745	5725	0.46	cps
Cadmium	108-1	107	107	87	100	11.55	cps
Cadmium	106-1	6278	6595	6278	6384	2.87	cps
Cadmium	111-1	2298	2431	2442	2390	3.36	cps
Calcium	43-1	9640	9290	9477	9469	1.85	cps
Calcium	44-1	152714	153206	152741	152887	0.18	cps
Carbon	12-1	2717160	2727129	2748760	2731016	0.59	cps
Carbon	12-2	18151	18652	18956	18586	2.19	cps
Chlorine	35-1	61480	62866	62638	62328	1.19	cps
Chlorine	35-2	210	187	237	211	11.85	cps
Chromium	52-2	1497	1353	1330	1393	6.48	cps
Cobalt	59-2	2010	1964	2107	2027	3.61	cps
Copper	63-2	5474	5471	5184	5377	3.10	cps
Dysprosium	156-1	70	33	53	52	35.16	cps
Dysprosium	156-2	10	3	10	8	49.52	cps
Erbium	164-1	53	87	73	71	23.60	cps
Erbium	164-2	37	30	23	30	22.23	cps
Gadolinium	160-1	40	37	37	38	5.09	cps
Gadolinium	160-2	0	3	10	4	114.60	cps
Holmium	165-1	14102766	13597845	13437675	13712762	2.53	cps
Holmium	165-2	4636097	4645111	4555856	4612354	1.07	cps
Indium	115-1	11209787	10889279	10956156	11018408	1.53	cps
Indium	115-2	1038010	1021969	1006836	1022271	1.52	cps
Iron	54-2	3801	3721	3697	3739	1.45	cps
Iron	56-2	65677	65586	65074	65446	0.50	cps
Iron	57-2	1597	1697	1647	1647	3.04	cps
Krypton	83-1	147	93	147	129	23.89	cps
Lead	206-1	5048	5168	5101	5105	1.18	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4211	4224	4404	4280	2.52	cps
Lead	208-1	19830	19963	19823	19872	0.40	cps
Lithium	6-1	6684057	6661949	6660989	6668998	0.20	cps
Magnesium	24-2	38631	38407	37899	38313	0.98	cps
Manganese	55-2	1073	1167	1110	1117	4.21	cps
Molybdenum	94-1	4731	4427	4534	4564	3.37	cps
Molybdenum	95-1	2577	2790	2617	2661	4.26	cps
Molybdenum	96-1	3180	3254	3274	3236	1.52	cps
Molybdenum	97-1	1463	1587	1500	1517	4.18	cps
Molybdenum	98-1	3961	4064	4011	4012	1.29	cps
Neodymium	150-1	30	20	23	24	20.83	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1447	1387	1437	1423	2.26	cps
Phosphorus	31-2	57	63	67	62	8.18	cps
Potassium	39-2	20034	19553	19270	19619	1.97	cps
Rhodium	103-1	10242869	10070868	10075874	10129870	0.97	cps
Rhodium	103-2	3805512	3706937	3688804	3733751	1.68	cps
Scandium	45-1	8557272	8364070	8311468	8410937	1.54	cps
Scandium	45-2	141411	139482	138642	139845	1.02	cps
Selenium	82-1	707	943	783	811	14.89	cps
Selenium	77-2	13	7	27	16	65.47	cps
Selenium	78-2	27	60	47	44	37.74	cps
Silicon	28-1	367266	369313	367954	368178	0.28	cps
Silver	107-1	6141	6101	6195	6146	0.76	cps
Silver	109-1	5731	5951	5865	5849	1.90	cps
Sodium	23-2	93785	92729	92984	93166	0.59	cps
Strontium	86-1	1837	1883	1970	1897	3.57	cps
Strontium	88-1	14221	14508	14484	14404	1.11	cps
Sulfur	34-1	351195	350565	352568	351443	0.29	cps
Terbium	159-1	14320660	13770865	14160641	14084055	2.01	cps
Terbium	159-2	4531209	4429784	4382411	4447801	1.71	cps
Thallium	203-1	4948	4961	4811	4907	1.69	cps
Thallium	205-1	11932	11665	12099	11899	1.84	cps
Tin	118-1	5138	5058	4954	5050	1.82	cps
Titanium	47-1	927	890	953	923	3.44	cps
Uranium	238-1	14659	14799	14685	14714	0.51	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	P4476-01	Instrumnet Name :	P8
Client Sample ID :	XA100	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:06:45	DataFile Name :	038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	740	723	770	744	3.18	cps
Ytterbium	172-1	67	77	63	69	10.08	cps
Ytterbium	172-2	17	30	20	22	31.22	cps
Ytterbium	176-1	1760	1860	1713	1778	4.21	cps
Ytterbium	176-2	190	220	273	228	18.53	cps
Yttrium	89-1	20628653	20146213	20102809	20292559	1.44	cps
Yttrium	89-2	1405011	1305935	1295631	1335526	4.52	cps
Zinc	66-2	610	627	533	590	8.44	cps
Zirconium	90-1	8656	9076	8633	8788	2.84	cps
Zirconium	91-1	1847	2100	1867	1938	7.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2300	2097	2290	2229	5.14	cps
Antimony	121-1	43362	43088	43476	43309	0.46	cps
Arsenic	75-2	430	387	363	393	8.60	cps
Barium	135-1	55881	56032	55359	55757	0.63	cps
Barium	137-1	96988	95897	95248	96044	0.92	cps
Beryllium	9-1	9244	9165	8992	9134	1.42	cps
Bismuth	209-1	8492759	8255917	8309254	8352643	1.49	cps
Bismuth	209-2	3170734	3178323	3184276	3177778	0.21	cps
Bromine	81-1	5775	5545	5931	5750	3.38	cps
Cadmium	108-1	447	453	493	464	5.43	cps
Cadmium	106-1	6622	6655	6825	6701	1.63	cps
Cadmium	111-1	6720	6582	6884	6728	2.25	cps
Calcium	43-1	45087	45388	44893	45123	0.55	cps
Calcium	44-1	727280	721954	727380	725538	0.43	cps
Carbon	12-1	2674161	2702251	2669114	2681842	0.67	cps
Carbon	12-2	17737	17801	17858	17799	0.34	cps
Chlorine	35-1	1122545	1244032	1310967	1225848	7.79	cps
Chlorine	35-2	5104	5048	5231	5128	1.83	cps
Chromium	52-2	9473	9817	9490	9593	2.02	cps
Cobalt	59-2	9040	8743	9013	8932	1.84	cps
Copper	63-2	17347	17885	17721	17651	1.56	cps
Dysprosium	156-1	53	77	53	61	22.05	cps
Dysprosium	156-2	10	0	7	6	91.64	cps
Erbium	164-1	57	67	73	66	12.79	cps
Erbium	164-2	13	23	17	18	28.64	cps
Gadolinium	160-1	40	43	37	40	8.32	cps
Gadolinium	160-2	7	7	13	9	43.25	cps
Holmium	165-1	13314861	13043906	13207181	13188649	1.03	cps
Holmium	165-2	4442422	4449847	4445654	4445975	0.08	cps
Indium	115-1	10624871	10364220	10434163	10474418	1.29	cps
Indium	115-2	989423	984236	981712	985124	0.40	cps
Iron	54-2	40230	39839	39802	39957	0.59	cps
Iron	56-2	730018	730338	724091	728149	0.48	cps
Iron	57-2	18369	18265	17891	18175	1.38	cps
Krypton	83-1	130	123	120	124	4.09	cps
Lead	206-1	19525	19779	19508	19604	0.77	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17171	16798	16955	16975	1.11	cps
Lead	208-1	78156	78681	78825	78554	0.45	cps
Lithium	6-1	6513053	6493939	6411400	6472797	0.83	cps
Magnesium	24-2	174607	175543	175880	175343	0.38	cps
Manganese	55-2	2347	2184	2474	2335	6.23	cps
Molybdenum	94-1	46772	46996	47557	47108	0.86	cps
Molybdenum	95-1	56832	55868	57170	56623	1.19	cps
Molybdenum	96-1	62336	63069	63160	62855	0.72	cps
Molybdenum	97-1	35017	35048	35118	35061	0.15	cps
Molybdenum	98-1	90972	90774	89583	90443	0.83	cps
Neodymium	150-1	23	10	17	17	39.99	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	3257	3487	3510	3418	4.10	cps
Phosphorus	31-2	123	217	147	162	29.94	cps
Potassium	39-2	106812	106002	107436	106750	0.67	cps
Rhodium	103-1	9801041	9520839	9561002	9627627	1.57	cps
Rhodium	103-2	3645117	3623361	3560648	3609709	1.22	cps
Scandium	45-1	8020907	8115347	7955618	8030624	1.00	cps
Scandium	45-2	135491	136070	134304	135288	0.67	cps
Selenium	82-1	1833	1840	1677	1783	5.18	cps
Selenium	77-2	27	43	33	34	24.35	cps
Selenium	78-2	107	73	117	99	22.95	cps
Silicon	28-1	604730	602236	596447	601137	0.71	cps
Silver	107-1	27985	28409	28803	28399	1.44	cps
Silver	109-1	27297	26996	27110	27135	0.56	cps
Sodium	23-2	374137	371836	370149	372040	0.54	cps
Strontium	86-1	8166	7976	8159	8100	1.33	cps
Strontium	88-1	67944	67800	66655	67466	1.05	cps
Sulfur	34-1	362936	358108	358083	359709	0.78	cps
Terbium	159-1	13738245	13509304	13427708	13558419	1.19	cps
Terbium	159-2	4408926	4335348	4276587	4340287	1.53	cps
Thallium	203-1	23204	23902	23184	23430	1.75	cps
Thallium	205-1	54896	54966	55086	54983	0.18	cps
Tin	118-1	94490	94090	93895	94158	0.32	cps
Titanium	47-1	21693	20555	20995	21081	2.72	cps
Uranium	238-1	70923	70209	70588	70573	0.51	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:22:09	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18562	18332	18722	18539	1.06	cps
Ytterbium	172-1	60	87	57	68	24.26	cps
Ytterbium	172-2	23	30	30	28	13.86	cps
Ytterbium	176-1	1964	1710	1787	1820	7.14	cps
Ytterbium	176-2	260	303	290	284	7.80	cps
Yttrium	89-1	19556818	19250245	19316396	19374486	0.83	cps
Yttrium	89-2	1268155	1280258	1260764	1269726	0.78	cps
Zinc	66-2	3891	4051	3937	3959	2.08	cps
Zirconium	90-1	40579	40375	39954	40302	0.79	cps
Zirconium	91-1	9130	8953	9030	9037	0.98	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107	87	93	96	10.66	cps
Antimony	121-1	63	97	123	94	31.83	cps
Arsenic	75-2	7	3	0	3	100.05	cps
Barium	135-1	257	277	263	266	3.83	cps
Barium	137-1	413	410	383	402	4.09	cps
Beryllium	9-1	284	239	265	262	8.61	cps
Bismuth	209-1	8363373	8338473	8047943	8249930	2.13	cps
Bismuth	209-2	3377152	3196931	3184158	3252747	3.32	cps
Bromine	81-1	5655	5805	6085	5848	3.73	cps
Cadmium	108-1	47	37	37	40	14.43	cps
Cadmium	106-1	6195	5968	5771	5978	3.55	cps
Cadmium	111-1	1230	1191	1159	1193	2.98	cps
Calcium	43-1	400	410	363	391	6.28	cps
Calcium	44-1	6682	6678	6792	6717	0.96	cps
Carbon	12-1	2652893	2629403	2628899	2637065	0.52	cps
Carbon	12-2	17504	17424	17567	17498	0.41	cps
Chlorine	35-1	141995	135682	130425	136034	4.26	cps
Chlorine	35-2	457	410	450	439	5.75	cps
Chromium	52-2	500	533	477	503	5.66	cps
Cobalt	59-2	83	110	140	111	25.52	cps
Copper	63-2	2710	2710	3087	2836	7.67	cps
Dysprosium	156-1	53	50	43	49	10.42	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	73	63	43	60	25.46	cps
Erbium	164-2	17	17	13	16	12.40	cps
Gadolinium	160-1	27	30	33	30	11.10	cps
Gadolinium	160-2	3	10	17	10	66.70	cps
Holmium	165-1	13446821	13099519	12680037	13075459	2.94	cps
Holmium	165-2	4708856	4464920	4430046	4534608	3.35	cps
Indium	115-1	10683002	10530264	9711324	10308197	5.07	cps
Indium	115-2	1034451	972191	969602	992081	3.70	cps
Iron	54-2	353	353	320	342	5.62	cps
Iron	56-2	4804	4664	4821	4763	1.81	cps
Iron	57-2	80	163	103	116	37.21	cps
Krypton	83-1	140	133	87	120	24.22	cps
Lead	206-1	1040	1120	1117	1092	4.14	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1027	947	990	988	4.05	cps
Lead	208-1	4407	4380	4547	4445	2.01	cps
Lithium	6-1	6592545	6457307	6134851	6394901	3.68	cps
Magnesium	24-2	383	470	433	429	10.14	cps
Manganese	55-2	207	203	243	218	10.19	cps
Molybdenum	94-1	243	280	307	277	11.49	cps
Molybdenum	95-1	160	150	167	159	5.28	cps
Molybdenum	96-1	207	217	220	214	3.24	cps
Molybdenum	97-1	87	77	57	73	20.83	cps
Molybdenum	98-1	263	207	217	229	13.21	cps
Neodymium	150-1	7	23	27	19	56.72	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1077	900	967	981	9.09	cps
Phosphorus	31-2	43	37	40	40	8.32	cps
Potassium	39-2	6025	6088	6235	6116	1.76	cps
Rhodium	103-1	9767378	9725373	9349794	9614182	2.39	cps
Rhodium	103-2	3815752	3588758	3630274	3678261	3.29	cps
Scandium	45-1	8049482	8038086	7592526	7893365	3.30	cps
Scandium	45-2	142005	133678	133513	136398	3.56	cps
Selenium	82-1	10	-7	47	17	163.73	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	13	6	124.93	cps
Silicon	28-1	354002	353289	353186	353492	0.13	cps
Silver	107-1	220	190	170	193	13.02	cps
Silver	109-1	133	127	137	132	3.85	cps
Sodium	23-2	17788	17594	17944	17775	0.99	cps
Strontium	86-1	270	277	220	256	12.12	cps
Strontium	88-1	597	643	610	617	3.90	cps
Sulfur	34-1	360172	360087	358699	359653	0.23	cps
Terbium	159-1	13945064	13687637	12855139	13495947	4.22	cps
Terbium	159-2	4484785	4245875	4285109	4338590	2.95	cps
Thallium	203-1	253	293	300	282	8.94	cps
Thallium	205-1	763	783	717	754	4.53	cps
Tin	118-1	1297	1193	1303	1265	4.88	cps
Titanium	47-1	140	113	130	128	10.54	cps
Uranium	238-1	40	47	27	38	26.95	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:26:25	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	3	3	3	0.00	cps
Ytterbium	172-1	57	57	73	62	15.46	cps
Ytterbium	172-2	17	13	27	19	36.75	cps
Ytterbium	176-1	1773	1563	1830	1722	8.16	cps
Ytterbium	176-2	240	193	223	219	10.80	cps
Yttrium	89-1	19502510	19206513	18406481	19038501	2.98	cps
Yttrium	89-2	1392250	1244773	1257315	1298113	6.30	cps
Zinc	66-2	433	363	443	413	10.55	cps
Zirconium	90-1	730	647	513	630	17.35	cps
Zirconium	91-1	173	143	140	152	12.06	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2044	2184	2087	2105	3.41	cps
Antimony	121-1	42121	41670	43272	42354	1.95	cps
Arsenic	75-2	427	363	343	378	11.52	cps
Barium	135-1	53197	53344	54737	53759	1.58	cps
Barium	137-1	93856	93278	95480	94205	1.21	cps
Beryllium	9-1	8964	8922	8992	8959	0.39	cps
Bismuth	209-1	7799140	8518675	7152487	7823434	8.74	cps
Bismuth	209-2	3169749	3114084	3152363	3145399	0.91	cps
Bromine	81-1	5508	5401	5181	5363	3.11	cps
Cadmium	108-1	463	477	397	446	9.62	cps
Cadmium	106-1	6311	6812	5731	6285	8.60	cps
Cadmium	111-1	6669	6486	6490	6548	1.60	cps
Calcium	43-1	42997	43582	43556	43379	0.76	cps
Calcium	44-1	708477	711055	713025	710852	0.32	cps
Carbon	12-1	2703945	2718985	2687963	2703631	0.57	cps
Carbon	12-2	17808	17931	18215	17984	1.16	cps
Chlorine	35-1	1036589	1180733	1300342	1172555	11.26	cps
Chlorine	35-2	5014	5114	4971	5033	1.46	cps
Chromium	52-2	9570	9133	9563	9422	2.66	cps
Cobalt	59-2	8893	8916	8636	8815	1.76	cps
Copper	63-2	17000	17317	17197	17172	0.93	cps
Dysprosium	156-1	60	70	57	62	11.15	cps
Dysprosium	156-2	13	3	3	7	86.65	cps
Erbium	164-1	83	60	57	67	21.79	cps
Erbium	164-2	10	13	27	17	52.93	cps
Gadolinium	160-1	20	57	40	39	47.21	cps
Gadolinium	160-2	13	7	10	10	33.30	cps
Holmium	165-1	12468056	13393009	11518125	12459730	7.52	cps
Holmium	165-2	4385252	4434516	4322597	4380788	1.28	cps
Indium	115-1	10043333	10584173	8974837	9867447	8.30	cps
Indium	115-2	959261	964903	956710	960291	0.44	cps
Iron	54-2	38809	38555	39538	38967	1.31	cps
Iron	56-2	711607	715716	710335	712553	0.39	cps
Iron	57-2	18235	17818	18052	18035	1.16	cps
Krypton	83-1	150	127	100	126	19.93	cps
Lead	206-1	19278	18807	19842	19309	2.68	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16567	16938	17068	16858	1.54	cps
Lead	208-1	76616	77372	79269	77752	1.76	cps
Lithium	6-1	6306157	6342622	5972631	6207137	3.29	cps
Magnesium	24-2	171074	173270	169027	171123	1.24	cps
Manganese	55-2	2347	2134	2307	2262	5.01	cps
Molybdenum	94-1	45284	46039	46210	45844	1.08	cps
Molybdenum	95-1	55256	55688	55500	55481	0.39	cps
Molybdenum	96-1	61161	61361	62302	61608	0.99	cps
Molybdenum	97-1	34282	33651	34677	34203	1.51	cps
Molybdenum	98-1	89131	88097	89560	88929	0.85	cps
Neodymium	150-1	13	23	17	18	28.64	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	3294	3264	3150	3236	2.34	cps
Phosphorus	31-2	147	140	170	152	10.35	cps
Potassium	39-2	103243	103075	102779	103032	0.23	cps
Rhodium	103-1	9056296	9722783	8327992	9035691	7.72	cps
Rhodium	103-2	3533956	3575473	3531786	3547072	0.69	cps
Scandium	45-1	7662826	8106603	6890145	7553191	8.15	cps
Scandium	45-2	131609	132901	133997	132836	0.90	cps
Selenium	82-1	1847	1890	1763	1833	3.51	cps
Selenium	77-2	47	47	23	39	34.65	cps
Selenium	78-2	83	110	120	104	18.15	cps
Silicon	28-1	588487	589413	595013	590971	0.60	cps
Silver	107-1	27320	27982	28122	27808	1.54	cps
Silver	109-1	26582	27027	26693	26767	0.86	cps
Sodium	23-2	365750	370740	363601	366697	1.00	cps
Strontium	86-1	7829	8046	7946	7940	1.37	cps
Strontium	88-1	64669	65288	66909	65622	1.76	cps
Sulfur	34-1	355230	353631	354462	354441	0.23	cps
Terbium	159-1	12898893	13442849	11820464	12720736	6.49	cps
Terbium	159-2	4214834	4221403	4207206	4214481	0.17	cps
Thallium	203-1	22610	22854	23054	22839	0.97	cps
Thallium	205-1	54095	54658	54273	54342	0.53	cps
Tin	118-1	92956	91543	92805	92435	0.84	cps
Titanium	47-1	20585	20722	20371	20559	0.86	cps
Uranium	238-1	69519	69650	69506	69558	0.11	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:29:47	DataFile Name :	043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18125	18088	18572	18262	1.48	cps
Ytterbium	172-1	93	97	40	77	41.48	cps
Ytterbium	172-2	30	17	17	21	36.45	cps
Ytterbium	176-1	1663	1857	1627	1716	7.20	cps
Ytterbium	176-2	257	300	300	286	8.76	cps
Yttrium	89-1	18224922	19541555	16596404	18120960	8.14	cps
Yttrium	89-2	1238748	1247247	1237222	1241072	0.44	cps
Zinc	66-2	3837	3821	3754	3804	1.16	cps
Zirconium	90-1	38446	39730	39369	39182	1.69	cps
Zirconium	91-1	8983	8376	8836	8732	3.63	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	97	117	93	26.96	cps
Antimony	121-1	130	120	80	110	24.05	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	177	237	213	209	14.48	cps
Barium	137-1	303	393	350	349	12.90	cps
Beryllium	9-1	226	221	225	224	1.16	cps
Bismuth	209-1	7787198	7812333	8052458	7883996	1.86	cps
Bismuth	209-2	3151555	3121279	3179230	3150688	0.92	cps
Bromine	81-1	5348	5721	5394	5488	3.71	cps
Cadmium	108-1	27	40	10	26	58.81	cps
Cadmium	106-1	5691	5474	5821	5662	3.09	cps
Cadmium	111-1	1143	1097	1221	1153	5.42	cps
Calcium	43-1	410	373	360	381	6.79	cps
Calcium	44-1	6472	6515	6538	6508	0.52	cps
Carbon	12-1	2615544	2635267	2630295	2627036	0.39	cps
Carbon	12-2	17073	17437	17567	17359	1.47	cps
Chlorine	35-1	152036	139599	129550	140395	8.02	cps
Chlorine	35-2	420	517	363	433	17.89	cps
Chromium	52-2	453	457	543	484	10.53	cps
Cobalt	59-2	100	110	93	101	8.30	cps
Copper	63-2	2597	2684	2794	2691	3.66	cps
Dysprosium	156-1	50	33	47	43	20.36	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	60	63	73	66	10.58	cps
Erbium	164-2	17	13	20	17	20.01	cps
Gadolinium	160-1	60	57	30	49	33.63	cps
Gadolinium	160-2	17	3	0	7	132.33	cps
Holmium	165-1	12410368	12297178	12921276	12542940	2.65	cps
Holmium	165-2	4333938	4391126	4470702	4398589	1.56	cps
Indium	115-1	9753730	9718134	10050309	9840724	1.85	cps
Indium	115-2	956978	959035	979477	965163	1.29	cps
Iron	54-2	357	307	303	322	9.27	cps
Iron	56-2	4798	4457	4684	4646	3.73	cps
Iron	57-2	127	93	110	110	15.15	cps
Krypton	83-1	153	93	157	134	26.51	cps
Lead	206-1	1040	1117	1123	1093	4.24	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1010	1013	887	970	7.44	cps
Lead	208-1	4450	4554	4230	4411	3.74	cps
Lithium	6-1	6199914	6186600	6390345	6258953	1.82	cps
Magnesium	24-2	400	410	400	403	1.43	cps
Manganese	55-2	207	157	230	198	18.94	cps
Molybdenum	94-1	263	230	283	259	10.41	cps
Molybdenum	95-1	177	143	127	149	17.10	cps
Molybdenum	96-1	220	243	203	222	9.04	cps
Molybdenum	97-1	53	77	60	63	18.98	cps
Molybdenum	98-1	210	163	187	187	12.50	cps
Neodymium	150-1	7	17	30	18	65.83	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	963	960	990	971	1.69	cps
Phosphorus	31-2	60	40	47	49	20.83	cps
Potassium	39-2	5568	5821	5728	5706	2.25	cps
Rhodium	103-1	9020878	8940117	9363489	9108161	2.47	cps
Rhodium	103-2	3552369	3549971	3613314	3571885	1.01	cps
Scandium	45-1	7409878	7506072	7799650	7571867	2.68	cps
Scandium	45-2	131767	132137	133712	132538	0.78	cps
Selenium	82-1	-47	20	-7	-11	-302.08	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	0	0	0	0.00	cps
Silicon	28-1	349851	350945	349601	350132	0.20	cps
Silver	107-1	243	270	180	231	20.00	cps
Silver	109-1	183	140	167	163	13.38	cps
Sodium	23-2	16436	16713	16583	16577	0.84	cps
Strontium	86-1	207	293	270	257	17.47	cps
Strontium	88-1	600	533	533	556	6.93	cps
Sulfur	34-1	342111	340456	339665	340744	0.37	cps
Terbium	159-1	12532454	12781449	12936463	12750122	1.60	cps
Terbium	159-2	4219597	4208155	4319088	4248947	1.44	cps
Thallium	203-1	287	280	320	296	7.25	cps
Thallium	205-1	733	690	643	689	6.53	cps
Tin	118-1	1187	1333	1197	1239	6.61	cps
Titanium	47-1	177	117	123	139	23.68	cps
Uranium	238-1	40	20	37	32	33.25	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:33:13	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	0	7	2	173.21	cps
Ytterbium	172-1	57	53	70	60	14.70	cps
Ytterbium	172-2	37	10	23	23	57.15	cps
Ytterbium	176-1	1503	1563	1613	1560	3.53	cps
Ytterbium	176-2	187	197	260	214	18.55	cps
Yttrium	89-1	18053610	18093987	18753677	18300425	2.15	cps
Yttrium	89-2	1227500	1235818	1254216	1239178	1.10	cps
Zinc	66-2	363	410	460	411	11.76	cps
Zirconium	90-1	667	653	613	644	4.31	cps
Zirconium	91-1	90	93	120	101	16.26	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	474050	469524	479753	474442	1.08	cps
Antimony	121-1	5364884	5520605	5407941	5431143	1.48	cps
Arsenic	75-2	92800	92897	93206	92967	0.23	cps
Barium	135-1	6801317	7058836	6951383	6937179	1.86	cps
Barium	137-1	11562800	12184440	11858282	11868508	2.62	cps
Beryllium	9-1	2058778	2148645	2115669	2107697	2.16	cps
Bismuth	209-1	7424431	7709606	7592143	7575393	1.89	cps
Bismuth	209-2	2766631	2745875	2754824	2755777	0.38	cps
Bromine	81-1	5428	5418	5111	5319	3.39	cps
Cadmium	108-1	106188	111577	109240	109001	2.48	cps
Cadmium	106-1	152796	161523	157936	157418	2.79	cps
Cadmium	111-1	1244752	1312328	1282231	1279770	2.65	cps
Calcium	43-1	2193714	2251124	2193756	2212865	1.50	cps
Calcium	44-1	34140488	35957134	35148676	35082099	2.59	cps
Carbon	12-1	2825581	2900139	2924975	2883565	1.79	cps
Carbon	12-2	21079	20848	20304	20744	1.92	cps
Chlorine	35-1	120019	123168	122146	121778	1.32	cps
Chlorine	35-2	500	497	453	483	5.39	cps
Chromium	52-2	1086574	1085155	1093349	1088359	0.40	cps
Cobalt	59-2	2117291	2113178	2129696	2120055	0.41	cps
Copper	63-2	15563578	15497550	15579094	15546741	0.28	cps
Dysprosium	156-1	167	233	233	211	18.23	cps
Dysprosium	156-2	20	7	17	14	48.02	cps
Erbium	164-1	150	150	100	133	21.65	cps
Erbium	164-2	40	17	30	29	40.51	cps
Gadolinium	160-1	77	100	93	90	13.35	cps
Gadolinium	160-2	20	20	10	17	34.64	cps
Holmium	165-1	12363663	13064127	12665803	12697864	2.77	cps
Holmium	165-2	4035049	4069573	4069739	4058120	0.49	cps
Indium	115-1	9335135	9863888	9502455	9567159	2.82	cps
Indium	115-2	866508	867476	875575	869853	0.57	cps
Iron	54-2	2355895	2344723	2357686	2352768	0.30	cps
Iron	56-2	42040511	41876279	41962921	41959904	0.20	cps
Iron	57-2	1012097	1007104	1021515	1013572	0.72	cps
Krypton	83-1	130	130	150	137	8.45	cps
Lead	206-1	21962460	23081918	22211871	22418749	2.62	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18854758	19939518	19215352	19336543	2.86	cps
Lead	208-1	87695615	91260392	88835972	89263993	2.04	cps
Lithium	6-1	5919640	6167006	6128663	6071770	2.19	cps
Magnesium	24-2	8607151	8580885	8612593	8600210	0.20	cps
Manganese	55-2	4991823	4939071	4923446	4951447	0.72	cps
Molybdenum	94-1	19495884	20082098	19608675	19728886	1.58	cps
Molybdenum	95-1	28314938	29100356	28205943	28540412	1.71	cps
Molybdenum	96-1	30282988	31946210	30791522	31006907	2.75	cps
Molybdenum	97-1	17041086	18091420	17280153	17470886	3.15	cps
Molybdenum	98-1	44795948	46627426	46155336	45859570	2.07	cps
Neodymium	150-1	563	617	760	647	15.73	cps
Neodymium	150-2	37	23	17	26	39.85	cps
Nickel	60-2	539309	541737	547578	542875	0.78	cps
Phosphorus	31-2	21416	21152	21132	21233	0.75	cps
Potassium	39-2	2394825	2370402	2407389	2390872	0.79	cps
Rhodium	103-1	8545370	8981984	8656039	8727798	2.60	cps
Rhodium	103-2	3117950	3145744	3128189	3130628	0.45	cps
Scandium	45-1	7366469	7824028	7609059	7599852	3.01	cps
Scandium	45-2	125562	123501	126407	125157	1.19	cps
Selenium	82-1	84473	89900	87562	87312	3.12	cps
Selenium	77-2	1387	1350	1540	1426	7.07	cps
Selenium	78-2	4718	4718	4674	4703	0.53	cps
Silicon	28-1	20303548	20898734	20478947	20560410	1.49	cps
Silver	107-1	6960028	7339478	7134510	7144672	2.66	cps
Silver	109-1	6642888	6926509	6761100	6776832	2.10	cps
Sodium	23-2	16964237	16768626	16735843	16822902	0.73	cps
Strontium	86-1	2014753	2146480	2075083	2078772	3.17	cps
Strontium	88-1	17021106	18052469	17508702	17527426	2.94	cps
Sulfur	34-1	999297	918568	908090	941985	5.30	cps
Terbium	159-1	12699581	13221379	12805964	12908974	2.14	cps
Terbium	159-2	3993479	3885210	4021107	3966599	1.81	cps
Thallium	203-1	5664723	5968369	5735225	5789439	2.74	cps
Thallium	205-1	13227317	14048251	13418315	13564628	3.17	cps
Tin	118-1	4567221	4797792	4656773	4673929	2.49	cps
Titanium	47-1	8808981	9517296	9165100	9163793	3.86	cps
Uranium	238-1	17348293	18121328	17874318	17781313	2.22	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:36:35	DataFile Name :	045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	857271	853623	861957	857617	0.49	cps
Ytterbium	172-1	127	90	120	112	17.41	cps
Ytterbium	172-2	60	67	17	48	56.82	cps
Ytterbium	176-1	25441	27345	26530	26439	3.61	cps
Ytterbium	176-2	7642	7726	8263	7877	4.27	cps
Yttrium	89-1	17747926	18780437	18106783	18211715	2.88	cps
Yttrium	89-2	1159501	1156626	1171544	1162557	0.68	cps
Zinc	66-2	1676290	1679831	1662608	1672910	0.54	cps
Zirconium	90-1	9798964	10223201	9916132	9979432	2.20	cps
Zirconium	91-1	2183123	2257886	2217864	2219624	1.69	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	87	130	94	34.28	cps
Antimony	121-1	287	303	310	300	4.01	cps
Arsenic	75-2	7	3	7	6	34.70	cps
Barium	135-1	527	437	353	439	19.75	cps
Barium	137-1	807	713	673	731	9.36	cps
Beryllium	9-1	361	340	336	346	3.90	cps
Bismuth	209-1	7912694	7648647	7307984	7623108	3.98	cps
Bismuth	209-2	2842047	2805581	2845733	2831120	0.78	cps
Bromine	81-1	5678	5541	5481	5567	1.81	cps
Cadmium	108-1	53	57	27	46	36.09	cps
Cadmium	106-1	5611	5321	4948	5293	6.28	cps
Cadmium	111-1	1132	1078	1004	1071	5.97	cps
Calcium	43-1	403	353	403	387	7.47	cps
Calcium	44-1	6942	6652	6598	6731	2.75	cps
Carbon	12-1	2616229	2591881	2584464	2597525	0.64	cps
Carbon	12-2	17224	17210	16820	17084	1.34	cps
Chlorine	35-1	74021	72903	71680	72868	1.61	cps
Chlorine	35-2	223	313	220	252	20.99	cps
Chromium	52-2	533	423	473	477	11.56	cps
Cobalt	59-2	153	143	130	142	8.23	cps
Copper	63-2	2684	2707	2817	2736	2.60	cps
Dysprosium	156-1	47	57	60	54	12.74	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	53	47	60	53	12.50	cps
Erbium	164-2	10	17	20	16	32.73	cps
Gadolinium	160-1	17	53	37	36	51.62	cps
Gadolinium	160-2	7	3	7	6	34.70	cps
Holmium	165-1	12770729	12305296	11648965	12241663	4.60	cps
Holmium	165-2	3956341	3994061	4006159	3985520	0.65	cps
Indium	115-1	9902877	9742933	9231607	9625806	3.64	cps
Indium	115-2	876661	873197	872153	874004	0.27	cps
Iron	54-2	293	297	307	299	2.32	cps
Iron	56-2	4144	4397	4514	4352	4.35	cps
Iron	57-2	123	117	127	122	4.17	cps
Krypton	83-1	117	93	140	117	20.00	cps
Lead	206-1	1383	1450	1293	1376	5.72	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1220	1230	987	1146	12.02	cps
Lead	208-1	5531	5517	5120	5389	4.32	cps
Lithium	6-1	5998131	5855683	5559394	5804402	3.86	cps
Magnesium	24-2	440	387	523	450	15.31	cps
Manganese	55-2	320	387	323	343	10.94	cps
Molybdenum	94-1	357	373	373	368	2.62	cps
Molybdenum	95-1	363	337	340	347	4.19	cps
Molybdenum	96-1	390	350	327	356	9.01	cps
Molybdenum	97-1	160	193	183	179	9.56	cps
Molybdenum	98-1	477	573	427	492	15.15	cps
Neodymium	150-1	20	17	40	26	49.38	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	960	857	837	884	7.48	cps
Phosphorus	31-2	53	67	43	54	21.51	cps
Potassium	39-2	6078	6061	6198	6112	1.22	cps
Rhodium	103-1	9244633	9005984	8482579	8911065	4.37	cps
Rhodium	103-2	3249956	3222722	3222109	3231595	0.49	cps
Scandium	45-1	7604764	7300225	6986226	7297072	4.24	cps
Scandium	45-2	118494	119447	120238	119393	0.73	cps
Selenium	82-1	3	27	-17	4	487.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	354494	350438	341563	348832	1.90	cps
Silver	107-1	227	237	257	240	6.36	cps
Silver	109-1	193	137	147	159	19.04	cps
Sodium	23-2	16556	16616	16880	16684	1.03	cps
Strontium	86-1	213	253	270	246	11.86	cps
Strontium	88-1	643	610	577	610	5.46	cps
Sulfur	34-1	338218	335634	329223	334358	1.39	cps
Terbium	159-1	13081596	12350730	11961081	12464469	4.56	cps
Terbium	159-2	3839370	3806285	3762142	3802599	1.02	cps
Thallium	203-1	290	353	310	318	10.19	cps
Thallium	205-1	737	913	643	764	17.94	cps
Tin	118-1	1410	1253	1180	1281	9.17	cps
Titanium	47-1	160	137	137	144	9.32	cps
Uranium	238-1	100	97	70	89	18.50	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:42:49	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	13	10	10	33.30	cps
Ytterbium	172-1	67	53	40	53	25.00	cps
Ytterbium	172-2	30	20	13	21	39.75	cps
Ytterbium	176-1	1703	1517	1627	1616	5.81	cps
Ytterbium	176-2	140	173	230	181	25.12	cps
Yttrium	89-1	18640456	17690937	16907072	17746155	4.89	cps
Yttrium	89-2	1120632	1130531	1124621	1125261	0.44	cps
Zinc	66-2	433	420	393	416	4.90	cps
Zirconium	90-1	623	527	600	583	8.65	cps
Zirconium	91-1	113	100	117	110	8.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	512068	514548	515310	513975	0.33	cps
Antimony	121-1	5731929	5737296	5730970	5733398	0.06	cps
Arsenic	75-2	102123	103043	103120	102762	0.54	cps
Barium	135-1	7266251	7285576	7342870	7298232	0.55	cps
Barium	137-1	12414662	12491983	12538468	12481705	0.50	cps
Beryllium	9-1	2154285	2176169	2137077	2155843	0.91	cps
Bismuth	209-1	7947093	7849018	7931848	7909319	0.67	cps
Bismuth	209-2	3008589	3064313	3067762	3046888	1.09	cps
Bromine	81-1	5915	6175	5825	5971	3.05	cps
Cadmium	108-1	114111	115774	114628	114838	0.74	cps
Cadmium	106-1	167263	167725	166575	167188	0.35	cps
Cadmium	111-1	1332373	1350036	1350295	1344235	0.76	cps
Calcium	43-1	2328187	2313325	2310043	2317185	0.42	cps
Calcium	44-1	36641419	36564102	37135329	36780284	0.84	cps
Carbon	12-1	2794509	2885553	2930740	2870267	2.42	cps
Carbon	12-2	20494	20905	20842	20747	1.07	cps
Chlorine	35-1	95502	97777	99127	97469	1.88	cps
Chlorine	35-2	407	367	307	360	13.98	cps
Chromium	52-2	1185159	1188813	1194604	1189526	0.40	cps
Cobalt	59-2	2300760	2293591	2291047	2295133	0.22	cps
Copper	63-2	16949540	16756289	16940349	16882059	0.65	cps
Dysprosium	156-1	253	177	203	211	18.44	cps
Dysprosium	156-2	37	33	30	33	10.01	cps
Erbium	164-1	150	133	140	141	5.94	cps
Erbium	164-2	37	37	53	42	22.78	cps
Gadolinium	160-1	67	100	103	90	22.53	cps
Gadolinium	160-2	30	23	23	26	15.07	cps
Holmium	165-1	13208319	13397012	13253206	13286179	0.74	cps
Holmium	165-2	4487474	4541688	4479938	4503033	0.75	cps
Indium	115-1	10185061	10166575	10156892	10169509	0.14	cps
Indium	115-2	953915	951469	955099	953494	0.19	cps
Iron	54-2	2573054	2531138	2549822	2551338	0.82	cps
Iron	56-2	45600056	45674543	46060343	45778314	0.54	cps
Iron	57-2	1111463	1109036	1114919	1111806	0.27	cps
Krypton	83-1	133	167	163	154	11.89	cps
Lead	206-1	23177134	23184216	23497505	23286285	0.79	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	20119621	20346252	20304061	20256645	0.59	cps
Lead	208-1	92209639	93105338	93104674	92806550	0.56	cps
Lithium	6-1	6081202	6029661	6142759	6084540	0.93	cps
Magnesium	24-2	9269721	9223038	9244016	9245592	0.25	cps
Manganese	55-2	5395482	5349997	5448281	5397920	0.91	cps
Molybdenum	94-1	20269846	20715754	20860331	20615310	1.49	cps
Molybdenum	95-1	29796883	30062445	29777058	29878795	0.53	cps
Molybdenum	96-1	32491543	32677585	32601180	32590103	0.29	cps
Molybdenum	97-1	17976323	18338368	18471131	18261941	1.40	cps
Molybdenum	98-1	47649969	48409008	48823653	48294210	1.23	cps
Neodymium	150-1	727	643	667	679	6.33	cps
Neodymium	150-2	13	10	27	17	52.93	cps
Nickel	60-2	588254	591148	592097	590499	0.34	cps
Phosphorus	31-2	22888	22861	23449	23066	1.44	cps
Potassium	39-2	2638277	2605742	2618652	2620890	0.63	cps
Rhodium	103-1	9120651	9129827	9246406	9165628	0.76	cps
Rhodium	103-2	3481658	3404873	3399062	3428531	1.34	cps
Scandium	45-1	7903563	7913458	7946088	7921036	0.28	cps
Scandium	45-2	138692	136372	139502	138189	1.18	cps
Selenium	82-1	91014	92235	91919	91723	0.69	cps
Selenium	77-2	1547	1357	1440	1448	6.58	cps
Selenium	78-2	5181	4871	4958	5003	3.20	cps
Silicon	28-1	21436998	21393936	21661397	21497444	0.67	cps
Silver	107-1	7524689	7544027	7512571	7527096	0.21	cps
Silver	109-1	7085199	7057486	7118085	7086923	0.43	cps
Sodium	23-2	18322747	18439103	18347925	18369925	0.33	cps
Strontium	86-1	2190872	2208875	2180243	2193330	0.66	cps
Strontium	88-1	18290819	18337377	18463519	18363905	0.49	cps
Sulfur	34-1	931415	942094	946504	940005	0.83	cps
Terbium	159-1	13599277	13595832	13497917	13564342	0.42	cps
Terbium	159-2	4297628	4277500	4327044	4300724	0.58	cps
Thallium	203-1	6014283	5936353	6103002	6017879	1.39	cps
Thallium	205-1	14123110	14191392	14046325	14120276	0.51	cps
Tin	118-1	4967543	5024707	4897123	4963124	1.29	cps
Titanium	47-1	9579697	9535277	9642978	9585984	0.56	cps
Uranium	238-1	18346322	18512318	18385774	18414805	0.47	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:46:13	DataFile Name :	048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	933264	935006	937735	935335	0.24	cps
Ytterbium	172-1	153	167	113	144	19.22	cps
Ytterbium	172-2	53	60	67	60	11.12	cps
Ytterbium	176-1	27181	27348	27285	27272	0.31	cps
Ytterbium	176-2	8426	8950	8850	8742	3.18	cps
Yttrium	89-1	19083753	19295031	19559959	19312914	1.24	cps
Yttrium	89-2	1277236	1271457	1272396	1273697	0.24	cps
Zinc	66-2	1818120	1832614	1833515	1828083	0.47	cps
Zirconium	90-1	10338551	10430696	10460173	10409807	0.61	cps
Zirconium	91-1	2340741	2371698	2335393	2349277	0.83	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2510403	2444199	2421817	2458806	1.87	cps
Antimony	121-1	5241238	5246623	5222526	5236796	0.24	cps
Arsenic	75-2	91944	91444	90434	91274	0.84	cps
Barium	135-1	6763617	6743843	6698883	6735447	0.49	cps
Barium	137-1	11491182	11590688	11637439	11573103	0.65	cps
Beryllium	9-1	2009626	2034875	1962876	2002459	1.82	cps
Bismuth	209-1	7184755	7137066	7060979	7127600	0.88	cps
Bismuth	209-2	2701662	2643751	2950341	2765251	5.89	cps
Bromine	81-1	6165	5878	6168	6070	2.74	cps
Cadmium	108-1	102951	103192	101772	102638	0.74	cps
Cadmium	106-1	150520	150103	148412	149678	0.75	cps
Cadmium	111-1	1185904	1192625	1185643	1188057	0.33	cps
Calcium	43-1	10416347	10418470	10453810	10429542	0.20	cps
Calcium	44-1	167936291	168427917	165644888	167336365	0.89	cps
Carbon	12-1	2731209	2709239	2749421	2729956	0.74	cps
Carbon	12-2	21933	21442	21426	21600	1.33	cps
Chlorine	35-1	80784	79584	79986	80118	0.76	cps
Chlorine	35-2	340	357	343	347	2.54	cps
Chromium	52-2	1073250	1074107	1061536	1069631	0.66	cps
Cobalt	59-2	2032132	2059269	1994228	2028543	1.61	cps
Copper	63-2	14275700	14389858	14008586	14224715	1.38	cps
Dysprosium	156-1	447	317	397	387	16.96	cps
Dysprosium	156-2	63	63	73	67	8.66	cps
Erbium	164-1	330	350	373	351	6.18	cps
Erbium	164-2	113	97	103	104	8.03	cps
Gadolinium	160-1	260	240	280	260	7.69	cps
Gadolinium	160-2	130	70	83	94	33.36	cps
Holmium	165-1	12777984	12632249	12649347	12686526	0.63	cps
Holmium	165-2	4170742	4233822	4672449	4359004	6.27	cps
Indium	115-1	9432242	9249592	9134254	9272029	1.62	cps
Indium	115-2	871254	873773	957679	900902	5.46	cps
Iron	54-2	10947735	11190424	10827404	10988521	1.68	cps
Iron	56-2	203058784	205182257	199955377	202732139	1.30	cps
Iron	57-2	5172932	5119553	5118121	5136868	0.61	cps
Krypton	83-1	163	183	157	168	8.27	cps
Lead	206-1	21195440	21433539	21244247	21291075	0.59	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18570841	18596128	18348081	18505017	0.74	cps
Lead	208-1	84814325	85183828	84451143	84816432	0.43	cps
Lithium	6-1	5543722	5547124	5522229	5537692	0.24	cps
Magnesium	24-2	41407094	40350852	40473538	40743828	1.42	cps
Manganese	55-2	4849334	4898089	4812934	4853453	0.88	cps
Molybdenum	94-1	19544038	19583717	19595427	19574394	0.14	cps
Molybdenum	95-1	28055968	28122122	28171049	28116380	0.21	cps
Molybdenum	96-1	30813172	30729260	30516670	30686367	0.50	cps
Molybdenum	97-1	17098001	17302288	17197528	17199273	0.59	cps
Molybdenum	98-1	45437343	45666778	45226276	45443465	0.48	cps
Neodymium	150-1	900	733	767	800	11.02	cps
Neodymium	150-2	17	53	20	30	67.58	cps
Nickel	60-2	507656	507601	495555	503604	1.38	cps
Phosphorus	31-2	20802	21005	20454	20754	1.34	cps
Potassium	39-2	11725773	11734923	11667561	11709419	0.31	cps
Rhodium	103-1	8186701	8096208	8118783	8133897	0.58	cps
Rhodium	103-2	3031433	2993417	3335737	3120196	6.01	cps
Scandium	45-1	7487644	7329333	7396629	7404536	1.07	cps
Scandium	45-2	128650	126706	138796	131384	4.94	cps
Selenium	82-1	81952	81339	82626	81972	0.79	cps
Selenium	77-2	1273	1433	1210	1306	8.82	cps
Selenium	78-2	4377	4411	4564	4451	2.24	cps
Silicon	28-1	32587975	32385260	32124016	32365750	0.72	cps
Silver	107-1	6647329	6550565	6540238	6579377	0.90	cps
Silver	109-1	6237558	6264963	6178762	6227094	0.71	cps
Sodium	23-2	82741112	81757829	81384982	81961308	0.85	cps
Strontium	86-1	2038351	2039709	2015979	2031347	0.66	cps
Strontium	88-1	17183093	16929274	17073906	17062091	0.75	cps
Sulfur	34-1	1002107	993690	979457	991751	1.15	cps
Terbium	159-1	12825329	12719019	12658601	12734317	0.66	cps
Terbium	159-2	4088700	4115106	4460259	4221355	4.91	cps
Thallium	203-1	5470085	5490197	5477043	5479109	0.19	cps
Thallium	205-1	13113122	12959689	12871058	12981290	0.94	cps
Tin	118-1	4535560	4576219	4519730	4543837	0.64	cps
Titanium	47-1	9122969	8938725	8984430	9015375	1.06	cps
Uranium	238-1	17445584	17647215	17694722	17595840	0.75	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:49:30	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	859134	852144	849927	853735	0.56	cps
Ytterbium	172-1	333	317	323	324	2.59	cps
Ytterbium	172-2	140	113	133	129	10.76	cps
Ytterbium	176-1	27158	26600	26356	26705	1.54	cps
Ytterbium	176-2	8409	8209	8479	8366	1.68	cps
Yttrium	89-1	18158509	17992033	18019268	18056603	0.49	cps
Yttrium	89-2	1190209	1196729	1311071	1232669	5.51	cps
Zinc	66-2	1539352	1552764	1462385	1518167	3.21	cps
Zirconium	90-1	9934786	9879804	9902382	9905657	0.28	cps
Zirconium	91-1	2234926	2228560	2233602	2232363	0.15	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	80	60	107	82	28.48	cps
Antimony	121-1	517	503	527	516	2.27	cps
Arsenic	75-2	0	13	3	6	124.93	cps
Barium	135-1	767	693	723	728	5.07	cps
Barium	137-1	1273	1220	1193	1229	3.31	cps
Beryllium	9-1	542	551	530	541	1.97	cps
Bismuth	209-1	8294439	8000586	7939587	8078204	2.35	cps
Bismuth	209-2	3144853	3096324	3085857	3109011	1.01	cps
Bromine	81-1	5698	5371	5471	5513	3.04	cps
Cadmium	108-1	40	40	23	34	27.94	cps
Cadmium	106-1	5921	5521	6005	5816	4.44	cps
Cadmium	111-1	1200	1133	1265	1199	5.49	cps
Calcium	43-1	497	420	447	454	8.56	cps
Calcium	44-1	8059	7122	7115	7432	7.31	cps
Carbon	12-1	2620615	2604237	2669032	2631295	1.28	cps
Carbon	12-2	17424	17340	17574	17446	0.68	cps
Chlorine	35-1	65025	65912	66087	65675	0.87	cps
Chlorine	35-2	193	247	250	230	13.82	cps
Chromium	52-2	540	587	477	534	10.33	cps
Cobalt	59-2	217	227	223	222	2.29	cps
Copper	63-2	2387	2544	2384	2438	3.75	cps
Dysprosium	156-1	47	53	63	54	15.40	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	60	93	70	74	22.98	cps
Erbium	164-2	13	17	13	14	13.35	cps
Gadolinium	160-1	33	27	47	36	28.64	cps
Gadolinium	160-2	3	7	10	7	50.03	cps
Holmium	165-1	13176362	12884599	12779012	12946657	1.59	cps
Holmium	165-2	4227449	4347293	4297604	4290782	1.40	cps
Indium	115-1	10474502	10189479	10247700	10303894	1.46	cps
Indium	115-2	940257	941202	951555	944338	0.66	cps
Iron	54-2	457	510	397	454	12.48	cps
Iron	56-2	6875	7145	6925	6982	2.06	cps
Iron	57-2	120	137	163	140	15.61	cps
Krypton	83-1	137	127	130	131	3.88	cps
Lead	206-1	1837	1660	1620	1706	6.76	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1423	1380	1390	1398	1.62	cps
Lead	208-1	6927	6517	6454	6633	3.87	cps
Lithium	6-1	6365013	6218276	6203701	6262330	1.42	cps
Magnesium	24-2	763	763	727	751	2.82	cps
Manganese	55-2	330	337	370	346	6.20	cps
Molybdenum	94-1	670	653	553	626	10.09	cps
Molybdenum	95-1	710	597	550	619	13.30	cps
Molybdenum	96-1	907	690	700	766	15.98	cps
Molybdenum	97-1	387	347	317	350	10.04	cps
Molybdenum	98-1	1170	937	960	1022	12.57	cps
Neodymium	150-1	27	30	27	28	6.92	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	817	920	840	859	6.31	cps
Phosphorus	31-2	43	27	43	38	25.46	cps
Potassium	39-2	6978	6575	6525	6693	3.72	cps
Rhodium	103-1	9561349	9296023	9457440	9438271	1.42	cps
Rhodium	103-2	3497375	3506862	3573023	3525753	1.17	cps
Scandium	45-1	7884504	7679218	7562730	7708818	2.11	cps
Scandium	45-2	128999	127697	128555	128417	0.52	cps
Selenium	82-1	-23	-20	-17	-20	-16.67	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	0	10	13	8	89.21	cps
Silicon	28-1	355237	352827	352937	353667	0.38	cps
Silver	107-1	250	360	367	326	20.13	cps
Silver	109-1	243	203	250	232	10.87	cps
Sodium	23-2	19990	20508	19640	20046	2.18	cps
Strontium	86-1	303	227	240	257	15.96	cps
Strontium	88-1	503	527	550	527	4.43	cps
Sulfur	34-1	343418	342793	342588	342933	0.13	cps
Terbium	159-1	13312386	12997570	12966328	13092094	1.46	cps
Terbium	159-2	4108700	4235601	4194578	4179626	1.55	cps
Thallium	203-1	437	317	373	376	15.98	cps
Thallium	205-1	893	873	913	893	2.24	cps
Tin	118-1	1390	1243	1317	1317	5.57	cps
Titanium	47-1	207	207	190	201	4.79	cps
Uranium	238-1	263	180	170	204	25.07	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:56:19	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	10	17	14	26.66	cps
Ytterbium	172-1	57	77	67	67	15.00	cps
Ytterbium	172-2	43	17	27	29	46.62	cps
Ytterbium	176-1	1640	1653	1683	1659	1.34	cps
Ytterbium	176-2	190	240	283	238	19.64	cps
Yttrium	89-1	19105216	18608187	18514093	18742499	1.69	cps
Yttrium	89-2	1215510	1213045	1230840	1219798	0.79	cps
Zinc	66-2	290	267	257	271	6.31	cps
Zirconium	90-1	790	787	850	809	4.41	cps
Zirconium	91-1	190	157	177	174	9.62	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107	103	110	107	3.13	cps
Antimony	121-1	250	213	247	237	8.57	cps
Arsenic	75-2	0	17	3	7	132.33	cps
Barium	135-1	447	523	567	512	11.86	cps
Barium	137-1	837	900	930	889	5.36	cps
Beryllium	9-1	471	426	432	443	5.50	cps
Bismuth	209-1	8187374	8289436	8748070	8408293	3.55	cps
Bismuth	209-2	3365443	2763675	3081875	3070331	9.81	cps
Bromine	81-1	5471	5701	5421	5531	2.70	cps
Cadmium	108-1	33	47	30	37	24.06	cps
Cadmium	106-1	5625	5961	6241	5942	5.20	cps
Cadmium	111-1	1148	1210	1251	1203	4.28	cps
Calcium	43-1	357	390	407	384	6.62	cps
Calcium	44-1	7242	6788	6852	6961	3.53	cps
Carbon	12-1	2621392	2601627	2622482	2615167	0.45	cps
Carbon	12-2	17524	17080	17023	17209	1.59	cps
Chlorine	35-1	58738	58625	58300	58554	0.39	cps
Chlorine	35-2	200	257	207	221	14.01	cps
Chromium	52-2	587	583	497	556	9.18	cps
Cobalt	59-2	213	163	137	171	22.75	cps
Copper	63-2	3087	3010	3014	3037	1.43	cps
Dysprosium	156-1	57	57	57	57	0.00	cps
Dysprosium	156-2	3	10	3	6	69.34	cps
Erbium	164-1	83	80	67	77	11.50	cps
Erbium	164-2	13	13	27	18	43.33	cps
Gadolinium	160-1	30	20	50	33	45.83	cps
Gadolinium	160-2	17	7	13	12	41.65	cps
Holmium	165-1	12837159	13330141	13802774	13323358	3.62	cps
Holmium	165-2	4654642	3819430	4256985	4243686	9.84	cps
Indium	115-1	10219281	10432065	11182131	10611159	4.77	cps
Indium	115-2	1025473	837002	940894	934456	10.10	cps
Iron	54-2	300	327	327	318	4.84	cps
Iron	56-2	4824	4818	5031	4891	2.48	cps
Iron	57-2	123	127	100	117	12.45	cps
Krypton	83-1	127	137	153	139	9.70	cps
Lead	206-1	1473	1440	1453	1456	1.15	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1253	1133	1357	1248	8.96	cps
Lead	208-1	5867	5507	5994	5789	4.36	cps
Lithium	6-1	6374225	6446654	6622709	6481196	1.97	cps
Magnesium	24-2	373	407	423	401	6.35	cps
Manganese	55-2	310	273	333	306	9.90	cps
Molybdenum	94-1	387	410	303	367	15.29	cps
Molybdenum	95-1	203	217	233	218	6.90	cps
Molybdenum	96-1	403	257	343	334	22.05	cps
Molybdenum	97-1	150	103	117	123	19.49	cps
Molybdenum	98-1	413	377	373	388	5.72	cps
Neodymium	150-1	37	33	27	32	15.80	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	983	900	973	952	4.78	cps
Phosphorus	31-2	43	43	40	42	4.55	cps
Potassium	39-2	6688	6395	6361	6482	2.77	cps
Rhodium	103-1	9626520	9496404	10159867	9760930	3.60	cps
Rhodium	103-2	3807140	3085394	3462545	3451693	10.46	cps
Scandium	45-1	7627557	7957246	8395031	7993278	4.82	cps
Scandium	45-2	140859	113408	128367	127545	10.78	cps
Selenium	82-1	-3	-3	-60	-22	-147.25	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	17	0	0	6	173.21	cps
Silicon	28-1	352734	352339	352120	352398	0.09	cps
Silver	107-1	203	157	223	194	17.59	cps
Silver	109-1	110	120	167	132	22.88	cps
Sodium	23-2	18605	18936	18755	18765	0.88	cps
Strontium	86-1	280	257	253	263	5.52	cps
Strontium	88-1	593	600	567	587	3.01	cps
Sulfur	34-1	345117	345373	343196	344562	0.35	cps
Terbium	159-1	13158913	13538824	14290795	13662844	4.22	cps
Terbium	159-2	4480059	3681410	4157388	4106286	9.78	cps
Thallium	203-1	347	333	273	318	12.29	cps
Thallium	205-1	760	717	697	724	4.47	cps
Tin	118-1	1337	1353	1283	1325	2.76	cps
Titanium	47-1	100	120	157	126	22.89	cps
Uranium	238-1	13	23	20	19	26.96	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 12:59:45	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	0	7	86.60	cps
Ytterbium	172-1	67	93	60	73	24.05	cps
Ytterbium	172-2	23	27	33	28	18.33	cps
Ytterbium	176-1	1573	1650	1687	1637	3.53	cps
Ytterbium	176-2	257	230	217	234	8.69	cps
Yttrium	89-1	18711359	18989478	20189896	19296911	4.07	cps
Yttrium	89-2	1309420	1082030	1216491	1202647	9.51	cps
Zinc	66-2	380	460	407	416	9.80	cps
Zirconium	90-1	663	627	650	647	2.87	cps
Zirconium	91-1	107	140	137	128	14.37	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	500820	504345	500568	501911	0.42	cps
Antimony	121-1	5539317	5595453	5622215	5585662	0.76	cps
Arsenic	75-2	98968	98648	99169	98928	0.27	cps
Barium	135-1	6895773	7081693	7058496	7011988	1.44	cps
Barium	137-1	11992319	12290075	12179946	12154114	1.24	cps
Beryllium	9-1	2114323	2192239	2157244	2154602	1.81	cps
Bismuth	209-1	8095476	7224294	7981843	7767204	6.10	cps
Bismuth	209-2	3035593	3022584	2942161	3000113	1.69	cps
Bromine	81-1	5488	5758	5778	5675	2.86	cps
Cadmium	108-1	110172	113775	112853	112267	1.67	cps
Cadmium	106-1	161061	164042	165141	163415	1.29	cps
Cadmium	111-1	1278549	1317289	1323675	1306504	1.87	cps
Calcium	43-1	2229403	2294356	2248973	2257577	1.48	cps
Calcium	44-1	35430884	36125311	35500500	35685565	1.07	cps
Carbon	12-1	2770838	2853729	2932260	2852275	2.83	cps
Carbon	12-2	20514	20468	20431	20471	0.20	cps
Chlorine	35-1	81323	83764	86805	83964	3.27	cps
Chlorine	35-2	420	360	357	379	9.41	cps
Chromium	52-2	1153234	1160197	1166790	1160074	0.58	cps
Cobalt	59-2	2271219	2247059	2243475	2253918	0.67	cps
Copper	63-2	16409786	16435206	16366503	16403831	0.21	cps
Dysprosium	156-1	233	243	197	224	10.95	cps
Dysprosium	156-2	23	10	20	18	39.03	cps
Erbium	164-1	137	150	123	137	9.75	cps
Erbium	164-2	40	57	53	50	17.64	cps
Gadolinium	160-1	63	123	107	98	31.68	cps
Gadolinium	160-2	27	30	50	36	35.49	cps
Holmium	165-1	13772378	12100036	13594411	13155608	6.98	cps
Holmium	165-2	4430378	4345095	4384199	4386558	0.97	cps
Indium	115-1	10317357	9288228	10373721	9993102	6.12	cps
Indium	115-2	942553	940266	934696	939172	0.43	cps
Iron	54-2	2482929	2478492	2566573	2509331	1.98	cps
Iron	56-2	44755858	45095436	44990839	44947378	0.39	cps
Iron	57-2	1078804	1082970	1090056	1083943	0.52	cps
Krypton	83-1	157	173	137	156	11.80	cps
Lead	206-1	22485795	23225490	22556636	22755974	1.79	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19426345	19747336	19816973	19663551	1.06	cps
Lead	208-1	89461837	91246968	90601840	90436882	1.00	cps
Lithium	6-1	6314796	5700913	6203357	6073022	5.39	cps
Magnesium	24-2	8963447	9087756	8963715	9004973	0.80	cps
Manganese	55-2	5253482	5307119	5259739	5273447	0.56	cps
Molybdenum	94-1	19916672	20258329	20338737	20171246	1.11	cps
Molybdenum	95-1	29188363	28960232	29536408	29228334	0.99	cps
Molybdenum	96-1	31303810	31653050	31595854	31517571	0.59	cps
Molybdenum	97-1	17570121	17834118	18100944	17835061	1.49	cps
Molybdenum	98-1	45848181	47119751	47419001	46795644	1.78	cps
Neodymium	150-1	543	767	697	669	17.08	cps
Neodymium	150-2	23	17	23	21	18.21	cps
Nickel	60-2	572495	572163	574205	572954	0.19	cps
Phosphorus	31-2	22377	22087	22110	22191	0.73	cps
Potassium	39-2	2493569	2535657	2528337	2519188	0.89	cps
Rhodium	103-1	9347518	8249196	9423429	9006714	7.30	cps
Rhodium	103-2	3443204	3402440	3394389	3413345	0.77	cps
Scandium	45-1	8170096	7107402	8081158	7786219	7.57	cps
Scandium	45-2	133890	134788	133302	133993	0.56	cps
Selenium	82-1	87465	88712	89336	88504	1.08	cps
Selenium	77-2	1450	1537	1547	1511	3.52	cps
Selenium	78-2	4954	4637	4821	4804	3.31	cps
Silicon	28-1	20620433	20917018	21006418	20847956	0.97	cps
Silver	107-1	7360480	7414528	7347064	7374024	0.48	cps
Silver	109-1	6881461	6899341	7035234	6938679	1.21	cps
Sodium	23-2	18012733	18106169	17774152	17964352	0.95	cps
Strontium	86-1	2099737	2133160	2123594	2118831	0.81	cps
Strontium	88-1	17684223	17892051	18205662	17927312	1.46	cps
Sulfur	34-1	915850	913741	917876	915822	0.23	cps
Terbium	159-1	13702125	12225526	13997086	13308245	7.13	cps
Terbium	159-2	4273722	4310256	4292847	4292275	0.43	cps
Thallium	203-1	5783582	5921909	5966199	5890563	1.62	cps
Thallium	205-1	13659446	13958841	13764749	13794345	1.10	cps
Tin	118-1	4789202	4881505	4809984	4826897	1.00	cps
Titanium	47-1	9212522	9424518	9298404	9311815	1.15	cps
Uranium	238-1	17870956	18152289	18007871	18010372	0.78	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:03:08	DataFile Name :	052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	910808	910497	911768	911025	0.07	cps
Ytterbium	172-1	137	120	150	136	11.09	cps
Ytterbium	172-2	47	43	33	41	16.89	cps
Ytterbium	176-1	26186	26981	27445	26871	2.37	cps
Ytterbium	176-2	8743	8403	8840	8662	2.65	cps
Yttrium	89-1	19505766	17458738	19768573	18911026	6.69	cps
Yttrium	89-2	1259501	1255454	1253542	1256166	0.24	cps
Zinc	66-2	1822125	1782239	1796345	1800236	1.12	cps
Zirconium	90-1	9963716	10196699	10197841	10119419	1.33	cps
Zirconium	91-1	2263485	2278987	2315745	2286073	1.17	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2388890	2383523	2366132	2379515	0.50	cps
Antimony	121-1	5041180	5128397	5044255	5071277	0.98	cps
Arsenic	75-2	89730	88898	90039	89555	0.66	cps
Barium	135-1	6567765	6659515	6599496	6608925	0.71	cps
Barium	137-1	11397572	11356896	11383949	11379472	0.18	cps
Beryllium	9-1	1967529	1962331	1945993	1958618	0.57	cps
Bismuth	209-1	6970429	7027929	6999668	6999342	0.41	cps
Bismuth	209-2	2655301	2667443	2641563	2654769	0.49	cps
Bromine	81-1	6065	5928	5678	5890	3.33	cps
Cadmium	108-1	100328	99418	100049	99932	0.47	cps
Cadmium	106-1	145696	146936	145420	146017	0.55	cps
Cadmium	111-1	1145593	1157465	1156167	1153075	0.56	cps
Calcium	43-1	10159734	10187000	9973578	10106771	1.15	cps
Calcium	44-1	163992281	163139154	163529401	163553612	0.26	cps
Carbon	12-1	2735041	2716994	2806857	2752964	1.73	cps
Carbon	12-2	21366	21239	21179	21261	0.45	cps
Chlorine	35-1	69697	70393	70943	70344	0.89	cps
Chlorine	35-2	313	273	263	283	9.34	cps
Chromium	52-2	1054411	1041307	1042705	1046141	0.69	cps
Cobalt	59-2	1987275	1984914	1975397	1982528	0.32	cps
Copper	63-2	14045839	13966502	14008029	14006790	0.28	cps
Dysprosium	156-1	347	350	367	354	3.02	cps
Dysprosium	156-2	63	97	70	77	23.01	cps
Erbium	164-1	273	283	330	296	10.23	cps
Erbium	164-2	90	113	97	100	12.02	cps
Gadolinium	160-1	243	283	237	254	9.92	cps
Gadolinium	160-2	93	90	100	94	5.39	cps
Holmium	165-1	12423922	12306636	12482638	12404399	0.72	cps
Holmium	165-2	4187514	4188437	4190340	4188764	0.03	cps
Indium	115-1	9155850	9034107	9185450	9125136	0.88	cps
Indium	115-2	855729	855148	854239	855039	0.09	cps
Iron	54-2	10920525	10807563	10762604	10830231	0.75	cps
Iron	56-2	198920310	197074390	197369330	197788010	0.50	cps
Iron	57-2	5073593	5044127	5013922	5043881	0.59	cps
Krypton	83-1	210	170	220	200	13.23	cps
Lead	206-1	20588358	20647947	20892597	20709634	0.78	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17787484	17922809	17843349	17851214	0.38	cps
Lead	208-1	82001068	82419562	82090701	82170444	0.27	cps
Lithium	6-1	5626063	5568053	5701247	5631788	1.19	cps
Magnesium	24-2	40469181	39887818	39650635	40002545	1.05	cps
Manganese	55-2	4800721	4753215	4700889	4751608	1.05	cps
Molybdenum	94-1	18830428	19185559	18847185	18954391	1.06	cps
Molybdenum	95-1	26990835	27809906	26949611	27250117	1.78	cps
Molybdenum	96-1	29961862	30312598	29742538	30005666	0.96	cps
Molybdenum	97-1	16741156	16959908	16781964	16827676	0.69	cps
Molybdenum	98-1	43710293	43816864	43672389	43733182	0.17	cps
Neodymium	150-1	727	760	897	794	11.34	cps
Neodymium	150-2	63	33	57	51	30.82	cps
Nickel	60-2	497189	491220	494215	494208	0.60	cps
Phosphorus	31-2	20124	19847	19947	19973	0.70	cps
Potassium	39-2	11623671	11459036	11313781	11465496	1.35	cps
Rhodium	103-1	8139551	8008600	8071634	8073262	0.81	cps
Rhodium	103-2	2989147	3007840	2974007	2990331	0.57	cps
Scandium	45-1	7408713	7206178	7313488	7309460	1.39	cps
Scandium	45-2	124601	125398	124244	124748	0.47	cps
Selenium	82-1	79421	78114	78365	78633	0.88	cps
Selenium	77-2	1343	1310	1253	1302	3.49	cps
Selenium	78-2	4504	4331	4434	4423	1.97	cps
Silicon	28-1	32014061	31312501	31479287	31601950	1.16	cps
Silver	107-1	6361077	6468844	6379191	6403038	0.90	cps
Silver	109-1	6032636	6081709	6090594	6068313	0.51	cps
Sodium	23-2	80530714	80150597	79088847	79923386	0.94	cps
Strontium	86-1	1944262	1958869	1968673	1957268	0.63	cps
Strontium	88-1	16670316	16764350	16578951	16671206	0.56	cps
Sulfur	34-1	964860	957878	955625	959455	0.50	cps
Terbium	159-1	12645111	12805982	12535736	12662276	1.07	cps
Terbium	159-2	4047276	3984774	3969719	4000590	1.03	cps
Thallium	203-1	5281056	5317939	5422491	5340495	1.37	cps
Thallium	205-1	12793009	12735814	12696401	12741741	0.38	cps
Tin	118-1	4341425	4493997	4407905	4414442	1.73	cps
Titanium	47-1	8748953	8717055	8747571	8737860	0.21	cps
Uranium	238-1	16968091	17145503	16970713	17028103	0.60	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:05:58	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	840591	839366	830831	836929	0.64	cps
Ytterbium	172-1	303	310	387	333	13.89	cps
Ytterbium	172-2	150	103	160	138	21.95	cps
Ytterbium	176-1	25568	26059	25505	25711	1.18	cps
Ytterbium	176-2	8189	8453	8476	8373	1.90	cps
Yttrium	89-1	17875193	17701249	17940076	17838839	0.69	cps
Yttrium	89-2	1176568	1168729	1169431	1171576	0.37	cps
Zinc	66-2	1432591	1523718	1439775	1465361	3.46	cps
Zirconium	90-1	9619081	9628874	9464895	9570950	0.96	cps
Zirconium	91-1	2164448	2204858	2189024	2186110	0.93	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	70	80	67	72	9.61	cps
Antimony	121-1	233	213	273	240	12.73	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	500	437	477	471	6.80	cps
Barium	137-1	760	820	827	802	4.58	cps
Beryllium	9-1	482	467	447	466	3.77	cps
Bismuth	209-1	8282459	8320493	8325789	8309580	0.28	cps
Bismuth	209-2	3135431	3079964	3229080	3148158	2.39	cps
Bromine	81-1	5668	5561	5444	5558	2.01	cps
Cadmium	108-1	43	33	37	38	13.48	cps
Cadmium	106-1	5878	6248	5965	6030	3.21	cps
Cadmium	111-1	1209	1270	1201	1226	3.08	cps
Calcium	43-1	370	370	357	366	2.11	cps
Calcium	44-1	5938	6058	6071	6022	1.22	cps
Carbon	12-1	2479338	2484409	2501523	2488423	0.47	cps
Carbon	12-2	16763	16413	16586	16587	1.06	cps
Chlorine	35-1	49969	48193	48799	48987	1.84	cps
Chlorine	35-2	170	180	120	157	20.52	cps
Chromium	52-2	517	543	490	517	5.16	cps
Cobalt	59-2	133	173	193	167	18.33	cps
Copper	63-2	2984	2834	2824	2880	3.11	cps
Dysprosium	156-1	60	57	43	53	16.54	cps
Dysprosium	156-2	10	3	0	4	114.60	cps
Erbium	164-1	63	77	50	63	21.06	cps
Erbium	164-2	17	17	13	16	12.40	cps
Gadolinium	160-1	17	37	43	32	43.06	cps
Gadolinium	160-2	20	13	10	14	35.26	cps
Holmium	165-1	13440907	13117701	12906546	13155051	2.05	cps
Holmium	165-2	4453376	4298233	4498760	4416789	2.38	cps
Indium	115-1	10598236	10287134	10311335	10398901	1.66	cps
Indium	115-2	977684	938810	984031	966842	2.53	cps
Iron	54-2	347	337	317	333	4.58	cps
Iron	56-2	4814	5045	4417	4759	6.67	cps
Iron	57-2	87	140	110	112	23.82	cps
Krypton	83-1	107	100	80	96	14.52	cps
Lead	206-1	1310	1307	1370	1329	2.68	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1250	1247	1213	1237	1.64	cps
Lead	208-1	5647	5377	5377	5467	2.85	cps
Lithium	6-1	6499469	6484037	6280189	6421231	1.91	cps
Magnesium	24-2	420	337	397	384	11.18	cps
Manganese	55-2	297	273	330	300	9.49	cps
Molybdenum	94-1	327	360	220	302	24.20	cps
Molybdenum	95-1	227	197	257	227	13.24	cps
Molybdenum	96-1	293	307	220	273	17.07	cps
Molybdenum	97-1	117	143	113	124	13.22	cps
Molybdenum	98-1	310	310	293	304	3.16	cps
Neodymium	150-1	13	3	17	11	62.48	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1010	883	1033	976	8.27	cps
Phosphorus	31-2	53	37	40	43	20.34	cps
Potassium	39-2	6465	6495	6408	6456	0.68	cps
Rhodium	103-1	9635940	9451913	9626486	9571446	1.08	cps
Rhodium	103-2	3642736	3521827	3637521	3600695	1.90	cps
Scandium	45-1	8007561	7784338	7729407	7840435	1.88	cps
Scandium	45-2	130802	127054	133923	130593	2.63	cps
Selenium	82-1	60	10	20	30	88.19	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	0	1	173.21	cps
Silicon	28-1	347431	347948	344937	346772	0.46	cps
Silver	107-1	173	180	247	200	20.28	cps
Silver	109-1	90	107	110	102	10.48	cps
Sodium	23-2	17831	17891	17684	17802	0.60	cps
Strontium	86-1	200	233	223	219	7.82	cps
Strontium	88-1	493	470	513	492	4.41	cps
Sulfur	34-1	332957	333460	331459	332626	0.31	cps
Terbium	159-1	13758390	13158042	13312712	13409715	2.32	cps
Terbium	159-2	4342337	4091967	4343687	4259330	3.40	cps
Thallium	203-1	333	327	393	351	10.46	cps
Thallium	205-1	787	847	800	811	3.88	cps
Tin	118-1	1233	1157	1190	1193	3.22	cps
Titanium	47-1	147	140	147	144	2.67	cps
Uranium	238-1	60	27	37	41	41.60	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:19:04	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	7	3	8	65.47	cps
Ytterbium	172-1	90	67	83	80	15.02	cps
Ytterbium	172-2	37	37	37	37	0.00	cps
Ytterbium	176-1	1660	1643	1777	1693	4.29	cps
Ytterbium	176-2	223	197	187	202	9.37	cps
Yttrium	89-1	19435357	18931782	18805716	19057618	1.75	cps
Yttrium	89-2	1259504	1207589	1268870	1245321	2.65	cps
Zinc	66-2	353	307	317	326	7.55	cps
Zirconium	90-1	613	550	583	582	5.44	cps
Zirconium	91-1	163	90	153	136	29.34	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	63	57	90	70	25.20	cps
Antimony	121-1	217	190	177	194	10.47	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	357	450	380	396	12.28	cps
Barium	137-1	617	697	643	652	6.25	cps
Beryllium	9-1	416	464	409	430	6.94	cps
Bismuth	209-1	8125105	8497938	8182683	8268576	2.43	cps
Bismuth	209-2	3330515	3152620	3150668	3211268	3.22	cps
Bromine	81-1	5484	5488	5818	5597	3.42	cps
Cadmium	108-1	33	23	57	38	45.29	cps
Cadmium	106-1	5765	6101	5681	5849	3.80	cps
Cadmium	111-1	1166	1241	1137	1181	4.54	cps
Calcium	43-1	377	390	363	377	3.54	cps
Calcium	44-1	6045	6105	6328	6159	2.43	cps
Carbon	12-1	2492371	2515820	2507750	2505314	0.48	cps
Carbon	12-2	16416	17023	16082	16507	2.89	cps
Chlorine	35-1	47013	47712	48478	47734	1.53	cps
Chlorine	35-2	207	150	163	173	17.09	cps
Chromium	52-2	460	523	510	498	6.71	cps
Cobalt	59-2	120	153	153	142	13.53	cps
Copper	63-2	2884	2597	2840	2774	5.57	cps
Dysprosium	156-1	40	37	43	40	8.32	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	87	93	67	82	16.87	cps
Erbium	164-2	17	13	23	18	28.64	cps
Gadolinium	160-1	57	43	20	40	46.40	cps
Gadolinium	160-2	7	13	3	8	65.47	cps
Holmium	165-1	13138895	13401824	13042180	13194300	1.41	cps
Holmium	165-2	4620193	4427755	4469113	4505687	2.25	cps
Indium	115-1	10442753	10841224	10337771	10540583	2.52	cps
Indium	115-2	995249	966321	961456	974342	1.87	cps
Iron	54-2	310	327	283	307	7.13	cps
Iron	56-2	4657	4838	4794	4763	1.97	cps
Iron	57-2	127	133	133	131	2.94	cps
Krypton	83-1	127	133	120	127	5.27	cps
Lead	206-1	1207	1230	1323	1253	4.93	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1170	1197	1013	1127	8.79	cps
Lead	208-1	5157	5120	5114	5130	0.46	cps
Lithium	6-1	6324260	6496578	6318511	6379783	1.59	cps
Magnesium	24-2	323	433	397	384	14.57	cps
Manganese	55-2	290	290	263	281	5.48	cps
Molybdenum	94-1	350	317	310	326	6.58	cps
Molybdenum	95-1	217	193	213	208	6.07	cps
Molybdenum	96-1	297	277	273	282	4.47	cps
Molybdenum	97-1	87	113	120	107	16.53	cps
Molybdenum	98-1	313	310	273	299	7.43	cps
Neodymium	150-1	27	20	43	30	40.05	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1003	983	860	949	8.18	cps
Phosphorus	31-2	20	10	27	19	44.42	cps
Potassium	39-2	6221	6558	6058	6279	4.06	cps
Rhodium	103-1	9523654	9894940	9383666	9600753	2.75	cps
Rhodium	103-2	3673471	3550742	3505269	3576494	2.43	cps
Scandium	45-1	7839551	8196931	7709814	7915432	3.19	cps
Scandium	45-2	134823	130826	128548	131399	2.42	cps
Selenium	82-1	-50	-60	13	-32	-123.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	10	0	11	105.35	cps
Silicon	28-1	344922	347758	343242	345307	0.66	cps
Silver	107-1	197	210	177	194	8.63	cps
Silver	109-1	87	83	100	90	9.80	cps
Sodium	23-2	17594	17360	16843	17266	2.23	cps
Strontium	86-1	227	313	273	271	16.00	cps
Strontium	88-1	463	550	457	490	10.63	cps
Sulfur	34-1	332972	337057	335243	335091	0.61	cps
Terbium	159-1	13292276	13909905	13040435	13414205	3.34	cps
Terbium	159-2	4374892	4264014	4193064	4277323	2.14	cps
Thallium	203-1	397	310	263	323	20.93	cps
Thallium	205-1	773	730	743	749	2.96	cps
Tin	118-1	1317	1203	1180	1233	5.93	cps
Titanium	47-1	137	123	103	121	13.86	cps
Uranium	238-1	33	23	30	29	17.63	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BL	Instrumnet Name :	P8
Client Sample ID :	PBW174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:22:28	DataFile Name :	058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	17	10	14	26.66	cps
Ytterbium	172-1	43	53	73	57	26.96	cps
Ytterbium	172-2	37	13	17	22	56.80	cps
Ytterbium	176-1	1720	1727	1617	1688	3.65	cps
Ytterbium	176-2	243	230	203	226	9.03	cps
Yttrium	89-1	18807821	19508612	18633515	18983316	2.44	cps
Yttrium	89-2	1340554	1246342	1226751	1271216	4.79	cps
Zinc	66-2	280	380	297	319	16.80	cps
Zirconium	90-1	607	713	630	650	8.63	cps
Zirconium	91-1	133	123	120	126	5.53	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2317	2217	2280	2271	2.23	cps
Antimony	121-1	42355	41433	42389	42059	1.29	cps
Arsenic	75-2	457	440	390	429	8.09	cps
Barium	135-1	55028	54141	54007	54392	1.02	cps
Barium	137-1	94040	95456	94252	94583	0.81	cps
Beryllium	9-1	9023	9065	9193	9094	0.97	cps
Bismuth	209-1	7211903	8082556	8206938	7833799	6.92	cps
Bismuth	209-2	3148717	3383440	3640220	3390792	7.25	cps
Bromine	81-1	5518	5558	5608	5561	0.81	cps
Cadmium	108-1	443	483	513	480	7.32	cps
Cadmium	106-1	5865	6705	6658	6409	7.37	cps
Cadmium	111-1	6367	6517	6610	6498	1.89	cps
Calcium	43-1	44041	44151	43967	44053	0.21	cps
Calcium	44-1	705528	708465	706150	706714	0.22	cps
Carbon	12-1	2521948	2518843	2493238	2511343	0.63	cps
Carbon	12-2	16613	16766	16563	16647	0.64	cps
Chlorine	35-1	975945	1143461	1198181	1105862	10.47	cps
Chlorine	35-2	4544	4711	4818	4691	2.94	cps
Chromium	52-2	9256	9510	9443	9403	1.40	cps
Cobalt	59-2	8786	8519	8596	8634	1.59	cps
Copper	63-2	16750	16750	17127	16876	1.29	cps
Dysprosium	156-1	47	40	67	51	27.15	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	63	80	97	80	20.84	cps
Erbium	164-2	20	43	27	30	40.05	cps
Gadolinium	160-1	53	40	33	42	24.12	cps
Gadolinium	160-2	7	13	0	7	99.98	cps
Holmium	165-1	11644429	12649788	12898979	12397732	5.36	cps
Holmium	165-2	4484112	4843348	5097185	4808215	6.41	cps
Indium	115-1	9257926	10032163	10236975	9842355	5.25	cps
Indium	115-2	971698	1048684	1128586	1049656	7.47	cps
Iron	54-2	39060	38846	37913	38606	1.58	cps
Iron	56-2	708938	712656	712205	711266	0.29	cps
Iron	57-2	18035	17721	17518	17758	1.47	cps
Krypton	83-1	140	177	107	141	24.81	cps
Lead	206-1	19498	19518	19495	19504	0.06	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16941	17195	17081	17072	0.74	cps
Lead	208-1	78066	78617	78403	78362	0.35	cps
Lithium	6-1	5909613	6310592	6361684	6193963	4.00	cps
Magnesium	24-2	169584	168444	165484	167837	1.26	cps
Manganese	55-2	2294	2534	2337	2388	5.36	cps
Molybdenum	94-1	45594	46023	46307	45975	0.78	cps
Molybdenum	95-1	56230	55895	55109	55744	1.03	cps
Molybdenum	96-1	60772	61522	61090	61128	0.62	cps
Molybdenum	97-1	33971	34446	34663	34360	1.03	cps
Molybdenum	98-1	87350	89359	88523	88410	1.14	cps
Neodymium	150-1	53	23	27	34	47.73	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	3367	3304	3167	3279	3.12	cps
Phosphorus	31-2	113	153	110	126	19.21	cps
Potassium	39-2	103605	102212	101275	102364	1.15	cps
Rhodium	103-1	8378948	9250420	9396213	9008527	6.11	cps
Rhodium	103-2	3521214	3880004	4129874	3843698	7.96	cps
Scandium	45-1	6960164	7636118	7697436	7431239	5.51	cps
Scandium	45-2	131607	141736	152951	142098	7.51	cps
Selenium	82-1	1670	1587	1803	1687	6.48	cps
Selenium	77-2	37	47	27	37	27.27	cps
Selenium	78-2	83	127	110	107	20.50	cps
Silicon	28-1	584926	584409	601003	590113	1.60	cps
Silver	107-1	27654	27377	27985	27672	1.10	cps
Silver	109-1	26115	26188	26776	26360	1.38	cps
Sodium	23-2	361347	359359	356644	359116	0.66	cps
Strontium	86-1	8009	7659	7679	7782	2.53	cps
Strontium	88-1	65412	65513	65774	65566	0.28	cps
Sulfur	34-1	336651	339123	340895	338890	0.63	cps
Terbium	159-1	11876639	12992529	13260200	12709789	5.77	cps
Terbium	159-2	4281076	4537688	4944886	4587883	7.30	cps
Thallium	203-1	23144	22803	22500	22816	1.41	cps
Thallium	205-1	54333	54450	54765	54516	0.41	cps
Tin	118-1	91560	92868	93087	92505	0.89	cps
Titanium	47-1	20054	19861	19627	19847	1.08	cps
Uranium	238-1	69539	68896	68654	69030	0.66	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166174BS	Instrumnet Name :	P8
Client Sample ID :	LCS174	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:25:52	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17798	17074	17594	17489	2.14	cps
Ytterbium	172-1	53	53	80	62	24.75	cps
Ytterbium	172-2	10	53	20	28	81.68	cps
Ytterbium	176-1	1513	1733	1823	1690	9.44	cps
Ytterbium	176-2	243	233	273	250	8.33	cps
Yttrium	89-1	17045391	18459226	18702527	18069048	4.95	cps
Yttrium	89-2	1246692	1421228	1527023	1398314	10.12	cps
Zinc	66-2	3897	3831	3781	3836	1.53	cps
Zirconium	90-1	39372	39887	38433	39231	1.88	cps
Zirconium	91-1	8906	8890	8823	8873	0.50	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	693	840	750	761	9.72	cps
Antimony	121-1	313	263	320	299	10.36	cps
Arsenic	75-2	43	87	30	53	55.56	cps
Barium	135-1	310815	312964	313753	312510	0.49	cps
Barium	137-1	538934	542395	544875	542068	0.55	cps
Beryllium	9-1	2017	1964	2047	2009	2.11	cps
Bismuth	209-1	7704231	7566969	7734760	7668654	1.17	cps
Bismuth	209-2	3003326	2987478	3046494	3012432	1.01	cps
Bromine	81-1	74337	95724	108862	92974	18.74	cps
Cadmium	108-1	233	267	197	232	15.08	cps
Cadmium	106-1	6095	6175	6322	6197	1.86	cps
Cadmium	111-1	3703	3742	4014	3819	4.43	cps
Calcium	43-1	2053388	2057174	2095447	2068670	1.12	cps
Calcium	44-1	32811690	32922269	33462674	33065544	1.05	cps
Carbon	12-1	5774607	6789252	7372037	6645299	12.16	cps
Carbon	12-2	53239	54464	55360	54354	1.96	cps
Chlorine	35-1	9432790	10536613	11005280	10324895	7.82	cps
Chlorine	35-2	43214	44418	43559	43730	1.42	cps
Chromium	52-2	11692	11625	11882	11733	1.14	cps
Cobalt	59-2	8413	8072	8016	8167	2.63	cps
Copper	63-2	3937	4124	3914	3992	2.88	cps
Dysprosium	156-1	18586	19571	19685	19281	3.13	cps
Dysprosium	156-2	4854	4774	5168	4932	4.22	cps
Erbium	164-1	11692	11895	12026	11871	1.42	cps
Erbium	164-2	3987	3827	3824	3880	2.41	cps
Gadolinium	160-1	13874	13951	14178	14001	1.13	cps
Gadolinium	160-2	5531	5511	5414	5486	1.14	cps
Holmium	165-1	12913507	12826506	13026642	12922218	0.78	cps
Holmium	165-2	4326753	4364730	4423544	4371676	1.12	cps
Indium	115-1	10056450	9823343	9885922	9921905	1.22	cps
Indium	115-2	937642	934710	941280	937877	0.35	cps
Iron	54-2	2370	2124	2250	2248	5.49	cps
Iron	56-2	31942	32143	32307	32131	0.57	cps
Iron	57-2	943	857	820	873	7.25	cps
Krypton	83-1	187	167	157	170	8.99	cps
Lead	206-1	5324	4818	4778	4973	6.13	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4464	3971	3797	4077	8.49	cps
Lead	208-1	20326	18312	17785	18808	7.13	cps
Lithium	6-1	6229190	6252571	6229586	6237116	0.21	cps
Magnesium	24-2	4101194	4076508	4095230	4090977	0.31	cps
Manganese	55-2	1603886	1579795	1579214	1587631	0.89	cps
Molybdenum	94-1	703	743	747	731	3.30	cps
Molybdenum	95-1	833	823	843	833	1.20	cps
Molybdenum	96-1	940	750	883	858	11.37	cps
Molybdenum	97-1	487	490	480	486	1.05	cps
Molybdenum	98-1	1160	1230	1183	1191	2.99	cps
Neodymium	150-1	24001	24349	24312	24221	0.79	cps
Neodymium	150-2	5728	5968	6061	5919	2.91	cps
Nickel	60-2	11281	11541	11481	11435	1.19	cps
Phosphorus	31-2	47	50	40	46	11.18	cps
Potassium	39-2	463199	458331	467268	462932	0.97	cps
Rhodium	103-1	8873364	8931132	8868220	8890906	0.39	cps
Rhodium	103-2	3345346	3368642	3343981	3352656	0.41	cps
Scandium	45-1	7635528	7674671	7789714	7699971	1.04	cps
Scandium	45-2	128071	128908	130879	129286	1.11	cps
Selenium	82-1	523	583	710	606	15.74	cps
Selenium	77-2	20	30	27	26	19.92	cps
Selenium	78-2	30	33	53	39	32.45	cps
Silicon	28-1	51859966	52017933	53169896	52349265	1.37	cps
Silver	107-1	650	463	463	526	20.51	cps
Silver	109-1	387	393	297	359	15.04	cps
Sodium	23-2	22374591	22272318	22231618	22292842	0.33	cps
Strontium	86-1	1239953	1250830	1263678	1251487	0.95	cps
Strontium	88-1	11199374	11197354	11269846	11222191	0.37	cps
Sulfur	34-1	1025544	1034797	1047104	1035815	1.04	cps
Terbium	159-1	13267344	12848285	13065929	13060520	1.60	cps
Terbium	159-2	4257591	4191220	4180253	4209688	0.99	cps
Thallium	203-1	6091	6038	6102	6077	0.56	cps
Thallium	205-1	14588	14682	14869	14713	0.97	cps
Tin	118-1	5018	4888	5041	4982	1.66	cps
Titanium	47-1	1347	1530	1373	1417	6.99	cps
Uranium	238-1	237	210	223	223	5.97	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-01	Instrumnet Name :	P8
Client Sample ID :	MC0B00	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:29:13	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	100	103	77	93	15.56	cps
Ytterbium	172-1	3691	3337	3467	3498	5.11	cps
Ytterbium	172-2	1317	1450	1280	1349	6.63	cps
Ytterbium	176-1	3854	3697	3984	3845	3.73	cps
Ytterbium	176-2	960	983	1037	993	3.96	cps
Yttrium	89-1	19389502	19191365	18858691	19146520	1.40	cps
Yttrium	89-2	1263489	1250709	1262003	1258733	0.56	cps
Zinc	66-2	3377	3384	3504	3422	2.08	cps
Zirconium	90-1	850	877	923	883	4.20	cps
Zirconium	91-1	227	200	190	206	9.22	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6782	6645	7155	6861	3.85	cps
Antimony	121-1	300	303	293	299	1.70	cps
Arsenic	75-2	67	57	63	62	8.18	cps
Barium	135-1	295158	297553	299809	297507	0.78	cps
Barium	137-1	510393	516138	521291	515941	1.06	cps
Beryllium	9-1	722	704	701	709	1.64	cps
Bismuth	209-1	7762377	7891273	7350454	7668035	3.68	cps
Bismuth	209-2	3165255	3087138	3074996	3109130	1.58	cps
Bromine	81-1	35027	36484	36735	36082	2.56	cps
Cadmium	108-1	40	53	37	43	20.34	cps
Cadmium	106-1	6065	5671	6018	5918	3.63	cps
Cadmium	111-1	1388	1284	1358	1343	4.01	cps
Calcium	43-1	1130225	1150761	1163261	1148083	1.45	cps
Calcium	44-1	19068585	19316083	19441834	19275501	0.99	cps
Carbon	12-1	6727059	7587468	8099089	7471205	9.28	cps
Carbon	12-2	56505	56357	58238	57033	1.83	cps
Chlorine	35-1	3158681	3328479	3488314	3325158	4.96	cps
Chlorine	35-2	13290	13723	13506	13506	1.61	cps
Chromium	52-2	3197	3217	3337	3250	2.33	cps
Cobalt	59-2	843	907	733	828	10.60	cps
Copper	63-2	3490	3530	3570	3530	1.13	cps
Dysprosium	156-1	7626	7656	7522	7601	0.92	cps
Dysprosium	156-2	3084	3007	2984	3025	1.73	cps
Erbium	164-1	7175	7325	7385	7295	1.48	cps
Erbium	164-2	2420	2450	2294	2388	3.48	cps
Gadolinium	160-1	8736	8379	9026	8714	3.72	cps
Gadolinium	160-2	3400	3400	3511	3437	1.85	cps
Holmium	165-1	12917290	12936979	12086169	12646813	3.84	cps
Holmium	165-2	4538419	4457587	4501697	4499234	0.90	cps
Indium	115-1	9971281	10068127	9520015	9853141	2.97	cps
Indium	115-2	970396	974396	969687	971493	0.26	cps
Iron	54-2	31067	31485	31839	31464	1.23	cps
Iron	56-2	577883	582099	572040	577340	0.87	cps
Iron	57-2	14311	14621	14264	14398	1.35	cps
Krypton	83-1	127	180	120	142	23.12	cps
Lead	206-1	2384	2214	1990	2196	8.99	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1870	1887	1873	1877	0.47	cps
Lead	208-1	8825	8845	8401	8690	2.88	cps
Lithium	6-1	6210535	6219987	6033761	6154761	1.70	cps
Magnesium	24-2	2967425	2950220	2955687	2957777	0.30	cps
Manganese	55-2	8279	8396	8056	8244	2.10	cps
Molybdenum	94-1	1603	1780	1827	1737	6.78	cps
Molybdenum	95-1	600	563	623	596	5.08	cps
Molybdenum	96-1	993	1083	903	993	9.06	cps
Molybdenum	97-1	353	367	403	374	6.91	cps
Molybdenum	98-1	1010	1060	1093	1054	3.98	cps
Neodymium	150-1	11625	11775	12342	11914	3.18	cps
Neodymium	150-2	2810	2744	2850	2801	1.92	cps
Nickel	60-2	1923	1863	1933	1907	1.99	cps
Phosphorus	31-2	63	60	37	53	27.24	cps
Potassium	39-2	332333	334733	328711	331925	0.91	cps
Rhodium	103-1	9001101	9103985	8593822	8899636	3.03	cps
Rhodium	103-2	3459814	3554417	3514161	3509464	1.35	cps
Scandium	45-1	7571755	7776254	7294246	7547418	3.21	cps
Scandium	45-2	133802	133903	133140	133615	0.31	cps
Selenium	82-1	770	757	843	790	5.91	cps
Selenium	77-2	17	50	23	30	58.79	cps
Selenium	78-2	50	93	70	71	30.50	cps
Silicon	28-1	47119321	46869704	47669219	47219415	0.87	cps
Silver	107-1	200	203	193	199	2.56	cps
Silver	109-1	110	127	93	110	15.15	cps
Sodium	23-2	8029495	7984485	7974081	7996020	0.37	cps
Strontium	86-1	463043	465112	467939	465365	0.53	cps
Strontium	88-1	4188847	4195773	4269732	4218117	1.06	cps
Sulfur	34-1	1135969	1160257	1154935	1150387	1.11	cps
Terbium	159-1	12976119	13310990	12469262	12918790	3.28	cps
Terbium	159-2	4347866	4371042	4330913	4349940	0.46	cps
Thallium	203-1	657	643	737	679	7.44	cps
Thallium	205-1	1767	1550	1560	1626	7.52	cps
Tin	118-1	2514	2364	2490	2456	3.29	cps
Titanium	47-1	6632	6752	6675	6686	0.91	cps
Uranium	238-1	470	453	493	472	4.25	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02	Instrumnet Name :	P8
Client Sample ID :	MC0B01	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:32:35	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	897	863	940	900	4.27	cps
Ytterbium	172-1	1954	2210	2180	2115	6.64	cps
Ytterbium	172-2	937	840	787	854	8.90	cps
Ytterbium	176-1	2944	2924	3067	2978	2.61	cps
Ytterbium	176-2	800	757	713	757	5.73	cps
Yttrium	89-1	18796472	18907852	18107491	18603938	2.33	cps
Yttrium	89-2	1278257	1286211	1280618	1281695	0.32	cps
Zinc	66-2	1247	1367	1300	1305	4.61	cps
Zirconium	90-1	3984	3784	3701	3823	3.81	cps
Zirconium	91-1	893	977	950	940	4.53	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7122	7262	7262	7215	1.12	cps
Antimony	121-1	270	233	310	271	14.14	cps
Arsenic	75-2	40	43	50	44	11.46	cps
Barium	135-1	293267	296924	299980	296724	1.13	cps
Barium	137-1	512991	519321	516443	516252	0.61	cps
Beryllium	9-1	656	706	685	682	3.68	cps
Bismuth	209-1	7802560	8035884	7871709	7903384	1.52	cps
Bismuth	209-2	3115937	3081856	3063780	3087191	0.86	cps
Bromine	81-1	26836	29364	32214	29471	9.13	cps
Cadmium	108-1	57	23	50	43	40.71	cps
Cadmium	106-1	6208	6208	6275	6230	0.62	cps
Cadmium	111-1	1372	1432	1393	1399	2.17	cps
Calcium	43-1	1138842	1156338	1163873	1153018	1.11	cps
Calcium	44-1	19046498	19204773	19495176	19248816	1.18	cps
Carbon	12-1	7094405	8010333	8573238	7892659	9.46	cps
Carbon	12-2	60380	60798	61130	60769	0.62	cps
Chlorine	35-1	2911988	3261287	3353577	3175617	7.33	cps
Chlorine	35-2	12569	12712	13316	12866	3.08	cps
Chromium	52-2	3414	3327	3127	3289	4.47	cps
Cobalt	59-2	857	863	957	892	6.27	cps
Copper	63-2	3544	3724	3564	3610	2.73	cps
Dysprosium	156-1	7649	7589	7472	7570	1.19	cps
Dysprosium	156-2	2937	3037	2870	2948	2.85	cps
Erbium	164-1	7492	7272	7506	7423	1.77	cps
Erbium	164-2	2477	2390	2650	2506	5.28	cps
Gadolinium	160-1	8623	8790	8469	8627	1.86	cps
Gadolinium	160-2	3544	3377	3394	3438	2.67	cps
Holmium	165-1	12883992	12912681	13176766	12991146	1.24	cps
Holmium	165-2	4459785	4399124	4440926	4433278	0.70	cps
Indium	115-1	9990942	10207245	10215243	10137810	1.26	cps
Indium	115-2	953949	949511	955410	952957	0.32	cps
Iron	54-2	30880	31688	31281	31283	1.29	cps
Iron	56-2	572566	579934	576057	576185	0.64	cps
Iron	57-2	14938	14387	14544	14623	1.94	cps
Krypton	83-1	103	147	167	139	23.31	cps
Lead	206-1	1997	2217	2154	2122	5.34	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1753	1713	1743	1737	1.20	cps
Lead	208-1	8118	8258	8051	8142	1.30	cps
Lithium	6-1	6175312	6240761	6255388	6223820	0.69	cps
Magnesium	24-2	3005008	2976881	2944574	2975488	1.02	cps
Manganese	55-2	7599	7812	7669	7693	1.41	cps
Molybdenum	94-1	1730	1567	1753	1683	6.04	cps
Molybdenum	95-1	593	603	663	620	6.11	cps
Molybdenum	96-1	890	990	957	946	5.39	cps
Molybdenum	97-1	393	403	447	414	6.84	cps
Molybdenum	98-1	1013	987	1060	1020	3.64	cps
Neodymium	150-1	11685	11939	11615	11746	1.45	cps
Neodymium	150-2	2847	2920	2804	2857	2.06	cps
Nickel	60-2	1780	1793	1903	1826	3.71	cps
Phosphorus	31-2	73	63	67	68	7.51	cps
Potassium	39-2	329358	328933	326957	328416	0.39	cps
Rhodium	103-1	9099118	9161735	9143887	9134913	0.35	cps
Rhodium	103-2	3443939	3377254	3506915	3442703	1.88	cps
Scandium	45-1	7804787	7783117	7744003	7777302	0.40	cps
Scandium	45-2	129598	130600	130001	130066	0.39	cps
Selenium	82-1	730	770	753	751	2.67	cps
Selenium	77-2	17	27	10	18	47.19	cps
Selenium	78-2	43	43	47	44	4.34	cps
Silicon	28-1	47366129	47337711	47429853	47377898	0.10	cps
Silver	107-1	147	227	190	188	21.33	cps
Silver	109-1	70	87	110	89	22.60	cps
Sodium	23-2	8116051	7914997	7968709	7999919	1.30	cps
Strontium	86-1	467498	468085	472259	469281	0.55	cps
Strontium	88-1	4242932	4273220	4253111	4256421	0.36	cps
Sulfur	34-1	1138289	1148762	1147232	1144761	0.49	cps
Terbium	159-1	13080653	13203391	13332168	13205404	0.95	cps
Terbium	159-2	4194980	4311935	4262134	4256350	1.38	cps
Thallium	203-1	610	570	597	592	3.44	cps
Thallium	205-1	1380	1523	1463	1456	4.95	cps
Tin	118-1	2467	2347	2447	2420	2.66	cps
Titanium	47-1	6872	6815	6785	6824	0.65	cps
Uranium	238-1	440	507	473	473	7.04	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-03	Instrumnet Name :	P8
Client Sample ID :	MC0B01D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:35:52	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	947	923	1000	957	4.11	cps
Ytterbium	172-1	2180	2184	2370	2245	4.85	cps
Ytterbium	172-2	843	787	737	789	6.77	cps
Ytterbium	176-1	2940	3110	3070	3040	2.92	cps
Ytterbium	176-2	703	780	817	767	7.54	cps
Yttrium	89-1	19095972	19273189	19266577	19211913	0.52	cps
Yttrium	89-2	1253358	1251887	1260422	1255222	0.36	cps
Zinc	66-2	1223	1320	1220	1255	4.53	cps
Zirconium	90-1	3717	3897	3937	3851	3.04	cps
Zirconium	91-1	787	1003	870	887	12.33	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1627	1533	1630	1597	3.44	cps
Antimony	121-1	150	210	147	169	21.10	cps
Arsenic	75-2	7	20	13	13	49.99	cps
Barium	135-1	59988	61258	60032	60426	1.19	cps
Barium	137-1	104432	105950	104221	104868	0.90	cps
Beryllium	9-1	366	377	416	387	6.78	cps
Bismuth	209-1	8152038	8104036	8158839	8138304	0.37	cps
Bismuth	209-2	2574386	2860100	3234442	2889642	11.46	cps
Bromine	81-1	14858	14888	14354	14700	2.04	cps
Cadmium	108-1	30	33	37	33	10.01	cps
Cadmium	106-1	5935	6011	5745	5897	2.33	cps
Cadmium	111-1	1226	1232	1160	1206	3.32	cps
Calcium	43-1	233593	235421	236005	235007	0.54	cps
Calcium	44-1	3944792	3958585	3944580	3949319	0.20	cps
Carbon	12-1	3781295	3761935	3710487	3751239	0.98	cps
Carbon	12-2	24824	24230	24367	24474	1.27	cps
Chlorine	35-1	863892	883192	888336	878473	1.47	cps
Chlorine	35-2	3430	3260	3457	3383	3.15	cps
Chromium	52-2	1097	1130	1060	1096	3.20	cps
Cobalt	59-2	247	210	257	238	10.33	cps
Copper	63-2	2464	2517	2630	2537	3.36	cps
Dysprosium	156-1	1520	1443	1520	1495	2.96	cps
Dysprosium	156-2	557	587	633	592	6.52	cps
Erbium	164-1	1537	1610	1557	1568	2.42	cps
Erbium	164-2	493	540	440	491	10.19	cps
Gadolinium	160-1	1777	1797	1730	1768	1.94	cps
Gadolinium	160-2	750	737	787	758	3.42	cps
Holmium	165-1	12742096	13101667	12782428	12875397	1.53	cps
Holmium	165-2	3784555	4029415	4542760	4118910	9.39	cps
Indium	115-1	10268109	10304906	10371369	10314794	0.51	cps
Indium	115-2	807973	872706	980503	887061	9.83	cps
Iron	54-2	6608	6795	6708	6704	1.39	cps
Iron	56-2	121495	121976	119253	120908	1.20	cps
Iron	57-2	3044	3014	2960	3006	1.40	cps
Krypton	83-1	123	107	97	109	12.37	cps
Lead	206-1	1503	1417	1403	1441	3.77	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1247	1273	1120	1213	6.75	cps
Lead	208-1	5737	5597	5511	5615	2.04	cps
Lithium	6-1	6335256	6329612	6277476	6314115	0.50	cps
Magnesium	24-2	578352	580998	574156	577835	0.60	cps
Manganese	55-2	1707	1800	1883	1797	4.92	cps
Molybdenum	94-1	593	630	600	608	3.21	cps
Molybdenum	95-1	300	267	243	270	10.55	cps
Molybdenum	96-1	320	383	390	364	10.60	cps
Molybdenum	97-1	133	130	167	143	14.15	cps
Molybdenum	98-1	397	357	437	397	10.08	cps
Neodymium	150-1	2414	2254	2304	2324	3.52	cps
Neodymium	150-2	597	620	623	613	2.37	cps
Nickel	60-2	913	970	1087	990	8.93	cps
Phosphorus	31-2	43	37	67	49	32.22	cps
Potassium	39-2	70601	72062	71871	71511	1.11	cps
Rhodium	103-1	9238898	9495726	9506101	9413575	1.61	cps
Rhodium	103-2	2925611	3119210	3655321	3233381	11.69	cps
Scandium	45-1	7793489	7786724	7758248	7779487	0.24	cps
Scandium	45-2	109466	118774	132988	120409	9.84	cps
Selenium	82-1	203	180	167	183	10.12	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	13	17	20	17	20.01	cps
Silicon	28-1	9701321	9854308	9844888	9800172	0.87	cps
Silver	107-1	100	147	143	130	20.03	cps
Silver	109-1	30	47	47	41	23.41	cps
Sodium	23-2	1645516	1661473	1614290	1640426	1.46	cps
Strontium	86-1	96503	94020	95000	95174	1.31	cps
Strontium	88-1	819377	810559	811857	813931	0.58	cps
Sulfur	34-1	518209	518332	519346	518629	0.12	cps
Terbium	159-1	13363592	13510410	13343265	13405756	0.68	cps
Terbium	159-2	3540221	3903094	4370604	3937973	10.57	cps
Thallium	203-1	380	387	350	372	5.25	cps
Thallium	205-1	1023	1050	1007	1027	2.13	cps
Tin	118-1	1570	1600	1473	1548	4.28	cps
Titanium	47-1	1507	1460	1583	1517	4.11	cps
Uranium	238-1	103	107	107	106	1.82	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-02LX5	Instrumnet Name :	P8
Client Sample ID :	MC0B01L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 13:39:10	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	143	190	180	171	14.36	cps
Ytterbium	172-1	493	573	433	500	14.05	cps
Ytterbium	172-2	163	200	200	188	11.27	cps
Ytterbium	176-1	1950	1897	2010	1952	2.90	cps
Ytterbium	176-2	310	297	337	314	6.48	cps
Yttrium	89-1	18777311	19026632	19059773	18954572	0.81	cps
Yttrium	89-2	1047152	1126668	1276501	1150107	10.13	cps
Zinc	66-2	583	443	507	511	13.72	cps
Zirconium	90-1	1247	1173	1340	1253	6.67	cps
Zirconium	91-1	350	247	227	274	24.12	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107674	108303	107440	107806	0.41	cps
Antimony	121-1	1029035	1048921	1065052	1047670	1.72	cps
Arsenic	75-2	7902	7749	8116	7922	2.33	cps
Barium	135-1	6048173	6077304	6052152	6059210	0.26	cps
Barium	137-1	10251898	10318544	10469953	10346798	1.08	cps
Beryllium	9-1	206619	209627	211738	209328	1.23	cps
Bismuth	209-1	7440321	8319887	8205766	7988658	5.99	cps
Bismuth	209-2	3133618	3128000	3123112	3128243	0.17	cps
Bromine	81-1	21190	24688	27089	24323	12.20	cps
Cadmium	108-1	9130	9150	9250	9176	0.70	cps
Cadmium	106-1	18045	18883	18683	18537	2.36	cps
Cadmium	111-1	129732	131706	133114	131518	1.29	cps
Calcium	43-1	1126126	1143516	1157063	1142235	1.36	cps
Calcium	44-1	18682106	18871593	19301880	18951860	1.68	cps
Carbon	12-1	6493755	7529428	8098784	7373989	11.04	cps
Carbon	12-2	57589	58720	59640	58650	1.75	cps
Chlorine	35-1	30043055	32297148	33091146	31810450	4.97	cps
Chlorine	35-2	129295	132779	131568	131214	1.35	cps
Chromium	52-2	472931	478747	473711	475130	0.66	cps
Cobalt	59-2	2285316	2302842	2294781	2294313	0.38	cps
Copper	63-2	835565	839432	839177	838058	0.26	cps
Dysprosium	156-1	7322	7879	7686	7629	3.71	cps
Dysprosium	156-2	3177	3024	2904	3035	4.52	cps
Erbium	164-1	7352	7315	7262	7310	0.62	cps
Erbium	164-2	2540	2327	2480	2449	4.49	cps
Gadolinium	160-1	8323	9173	8503	8666	5.17	cps
Gadolinium	160-2	3584	3367	3444	3465	3.17	cps
Holmium	165-1	12329979	13661392	13425333	13138901	5.41	cps
Holmium	165-2	4545235	4516142	4520132	4527170	0.35	cps
Indium	115-1	9495743	10775230	10582799	10284591	6.71	cps
Indium	115-2	986668	986713	987871	987084	0.07	cps
Iron	54-2	148735	147017	147226	147659	0.63	cps
Iron	56-2	2586311	2618016	2531616	2578648	1.69	cps
Iron	57-2	61438	61278	60909	61208	0.44	cps
Krypton	83-1	133	147	143	141	4.92	cps
Lead	206-1	177189	179882	183800	180291	1.84	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	153437	156746	157380	155854	1.36	cps
Lead	208-1	706618	717771	729527	717972	1.60	cps
Lithium	6-1	6017338	6573431	6461595	6350788	4.63	cps
Magnesium	24-2	2977098	2986975	3003530	2989201	0.45	cps
Manganese	55-2	523842	518051	520905	520932	0.56	cps
Molybdenum	94-1	1977	2050	5310	3112	61.17	cps
Molybdenum	95-1	1043	1123	1137	1101	4.58	cps
Molybdenum	96-1	1483	1490	1620	1531	5.03	cps
Molybdenum	97-1	547	590	520	552	6.40	cps
Molybdenum	98-1	1710	1750	1667	1709	2.44	cps
Neodymium	150-1	11925	12119	12082	12042	0.85	cps
Neodymium	150-2	2787	2740	3010	2846	5.07	cps
Nickel	60-2	591037	591992	589537	590855	0.21	cps
Phosphorus	31-2	33	70	67	57	35.79	cps
Potassium	39-2	333138	337119	337678	335978	0.74	cps
Rhodium	103-1	8544501	9763503	9574731	9294245	7.06	cps
Rhodium	103-2	3530858	3521302	3561856	3538005	0.60	cps
Scandium	45-1	7347775	8126827	8001876	7825493	5.35	cps
Scandium	45-2	136925	136107	135706	136246	0.46	cps
Selenium	82-1	17628	18149	17992	17923	1.49	cps
Selenium	77-2	327	293	317	312	5.48	cps
Selenium	78-2	1157	1013	1123	1098	6.83	cps
Silicon	28-1	46420881	47043781	47719676	47061446	1.38	cps
Silver	107-1	681790	692866	700209	691622	1.34	cps
Silver	109-1	644919	659114	669938	657990	1.91	cps
Sodium	23-2	8046707	7984908	8176173	8069263	1.21	cps
Strontium	86-1	459269	467254	466241	464255	0.94	cps
Strontium	88-1	4134796	4149782	4248990	4177856	1.49	cps
Sulfur	34-1	1108540	1115563	1094772	1106292	0.96	cps
Terbium	159-1	12614666	13989089	13594146	13399301	5.28	cps
Terbium	159-2	4404674	4372629	4404309	4393871	0.42	cps
Thallium	203-1	546646	554550	559762	553653	1.19	cps
Thallium	205-1	1290549	1318019	1326167	1311578	1.42	cps
Tin	118-1	4037	3954	4191	4061	2.96	cps
Titanium	47-1	7933	6832	7556	7440	7.52	cps
Uranium	238-1	450	613	460	508	18.03	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-04	Instrumnet Name :	P8
Client Sample ID :	MC0B01S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:42:30	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	910924	916746	913151	913607	0.32	cps
Ytterbium	172-1	2064	2214	2250	2176	4.55	cps
Ytterbium	172-2	863	907	787	852	7.13	cps
Ytterbium	176-1	2820	3027	2870	2906	3.71	cps
Ytterbium	176-2	693	737	707	712	3.12	cps
Yttrium	89-1	18188376	20142200	20029538	19453372	5.64	cps
Yttrium	89-2	1308807	1300773	1304113	1304564	0.31	cps
Zinc	66-2	173164	172799	173248	173070	0.14	cps
Zirconium	90-1	4054	4057	4515	4209	6.30	cps
Zirconium	91-1	950	1000	1047	999	4.84	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	400	407	383	397	3.03	cps
Antimony	121-1	417	350	347	371	10.64	cps
Arsenic	75-2	100	63	83	82	22.33	cps
Barium	135-1	297761	297458	298617	297946	0.20	cps
Barium	137-1	517459	518176	515365	517000	0.28	cps
Beryllium	9-1	659	686	715	687	4.10	cps
Bismuth	209-1	7668426	8436959	7701456	7935614	5.48	cps
Bismuth	209-2	2979692	3055166	3037407	3024088	1.30	cps
Bromine	81-1	136828	172919	200414	170054	18.75	cps
Cadmium	108-1	103	137	127	122	14.00	cps
Cadmium	106-1	5755	6575	6095	6141	6.71	cps
Cadmium	111-1	2509	2593	2567	2556	1.69	cps
Calcium	43-1	1349386	1341245	1305057	1331896	1.77	cps
Calcium	44-1	21467416	21214630	21439885	21373977	0.65	cps
Carbon	12-1	9150695	10180273	10896572	10075847	8.71	cps
Carbon	12-2	75211	75311	76005	75509	0.57	cps
Chlorine	35-1	8291040	8749170	8755735	8598648	3.10	cps
Chlorine	35-2	32887	33051	33769	33236	1.41	cps
Chromium	52-2	2287	2267	2224	2259	1.43	cps
Cobalt	59-2	23409	22855	22197	22821	2.66	cps
Copper	63-2	3727	4221	4021	3989	6.22	cps
Dysprosium	156-1	11171	11365	11535	11357	1.60	cps
Dysprosium	156-2	3661	3521	3397	3526	3.74	cps
Erbium	164-1	8353	8343	8596	8431	1.70	cps
Erbium	164-2	2680	2534	2797	2670	4.94	cps
Gadolinium	160-1	10271	10377	10468	10372	0.95	cps
Gadolinium	160-2	4311	4127	4154	4197	2.36	cps
Holmium	165-1	12397456	13869498	12878758	13048571	5.75	cps
Holmium	165-2	4347866	4447889	4473805	4423187	1.50	cps
Indium	115-1	9806408	10796574	10186959	10263314	4.87	cps
Indium	115-2	945690	949819	977423	957644	1.80	cps
Iron	54-2	70295	71193	70948	70812	0.66	cps
Iron	56-2	1307853	1312682	1305367	1308634	0.28	cps
Iron	57-2	32691	32283	31809	32261	1.37	cps
Krypton	83-1	210	127	143	160	27.56	cps
Lead	206-1	1870	1984	1797	1883	4.99	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1703	1633	1640	1659	2.33	cps
Lead	208-1	7701	7848	7548	7699	1.95	cps
Lithium	6-1	6068139	6610522	6268743	6315801	4.34	cps
Magnesium	24-2	4795077	4776330	4719413	4763607	0.83	cps
Manganese	55-2	965952	976139	962857	968316	0.72	cps
Molybdenum	94-1	717	750	733	733	2.27	cps
Molybdenum	95-1	800	830	783	804	2.94	cps
Molybdenum	96-1	833	800	810	814	2.10	cps
Molybdenum	97-1	360	467	393	407	13.42	cps
Molybdenum	98-1	1057	1027	960	1014	4.88	cps
Neodymium	150-1	16814	16687	16677	16726	0.46	cps
Neodymium	150-2	4061	3894	3997	3984	2.11	cps
Nickel	60-2	2564	2387	2210	2387	7.40	cps
Phosphorus	31-2	67	90	57	71	24.05	cps
Potassium	39-2	250652	254171	253408	252744	0.73	cps
Rhodium	103-1	8903100	9687017	9071138	9220418	4.48	cps
Rhodium	103-2	3445515	3398082	3538017	3460538	2.06	cps
Scandium	45-1	7662040	8300507	7796521	7919689	4.25	cps
Scandium	45-2	129645	131461	134802	131969	1.98	cps
Selenium	82-1	60	123	147	110	40.76	cps
Selenium	77-2	3	23	17	14	70.51	cps
Selenium	78-2	13	17	20	17	20.01	cps
Silicon	28-1	85977162	85484542	85798972	85753559	0.29	cps
Silver	107-1	610	633	507	583	11.56	cps
Silver	109-1	593	537	367	499	23.64	cps
Sodium	23-2	13207811	13457956	13432934	13366234	1.03	cps
Strontium	86-1	673904	681507	679088	678166	0.57	cps
Strontium	88-1	6144054	6160575	6018513	6107714	1.27	cps
Sulfur	34-1	1523131	1495527	1518570	1512409	0.98	cps
Terbium	159-1	12879654	14062979	13210717	13384450	4.56	cps
Terbium	159-2	4252992	4183355	4367283	4267877	2.18	cps
Thallium	203-1	2070	2067	2170	2102	2.79	cps
Thallium	205-1	4811	4644	4591	4682	2.45	cps
Tin	118-1	36552	34975	35593	35707	2.23	cps
Titanium	47-1	1747	1870	1830	1816	3.47	cps
Uranium	238-1	603	593	550	582	4.87	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-05	Instrumnet Name :	P8
Client Sample ID :	MC0B06	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:45:44	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	123	140	120	128	8.39	cps
Ytterbium	172-1	2660	2860	2527	2683	6.26	cps
Ytterbium	172-2	1060	1087	1150	1099	4.21	cps
Ytterbium	176-1	3300	3417	3324	3347	1.84	cps
Ytterbium	176-2	800	907	853	853	6.25	cps
Yttrium	89-1	18746128	20494759	19133455	19458114	4.72	cps
Yttrium	89-2	1258380	1254263	1303996	1272213	2.17	cps
Zinc	66-2	5314	4861	4874	5016	5.14	cps
Zirconium	90-1	763	927	933	874	11.01	cps
Zirconium	91-1	240	210	217	222	7.09	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	283	317	243	281	13.06	cps
Antimony	121-1	150	123	103	126	18.65	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	707	707	797	737	7.05	cps
Barium	137-1	1230	1160	1307	1232	5.95	cps
Beryllium	9-1	340	299	320	320	6.45	cps
Bismuth	209-1	8341073	8038659	8017551	8132428	2.23	cps
Bismuth	209-2	3149624	3104031	3168625	3140760	1.06	cps
Bromine	81-1	44066	38476	33420	38654	13.78	cps
Cadmium	108-1	43	23	33	33	30.00	cps
Cadmium	106-1	5978	5821	5891	5897	1.33	cps
Cadmium	111-1	1202	1205	1175	1194	1.38	cps
Calcium	43-1	880	867	957	901	5.39	cps
Calcium	44-1	15859	16179	16593	16210	2.27	cps
Carbon	12-1	4908921	5613020	5945511	5489151	9.64	cps
Carbon	12-2	42307	43728	42882	42973	1.66	cps
Chlorine	35-1	1361967	1298967	1262955	1307963	3.83	cps
Chlorine	35-2	4377	4301	4264	4314	1.34	cps
Chromium	52-2	1933	1823	1897	1885	2.97	cps
Cobalt	59-2	237	287	300	274	12.17	cps
Copper	63-2	3307	3400	3200	3303	3.03	cps
Dysprosium	156-1	90	87	63	80	18.17	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	50	60	90	67	31.22	cps
Erbium	164-2	33	23	23	27	21.65	cps
Gadolinium	160-1	27	50	60	46	37.54	cps
Gadolinium	160-2	7	13	10	10	33.30	cps
Holmium	165-1	13248559	13106901	12821217	13058893	1.67	cps
Holmium	165-2	4448111	4354128	4402653	4401630	1.07	cps
Indium	115-1	10374897	10356904	10440740	10390847	0.42	cps
Indium	115-2	958561	961779	960028	960123	0.17	cps
Iron	54-2	1693	1680	1613	1662	2.58	cps
Iron	56-2	29387	29551	29374	29437	0.33	cps
Iron	57-2	697	783	707	729	6.51	cps
Krypton	83-1	130	123	133	129	3.95	cps
Lead	206-1	1393	1470	1527	1463	4.57	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1343	1297	1233	1291	4.28	cps
Lead	208-1	5911	5731	5941	5861	1.94	cps
Lithium	6-1	6291791	6059730	6259457	6203659	2.03	cps
Magnesium	24-2	800	793	683	759	8.63	cps
Manganese	55-2	8863	8966	9063	8964	1.12	cps
Molybdenum	94-1	490	497	623	537	14.00	cps
Molybdenum	95-1	477	447	517	480	7.32	cps
Molybdenum	96-1	553	593	577	574	3.50	cps
Molybdenum	97-1	247	297	300	281	10.63	cps
Molybdenum	98-1	603	803	673	693	14.64	cps
Neodymium	150-1	30	33	27	30	11.10	cps
Neodymium	150-2	0	0	10	3	173.21	cps
Nickel	60-2	1257	1180	1267	1235	3.84	cps
Phosphorus	31-2	33	17	47	32	46.65	cps
Potassium	39-2	6632	6522	6718	6624	1.49	cps
Rhodium	103-1	9588339	9519205	9462323	9523289	0.66	cps
Rhodium	103-2	3508490	3514178	3525275	3515981	0.24	cps
Scandium	45-1	7829334	7727821	7644454	7733869	1.20	cps
Scandium	45-2	130644	130102	129288	130011	0.52	cps
Selenium	82-1	-10	3	-7	-4	-156.10	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	10	10	8	49.52	cps
Silicon	28-1	440144	449886	457333	449121	1.92	cps
Silver	107-1	177	177	213	189	11.21	cps
Silver	109-1	80	120	110	103	20.15	cps
Sodium	23-2	33174	32927	33164	33089	0.42	cps
Strontium	86-1	403	333	277	338	18.78	cps
Strontium	88-1	1530	1777	1610	1639	7.68	cps
Sulfur	34-1	326542	324276	329386	326735	0.78	cps
Terbium	159-1	13218042	13158531	13217553	13198042	0.26	cps
Terbium	159-2	4247973	4283138	4275511	4268874	0.43	cps
Thallium	203-1	363	347	377	362	4.15	cps
Thallium	205-1	1020	960	850	943	9.14	cps
Tin	118-1	28613	28878	28186	28559	1.22	cps
Titanium	47-1	257	210	217	228	11.08	cps
Uranium	238-1	67	47	40	51	27.15	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-06	Instrumnet Name :	P8
Client Sample ID :	MC0B07	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:49:00	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	17	10	18	47.19	cps
Ytterbium	172-1	100	80	63	81	22.64	cps
Ytterbium	172-2	30	37	33	33	10.01	cps
Ytterbium	176-1	1643	1630	1610	1628	1.03	cps
Ytterbium	176-2	210	257	233	233	10.00	cps
Yttrium	89-1	18981337	18970153	18913674	18955054	0.19	cps
Yttrium	89-2	1225950	1233163	1230579	1229897	0.30	cps
Zinc	66-2	1563	1480	1373	1472	6.47	cps
Zirconium	90-1	667	587	697	650	8.75	cps
Zirconium	91-1	153	140	153	149	5.17	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1974	1907	1703	1861	7.56	cps
Antimony	121-1	170	207	217	198	12.42	cps
Arsenic	75-2	23	37	20	27	33.08	cps
Barium	135-1	263415	264204	263340	263653	0.18	cps
Barium	137-1	456116	460823	458663	458534	0.51	cps
Beryllium	9-1	609	595	645	616	4.19	cps
Bismuth	209-1	8015577	7997420	7763882	7925626	1.77	cps
Bismuth	209-2	3075706	3103893	3065811	3081803	0.64	cps
Bromine	81-1	32611	37029	39669	36436	9.79	cps
Cadmium	108-1	67	70	57	64	10.76	cps
Cadmium	106-1	5821	5905	5504	5743	3.68	cps
Cadmium	111-1	1511	1515	1418	1481	3.71	cps
Calcium	43-1	708277	719889	728937	719034	1.44	cps
Calcium	44-1	11762853	12093353	12164804	12007004	1.79	cps
Carbon	12-1	6478269	7391852	7719916	7196679	8.94	cps
Carbon	12-2	54748	54537	55180	54822	0.60	cps
Chlorine	35-1	2131754	2348543	2400107	2293468	6.21	cps
Chlorine	35-2	9213	9597	9393	9401	2.04	cps
Chromium	52-2	3961	3937	4004	3967	0.85	cps
Cobalt	59-2	6188	6352	6225	6255	1.37	cps
Copper	63-2	3570	3487	3614	3557	1.81	cps
Dysprosium	156-1	3774	3901	3947	3874	2.32	cps
Dysprosium	156-2	1480	1427	1567	1491	4.74	cps
Erbium	164-1	4031	3971	4074	4025	1.29	cps
Erbium	164-2	1227	1377	1320	1308	5.79	cps
Gadolinium	160-1	4297	4634	4287	4406	4.48	cps
Gadolinium	160-2	1863	1863	1670	1799	6.21	cps
Holmium	165-1	13137573	13044696	12625471	12935913	2.11	cps
Holmium	165-2	4480584	4366522	4511062	4452723	1.71	cps
Indium	115-1	10398454	10220224	9817467	10145382	2.93	cps
Indium	115-2	964308	965789	964788	964962	0.08	cps
Iron	54-2	42673	43489	44007	43390	1.55	cps
Iron	56-2	796786	803910	805191	801962	0.56	cps
Iron	57-2	20518	20398	20014	20310	1.30	cps
Krypton	83-1	127	170	133	143	16.28	cps
Lead	206-1	1653	1947	1867	1822	8.32	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1717	1617	1500	1611	6.73	cps
Lead	208-1	7381	7784	7334	7500	3.30	cps
Lithium	6-1	6192120	6292584	6128716	6204473	1.33	cps
Magnesium	24-2	2268329	2195966	2210113	2224803	1.72	cps
Manganese	55-2	231083	234806	235539	233810	1.02	cps
Molybdenum	94-1	737	663	750	717	6.51	cps
Molybdenum	95-1	730	690	687	702	3.43	cps
Molybdenum	96-1	927	807	763	832	10.17	cps
Molybdenum	97-1	420	410	360	397	8.10	cps
Molybdenum	98-1	977	1080	1203	1087	10.44	cps
Neodymium	150-1	5705	5835	5951	5830	2.12	cps
Neodymium	150-2	1447	1403	1630	1493	8.06	cps
Nickel	60-2	6358	6251	6155	6255	1.63	cps
Phosphorus	31-2	53	50	20	41	44.65	cps
Potassium	39-2	178226	180608	179150	179328	0.67	cps
Rhodium	103-1	9441642	9299117	8890552	9210437	3.11	cps
Rhodium	103-2	3497603	3525923	3488904	3504143	0.55	cps
Scandium	45-1	7887872	7742796	7500795	7710488	2.54	cps
Scandium	45-2	130432	132053	132985	131823	0.98	cps
Selenium	82-1	360	327	480	389	20.74	cps
Selenium	77-2	13	3	7	8	65.47	cps
Selenium	78-2	17	27	40	28	42.13	cps
Silicon	28-1	47126814	47601826	47012783	47247141	0.66	cps
Silver	107-1	210	217	153	193	18.00	cps
Silver	109-1	70	63	90	74	18.64	cps
Sodium	23-2	6164940	6151638	6180462	6165680	0.23	cps
Strontium	86-1	490362	498814	494412	494530	0.85	cps
Strontium	88-1	4336182	4503342	4494348	4444624	2.12	cps
Sulfur	34-1	1215678	1214656	1198738	1209691	0.79	cps
Terbium	159-1	13511190	13237226	12939654	13229357	2.16	cps
Terbium	159-2	4262262	4341789	4284890	4296314	0.95	cps
Thallium	203-1	1470	1427	1393	1430	2.69	cps
Thallium	205-1	3360	3250	3414	3342	2.49	cps
Tin	118-1	3064	2757	2790	2870	5.86	cps
Titanium	47-1	2210	2204	2264	2226	1.48	cps
Uranium	238-1	297	233	223	251	15.84	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-07	Instrumnet Name :	P8
Client Sample ID :	MC0AL9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:52:24	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	203	193	163	187	11.15	cps
Ytterbium	172-1	1350	1317	1357	1341	1.60	cps
Ytterbium	172-2	547	600	587	578	4.80	cps
Ytterbium	176-1	2617	2357	2410	2461	5.58	cps
Ytterbium	176-2	553	507	543	534	4.60	cps
Yttrium	89-1	18851241	18883559	18422616	18719138	1.37	cps
Yttrium	89-2	1260352	1262074	1261426	1261284	0.07	cps
Zinc	66-2	1420	1380	1307	1369	4.20	cps
Zirconium	90-1	1147	1030	1110	1096	5.45	cps
Zirconium	91-1	187	220	190	199	9.23	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	59836	60904	60127	60289	0.92	cps
Antimony	121-1	267	257	343	289	16.41	cps
Arsenic	75-2	60	113	87	87	30.77	cps
Barium	135-1	248062	252546	254082	251564	1.24	cps
Barium	137-1	433114	439139	443956	438736	1.24	cps
Beryllium	9-1	986	965	1042	998	4.01	cps
Bismuth	209-1	7944376	7837545	7891567	7891163	0.68	cps
Bismuth	209-2	3080259	3057828	3081737	3073275	0.44	cps
Bromine	81-1	29441	32394	35545	32460	9.40	cps
Cadmium	108-1	50	30	60	47	32.73	cps
Cadmium	106-1	6111	6031	5948	6030	1.36	cps
Cadmium	111-1	1407	1359	1268	1344	5.27	cps
Calcium	43-1	1027435	1037037	1039128	1034533	0.60	cps
Calcium	44-1	17142619	17449199	17424813	17338877	0.98	cps
Carbon	12-1	6383541	7234749	7573088	7063793	8.68	cps
Carbon	12-2	53323	53972	53698	53664	0.61	cps
Chlorine	35-1	2479281	2816910	2890706	2728966	8.04	cps
Chlorine	35-2	11261	10958	11338	11186	1.80	cps
Chromium	52-2	15472	15522	15515	15503	0.18	cps
Cobalt	59-2	5775	5815	5978	5856	1.84	cps
Copper	63-2	6211	5998	6301	6170	2.53	cps
Dysprosium	156-1	11815	11508	11722	11682	1.35	cps
Dysprosium	156-2	4334	4447	4351	4377	1.40	cps
Erbium	164-1	11195	11699	11622	11505	2.36	cps
Erbium	164-2	3737	3654	3844	3745	2.54	cps
Gadolinium	160-1	12760	12973	13307	13013	2.12	cps
Gadolinium	160-2	5098	5348	5411	5286	3.14	cps
Holmium	165-1	12837894	12945886	13050114	12944631	0.82	cps
Holmium	165-2	4489986	4388263	4449497	4442582	1.15	cps
Indium	115-1	10037850	10167134	10317017	10174000	1.37	cps
Indium	115-2	951059	951989	963131	955393	0.70	cps
Iron	54-2	132774	133174	132682	132877	0.20	cps
Iron	56-2	2583587	2595217	2600013	2592939	0.33	cps
Iron	57-2	61221	61629	60698	61183	0.76	cps
Krypton	83-1	137	140	163	147	9.91	cps
Lead	206-1	7215	7169	7215	7200	0.37	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6021	6332	6021	6125	2.92	cps
Lead	208-1	28045	28376	28129	28183	0.61	cps
Lithium	6-1	6161758	6228491	6246332	6212194	0.72	cps
Magnesium	24-2	2864501	2753344	2803875	2807240	1.98	cps
Manganese	55-2	15192	15776	15415	15461	1.91	cps
Molybdenum	94-1	5034	4994	5084	5038	0.90	cps
Molybdenum	95-1	1493	1617	1543	1551	4.00	cps
Molybdenum	96-1	2274	2454	2520	2416	5.28	cps
Molybdenum	97-1	1023	960	890	958	6.96	cps
Molybdenum	98-1	2527	2407	2424	2452	2.65	cps
Neodymium	150-1	18282	19104	18483	18623	2.30	cps
Neodymium	150-2	4467	4547	4784	4600	3.58	cps
Nickel	60-2	2767	2707	2950	2808	4.52	cps
Phosphorus	31-2	90	87	103	93	9.45	cps
Potassium	39-2	348297	346458	347704	347486	0.27	cps
Rhodium	103-1	9093470	9233407	9191540	9172806	0.78	cps
Rhodium	103-2	3502854	3466518	3514528	3494633	0.72	cps
Scandium	45-1	7839944	7747609	7802485	7796680	0.60	cps
Scandium	45-2	132864	130146	132652	131887	1.15	cps
Selenium	82-1	783	620	670	691	12.11	cps
Selenium	77-2	17	57	37	37	54.54	cps
Selenium	78-2	63	57	77	66	15.54	cps
Silicon	28-1	56025706	56914301	57071237	56670415	0.99	cps
Silver	107-1	157	153	197	169	14.28	cps
Silver	109-1	90	80	117	96	19.84	cps
Sodium	23-2	7932269	8057016	7934707	7974664	0.89	cps
Strontium	86-1	451738	456489	461826	456684	1.11	cps
Strontium	88-1	4134796	4113219	4167871	4138629	0.67	cps
Sulfur	34-1	1248350	1285773	1282660	1272261	1.63	cps
Terbium	159-1	13102811	13253981	13269303	13208698	0.70	cps
Terbium	159-2	4262353	4163008	4296734	4240698	1.64	cps
Thallium	203-1	587	633	543	588	7.66	cps
Thallium	205-1	1443	1533	1387	1455	5.09	cps
Tin	118-1	18372	19247	19030	18883	2.41	cps
Titanium	47-1	75473	76111	75849	75811	0.42	cps
Uranium	238-1	1473	1363	1493	1443	4.85	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-08	Instrumnet Name :	P8
Client Sample ID :	MC0AM2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:55:41	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3627	3567	4051	3748	7.03	cps
Ytterbium	172-1	3360	3694	3594	3549	4.82	cps
Ytterbium	172-2	1323	1543	1380	1416	8.07	cps
Ytterbium	176-1	3837	3911	3927	3892	1.23	cps
Ytterbium	176-2	970	1090	1140	1067	8.19	cps
Yttrium	89-1	19338007	19311198	19277153	19308786	0.16	cps
Yttrium	89-2	1271614	1256622	1277933	1268723	0.86	cps
Zinc	66-2	1973	2027	1984	1995	1.42	cps
Zirconium	90-1	11475	13202	11498	12058	8.21	cps
Zirconium	91-1	2470	2497	2540	2502	1.41	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2230	2214	2164	2202	1.58	cps
Antimony	121-1	357	307	350	338	8.04	cps
Arsenic	75-2	37	57	40	44	24.11	cps
Barium	135-1	473823	475045	475200	474689	0.16	cps
Barium	137-1	819808	825589	832481	825960	0.77	cps
Beryllium	9-1	4091	4131	3996	4073	1.70	cps
Bismuth	209-1	7677885	7778188	7662230	7706101	0.82	cps
Bismuth	209-2	2984265	2903054	3012669	2966662	1.92	cps
Bromine	81-1	83419	106753	120427	103533	18.07	cps
Cadmium	108-1	97	140	103	113	20.59	cps
Cadmium	106-1	6352	6338	6235	6308	1.01	cps
Cadmium	111-1	2236	2226	2315	2259	2.14	cps
Calcium	43-1	982780	992185	999254	991406	0.83	cps
Calcium	44-1	16676001	16476048	16692376	16614808	0.72	cps
Carbon	12-1	7426739	8289832	8666792	8127788	7.82	cps
Carbon	12-2	59677	61377	60735	60596	1.42	cps
Chlorine	35-1	5525850	6047421	6449976	6007749	7.71	cps
Chlorine	35-2	25215	24995	25726	25312	1.48	cps
Chromium	52-2	4087	3911	3844	3947	3.19	cps
Cobalt	59-2	13770	13890	14007	13889	0.85	cps
Copper	63-2	7362	7282	7272	7305	0.68	cps
Dysprosium	156-1	14738	15252	14985	14992	1.71	cps
Dysprosium	156-2	5031	5188	5438	5219	3.93	cps
Erbium	164-1	15225	14765	15039	15010	1.54	cps
Erbium	164-2	4884	4981	5194	5020	3.16	cps
Gadolinium	160-1	14878	15219	15529	15209	2.14	cps
Gadolinium	160-2	6462	6065	6145	6224	3.37	cps
Holmium	165-1	12967705	12991489	12849060	12936085	0.59	cps
Holmium	165-2	4384236	4324961	4427996	4379064	1.18	cps
Indium	115-1	9926226	10163627	9940484	10010112	1.33	cps
Indium	115-2	938532	918242	956942	937905	2.06	cps
Iron	54-2	5261	4921	5124	5102	3.35	cps
Iron	56-2	89250	89968	89438	89552	0.42	cps
Iron	57-2	2414	2294	2110	2272	6.72	cps
Krypton	83-1	153	123	127	134	12.23	cps
Lead	206-1	3140	3307	2977	3142	5.25	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2647	2720	2517	2628	3.92	cps
Lead	208-1	12112	12693	11999	12268	3.03	cps
Lithium	6-1	6078291	6211599	5918784	6069558	2.42	cps
Magnesium	24-2	2345153	2343904	2327629	2338895	0.42	cps
Manganese	55-2	197911	199280	197233	198141	0.53	cps
Molybdenum	94-1	830	803	770	801	3.75	cps
Molybdenum	95-1	700	610	587	632	9.47	cps
Molybdenum	96-1	740	710	810	753	6.81	cps
Molybdenum	97-1	367	413	397	392	6.03	cps
Molybdenum	98-1	973	1027	927	976	5.13	cps
Neodymium	150-1	14862	15442	15796	15367	3.07	cps
Neodymium	150-2	3741	3677	3757	3725	1.13	cps
Nickel	60-2	4351	4371	4271	4331	1.22	cps
Phosphorus	31-2	50	50	30	43	26.65	cps
Potassium	39-2	337887	338296	338583	338255	0.10	cps
Rhodium	103-1	9046825	9123102	9087926	9085951	0.42	cps
Rhodium	103-2	3347079	3321052	3383275	3350469	0.93	cps
Scandium	45-1	7724677	7733491	7498718	7652295	1.74	cps
Scandium	45-2	127220	124584	129836	127213	2.06	cps
Selenium	82-1	407	427	553	462	17.21	cps
Selenium	77-2	23	20	17	20	16.65	cps
Selenium	78-2	17	43	53	38	50.16	cps
Silicon	28-1	52027468	52863049	52672048	52520855	0.83	cps
Silver	107-1	167	170	153	163	5.40	cps
Silver	109-1	80	103	97	93	12.88	cps
Sodium	23-2	18444209	18458258	18300947	18401138	0.47	cps
Strontium	86-1	770773	773108	782032	775304	0.77	cps
Strontium	88-1	6838911	6931227	7110536	6960224	1.98	cps
Sulfur	34-1	1008824	1021109	1020713	1016882	0.69	cps
Terbium	159-1	13076935	13222032	12934160	13077709	1.10	cps
Terbium	159-2	4145927	4062203	4325931	4178021	3.23	cps
Thallium	203-1	720	727	690	712	2.74	cps
Thallium	205-1	1703	1473	1680	1619	7.82	cps
Tin	118-1	109154	111277	111698	110710	1.23	cps
Titanium	47-1	2610	2564	2620	2598	1.16	cps
Uranium	238-1	410	387	413	403	3.60	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-09	Instrumnet Name :	P8
Client Sample ID :	MC0AZ9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 13:59:00	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	530	500	507	512	3.08	cps
Ytterbium	172-1	5134	5264	5221	5207	1.27	cps
Ytterbium	172-2	1997	1990	2094	2027	2.85	cps
Ytterbium	176-1	4801	5081	5028	4970	2.99	cps
Ytterbium	176-2	1643	1517	1363	1508	9.30	cps
Yttrium	89-1	19260097	19170938	19109360	19180132	0.40	cps
Yttrium	89-2	1258157	1230761	1288100	1259006	2.28	cps
Zinc	66-2	7759	7856	7645	7753	1.36	cps
Zirconium	90-1	1220	1180	1173	1191	2.12	cps
Zirconium	91-1	243	317	247	269	15.40	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2577	2667	2674	2639	2.05	cps
Antimony	121-1	230	163	223	206	17.86	cps
Arsenic	75-2	160	190	177	176	8.56	cps
Barium	135-1	406880	411849	408789	409173	0.61	cps
Barium	137-1	703221	706623	711804	707216	0.61	cps
Beryllium	9-1	2135	2227	2211	2191	2.25	cps
Bismuth	209-1	7691997	7552858	7501534	7582130	1.30	cps
Bismuth	209-2	2956058	2986591	2927673	2956774	1.00	cps
Bromine	81-1	118122	143998	158345	140155	14.54	cps
Cadmium	108-1	220	203	210	211	3.97	cps
Cadmium	106-1	6128	6645	6392	6388	4.05	cps
Cadmium	111-1	3208	3140	2951	3100	4.29	cps
Calcium	43-1	1771607	1794373	1834185	1800055	1.76	cps
Calcium	44-1	28264400	28969716	29099401	28777839	1.56	cps
Carbon	12-1	7788692	8689919	8921637	8466749	7.07	cps
Carbon	12-2	62070	63369	64497	63312	1.92	cps
Chlorine	35-1	13657069	14742033	15465611	14621571	6.23	cps
Chlorine	35-2	59244	59840	60737	59940	1.25	cps
Chromium	52-2	2064	1937	2077	2026	3.81	cps
Cobalt	59-2	145161	145198	145484	145281	0.12	cps
Copper	63-2	3504	3627	3410	3514	3.09	cps
Dysprosium	156-1	37937	38776	38128	38280	1.15	cps
Dysprosium	156-2	13467	13791	13547	13601	1.24	cps
Erbium	164-1	37473	38195	37783	37817	0.96	cps
Erbium	164-2	12302	12803	12236	12447	2.49	cps
Gadolinium	160-1	39886	40461	40468	40272	0.83	cps
Gadolinium	160-2	16383	16110	15603	16032	2.47	cps
Holmium	165-1	13136930	12751334	12774971	12887745	1.68	cps
Holmium	165-2	4450125	4421623	4403170	4424972	0.53	cps
Indium	115-1	10201719	9867482	9750065	9939756	2.36	cps
Indium	115-2	929594	933477	932526	931865	0.22	cps
Iron	54-2	112545	111709	110775	111676	0.79	cps
Iron	56-2	2197804	2167150	2186810	2183921	0.71	cps
Iron	57-2	52162	51827	50770	51586	1.41	cps
Krypton	83-1	153	143	200	166	18.27	cps
Lead	206-1	2334	2440	2264	2346	3.79	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1913	1930	1970	1938	1.50	cps
Lead	208-1	9215	9281	9055	9184	1.27	cps
Lithium	6-1	6179746	6129102	5968249	6092365	1.81	cps
Magnesium	24-2	6225664	6148599	6103394	6159219	1.00	cps
Manganese	55-2	1430945	1436994	1421819	1429919	0.53	cps
Molybdenum	94-1	873	797	743	804	8.12	cps
Molybdenum	95-1	687	733	713	711	3.29	cps
Molybdenum	96-1	847	833	780	820	4.30	cps
Molybdenum	97-1	410	370	333	371	10.33	cps
Molybdenum	98-1	857	900	1037	931	10.09	cps
Neodymium	150-1	59953	60258	60385	60199	0.37	cps
Neodymium	150-2	14107	14388	14605	14367	1.74	cps
Nickel	60-2	6025	6175	6278	6159	2.07	cps
Phosphorus	31-2	33	63	47	48	31.46	cps
Potassium	39-2	469000	469260	473026	470428	0.48	cps
Rhodium	103-1	9114343	8904595	8699383	8906107	2.33	cps
Rhodium	103-2	3348987	3331799	3277208	3319331	1.13	cps
Scandium	45-1	7804759	7639767	7614378	7686301	1.34	cps
Scandium	45-2	128804	128125	129864	128931	0.68	cps
Selenium	82-1	320	407	323	350	14.03	cps
Selenium	77-2	53	23	33	37	41.66	cps
Selenium	78-2	47	63	50	53	16.53	cps
Silicon	28-1	72136234	74081122	73387381	73201579	1.35	cps
Silver	107-1	310	290	340	313	8.03	cps
Silver	109-1	210	207	230	216	5.86	cps
Sodium	23-2	30640630	30671236	30143479	30485115	0.97	cps
Strontium	86-1	1465215	1464287	1491573	1473691	1.05	cps
Strontium	88-1	12510605	12662846	12627669	12600373	0.63	cps
Sulfur	34-1	957281	939379	963881	953514	1.33	cps
Terbium	159-1	13281161	13075358	13009882	13122134	1.08	cps
Terbium	159-2	4216020	4203301	4228539	4215953	0.30	cps
Thallium	203-1	1470	1393	1650	1505	8.76	cps
Thallium	205-1	3454	3704	3771	3643	4.58	cps
Tin	118-1	24950	25337	25220	25169	0.79	cps
Titanium	47-1	4084	3927	4014	4008	1.96	cps
Uranium	238-1	460	417	433	437	5.01	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-10	Instrumnet Name :	P8
Client Sample ID :	MC0B02	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:02:18	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	287	427	330	348	20.61	cps
Ytterbium	172-1	10201	10114	10317	10211	1.00	cps
Ytterbium	172-2	4271	4381	4124	4259	3.02	cps
Ytterbium	176-1	7849	8069	8393	8104	3.37	cps
Ytterbium	176-2	2760	2904	2760	2808	2.95	cps
Yttrium	89-1	20307213	19655533	19768524	19910423	1.75	cps
Yttrium	89-2	1302066	1316301	1317036	1311801	0.64	cps
Zinc	66-2	7462	7659	7309	7476	2.35	cps
Zirconium	90-1	1143	1180	1120	1148	2.63	cps
Zirconium	91-1	270	263	280	271	3.09	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3681	3437	3444	3520	3.94	cps
Antimony	121-1	140	150	173	154	11.08	cps
Arsenic	75-2	187	183	137	169	16.55	cps
Barium	135-1	239368	242446	242236	241350	0.71	cps
Barium	137-1	415801	423913	420883	420199	0.98	cps
Beryllium	9-1	1167	1170	1250	1196	3.92	cps
Bismuth	209-1	7817727	7733861	7797342	7782977	0.56	cps
Bismuth	209-2	3000251	2954560	3002340	2985717	0.90	cps
Bromine	81-1	82307	95391	100258	92652	10.02	cps
Cadmium	108-1	77	53	60	63	18.98	cps
Cadmium	106-1	6025	6195	6121	6114	1.40	cps
Cadmium	111-1	1548	1605	1649	1601	3.16	cps
Calcium	43-1	1571093	1601732	1602582	1591803	1.13	cps
Calcium	44-1	24878327	25450388	25439006	25255907	1.29	cps
Carbon	12-1	5633652	6375356	6779663	6262890	9.28	cps
Carbon	12-2	48152	48152	48654	48319	0.60	cps
Chlorine	35-1	7018201	7704608	7986753	7569854	6.58	cps
Chlorine	35-2	30723	31157	30840	30906	0.73	cps
Chromium	52-2	4274	4194	4187	4218	1.14	cps
Cobalt	59-2	6572	6041	6281	6298	4.22	cps
Copper	63-2	3070	3067	2950	3029	2.26	cps
Dysprosium	156-1	37877	39207	39291	38792	2.05	cps
Dysprosium	156-2	14435	14875	14631	14647	1.51	cps
Erbium	164-1	37710	38492	37957	38053	1.05	cps
Erbium	164-2	12539	12763	12196	12499	2.29	cps
Gadolinium	160-1	45005	45848	44063	44972	1.99	cps
Gadolinium	160-2	17805	17992	17411	17736	1.67	cps
Holmium	165-1	12897712	12772584	13028258	12899518	0.99	cps
Holmium	165-2	4414290	4371177	4377550	4387672	0.53	cps
Indium	115-1	9861666	10008103	10031623	9967131	0.92	cps
Indium	115-2	936236	933285	944914	938145	0.64	cps
Iron	54-2	9854	10037	9934	9941	0.93	cps
Iron	56-2	179964	179804	180115	179961	0.09	cps
Iron	57-2	4607	4497	4601	4569	1.35	cps
Krypton	83-1	177	220	163	187	15.87	cps
Lead	206-1	1607	1560	1593	1587	1.51	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1357	1407	1493	1419	4.87	cps
Lead	208-1	6514	6391	6524	6476	1.15	cps
Lithium	6-1	6116863	6004140	6152806	6091270	1.27	cps
Magnesium	24-2	3071776	3025972	3057859	3051869	0.77	cps
Manganese	55-2	83543	84474	83321	83779	0.73	cps
Molybdenum	94-1	687	643	623	651	4.97	cps
Molybdenum	95-1	473	497	487	486	2.41	cps
Molybdenum	96-1	620	710	650	660	6.94	cps
Molybdenum	97-1	267	230	240	246	7.72	cps
Molybdenum	98-1	753	707	783	748	5.17	cps
Neodymium	150-1	75373	77736	78518	77209	2.12	cps
Neodymium	150-2	18716	19257	19084	19019	1.45	cps
Nickel	60-2	3120	3077	3157	3118	1.28	cps
Phosphorus	31-2	93	83	40	72	39.25	cps
Potassium	39-2	324297	324431	325056	324595	0.12	cps
Rhodium	103-1	8907584	8965925	8932453	8935321	0.33	cps
Rhodium	103-2	3357283	3328841	3393916	3360013	0.97	cps
Scandium	45-1	7693730	7652047	7762276	7702684	0.72	cps
Scandium	45-2	129312	129399	128895	129202	0.21	cps
Selenium	82-1	497	437	637	523	19.61	cps
Selenium	77-2	53	80	73	69	20.15	cps
Selenium	78-2	87	77	67	77	13.04	cps
Silicon	28-1	63116514	64219819	64524077	63953470	1.16	cps
Silver	107-1	147	170	137	151	11.32	cps
Silver	109-1	57	80	100	79	27.49	cps
Sodium	23-2	12026590	11855844	11955521	11945985	0.72	cps
Strontium	86-1	472603	485231	482305	480046	1.38	cps
Strontium	88-1	4297133	4341306	4287154	4308531	0.67	cps
Sulfur	34-1	1029014	1033979	1049018	1037337	1.00	cps
Terbium	159-1	13154016	13102702	13213038	13156586	0.42	cps
Terbium	159-2	4162972	4245035	4172078	4193362	1.07	cps
Thallium	203-1	733	677	633	681	7.36	cps
Thallium	205-1	1467	1637	1620	1575	5.95	cps
Tin	118-1	1873	1787	1697	1786	4.95	cps
Titanium	47-1	3580	3237	3407	3408	5.04	cps
Uranium	238-1	180	230	220	210	12.60	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-11	Instrumnet Name :	P8
Client Sample ID :	MC0B04	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:05:33	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	227	240	233	233	2.86	cps
Ytterbium	172-1	9767	10531	10327	10208	3.88	cps
Ytterbium	172-2	3927	3867	3997	3931	1.66	cps
Ytterbium	176-1	7706	7852	7919	7826	1.40	cps
Ytterbium	176-2	2724	2877	2690	2764	3.60	cps
Yttrium	89-1	19568248	19950099	19883587	19800645	1.03	cps
Yttrium	89-2	1290848	1282246	1298300	1290465	0.62	cps
Zinc	66-2	997	1197	1073	1089	9.27	cps
Zirconium	90-1	1120	1057	1137	1105	3.82	cps
Zirconium	91-1	227	273	257	252	9.38	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1853	1837	1903	1865	1.86	cps
Antimony	121-1	297	303	327	309	5.10	cps
Arsenic	75-2	53	60	47	53	12.50	cps
Barium	135-1	473558	483696	482966	480073	1.18	cps
Barium	137-1	822289	838440	840186	833638	1.18	cps
Beryllium	9-1	3835	3905	3953	3898	1.52	cps
Bismuth	209-1	7377328	7671787	7765308	7604808	2.66	cps
Bismuth	209-2	3027433	3018976	2970309	3005573	1.03	cps
Bromine	81-1	87670	106164	114916	102917	13.52	cps
Cadmium	108-1	93	90	117	100	14.53	cps
Cadmium	106-1	5815	6085	5981	5960	2.29	cps
Cadmium	111-1	2184	2287	2241	2238	2.31	cps
Calcium	43-1	980359	995822	996549	990910	0.92	cps
Calcium	44-1	16508332	16723729	16620797	16617619	0.65	cps
Carbon	12-1	6629846	7379636	7854048	7287843	8.47	cps
Carbon	12-2	54665	55902	56050	55539	1.37	cps
Chlorine	35-1	6760502	7308747	7455296	7174848	5.10	cps
Chlorine	35-2	29183	29139	29580	29301	0.83	cps
Chromium	52-2	1967	2044	2004	2005	1.91	cps
Cobalt	59-2	13386	13593	13790	13590	1.49	cps
Copper	63-2	7078	6872	6688	6880	2.84	cps
Dysprosium	156-1	14341	15005	15252	14866	3.17	cps
Dysprosium	156-2	5101	5124	5081	5102	0.43	cps
Erbium	164-1	14905	15139	15452	15165	1.81	cps
Erbium	164-2	4854	4918	4968	4913	1.16	cps
Gadolinium	160-1	15456	15813	15296	15521	1.71	cps
Gadolinium	160-2	6132	5878	6145	6051	2.48	cps
Holmium	165-1	12085123	12675886	12953159	12571389	3.53	cps
Holmium	165-2	4421604	4318681	4370179	4370155	1.18	cps
Indium	115-1	9631363	10016842	9949100	9865768	2.09	cps
Indium	115-2	942102	944073	926369	937515	1.03	cps
Iron	54-2	2107	2394	2340	2280	6.69	cps
Iron	56-2	41497	41778	41524	41599	0.37	cps
Iron	57-2	1057	1010	1090	1052	3.82	cps
Krypton	83-1	130	140	150	140	7.14	cps
Lead	206-1	3000	3147	2717	2955	7.40	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2540	2504	2510	2518	0.78	cps
Lead	208-1	11559	11569	11589	11572	0.13	cps
Lithium	6-1	5860472	6103498	6125534	6029834	2.44	cps
Magnesium	24-2	2363670	2361160	2314706	2346512	1.18	cps
Manganese	55-2	189776	189459	188675	189304	0.30	cps
Molybdenum	94-1	630	690	610	643	6.47	cps
Molybdenum	95-1	583	637	640	620	5.13	cps
Molybdenum	96-1	587	760	707	684	12.97	cps
Molybdenum	97-1	423	300	307	343	20.20	cps
Molybdenum	98-1	910	857	930	899	4.22	cps
Neodymium	150-1	15119	14945	15209	15091	0.89	cps
Neodymium	150-2	3614	3714	3674	3667	1.37	cps
Nickel	60-2	2347	2477	2300	2375	3.86	cps
Phosphorus	31-2	40	73	30	48	47.49	cps
Potassium	39-2	335875	334691	339099	336555	0.68	cps
Rhodium	103-1	8628546	8988918	9016968	8878144	2.44	cps
Rhodium	103-2	3369763	3400340	3387003	3385702	0.45	cps
Scandium	45-1	7383703	7604736	7729421	7572620	2.31	cps
Scandium	45-2	128552	128366	127711	128210	0.34	cps
Selenium	82-1	443	453	467	454	2.58	cps
Selenium	77-2	17	33	13	21	50.75	cps
Selenium	78-2	40	40	50	43	13.32	cps
Silicon	28-1	51521664	51898833	51935734	51785410	0.44	cps
Silver	107-1	160	153	163	159	3.20	cps
Silver	109-1	63	43	67	58	21.85	cps
Sodium	23-2	18856421	18484488	18450099	18597003	1.21	cps
Strontium	86-1	764844	778082	784538	775821	1.29	cps
Strontium	88-1	6961966	7053130	6999947	7005014	0.65	cps
Sulfur	34-1	1002850	1004255	1009012	1005372	0.32	cps
Terbium	159-1	12447485	13181143	13132457	12920362	3.18	cps
Terbium	159-2	4215765	4286587	4252390	4251581	0.83	cps
Thallium	203-1	737	733	667	712	5.54	cps
Thallium	205-1	1640	1650	1807	1699	5.50	cps
Tin	118-1	3034	2884	2974	2964	2.55	cps
Titanium	47-1	1940	1913	2124	1992	5.74	cps
Uranium	238-1	447	373	380	400	10.14	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-12	Instrumnet Name :	P8
Client Sample ID :	MC0B09	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:08:48	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	500	493	557	517	6.74	cps
Ytterbium	172-1	5004	5148	5528	5227	5.18	cps
Ytterbium	172-2	2104	2120	2064	2096	1.39	cps
Ytterbium	176-1	4664	4744	4881	4763	2.30	cps
Ytterbium	176-2	1487	1460	1530	1492	2.37	cps
Yttrium	89-1	18408010	19231101	18993722	18877611	2.24	cps
Yttrium	89-2	1271073	1274118	1253139	1266110	0.90	cps
Zinc	66-2	6175	6065	6108	6116	0.91	cps
Zirconium	90-1	947	980	910	946	3.70	cps
Zirconium	91-1	243	233	213	230	6.64	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	173	210	243	209	16.76	cps
Antimony	121-1	133	133	130	132	1.46	cps
Arsenic	75-2	0	0	7	2	173.21	cps
Barium	135-1	680	683	633	666	4.20	cps
Barium	137-1	1203	1193	1210	1202	0.70	cps
Beryllium	9-1	247	220	229	232	6.05	cps
Bismuth	209-1	8015167	8140506	8078452	8078042	0.78	cps
Bismuth	209-2	3166792	3190446	3147810	3168349	0.67	cps
Bromine	81-1	32093	28606	25734	28811	11.05	cps
Cadmium	108-1	57	27	43	42	35.60	cps
Cadmium	106-1	5788	5758	5595	5713	1.82	cps
Cadmium	111-1	1155	1173	1125	1151	2.09	cps
Calcium	43-1	1310	1273	1363	1316	3.44	cps
Calcium	44-1	22504	22164	22291	22320	0.77	cps
Carbon	12-1	4817390	5469529	5834463	5373794	9.59	cps
Carbon	12-2	41649	42077	42351	42025	0.84	cps
Chlorine	35-1	1317506	1293509	1270625	1293880	1.81	cps
Chlorine	35-2	4764	4664	4514	4647	2.71	cps
Chromium	52-2	1893	2084	1843	1940	6.53	cps
Cobalt	59-2	157	133	210	167	23.58	cps
Copper	63-2	2764	2834	2914	2837	2.65	cps
Dysprosium	156-1	100	107	107	104	3.69	cps
Dysprosium	156-2	7	10	13	10	33.30	cps
Erbium	164-1	60	63	60	61	3.15	cps
Erbium	164-2	23	17	17	19	20.36	cps
Gadolinium	160-1	40	73	27	47	51.50	cps
Gadolinium	160-2	17	7	10	11	45.82	cps
Holmium	165-1	12815561	13166904	12835469	12939311	1.53	cps
Holmium	165-2	4433574	4490116	4450826	4458172	0.65	cps
Indium	115-1	10135616	10268289	10053823	10152576	1.07	cps
Indium	115-2	965034	973062	964190	967429	0.51	cps
Iron	54-2	863	877	813	851	3.92	cps
Iron	56-2	14301	14097	14097	14165	0.83	cps
Iron	57-2	380	417	310	369	14.69	cps
Krypton	83-1	110	117	153	127	18.42	cps
Lead	206-1	2684	2747	2647	2693	1.88	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2357	2230	2170	2252	4.23	cps
Lead	208-1	10542	10172	10052	10255	2.49	cps
Lithium	6-1	6107463	6233895	6222627	6187995	1.13	cps
Magnesium	24-2	847	973	803	874	10.10	cps
Manganese	55-2	1403	1490	1530	1475	4.39	cps
Molybdenum	94-1	1390	1413	1550	1451	5.96	cps
Molybdenum	95-1	393	433	503	443	12.56	cps
Molybdenum	96-1	770	650	733	718	8.57	cps
Molybdenum	97-1	260	257	253	257	1.30	cps
Molybdenum	98-1	743	697	710	717	3.35	cps
Neodymium	150-1	17	27	23	22	22.91	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	1323	1263	1177	1255	5.88	cps
Phosphorus	31-2	73	43	43	53	32.48	cps
Potassium	39-2	6518	6735	6538	6597	1.82	cps
Rhodium	103-1	9262482	9583699	9301758	9382646	1.87	cps
Rhodium	103-2	3576033	3595024	3555450	3575502	0.55	cps
Scandium	45-1	7707330	7819509	7741897	7756246	0.74	cps
Scandium	45-2	130943	130217	128898	130019	0.80	cps
Selenium	82-1	30	-7	-60	-12	-370.24	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	3	2	86.60	cps
Silicon	28-1	418631	422232	433125	424662	1.78	cps
Silver	107-1	140	140	113	131	11.74	cps
Silver	109-1	57	70	37	54	30.81	cps
Sodium	23-2	33883	33549	33388	33606	0.75	cps
Strontium	86-1	527	527	477	510	5.66	cps
Strontium	88-1	3050	2697	2514	2754	9.91	cps
Sulfur	34-1	319803	319462	319016	319427	0.12	cps
Terbium	159-1	13089918	13161361	13158006	13136428	0.31	cps
Terbium	159-2	4314161	4267974	4277062	4286399	0.57	cps
Thallium	203-1	313	300	237	283	14.46	cps
Thallium	205-1	717	577	643	646	10.85	cps
Tin	118-1	14475	14806	16024	15102	5.40	cps
Titanium	47-1	230	227	213	223	3.95	cps
Uranium	238-1	40	47	17	34	45.73	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-13	Instrumnet Name :	P8
Client Sample ID :	MC0B10	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:12:08	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	47	17	27	64.94	cps
Ytterbium	172-1	73	97	77	82	15.35	cps
Ytterbium	172-2	17	27	33	26	32.81	cps
Ytterbium	176-1	1710	1620	1623	1651	3.09	cps
Ytterbium	176-2	203	220	323	249	26.12	cps
Yttrium	89-1	18813380	19010711	18719188	18847760	0.79	cps
Yttrium	89-2	1232366	1256358	1228873	1239199	1.21	cps
Zinc	66-2	653	630	593	626	4.84	cps
Zirconium	90-1	3037	3210	3387	3212	5.45	cps
Zirconium	91-1	660	753	757	723	7.59	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	153	240	160	184	26.15	cps
Antimony	121-1	137	117	127	127	7.89	cps
Arsenic	75-2	0	3	0	1	173.21	cps
Barium	135-1	333	343	320	332	3.52	cps
Barium	137-1	677	653	597	642	6.41	cps
Beryllium	9-1	244	259	237	247	4.43	cps
Bismuth	209-1	8111209	8088205	8043311	8080908	0.43	cps
Bismuth	209-2	3140556	3139748	3172035	3150780	0.58	cps
Bromine	81-1	15328	15168	13810	14769	5.65	cps
Cadmium	108-1	20	20	40	27	43.30	cps
Cadmium	106-1	5745	5901	5971	5872	1.98	cps
Cadmium	111-1	1162	1193	1190	1181	1.46	cps
Calcium	43-1	993	1077	1003	1024	4.44	cps
Calcium	44-1	17594	17811	17721	17709	0.62	cps
Carbon	12-1	4985857	5707632	6233179	5642223	11.10	cps
Carbon	12-2	43447	44771	45544	44587	2.38	cps
Chlorine	35-1	827619	846778	859430	844609	1.90	cps
Chlorine	35-2	3224	3394	3377	3332	2.81	cps
Chromium	52-2	1967	2000	2100	2022	3.43	cps
Cobalt	59-2	170	117	147	144	18.51	cps
Copper	63-2	3040	2707	3074	2940	6.90	cps
Dysprosium	156-1	63	57	63	61	6.29	cps
Dysprosium	156-2	17	7	0	8	107.84	cps
Erbium	164-1	43	63	53	53	18.75	cps
Erbium	164-2	40	20	7	22	75.49	cps
Gadolinium	160-1	37	23	23	28	27.73	cps
Gadolinium	160-2	20	13	0	11	91.66	cps
Holmium	165-1	13031912	13048516	12986604	13022344	0.25	cps
Holmium	165-2	4408914	4494290	4412461	4438555	1.09	cps
Indium	115-1	10190496	10220501	10336852	10249283	0.75	cps
Indium	115-2	968627	974678	983195	975500	0.75	cps
Iron	54-2	700	690	783	724	7.07	cps
Iron	56-2	11104	11208	10908	11073	1.38	cps
Iron	57-2	267	297	303	289	6.76	cps
Krypton	83-1	137	197	123	152	25.66	cps
Lead	206-1	1623	1630	1647	1633	0.74	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1387	1523	1397	1436	5.31	cps
Lead	208-1	6664	6431	6521	6538	1.80	cps
Lithium	6-1	6209179	6200331	6164701	6191403	0.38	cps
Magnesium	24-2	647	567	600	604	6.65	cps
Manganese	55-2	3560	3731	3544	3612	2.86	cps
Molybdenum	94-1	847	897	810	851	5.11	cps
Molybdenum	95-1	1117	1087	1147	1117	2.69	cps
Molybdenum	96-1	1297	1240	1353	1297	4.37	cps
Molybdenum	97-1	643	663	673	660	2.31	cps
Molybdenum	98-1	1683	1700	1840	1741	4.94	cps
Neodymium	150-1	17	20	30	22	31.22	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1200	1227	1330	1252	5.48	cps
Phosphorus	31-2	23	33	33	30	19.25	cps
Potassium	39-2	8759	8042	8172	8325	4.59	cps
Rhodium	103-1	9341660	9477391	9543188	9454080	1.09	cps
Rhodium	103-2	3507072	3528933	3620823	3552276	1.70	cps
Scandium	45-1	7687653	7719329	7722221	7709734	0.25	cps
Scandium	45-2	130378	130620	131242	130747	0.34	cps
Selenium	82-1	-3	-97	-17	-39	-129.81	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	7	13	9	43.25	cps
Silicon	28-1	413265	424840	428742	422282	1.91	cps
Silver	107-1	120	120	127	122	3.15	cps
Silver	109-1	33	20	50	34	43.64	cps
Sodium	23-2	105471	104518	103053	104347	1.17	cps
Strontium	86-1	327	267	337	310	12.21	cps
Strontium	88-1	1343	1490	1370	1401	5.58	cps
Sulfur	34-1	340038	338920	338596	339185	0.22	cps
Terbium	159-1	13150191	13562541	13283899	13332210	1.58	cps
Terbium	159-2	4299434	4357520	4395039	4350664	1.11	cps
Thallium	203-1	267	270	263	267	1.25	cps
Thallium	205-1	553	543	547	548	0.93	cps
Tin	118-1	2607	2570	2767	2648	3.95	cps
Titanium	47-1	190	217	220	209	7.87	cps
Uranium	238-1	30	10	27	22	48.22	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1089-14	Instrumnet Name :	P8
Client Sample ID :	MC0B11	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:15:29	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	20	13	17	20.01	cps
Ytterbium	172-1	100	80	57	79	27.49	cps
Ytterbium	172-2	13	10	23	16	44.60	cps
Ytterbium	176-1	1723	1617	1587	1642	4.37	cps
Ytterbium	176-2	203	273	253	243	14.82	cps
Yttrium	89-1	18809778	18968821	19126400	18968333	0.83	cps
Yttrium	89-2	1240260	1251446	1258916	1250207	0.75	cps
Zinc	66-2	367	380	377	374	1.85	cps
Zirconium	90-1	663	690	587	647	8.30	cps
Zirconium	91-1	137	137	160	144	9.32	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	97	67	60	74	26.24	cps
Antimony	121-1	97	93	70	87	16.77	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	327	227	283	279	17.98	cps
Barium	137-1	357	467	410	411	13.38	cps
Beryllium	9-1	232	242	224	233	4.03	cps
Bismuth	209-1	8195133	8323834	8051637	8190202	1.66	cps
Bismuth	209-2	3229395	3156187	3117257	3167613	1.80	cps
Bromine	81-1	10381	10504	10224	10369	1.35	cps
Cadmium	108-1	20	23	40	28	38.58	cps
Cadmium	106-1	6225	5995	5771	5997	3.78	cps
Cadmium	111-1	1251	1203	1163	1205	3.66	cps
Calcium	43-1	417	367	357	380	8.46	cps
Calcium	44-1	6462	6025	6171	6219	3.57	cps
Carbon	12-1	3487788	3370381	3243103	3367091	3.63	cps
Carbon	12-2	19957	19997	19687	19880	0.85	cps
Chlorine	35-1	313546	296351	287691	299196	4.40	cps
Chlorine	35-2	1037	1087	917	1013	8.62	cps
Chromium	52-2	493	520	557	523	6.08	cps
Cobalt	59-2	103	97	103	101	3.80	cps
Copper	63-2	2867	2734	2574	2725	5.39	cps
Dysprosium	156-1	50	57	33	47	25.76	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	43	93	67	68	36.91	cps
Erbium	164-2	10	17	10	12	31.50	cps
Gadolinium	160-1	37	53	30	40	30.04	cps
Gadolinium	160-2	7	17	7	10	57.72	cps
Holmium	165-1	13260406	13239064	13011729	13170399	1.05	cps
Holmium	165-2	4557925	4397407	4489598	4481643	1.80	cps
Indium	115-1	10517888	10576440	10307539	10467289	1.35	cps
Indium	115-2	980936	986344	976011	981097	0.53	cps
Iron	54-2	270	297	270	279	5.52	cps
Iron	56-2	4197	4447	4494	4380	3.64	cps
Iron	57-2	140	107	107	118	16.34	cps
Krypton	83-1	140	117	160	139	15.61	cps
Lead	206-1	937	993	923	951	3.91	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	807	790	900	832	7.12	cps
Lead	208-1	3757	3730	3804	3764	0.99	cps
Lithium	6-1	6300471	6254241	6007698	6187470	2.54	cps
Magnesium	24-2	367	477	373	406	15.21	cps
Manganese	55-2	313	210	280	268	19.70	cps
Molybdenum	94-1	223	257	250	243	7.25	cps
Molybdenum	95-1	150	203	100	151	34.20	cps
Molybdenum	96-1	250	207	203	220	11.83	cps
Molybdenum	97-1	73	83	83	80	7.22	cps
Molybdenum	98-1	237	213	203	218	7.85	cps
Neodymium	150-1	20	20	10	17	34.64	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	900	850	1020	923	9.46	cps
Phosphorus	31-2	27	23	30	27	12.51	cps
Potassium	39-2	5915	5891	5788	5865	1.15	cps
Rhodium	103-1	9630865	9717239	9479633	9609246	1.25	cps
Rhodium	103-2	3591698	3558845	3574860	3575135	0.46	cps
Scandium	45-1	7953428	7929808	7738319	7873852	1.50	cps
Scandium	45-2	132635	132460	131468	132188	0.48	cps
Selenium	82-1	-3	17	-53	-13	-270.48	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	0	0	2	173.21	cps
Silicon	28-1	353424	352411	349875	351903	0.52	cps
Silver	107-1	113	127	170	137	21.68	cps
Silver	109-1	43	30	27	33	26.45	cps
Sodium	23-2	19243	18592	18826	18887	1.75	cps
Strontium	86-1	293	303	217	271	17.49	cps
Strontium	88-1	627	687	657	657	4.57	cps
Sulfur	34-1	325682	321056	324223	323654	0.73	cps
Terbium	159-1	13433583	13533112	13138967	13368554	1.53	cps
Terbium	159-2	4314179	4273923	4227079	4271727	1.02	cps
Thallium	203-1	247	193	210	217	12.59	cps
Thallium	205-1	507	637	570	571	11.38	cps
Tin	118-1	1077	970	1000	1016	5.42	cps
Titanium	47-1	117	143	103	121	16.82	cps
Uranium	238-1	20	30	20	23	24.74	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BL	Instrumnet Name :	P8
Client Sample ID :	PBS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:18:53	DataFile Name :	075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	0	7	4	86.60	cps
Ytterbium	172-1	77	57	43	59	28.49	cps
Ytterbium	172-2	17	23	7	16	53.90	cps
Ytterbium	176-1	1650	1733	1630	1671	3.28	cps
Ytterbium	176-2	273	187	223	228	19.10	cps
Yttrium	89-1	19241989	19553660	18861833	19219161	1.80	cps
Yttrium	89-2	1247128	1261491	1259480	1256033	0.62	cps
Zinc	66-2	290	340	297	309	8.79	cps
Zirconium	90-1	613	590	580	594	2.88	cps
Zirconium	91-1	170	100	93	121	35.07	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2137	2120	1943	2067	5.18	cps
Antimony	121-1	42192	42392	42767	42450	0.69	cps
Arsenic	75-2	400	440	397	412	5.85	cps
Barium	135-1	53592	54084	53860	53845	0.46	cps
Barium	137-1	93272	95131	95010	94471	1.10	cps
Beryllium	9-1	8553	8748	8804	8701	1.52	cps
Bismuth	209-1	7984599	8047533	8259357	8097163	1.78	cps
Bismuth	209-2	3222083	3289732	3173908	3228574	1.80	cps
Bromine	81-1	7989	8096	7942	8009	0.98	cps
Cadmium	108-1	463	477	463	468	1.65	cps
Cadmium	106-1	6762	6455	6578	6598	2.34	cps
Cadmium	111-1	6729	6622	6442	6598	2.20	cps
Calcium	43-1	43900	43713	44542	44052	0.99	cps
Calcium	44-1	706328	708458	711427	708737	0.36	cps
Carbon	12-1	2751560	2682982	2691696	2708746	1.38	cps
Carbon	12-2	17310	17641	17761	17571	1.33	cps
Chlorine	35-1	1158397	1265625	1339712	1254578	7.27	cps
Chlorine	35-2	5311	5254	5038	5201	2.77	cps
Chromium	52-2	9400	9393	9166	9320	1.43	cps
Cobalt	59-2	8553	8763	8833	8716	1.67	cps
Copper	63-2	16900	16293	16843	16679	2.01	cps
Dysprosium	156-1	70	97	77	81	17.11	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	53	63	67	61	11.36	cps
Erbium	164-2	7	27	10	14	74.18	cps
Gadolinium	160-1	47	30	37	38	22.21	cps
Gadolinium	160-2	0	7	10	6	91.64	cps
Holmium	165-1	12948035	12914737	13366892	13076555	1.93	cps
Holmium	165-2	4466657	4574254	4474119	4505010	1.33	cps
Indium	115-1	10214466	10270233	10514677	10333125	1.55	cps
Indium	115-2	967751	1002632	970249	980211	1.99	cps
Iron	54-2	38569	39498	38124	38730	1.81	cps
Iron	56-2	714013	716412	706457	712294	0.73	cps
Iron	57-2	17661	18055	18138	17951	1.42	cps
Krypton	83-1	103	103	127	111	12.13	cps
Lead	206-1	18957	19405	19274	19212	1.20	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16617	16674	16691	16661	0.23	cps
Lead	208-1	75285	76666	76264	76072	0.93	cps
Lithium	6-1	6188437	6151221	6309287	6216315	1.33	cps
Magnesium	24-2	168757	167404	165945	167369	0.84	cps
Manganese	55-2	2370	2327	2460	2386	2.85	cps
Molybdenum	94-1	46053	46708	45952	46238	0.89	cps
Molybdenum	95-1	55557	55755	56360	55891	0.75	cps
Molybdenum	96-1	62326	62510	61586	62140	0.79	cps
Molybdenum	97-1	33992	34135	34660	34262	1.03	cps
Molybdenum	98-1	88278	89144	90550	89324	1.28	cps
Neodymium	150-1	20	20	7	16	49.47	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	3230	3367	3204	3267	2.68	cps
Phosphorus	31-2	127	193	157	159	21.01	cps
Potassium	39-2	101399	101601	102195	101732	0.41	cps
Rhodium	103-1	9312759	9440009	9696732	9483167	2.06	cps
Rhodium	103-2	3561786	3704731	3565881	3610799	2.25	cps
Scandium	45-1	7705674	7619514	7849024	7724738	1.50	cps
Scandium	45-2	130849	136019	132066	132978	2.03	cps
Selenium	82-1	1817	1820	1874	1837	1.73	cps
Selenium	77-2	17	27	47	30	50.91	cps
Selenium	78-2	93	73	97	88	14.38	cps
Silicon	28-1	574382	580887	581616	578962	0.69	cps
Silver	107-1	27594	27748	28052	27798	0.84	cps
Silver	109-1	26362	25951	26716	26343	1.45	cps
Sodium	23-2	358367	356165	356765	357099	0.32	cps
Strontium	86-1	7696	8126	7849	7890	2.76	cps
Strontium	88-1	65894	66591	65871	66119	0.62	cps
Sulfur	34-1	333768	335706	334727	334734	0.29	cps
Terbium	159-1	13268124	13245876	13449394	13321131	0.84	cps
Terbium	159-2	4202808	4443397	4293285	4313163	2.82	cps
Thallium	203-1	22052	22790	22222	22355	1.73	cps
Thallium	205-1	53115	54517	54196	53943	1.36	cps
Tin	118-1	92607	93845	92875	93109	0.70	cps
Titanium	47-1	20385	20054	20508	20316	1.16	cps
Uranium	238-1	68959	68839	68594	68797	0.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166148BS	Instrumnet Name :	P8
Client Sample ID :	LCS148	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:24:33	DataFile Name :	076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17634	18322	18165	18040	2.00	cps
Ytterbium	172-1	63	67	73	68	7.51	cps
Ytterbium	172-2	23	30	13	22	37.76	cps
Ytterbium	176-1	1703	1777	1850	1777	4.13	cps
Ytterbium	176-2	267	267	257	263	2.19	cps
Yttrium	89-1	18822738	18780206	19434074	19012340	1.92	cps
Yttrium	89-2	1246071	1293309	1250417	1263266	2.07	cps
Zinc	66-2	3827	3817	3764	3803	0.90	cps
Zirconium	90-1	38409	39469	39262	39047	1.44	cps
Zirconium	91-1	8776	8583	8526	8628	1.52	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	295339	293550	293932	294274	0.32	cps
Antimony	121-1	123189	126731	126370	125430	1.55	cps
Arsenic	75-2	2674	2704	2687	2688	0.56	cps
Barium	135-1	647789	664610	662650	658350	1.40	cps
Barium	137-1	1131739	1147266	1160286	1146430	1.25	cps
Beryllium	9-1	2434	2502	2401	2446	2.11	cps
Bismuth	209-1	8336734	7969706	8374827	8227089	2.72	cps
Bismuth	209-2	3048957	3148145	3172015	3123039	2.09	cps
Bromine	81-1	21200	21600	21607	21469	1.09	cps
Cadmium	108-1	20589	20933	20686	20736	0.86	cps
Cadmium	106-1	28857	29231	28503	28864	1.26	cps
Cadmium	111-1	36068	35956	37428	36484	2.25	cps
Calcium	43-1	3777640	3940763	3915243	3877882	2.26	cps
Calcium	44-1	62028174	63638656	62642642	62769824	1.29	cps
Carbon	12-1	37918815	39163474	39550683	38877657	2.19	cps
Carbon	12-2	263346	264985	263471	263934	0.35	cps
Chlorine	35-1	121016598	128088685	132619988	127241757	4.60	cps
Chlorine	35-2	513766	520692	521296	518585	0.81	cps
Chromium	52-2	107926	107490	107725	107714	0.20	cps
Cobalt	59-2	33252	33800	32918	33323	1.34	cps
Copper	63-2	797091	798543	796973	797536	0.11	cps
Dysprosium	156-1	30628	31594	32032	31418	2.29	cps
Dysprosium	156-2	9240	9163	9167	9190	0.47	cps
Erbium	164-1	22987	23487	23394	23289	1.14	cps
Erbium	164-2	7556	7622	7135	7438	3.55	cps
Gadolinium	160-1	26116	26383	25888	26129	0.95	cps
Gadolinium	160-2	10394	10534	10024	10317	2.56	cps
Holmium	165-1	13885366	13396333	13982156	13754618	2.28	cps
Holmium	165-2	4527632	4610680	4679745	4606019	1.65	cps
Indium	115-1	10795236	10323433	10840492	10653054	2.69	cps
Indium	115-2	980625	1022267	1023898	1008930	2.43	cps
Iron	54-2	1164136	1150716	1153550	1156134	0.61	cps
Iron	56-2	22073486	22019796	21973512	22022265	0.23	cps
Iron	57-2	536508	531672	530440	532873	0.60	cps
Krypton	83-1	200	197	177	191	6.60	cps
Lead	206-1	4981258	4962038	5141316	5028204	1.96	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4119879	4152714	4194943	4155845	0.91	cps
Lead	208-1	19188085	19381560	19550393	19373346	0.94	cps
Lithium	6-1	6458674	6233207	6371554	6354478	1.79	cps
Magnesium	24-2	1234395	1236367	1227244	1232669	0.39	cps
Manganese	55-2	512364	511174	510326	511288	0.20	cps
Molybdenum	94-1	82841	87904	84161	84969	3.09	cps
Molybdenum	95-1	16613	16206	16183	16334	1.48	cps
Molybdenum	96-1	30407	30263	29648	30106	1.34	cps
Molybdenum	97-1	10140	10404	10070	10205	1.72	cps
Molybdenum	98-1	25624	25887	26642	26051	2.03	cps
Neodymium	150-1	48206	48751	48711	48556	0.63	cps
Neodymium	150-2	11598	11852	11612	11687	1.22	cps
Nickel	60-2	26996	27473	27012	27160	1.00	cps
Phosphorus	31-2	9660	9300	9513	9491	1.91	cps
Potassium	39-2	882473	889971	890517	887654	0.51	cps
Rhodium	103-1	9770089	9399811	9693969	9621290	2.03	cps
Rhodium	103-2	3560403	3670636	3680980	3637340	1.84	cps
Scandium	45-1	8418076	8147936	8546634	8370882	2.43	cps
Scandium	45-2	136138	142855	146144	141712	3.60	cps
Selenium	82-1	627	643	830	700	16.13	cps
Selenium	77-2	73	47	53	58	24.02	cps
Selenium	78-2	57	67	57	60	9.62	cps
Silicon	28-1	22661958	22796908	23213209	22890692	1.26	cps
Silver	107-1	214082	215354	216144	215193	0.48	cps
Silver	109-1	201654	206486	207028	205056	1.44	cps
Sodium	23-2	18748331	18557501	18751156	18685663	0.59	cps
Strontium	86-1	1829932	1841369	1810654	1827318	0.85	cps
Strontium	88-1	15271458	15622866	15581547	15491957	1.24	cps
Sulfur	34-1	2471070	2442380	2463551	2459000	0.60	cps
Terbium	159-1	14089380	13474798	14039987	13868055	2.46	cps
Terbium	159-2	4340293	4447211	4446919	4411475	1.40	cps
Thallium	203-1	3921	5538	6555	5338	24.89	cps
Thallium	205-1	9517	13497	15633	12882	24.09	cps
Tin	118-1	219569	221995	222523	221362	0.71	cps
Titanium	47-1	322746	326040	331871	326886	1.41	cps
Uranium	238-1	46552	47147	46880	46859	0.64	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-01	Instrumnet Name :	P8
Client Sample ID :	MH2H28	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:27:55	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	36884	36897	37095	36959	0.32	cps
Ytterbium	172-1	6905	7215	7359	7160	3.24	cps
Ytterbium	172-2	2710	2730	2934	2791	4.43	cps
Ytterbium	176-1	6655	6635	6672	6654	0.28	cps
Ytterbium	176-2	2157	2057	2097	2104	2.39	cps
Yttrium	89-1	20649968	19894936	20754096	20433000	2.29	cps
Yttrium	89-2	1311119	1371211	1429091	1370473	4.30	cps
Zinc	66-2	1141858	1131516	1132323	1135232	0.51	cps
Zirconium	90-1	197938	209431	207685	205018	3.02	cps
Zirconium	91-1	46478	45410	45439	45776	1.33	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2411083	2370772	2339863	2373906	1.50	cps
Antimony	121-1	5149579	5176643	5200011	5175411	0.49	cps
Arsenic	75-2	90139	89535	88898	89524	0.69	cps
Barium	135-1	6598062	6648705	6563212	6603326	0.65	cps
Barium	137-1	11457130	11474751	11179340	11370407	1.46	cps
Beryllium	9-1	1946910	1965348	1938266	1950174	0.71	cps
Bismuth	209-1	7050171	6885469	7114395	7016678	1.68	cps
Bismuth	209-2	2627830	2756263	2564274	2649456	3.69	cps
Bromine	81-1	7565	7759	7232	7519	3.55	cps
Cadmium	108-1	102333	101903	100191	101475	1.12	cps
Cadmium	106-1	147835	145558	147885	147093	0.90	cps
Cadmium	111-1	1166408	1178416	1160354	1168393	0.79	cps
Calcium	43-1	10155502	10227132	9847975	10076869	2.00	cps
Calcium	44-1	165140728	165002634	161966081	164036481	1.09	cps
Carbon	12-1	2936555	2965273	2985913	2962580	0.84	cps
Carbon	12-2	23125	22631	22771	22842	1.11	cps
Chlorine	35-1	4312778	3938277	3634290	3961782	8.58	cps
Chlorine	35-2	11681	10704	10100	10829	7.37	cps
Chromium	52-2	1047819	1049378	1045951	1047716	0.16	cps
Cobalt	59-2	2019319	1967858	1955940	1981039	1.70	cps
Copper	63-2	13987874	13869894	14099772	13985847	0.82	cps
Dysprosium	156-1	417	430	400	416	3.62	cps
Dysprosium	156-2	60	70	80	70	14.29	cps
Erbium	164-1	340	303	257	300	13.92	cps
Erbium	164-2	117	117	113	116	1.66	cps
Gadolinium	160-1	270	290	200	253	18.66	cps
Gadolinium	160-2	80	70	103	84	20.26	cps
Holmium	165-1	12641634	12219140	12566700	12475825	1.81	cps
Holmium	165-2	4073174	4316593	4153637	4181135	2.97	cps
Indium	115-1	9396383	9071317	9353866	9273855	1.91	cps
Indium	115-2	845380	887876	839620	857625	3.07	cps
Iron	54-2	10936515	10909416	10801018	10882316	0.66	cps
Iron	56-2	201105364	197924784	198101144	199043764	0.90	cps
Iron	57-2	5111732	5039638	5086483	5079284	0.72	cps
Krypton	83-1	197	187	167	183	8.33	cps
Lead	206-1	20687430	20656465	20631421	20658439	0.14	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18085911	17939732	17879608	17968417	0.59	cps
Lead	208-1	83046720	82651955	82665962	82788212	0.27	cps
Lithium	6-1	5588409	5496073	5479713	5521398	1.06	cps
Magnesium	24-2	40195281	40010049	39154187	39786506	1.40	cps
Manganese	55-2	4778445	4780388	4790895	4783243	0.14	cps
Molybdenum	94-1	18981781	19301148	18943396	19075442	1.03	cps
Molybdenum	95-1	27365069	27931300	27422029	27572799	1.13	cps
Molybdenum	96-1	30032150	30085990	29813388	29977176	0.48	cps
Molybdenum	97-1	17011735	16831923	16736069	16859909	0.83	cps
Molybdenum	98-1	44594208	44751574	44092346	44479376	0.77	cps
Neodymium	150-1	877	737	750	788	9.81	cps
Neodymium	150-2	27	33	63	41	47.50	cps
Nickel	60-2	500057	493401	498965	497474	0.72	cps
Phosphorus	31-2	19740	19740	19924	19801	0.54	cps
Potassium	39-2	11414974	11260612	11305467	11327018	0.70	cps
Rhodium	103-1	8139934	7981662	8166975	8096190	1.24	cps
Rhodium	103-2	2948015	3050529	2924789	2974444	2.25	cps
Scandium	45-1	7505595	7276871	7377992	7386819	1.55	cps
Scandium	45-2	122013	128488	122103	124201	2.99	cps
Selenium	82-1	80111	79723	80158	79997	0.30	cps
Selenium	77-2	1180	1253	1133	1189	5.09	cps
Selenium	78-2	4611	4491	4597	4566	1.44	cps
Silicon	28-1	32532368	31798400	31792874	32041214	1.33	cps
Silver	107-1	6495841	6425416	6349434	6423564	1.14	cps
Silver	109-1	6190561	6170240	6092743	6151182	0.84	cps
Sodium	23-2	80134595	79795427	78851822	79593948	0.84	cps
Strontium	86-1	2007877	1984342	1975254	1989158	0.85	cps
Strontium	88-1	16958895	16710116	16471115	16713375	1.46	cps
Sulfur	34-1	981214	975888	967504	974869	0.71	cps
Terbium	159-1	12763261	12575646	12974650	12771186	1.56	cps
Terbium	159-2	3952949	4075488	3908039	3978825	2.18	cps
Thallium	203-1	5448115	5267433	5327634	5347727	1.72	cps
Thallium	205-1	12691168	12569600	12579054	12613274	0.54	cps
Tin	118-1	4419423	4439460	4393672	4417518	0.52	cps
Titanium	47-1	8796724	8802560	8690224	8763169	0.72	cps
Uranium	238-1	16954073	17075678	17103961	17044571	0.47	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:31:17	DataFile Name :	078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	837438	836509	835932	836626	0.09	cps
Ytterbium	172-1	330	393	340	354	9.61	cps
Ytterbium	172-2	127	130	130	129	1.49	cps
Ytterbium	176-1	25962	25839	25799	25866	0.33	cps
Ytterbium	176-2	8496	8273	8459	8409	1.43	cps
Yttrium	89-1	18372106	17699358	18294986	18122150	2.03	cps
Yttrium	89-2	1157022	1212008	1145522	1171517	3.03	cps
Zinc	66-2	1447223	1434647	1441233	1441034	0.44	cps
Zirconium	90-1	9763795	9765114	9635934	9721614	0.76	cps
Zirconium	91-1	2210949	2182017	2178392	2190453	0.81	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93	57	90	80	25.34	cps
Antimony	121-1	370	370	297	346	12.25	cps
Arsenic	75-2	3	0	7	3	100.05	cps
Barium	135-1	470	453	453	459	2.10	cps
Barium	137-1	763	740	647	717	8.61	cps
Beryllium	9-1	459	369	400	409	11.17	cps
Bismuth	209-1	7750239	7934975	7947972	7877729	1.40	cps
Bismuth	209-2	3192062	3116094	3061317	3123158	2.10	cps
Bromine	81-1	6308	6398	6388	6365	0.78	cps
Cadmium	108-1	30	30	27	29	6.65	cps
Cadmium	106-1	5311	5688	5675	5558	3.85	cps
Cadmium	111-1	1085	1167	1166	1139	4.15	cps
Calcium	43-1	357	333	333	341	3.95	cps
Calcium	44-1	6535	6348	6568	6484	1.83	cps
Carbon	12-1	2586975	2608656	2596795	2597475	0.42	cps
Carbon	12-2	16583	16780	16549	16637	0.75	cps
Chlorine	35-1	657454	629502	604246	630401	4.22	cps
Chlorine	35-2	2150	2217	1973	2114	5.95	cps
Chromium	52-2	433	500	473	469	7.16	cps
Cobalt	59-2	137	123	123	128	6.02	cps
Copper	63-2	2740	2557	2637	2645	3.48	cps
Dysprosium	156-1	17	33	27	26	32.81	cps
Dysprosium	156-2	3	3	7	4	43.40	cps
Erbium	164-1	77	83	63	74	13.68	cps
Erbium	164-2	37	10	23	23	57.15	cps
Gadolinium	160-1	40	37	47	41	12.39	cps
Gadolinium	160-2	3	17	10	10	66.70	cps
Holmium	165-1	12416190	12721875	12784963	12641009	1.56	cps
Holmium	165-2	4419813	4401784	4317702	4379766	1.24	cps
Indium	115-1	9969383	10187859	10152307	10103183	1.16	cps
Indium	115-2	953531	959543	953801	955625	0.36	cps
Iron	54-2	277	347	340	321	12.03	cps
Iron	56-2	4904	5141	4798	4948	3.55	cps
Iron	57-2	137	160	120	139	14.47	cps
Krypton	83-1	147	137	107	130	16.01	cps
Lead	206-1	1727	1787	1540	1685	7.64	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1523	1527	1433	1495	3.54	cps
Lead	208-1	7014	6884	6597	6832	3.12	cps
Lithium	6-1	6071415	6154205	6139504	6121708	0.72	cps
Magnesium	24-2	407	560	450	472	16.74	cps
Manganese	55-2	267	250	303	273	9.98	cps
Molybdenum	94-1	624	453	390	489	24.70	cps
Molybdenum	95-1	397	293	283	324	19.34	cps
Molybdenum	96-1	470	397	403	423	9.58	cps
Molybdenum	97-1	200	160	193	184	11.62	cps
Molybdenum	98-1	573	427	413	471	18.84	cps
Neodymium	150-1	23	13	17	18	28.64	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	890	863	880	878	1.53	cps
Phosphorus	31-2	33	33	27	31	12.36	cps
Potassium	39-2	5955	6011	5695	5887	2.87	cps
Rhodium	103-1	9098441	9263420	9408918	9256926	1.68	cps
Rhodium	103-2	3590700	3520462	3496815	3535992	1.38	cps
Scandium	45-1	7429765	7642826	7650995	7574529	1.66	cps
Scandium	45-2	129507	128411	127566	128495	0.76	cps
Selenium	82-1	10	-20	-3	-4	-338.02	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	7	7	4	86.60	cps
Silicon	28-1	356833	351230	349737	352600	1.06	cps
Silver	107-1	303	277	263	281	7.25	cps
Silver	109-1	183	203	170	186	9.04	cps
Sodium	23-2	18722	18498	18789	18670	0.81	cps
Strontium	86-1	253	197	217	222	12.93	cps
Strontium	88-1	597	463	540	533	12.55	cps
Sulfur	34-1	322158	323132	321837	322376	0.21	cps
Terbium	159-1	12708647	13071659	13064334	12948213	1.60	cps
Terbium	159-2	4144760	4274142	4213958	4210953	1.54	cps
Thallium	203-1	553	543	550	549	0.93	cps
Thallium	205-1	1390	1263	1237	1297	6.32	cps
Tin	118-1	1093	1177	1120	1130	3.77	cps
Titanium	47-1	130	127	103	120	12.11	cps
Uranium	238-1	77	80	77	78	2.47	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:37:29	DataFile Name :	080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	17	17	14	26.66	cps
Ytterbium	172-1	53	57	107	72	41.37	cps
Ytterbium	172-2	23	33	40	32	26.04	cps
Ytterbium	176-1	1640	1540	1443	1541	6.38	cps
Ytterbium	176-2	193	233	217	214	9.37	cps
Yttrium	89-1	18024334	18942703	18531774	18499604	2.49	cps
Yttrium	89-2	1226523	1229892	1221969	1226128	0.32	cps
Zinc	66-2	317	323	310	317	2.10	cps
Zirconium	90-1	587	737	760	694	13.55	cps
Zirconium	91-1	120	137	147	134	10.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	270685	270981	270688	270784	0.06	cps
Antimony	121-1	102880	104462	104456	103932	0.88	cps
Arsenic	75-2	2340	2234	1957	2177	9.09	cps
Barium	135-1	616219	621325	622803	620116	0.56	cps
Barium	137-1	1060816	1076702	1086318	1074612	1.20	cps
Beryllium	9-1	1825	1810	1744	1793	2.41	cps
Bismuth	209-1	8111580	8000156	8004867	8038868	0.78	cps
Bismuth	209-2	3088282	3109669	3046868	3081606	1.04	cps
Bromine	81-1	17855	18706	18492	18351	2.41	cps
Cadmium	108-1	2037	2164	2180	2127	3.69	cps
Cadmium	106-1	9457	9233	9243	9311	1.36	cps
Cadmium	111-1	25452	25589	26133	25725	1.40	cps
Calcium	43-1	8423204	8645189	8511512	8526635	1.31	cps
Calcium	44-1	137712251	139169535	137714751	138198846	0.61	cps
Carbon	12-1	40164399	40915948	41852592	40977646	2.06	cps
Carbon	12-2	275817	275521	275810	275716	0.06	cps
Chlorine	35-1	117849525	123987455	126291768	122709583	3.56	cps
Chlorine	35-2	491566	493287	494085	492979	0.26	cps
Chromium	52-2	129748	131891	129963	130534	0.90	cps
Cobalt	59-2	37439	37382	37098	37307	0.49	cps
Copper	63-2	588961	595815	592369	592381	0.58	cps
Dysprosium	156-1	22940	23250	23952	23381	2.22	cps
Dysprosium	156-2	7095	6512	6748	6785	4.33	cps
Erbium	164-1	17852	18440	18283	18191	1.67	cps
Erbium	164-2	5805	6182	5855	5947	3.44	cps
Gadolinium	160-1	20422	20616	20843	20627	1.02	cps
Gadolinium	160-2	7866	7709	8183	7919	3.05	cps
Holmium	165-1	13502691	13575806	13580673	13553057	0.32	cps
Holmium	165-2	4685213	4550093	4602792	4612699	1.48	cps
Indium	115-1	10402418	10487831	10561794	10484014	0.76	cps
Indium	115-2	994155	997500	996520	996058	0.17	cps
Iron	54-2	680437	677461	673941	677280	0.48	cps
Iron	56-2	12977616	12960823	12838145	12925528	0.59	cps
Iron	57-2	313290	311490	312843	312541	0.30	cps
Krypton	83-1	187	187	173	182	4.22	cps
Lead	206-1	5660519	5632938	5577598	5623685	0.75	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4648342	4691855	4669700	4669965	0.47	cps
Lead	208-1	21673658	21612077	21573417	21619717	0.23	cps
Lithium	6-1	6297946	6286522	6335893	6306787	0.41	cps
Magnesium	24-2	1320550	1306117	1292878	1306515	1.06	cps
Manganese	55-2	395483	397110	394468	395687	0.34	cps
Molybdenum	94-1	56140	60671	58497	58436	3.88	cps
Molybdenum	95-1	12733	13493	13400	13209	3.14	cps
Molybdenum	96-1	22184	22044	22836	22355	1.89	cps
Molybdenum	97-1	8336	8169	8116	8207	1.40	cps
Molybdenum	98-1	20732	21240	21413	21128	1.67	cps
Neodymium	150-1	35530	34852	35537	35306	1.11	cps
Neodymium	150-2	8486	8233	8223	8314	1.80	cps
Nickel	60-2	28906	28806	29247	28986	0.80	cps
Phosphorus	31-2	9233	9423	9113	9256	1.69	cps
Potassium	39-2	731967	728500	731754	730740	0.27	cps
Rhodium	103-1	9405546	9357823	9584950	9449440	1.27	cps
Rhodium	103-2	3524487	3586710	3584820	3565339	0.99	cps
Scandium	45-1	8143964	8189029	8236761	8189918	0.57	cps
Scandium	45-2	140357	141367	141832	141185	0.53	cps
Selenium	82-1	310	240	307	286	13.83	cps
Selenium	77-2	57	33	47	46	25.70	cps
Selenium	78-2	60	37	27	41	41.60	cps
Silicon	28-1	16786970	16789830	16797698	16791499	0.03	cps
Silver	107-1	729354	739938	744403	737898	1.05	cps
Silver	109-1	690442	706399	711949	702930	1.59	cps
Sodium	23-2	16167551	16104194	16030275	16100673	0.43	cps
Strontium	86-1	2103263	2120851	2139410	2121175	0.85	cps
Strontium	88-1	17659058	17922356	18182449	17921288	1.46	cps
Sulfur	34-1	1958161	1999748	1982383	1980098	1.05	cps
Terbium	159-1	13794655	13797900	13986914	13859823	0.79	cps
Terbium	159-2	4392192	4461646	4461409	4438415	0.90	cps
Thallium	203-1	3387	3217	3861	3488	9.56	cps
Thallium	205-1	7379	8453	9073	8302	10.33	cps
Tin	118-1	140854	142555	143420	142276	0.92	cps
Titanium	47-1	167840	170949	169184	169324	0.92	cps
Uranium	238-1	37044	37395	36994	37144	0.59	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-02	Instrumnet Name :	P8
Client Sample ID :	MH2H29	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:40:52	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	25199	26077	25045	25440	2.19	cps
Ytterbium	172-1	5508	5585	5371	5488	1.97	cps
Ytterbium	172-2	1980	2097	2144	2074	4.06	cps
Ytterbium	176-1	5201	5331	5508	5347	2.88	cps
Ytterbium	176-2	1607	1560	1520	1562	2.78	cps
Yttrium	89-1	20134931	20038913	20127513	20100452	0.27	cps
Yttrium	89-2	1341016	1337319	1333272	1337202	0.29	cps
Zinc	66-2	656087	658268	654167	656174	0.31	cps
Zirconium	90-1	138961	136252	140171	138461	1.45	cps
Zirconium	91-1	30701	31476	31227	31135	1.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	296868	298180	300435	298494	0.60	cps
Antimony	121-1	47111	47175	47302	47196	0.21	cps
Arsenic	75-2	2614	2874	2874	2787	5.39	cps
Barium	135-1	523286	526882	532826	527665	0.91	cps
Barium	137-1	905572	915708	926648	915976	1.15	cps
Beryllium	9-1	2771	2729	2671	2724	1.84	cps
Bismuth	209-1	7700557	8849624	8273488	8274556	6.94	cps
Bismuth	209-2	3157271	3088242	3112684	3119399	1.12	cps
Bromine	81-1	14885	15452	15392	15243	2.04	cps
Cadmium	108-1	1700	1763	1687	1717	2.39	cps
Cadmium	106-1	8316	9457	8726	8833	6.54	cps
Cadmium	111-1	19486	20234	20529	20083	2.68	cps
Calcium	43-1	6800362	6830827	6964965	6865384	1.28	cps
Calcium	44-1	111130315	111507965	112781045	111806442	0.77	cps
Carbon	12-1	16289850	16530396	16898370	16572872	1.85	cps
Carbon	12-2	111667	113000	112415	112361	0.59	cps
Chlorine	35-1	142476335	148864041	151140171	147493516	3.05	cps
Chlorine	35-2	579321	580814	588978	583038	0.89	cps
Chromium	52-2	58134	57679	58777	58197	0.95	cps
Cobalt	59-2	29537	30306	29985	29943	1.29	cps
Copper	63-2	383991	388193	391130	387771	0.93	cps
Dysprosium	156-1	37512	37770	37573	37618	0.36	cps
Dysprosium	156-2	10985	11038	11195	11072	0.99	cps
Erbium	164-1	30873	31674	31434	31327	1.31	cps
Erbium	164-2	9684	9854	9950	9829	1.37	cps
Gadolinium	160-1	33285	33128	34327	33580	1.94	cps
Gadolinium	160-2	12903	12526	12913	12781	1.73	cps
Holmium	165-1	12689459	14989829	13667471	13782253	8.38	cps
Holmium	165-2	4637556	4665744	4602811	4635370	0.68	cps
Indium	115-1	10037810	11649562	10931632	10873001	7.43	cps
Indium	115-2	1022753	1019523	1009030	1017102	0.71	cps
Iron	54-2	1423675	1451376	1434284	1436445	0.97	cps
Iron	56-2	26314900	26396570	25955105	26222192	0.90	cps
Iron	57-2	630451	640896	633767	635038	0.84	cps
Krypton	83-1	197	220	177	198	10.96	cps
Lead	206-1	4246973	4258580	4293538	4266363	0.57	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3489218	3494158	3549848	3511075	0.96	cps
Lead	208-1	16217244	16355529	16409754	16327509	0.61	cps
Lithium	6-1	5943501	6640685	6356687	6313624	5.55	cps
Magnesium	24-2	932567	933739	938670	934992	0.35	cps
Manganese	55-2	509742	517179	516586	514502	0.80	cps
Molybdenum	94-1	69563	69864	72033	70487	1.91	cps
Molybdenum	95-1	17237	17211	16784	17077	1.49	cps
Molybdenum	96-1	28389	28192	28744	28442	0.98	cps
Molybdenum	97-1	10414	10554	10781	10583	1.75	cps
Molybdenum	98-1	27354	27227	27658	27413	0.81	cps
Neodymium	150-1	56997	55758	56492	56416	1.10	cps
Neodymium	150-2	13010	12896	13413	13106	2.07	cps
Nickel	60-2	23757	23586	23416	23586	0.72	cps
Phosphorus	31-2	5598	5468	5284	5450	2.89	cps
Potassium	39-2	426188	426249	425323	425920	0.12	cps
Rhodium	103-1	9024979	10565598	9853300	9814626	7.86	cps
Rhodium	103-2	3659679	3611616	3692409	3654568	1.11	cps
Scandium	45-1	7755848	9128681	8442805	8442445	8.13	cps
Scandium	45-2	144864	144895	142602	144120	0.91	cps
Selenium	82-1	303	300	293	299	1.71	cps
Selenium	77-2	70	73	77	73	4.55	cps
Selenium	78-2	40	53	57	50	17.64	cps
Silicon	28-1	26629811	26430831	27387423	26816022	1.88	cps
Silver	107-1	107383	107998	109571	108318	1.04	cps
Silver	109-1	102635	104049	103378	103354	0.68	cps
Sodium	23-2	2894403	2881198	2873328	2882977	0.37	cps
Strontium	86-1	2118545	2125305	2108265	2117372	0.41	cps
Strontium	88-1	17985601	17839068	18058460	17961043	0.62	cps
Sulfur	34-1	3162162	3180561	3236928	3193217	1.22	cps
Terbium	159-1	13128794	15167627	14231974	14176132	7.20	cps
Terbium	159-2	4536027	4403980	4503052	4481020	1.53	cps
Thallium	203-1	4234	5304	6222	5253	18.93	cps
Thallium	205-1	9941	12209	14305	12151	17.96	cps
Tin	118-1	143569	143860	146440	144623	1.09	cps
Titanium	47-1	388838	392450	392350	391213	0.53	cps
Uranium	238-1	51986	51337	52036	51786	0.75	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03	Instrumnet Name :	P8
Client Sample ID :	MH2H30	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:44:07	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	41253	41711	41557	41507	0.56	cps
Ytterbium	172-1	8853	9413	9327	9198	3.28	cps
Ytterbium	172-2	3624	3571	3380	3525	3.63	cps
Ytterbium	176-1	7372	7966	7702	7680	3.87	cps
Ytterbium	176-2	2710	2677	2680	2689	0.68	cps
Yttrium	89-1	19339569	22393583	20545629	20759594	7.41	cps
Yttrium	89-2	1372152	1383605	1363424	1373060	0.74	cps
Zinc	66-2	617730	624093	621637	621153	0.52	cps
Zirconium	90-1	164012	165082	166687	165260	0.81	cps
Zirconium	91-1	35773	36307	36986	36355	1.67	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	292507	291502	292728	292246	0.22	cps
Antimony	121-1	46071	46823	47295	46730	1.32	cps
Arsenic	75-2	2560	2684	2704	2649	2.93	cps
Barium	135-1	520484	529905	536915	529101	1.56	cps
Barium	137-1	910797	923191	938505	924164	1.50	cps
Beryllium	9-1	2597	2494	2617	2569	2.59	cps
Bismuth	209-1	8370722	8432268	8434105	8412365	0.43	cps
Bismuth	209-2	3191215	3140852	3163835	3165301	0.80	cps
Bromine	81-1	14835	15435	14978	15083	2.08	cps
Cadmium	108-1	1683	1703	1680	1689	0.75	cps
Cadmium	106-1	8770	9303	8930	9001	3.04	cps
Cadmium	111-1	19572	20559	20307	20146	2.55	cps
Calcium	43-1	6798015	6893950	6905641	6865869	0.86	cps
Calcium	44-1	111323508	111150832	112262542	111578961	0.54	cps
Carbon	12-1	15831519	16022938	16292889	16049115	1.44	cps
Carbon	12-2	109336	108516	110138	109330	0.74	cps
Chlorine	35-1	142015138	147499881	151684874	147066631	3.30	cps
Chlorine	35-2	568568	571152	580878	573533	1.13	cps
Chromium	52-2	57940	56461	57097	57166	1.30	cps
Cobalt	59-2	29531	29895	29110	29512	1.33	cps
Copper	63-2	379032	377392	375986	377470	0.40	cps
Dysprosium	156-1	36944	37339	37636	37306	0.93	cps
Dysprosium	156-2	10998	10441	11041	10827	3.09	cps
Erbium	164-1	30311	30295	30538	30381	0.45	cps
Erbium	164-2	9530	9774	9564	9622	1.37	cps
Gadolinium	160-1	33151	33482	34060	33564	1.37	cps
Gadolinium	160-2	12362	12483	12439	12428	0.49	cps
Holmium	165-1	13804886	14457084	14029338	14097103	2.35	cps
Holmium	165-2	4658558	4604215	4621393	4628055	0.60	cps
Indium	115-1	11149345	11204849	11100782	11151659	0.47	cps
Indium	115-2	1039422	1017317	1017163	1024634	1.25	cps
Iron	54-2	1421062	1432467	1428026	1427185	0.40	cps
Iron	56-2	25905779	25773000	26084666	25921148	0.60	cps
Iron	57-2	619753	624058	627570	623794	0.63	cps
Krypton	83-1	207	257	263	242	12.79	cps
Lead	206-1	4218329	4269498	4266488	4251438	0.68	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3447377	3468190	3510362	3475310	0.92	cps
Lead	208-1	16127725	16227661	16300717	16218701	0.54	cps
Lithium	6-1	6201739	6277528	6235544	6238270	0.61	cps
Magnesium	24-2	914187	914393	915329	914637	0.07	cps
Manganese	55-2	504412	504200	508172	505595	0.44	cps
Molybdenum	94-1	67697	69724	69315	68912	1.56	cps
Molybdenum	95-1	16550	16717	16887	16718	1.01	cps
Molybdenum	96-1	27273	27628	28245	27715	1.77	cps
Molybdenum	97-1	10040	10140	10381	10187	1.72	cps
Molybdenum	98-1	26933	26612	26722	26756	0.61	cps
Neodymium	150-1	55812	56003	57268	56361	1.40	cps
Neodymium	150-2	13040	12900	13330	13090	1.68	cps
Nickel	60-2	23316	23333	22808	23152	1.29	cps
Phosphorus	31-2	5191	5271	5731	5398	5.40	cps
Potassium	39-2	416881	417556	420293	418243	0.43	cps
Rhodium	103-1	9938179	10007035	9902413	9949209	0.53	cps
Rhodium	103-2	3770542	3728238	3687508	3728763	1.11	cps
Scandium	45-1	8470187	8583264	8486748	8513399	0.72	cps
Scandium	45-2	148494	143983	143458	145312	1.91	cps
Selenium	82-1	247	210	253	237	9.86	cps
Selenium	77-2	63	77	53	64	18.17	cps
Selenium	78-2	60	83	37	60	38.88	cps
Silicon	28-1	25784024	26256376	26142094	26060831	0.95	cps
Silver	107-1	107924	106531	109675	108043	1.46	cps
Silver	109-1	101950	102444	103884	102759	0.98	cps
Sodium	23-2	2882948	2827244	2819700	2843297	1.21	cps
Strontium	86-1	2101257	2139505	2105575	2115446	0.99	cps
Strontium	88-1	17604289	17677148	17985351	17755596	1.14	cps
Sulfur	34-1	3179423	3222242	3228788	3210151	0.84	cps
Terbium	159-1	14261819	14467079	14465339	14398079	0.82	cps
Terbium	159-2	4636175	4451737	4471920	4519944	2.24	cps
Thallium	203-1	4004	4467	4968	4480	10.76	cps
Thallium	205-1	9830	10895	12006	10910	9.97	cps
Tin	118-1	141418	145591	146107	144372	1.78	cps
Titanium	47-1	385250	386850	400928	391009	2.21	cps
Uranium	238-1	50965	51980	51524	51490	0.99	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-04	Instrumnet Name :	P8
Client Sample ID :	MH2H30D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:47:20	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40587	40841	41136	40855	0.67	cps
Ytterbium	172-1	9197	9187	9260	9214	0.43	cps
Ytterbium	172-2	3374	3237	3330	3314	2.11	cps
Ytterbium	176-1	7566	7652	8063	7760	3.42	cps
Ytterbium	176-2	2440	2627	2430	2499	4.43	cps
Yttrium	89-1	21109909	21331319	21123742	21188323	0.59	cps
Yttrium	89-2	1488386	1382111	1440339	1436945	3.70	cps
Zinc	66-2	611716	612463	611963	612047	0.06	cps
Zirconium	90-1	163458	165125	168956	165847	1.70	cps
Zirconium	91-1	35455	36555	36535	36182	1.74	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	58105	56593	57349	57349	1.32	cps
Antimony	121-1	9463	9510	9343	9439	0.91	cps
Arsenic	75-2	567	443	527	512	12.28	cps
Barium	135-1	103538	104206	104005	103916	0.33	cps
Barium	137-1	180250	181631	182060	181314	0.52	cps
Beryllium	9-1	731	779	794	768	4.25	cps
Bismuth	209-1	8325105	8354696	8335288	8338363	0.18	cps
Bismuth	209-2	2992090	3242070	3141660	3125273	4.03	cps
Bromine	81-1	8192	8443	8423	8353	1.66	cps
Cadmium	108-1	310	383	383	359	11.80	cps
Cadmium	106-1	6702	6762	6652	6705	0.82	cps
Cadmium	111-1	5007	4935	5049	4997	1.16	cps
Calcium	43-1	1382136	1383876	1377105	1381039	0.25	cps
Calcium	44-1	21992806	22040465	21779060	21937444	0.63	cps
Carbon	12-1	5370284	5371465	5420286	5387345	0.53	cps
Carbon	12-2	36265	35857	35476	35866	1.10	cps
Chlorine	35-1	32989858	33997770	33704453	33564027	1.54	cps
Chlorine	35-2	123558	123790	121508	122952	1.02	cps
Chromium	52-2	11445	11892	11672	11669	1.92	cps
Cobalt	59-2	6378	5721	5998	6032	5.47	cps
Copper	63-2	80131	78988	79729	79616	0.73	cps
Dysprosium	156-1	7726	7599	7422	7582	2.01	cps
Dysprosium	156-2	2187	2090	2080	2119	2.78	cps
Erbium	164-1	5738	5991	5948	5892	2.30	cps
Erbium	164-2	1790	1953	1843	1862	4.47	cps
Gadolinium	160-1	6405	6732	6688	6608	2.69	cps
Gadolinium	160-2	2447	2574	2590	2537	3.09	cps
Holmium	165-1	13487098	13476979	13564639	13509572	0.35	cps
Holmium	165-2	4289144	4562229	4530051	4460475	3.35	cps
Indium	115-1	10634968	10823746	10480310	10646341	1.62	cps
Indium	115-2	944475	1015450	983345	981090	3.62	cps
Iron	54-2	268633	267480	267307	267807	0.27	cps
Iron	56-2	5150381	5172368	5082302	5135017	0.91	cps
Iron	57-2	124989	123822	122672	123827	0.94	cps
Krypton	83-1	150	113	130	131	14.00	cps
Lead	206-1	792926	800467	801131	798175	0.57	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	665770	667349	664441	665854	0.22	cps
Lead	208-1	3178378	3243742	3243545	3221889	1.17	cps
Lithium	6-1	6346107	6080242	6224182	6216844	2.14	cps
Magnesium	24-2	182068	180195	181231	181165	0.52	cps
Manganese	55-2	100134	100195	101679	100669	0.87	cps
Molybdenum	94-1	13624	13994	13443	13687	2.05	cps
Molybdenum	95-1	3320	3480	3414	3405	2.36	cps
Molybdenum	96-1	5424	5985	5851	5753	5.09	cps
Molybdenum	97-1	2207	2097	1980	2095	5.41	cps
Molybdenum	98-1	5481	5668	5508	5552	1.82	cps
Neodymium	150-1	10975	11155	11288	11139	1.41	cps
Neodymium	150-2	2497	2430	2544	2490	2.29	cps
Nickel	60-2	5418	5544	5511	5491	1.20	cps
Phosphorus	31-2	997	1023	1030	1017	1.74	cps
Potassium	39-2	87949	87493	87050	87497	0.51	cps
Rhodium	103-1	9921878	9783593	9706447	9803973	1.11	cps
Rhodium	103-2	3423811	3719329	3620315	3587818	4.19	cps
Scandium	45-1	8108933	8162672	8139023	8136876	0.33	cps
Scandium	45-2	130758	140738	136881	136126	3.70	cps
Selenium	82-1	23	80	57	53	53.40	cps
Selenium	77-2	17	27	13	19	36.75	cps
Selenium	78-2	30	3	7	13	108.98	cps
Silicon	28-1	5482046	5486811	5426085	5464981	0.62	cps
Silver	107-1	22185	22465	22595	22415	0.94	cps
Silver	109-1	20866	20933	21413	21071	1.42	cps
Sodium	23-2	552023	553757	548216	551332	0.51	cps
Strontium	86-1	392337	397554	394343	394744	0.67	cps
Strontium	88-1	3576611	3606265	3553499	3578792	0.74	cps
Sulfur	34-1	931875	1034086	1035304	1000422	5.93	cps
Terbium	159-1	13765933	13854384	13903740	13841352	0.50	cps
Terbium	159-2	4176202	4513691	4290639	4326844	3.97	cps
Thallium	203-1	1163	1087	1067	1106	4.62	cps
Thallium	205-1	2670	2564	2474	2569	3.83	cps
Tin	118-1	29653	29759	29859	29757	0.35	cps
Titanium	47-1	77022	75922	77169	76704	0.89	cps
Uranium	238-1	10388	10131	10034	10184	1.79	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03LX5	Instrumnet Name :	P8
Client Sample ID :	MH2H30L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 14:50:35	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8026	7732	8162	7973	2.76	cps
Ytterbium	172-1	1977	2057	1933	1989	3.15	cps
Ytterbium	172-2	673	637	643	651	3.00	cps
Ytterbium	176-1	2967	2890	2917	2925	1.33	cps
Ytterbium	176-2	723	663	713	700	4.59	cps
Yttrium	89-1	19858982	20217724	20001298	20026002	0.90	cps
Yttrium	89-2	1225951	1324661	1290152	1280254	3.91	cps
Zinc	66-2	123512	123021	122974	123169	0.24	cps
Zirconium	90-1	31596	32411	32024	32010	1.27	cps
Zirconium	91-1	6955	7042	7225	7074	1.95	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	296071	294338	293134	294514	0.50	cps
Antimony	121-1	261658	266746	267194	265199	1.16	cps
Arsenic	75-2	4071	4094	4067	4077	0.36	cps
Barium	135-1	1752512	1750436	1740573	1747840	0.36	cps
Barium	137-1	2965672	2968212	3073260	3002381	2.04	cps
Beryllium	9-1	43705	44146	44200	44017	0.62	cps
Bismuth	209-1	8391713	8324871	8119984	8278856	1.71	cps
Bismuth	209-2	3143414	3097664	3187115	3142731	1.42	cps
Bromine	81-1	14384	14424	14664	14491	1.05	cps
Cadmium	108-1	3440	3560	3641	3547	2.84	cps
Cadmium	106-1	11542	11108	11235	11295	1.97	cps
Cadmium	111-1	46392	47398	46986	46925	1.08	cps
Calcium	43-1	6444979	6481800	6436822	6454534	0.37	cps
Calcium	44-1	104186478	106038945	104068568	104764664	1.05	cps
Carbon	12-1	14598139	14571816	14914665	14694873	1.30	cps
Carbon	12-2	99748	100614	100816	100393	0.56	cps
Chlorine	35-1	134459915	141816118	141976855	139417629	3.08	cps
Chlorine	35-2	548250	552776	554216	551747	0.56	cps
Chromium	52-2	150728	151195	149289	150404	0.66	cps
Cobalt	59-2	474961	476490	474076	475176	0.26	cps
Copper	63-2	529671	534441	532206	532106	0.45	cps
Dysprosium	156-1	34665	35096	36132	35298	2.14	cps
Dysprosium	156-2	10584	10257	10324	10389	1.66	cps
Erbium	164-1	28774	28384	29172	28777	1.37	cps
Erbium	164-2	9140	9223	8936	9100	1.62	cps
Gadolinium	160-1	30669	31581	31761	31337	1.87	cps
Gadolinium	160-2	11765	11705	11762	11744	0.29	cps
Holmium	165-1	13959951	13635147	13665745	13753615	1.30	cps
Holmium	165-2	4640585	4581772	4694245	4638867	1.21	cps
Indium	115-1	11026260	10739050	10665855	10810389	1.76	cps
Indium	115-2	1005569	1001634	1037269	1014824	1.93	cps
Iron	54-2	1293597	1290138	1289062	1290933	0.18	cps
Iron	56-2	24723176	24309430	24850523	24627710	1.15	cps
Iron	57-2	591226	594543	590271	592013	0.38	cps
Krypton	83-1	210	233	200	214	7.98	cps
Lead	206-1	4010329	4092168	4026422	4042973	1.07	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3343894	3325221	3390501	3353205	1.00	cps
Lead	208-1	15384006	15638912	15572931	15531950	0.85	cps
Lithium	6-1	6353087	6171305	6233040	6252477	1.48	cps
Magnesium	24-2	860135	865233	854704	860024	0.61	cps
Manganese	55-2	571764	573002	573850	572872	0.18	cps
Molybdenum	94-1	63806	65751	65869	65142	1.78	cps
Molybdenum	95-1	15509	16273	15936	15906	2.41	cps
Molybdenum	96-1	26004	26495	25894	26131	1.22	cps
Molybdenum	97-1	9697	9607	9607	9637	0.54	cps
Molybdenum	98-1	24879	24775	25543	25066	1.66	cps
Neodymium	150-1	52813	52863	53339	53005	0.55	cps
Neodymium	150-2	12116	12382	11949	12149	1.80	cps
Nickel	60-2	143801	144652	144980	144478	0.42	cps
Phosphorus	31-2	5174	5068	5041	5094	1.39	cps
Potassium	39-2	392327	390961	389063	390783	0.42	cps
Rhodium	103-1	9896140	9640632	9577199	9704657	1.74	cps
Rhodium	103-2	3734153	3665683	3809818	3736551	1.93	cps
Scandium	45-1	8485442	8328717	8258347	8357502	1.39	cps
Scandium	45-2	143912	142222	147077	144404	1.71	cps
Selenium	82-1	4057	4271	4241	4190	2.76	cps
Selenium	77-2	117	123	110	117	5.71	cps
Selenium	78-2	237	250	303	263	13.40	cps
Silicon	28-1	24648119	25022862	24495740	24722240	1.10	cps
Silver	107-1	245564	246603	245498	245888	0.25	cps
Silver	109-1	229620	234588	236967	233725	1.60	cps
Sodium	23-2	2708279	2712359	2706602	2709080	0.11	cps
Strontium	86-1	1961454	1988564	1975751	1975257	0.69	cps
Strontium	88-1	16803266	16788848	16884952	16825689	0.31	cps
Sulfur	34-1	3038061	3095504	3049769	3061111	0.99	cps
Terbium	159-1	14312609	14015762	14032172	14120181	1.18	cps
Terbium	159-2	4412028	4438853	4491409	4447430	0.91	cps
Thallium	203-1	116080	116258	118184	116841	1.00	cps
Thallium	205-1	273484	277625	278179	276429	0.93	cps
Tin	118-1	136253	137354	137236	136948	0.44	cps
Titanium	47-1	362924	365851	369110	365962	0.85	cps
Uranium	238-1	48750	47826	49211	48596	1.45	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-05	Instrumnet Name :	P8
Client Sample ID :	MH2H30S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:53:52	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	225941	226093	225840	225958	0.06	cps
Ytterbium	172-1	8543	8996	8696	8745	2.64	cps
Ytterbium	172-2	3150	3180	3304	3212	2.53	cps
Ytterbium	176-1	7542	7209	7626	7459	2.96	cps
Ytterbium	176-2	2340	2284	2414	2346	2.78	cps
Yttrium	89-1	21243541	20911493	20738322	20964452	1.22	cps
Yttrium	89-2	1366943	1341884	1457257	1388695	4.37	cps
Zinc	66-2	610123	610814	609483	610140	0.11	cps
Zirconium	90-1	152941	151592	158529	154354	2.38	cps
Zirconium	91-1	33320	35482	40404	36402	9.97	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	310693	317428	314798	314306	1.08	cps
Antimony	121-1	32666	32596	33631	32964	1.76	cps
Arsenic	75-2	1680	1673	1613	1656	2.22	cps
Barium	135-1	443810	452117	452083	449337	1.07	cps
Barium	137-1	763637	785465	792136	780413	1.91	cps
Beryllium	9-1	2635	2736	2850	2740	3.93	cps
Bismuth	209-1	8238777	8289123	8273233	8267044	0.31	cps
Bismuth	209-2	2990474	3071823	3022288	3028195	1.35	cps
Bromine	81-1	14634	14951	15242	14943	2.03	cps
Cadmium	108-1	3937	4087	4034	4020	1.89	cps
Cadmium	106-1	12359	12342	12329	12343	0.12	cps
Cadmium	111-1	51747	51555	52841	52048	1.33	cps
Calcium	43-1	3578298	3590227	3630735	3599754	0.76	cps
Calcium	44-1	57004879	57709364	57731599	57481947	0.72	cps
Carbon	12-1	33151823	34614771	34430219	34065604	2.34	cps
Carbon	12-2	231139	233134	229504	231259	0.79	cps
Chlorine	35-1	120053738	128857985	131010455	126640726	4.58	cps
Chlorine	35-2	489916	494607	498715	494413	0.89	cps
Chromium	52-2	118587	119796	119265	119216	0.51	cps
Cobalt	59-2	29304	29982	29263	29516	1.37	cps
Copper	63-2	547271	545311	547517	546699	0.22	cps
Dysprosium	156-1	33385	33308	33579	33424	0.42	cps
Dysprosium	156-2	9700	9477	9550	9576	1.19	cps
Erbium	164-1	25688	26874	27021	26528	2.75	cps
Erbium	164-2	8373	8002	8570	8315	3.46	cps
Gadolinium	160-1	28844	29336	29352	29177	0.99	cps
Gadolinium	160-2	10885	11031	10581	10832	2.12	cps
Holmium	165-1	13966545	13908434	13961292	13945424	0.23	cps
Holmium	165-2	4494733	4503489	4541097	4513107	0.55	cps
Indium	115-1	10892543	10825957	10850778	10856426	0.31	cps
Indium	115-2	981149	985022	982413	982861	0.20	cps
Iron	54-2	1098917	1098973	1093280	1097057	0.30	cps
Iron	56-2	21194728	21006249	20956414	21052464	0.60	cps
Iron	57-2	508390	505528	509211	507710	0.38	cps
Krypton	83-1	217	190	173	193	11.31	cps
Lead	206-1	6755307	6904879	6934506	6864897	1.40	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5297890	5422576	5440491	5386986	1.44	cps
Lead	208-1	25224902	25572848	25983035	25593595	1.48	cps
Lithium	6-1	6135205	6182970	6154653	6157609	0.39	cps
Magnesium	24-2	1352874	1319226	1326468	1332856	1.33	cps
Manganese	55-2	567471	564547	568249	566756	0.34	cps
Molybdenum	94-1	70440	72849	72377	71889	1.78	cps
Molybdenum	95-1	11295	11882	12062	11746	3.42	cps
Molybdenum	96-1	23300	24124	24078	23834	1.94	cps
Molybdenum	97-1	6998	7059	7239	7099	1.76	cps
Molybdenum	98-1	18920	19137	19284	19113	0.96	cps
Neodymium	150-1	46651	48186	47524	47453	1.62	cps
Neodymium	150-2	11091	10681	11118	10963	2.23	cps
Nickel	60-2	27246	27456	27520	27408	0.52	cps
Phosphorus	31-2	33388	33515	33532	33479	0.23	cps
Potassium	39-2	7351199	7401184	7404570	7385651	0.40	cps
Rhodium	103-1	9806655	9888319	9941812	9878928	0.69	cps
Rhodium	103-2	3623361	3601430	3546313	3590368	1.11	cps
Scandium	45-1	8556430	8369642	8411325	8445799	1.16	cps
Scandium	45-2	139468	139583	141438	140163	0.79	cps
Selenium	82-1	213	230	303	249	19.24	cps
Selenium	77-2	50	63	53	56	12.49	cps
Selenium	78-2	63	23	57	48	44.86	cps
Silicon	28-1	25332353	25281898	25282285	25298845	0.11	cps
Silver	107-1	368373	374868	375774	373005	1.08	cps
Silver	109-1	350180	356068	360436	355561	1.45	cps
Sodium	23-2	13461842	13422806	13601206	13495285	0.69	cps
Strontium	86-1	969508	984502	996751	983587	1.39	cps
Strontium	88-1	8748828	8846133	8940419	8845126	1.08	cps
Sulfur	34-1	3731955	3779490	3799720	3770388	0.92	cps
Terbium	159-1	14060150	14188764	14234929	14161281	0.64	cps
Terbium	159-2	4432174	4386955	4388013	4402381	0.59	cps
Thallium	203-1	3220	3200	3531	3317	5.58	cps
Thallium	205-1	7279	7799	8480	7852	7.67	cps
Tin	118-1	128493	130632	131477	130201	1.18	cps
Titanium	47-1	406749	415162	419547	413819	1.57	cps
Uranium	238-1	427541	436773	439326	434547	1.43	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-06	Instrumnet Name :	P8
Client Sample ID :	MH2H31	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 14:57:05	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	54597	53677	54429	54234	0.90	cps
Ytterbium	172-1	8630	8863	8660	8717	1.46	cps
Ytterbium	172-2	3174	3394	3414	3327	4.00	cps
Ytterbium	176-1	7656	7639	7702	7666	0.43	cps
Ytterbium	176-2	2500	2317	2380	2399	3.88	cps
Yttrium	89-1	20905770	20905046	21272160	21027658	1.01	cps
Yttrium	89-2	1342363	1338723	1343456	1341514	0.18	cps
Zinc	66-2	1213427	1211098	1211025	1211850	0.11	cps
Zirconium	90-1	177202	180675	183109	180329	1.65	cps
Zirconium	91-1	38727	40643	40211	39860	2.52	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	40	57	37	44	24.11	cps
Antimony	121-1	47	90	60	66	33.85	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	223	197	203	208	6.68	cps
Barium	137-1	327	330	340	332	2.09	cps
Beryllium	9-1	277	257	237	257	7.77	cps
Bismuth	209-1	8068093	8018138	7925418	8003883	0.90	cps
Bismuth	209-2	3067250	3066776	3044463	3059496	0.43	cps
Bromine	81-1	5895	5911	5708	5838	1.93	cps
Cadmium	108-1	27	10	33	23	51.50	cps
Cadmium	106-1	5578	5785	5741	5701	1.91	cps
Cadmium	111-1	1114	1187	1145	1148	3.19	cps
Calcium	43-1	337	317	280	311	9.24	cps
Calcium	44-1	5548	5338	5324	5403	2.32	cps
Carbon	12-1	2079037	2022171	2019329	2040179	1.65	cps
Carbon	12-2	13149	12255	12936	12780	3.65	cps
Chlorine	35-1	1922974	1811512	1705129	1813205	6.01	cps
Chlorine	35-2	5611	5394	5281	5429	3.09	cps
Chromium	52-2	487	450	427	454	6.66	cps
Cobalt	59-2	90	140	140	123	23.41	cps
Copper	63-2	4141	4411	4471	4341	4.05	cps
Dysprosium	156-1	127	110	110	116	8.33	cps
Dysprosium	156-2	10	3	3	6	69.34	cps
Erbium	164-1	47	57	67	57	17.65	cps
Erbium	164-2	10	10	23	14	53.28	cps
Gadolinium	160-1	40	40	23	34	27.94	cps
Gadolinium	160-2	17	17	7	13	43.29	cps
Holmium	165-1	12797837	12718936	12748873	12755216	0.31	cps
Holmium	165-2	4337392	4256080	4197285	4263586	1.65	cps
Indium	115-1	10188382	10146668	10089258	10141436	0.49	cps
Indium	115-2	925006	927010	924036	925350	0.16	cps
Iron	54-2	293	313	323	310	4.93	cps
Iron	56-2	4511	4407	4491	4470	1.23	cps
Iron	57-2	110	123	93	109	13.80	cps
Krypton	83-1	180	133	167	160	15.02	cps
Lead	206-1	1553	1590	1493	1546	3.16	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1253	1407	1457	1372	7.72	cps
Lead	208-1	5944	6307	6111	6121	2.97	cps
Lithium	6-1	5890342	5932275	5898032	5906883	0.38	cps
Magnesium	24-2	487	470	510	489	4.11	cps
Manganese	55-2	280	270	247	266	6.44	cps
Molybdenum	94-1	273	260	303	279	7.96	cps
Molybdenum	95-1	160	130	150	147	10.41	cps
Molybdenum	96-1	220	170	243	211	17.75	cps
Molybdenum	97-1	93	83	80	86	8.11	cps
Molybdenum	98-1	207	213	233	218	6.37	cps
Neodymium	150-1	23	10	17	17	39.99	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	963	860	843	889	7.31	cps
Phosphorus	31-2	17	47	40	34	45.73	cps
Potassium	39-2	5244	5211	5188	5214	0.55	cps
Rhodium	103-1	9326662	9300159	9275516	9300779	0.28	cps
Rhodium	103-2	3444290	3452411	3436518	3444406	0.23	cps
Scandium	45-1	7604231	7548485	7574744	7575820	0.37	cps
Scandium	45-2	125919	126578	127156	126551	0.49	cps
Selenium	82-1	-3	-10	-33	-16	-101.28	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	3	0	4	114.60	cps
Silicon	28-1	319825	316785	319043	318551	0.50	cps
Silver	107-1	240	237	187	221	13.51	cps
Silver	109-1	133	127	107	122	11.36	cps
Sodium	23-2	17858	17941	17481	17760	1.38	cps
Strontium	86-1	240	333	243	272	19.45	cps
Strontium	88-1	520	587	530	546	6.59	cps
Sulfur	34-1	321384	317923	316825	318711	0.75	cps
Terbium	159-1	13136646	12999709	12885312	13007222	0.97	cps
Terbium	159-2	4134668	4108664	4112441	4118591	0.34	cps
Thallium	203-1	397	540	480	472	15.24	cps
Thallium	205-1	1133	1203	1230	1189	4.20	cps
Tin	118-1	1187	1073	983	1081	9.42	cps
Titanium	47-1	107	97	137	113	18.37	cps
Uranium	238-1	17	13	3	11	62.48	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BL	Instrumnet Name :	P8
Client Sample ID :	PBS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:03:46	DataFile Name :	088CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	3	7	3	100.05	cps
Ytterbium	172-1	70	83	63	72	14.10	cps
Ytterbium	172-2	17	13	7	12	41.65	cps
Ytterbium	176-1	1710	1643	1527	1627	5.71	cps
Ytterbium	176-2	163	230	183	192	17.80	cps
Yttrium	89-1	18533271	18632643	18419161	18528358	0.58	cps
Yttrium	89-2	1195241	1196971	1179858	1190690	0.79	cps
Zinc	66-2	210	173	187	190	9.77	cps
Zirconium	90-1	630	590	573	598	4.87	cps
Zirconium	91-1	107	97	140	114	19.82	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1980	1930	1977	1962	1.42	cps
Antimony	121-1	39236	39925	40172	39778	1.22	cps
Arsenic	75-2	393	400	423	406	3.88	cps
Barium	135-1	50791	50092	50818	50567	0.81	cps
Barium	137-1	86682	88369	89255	88102	1.48	cps
Beryllium	9-1	8026	8219	8274	8173	1.59	cps
Bismuth	209-1	7789329	7954070	7840887	7861429	1.07	cps
Bismuth	209-2	3022446	2979692	2836626	2946255	3.30	cps
Bromine	81-1	5424	5324	5214	5321	1.97	cps
Cadmium	108-1	483	510	390	461	13.67	cps
Cadmium	106-1	6312	6231	5745	6096	5.03	cps
Cadmium	111-1	6068	6250	6457	6259	3.11	cps
Calcium	43-1	44977	46358	46321	45885	1.71	cps
Calcium	44-1	691888	704812	705052	700584	1.08	cps
Carbon	12-1	2037781	1982492	1974150	1998141	1.73	cps
Carbon	12-2	12812	12802	13053	12889	1.10	cps
Chlorine	35-1	1232361	1361582	1444785	1346243	7.95	cps
Chlorine	35-2	5448	5371	5578	5466	1.91	cps
Chromium	52-2	8679	8713	8413	8602	1.91	cps
Cobalt	59-2	8122	8042	8176	8113	0.83	cps
Copper	63-2	16870	16193	16650	16571	2.09	cps
Dysprosium	156-1	103	70	50	74	36.19	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	83	50	77	70	25.20	cps
Erbium	164-2	30	27	13	23	37.81	cps
Gadolinium	160-1	43	60	47	50	17.64	cps
Gadolinium	160-2	10	0	7	6	91.64	cps
Holmium	165-1	12593771	12247479	12530776	12457342	1.48	cps
Holmium	165-2	4152159	4169301	4110580	4144013	0.73	cps
Indium	115-1	9928077	9840938	9825282	9864766	0.56	cps
Indium	115-2	905086	905370	875872	895443	1.89	cps
Iron	54-2	36497	36045	37011	36518	1.32	cps
Iron	56-2	661201	664920	661710	662610	0.30	cps
Iron	57-2	16123	16403	16620	16382	1.52	cps
Krypton	83-1	133	133	153	140	8.25	cps
Lead	206-1	18069	17866	18049	17995	0.62	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15493	15760	15967	15740	1.51	cps
Lead	208-1	71183	72256	74205	72548	2.11	cps
Lithium	6-1	5936730	5980863	5928685	5948759	0.47	cps
Magnesium	24-2	156251	156655	156315	156407	0.14	cps
Manganese	55-2	2027	2034	1984	2015	1.35	cps
Molybdenum	94-1	41980	43805	42561	42782	2.18	cps
Molybdenum	95-1	51659	52161	52412	52077	0.74	cps
Molybdenum	96-1	57127	58492	58499	58039	1.36	cps
Molybdenum	97-1	31613	32150	32525	32096	1.43	cps
Molybdenum	98-1	82513	83492	83754	83253	0.79	cps
Neodymium	150-1	23	7	10	13	66.12	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	3040	3240	2787	3023	7.52	cps
Phosphorus	31-2	167	87	127	127	31.58	cps
Potassium	39-2	94017	93020	94369	93802	0.75	cps
Rhodium	103-1	8962814	8936868	8930246	8943309	0.19	cps
Rhodium	103-2	3412749	3330784	3219921	3321151	2.91	cps
Scandium	45-1	7378848	7325937	7328870	7344551	0.40	cps
Scandium	45-2	121615	122819	117772	120736	2.18	cps
Selenium	82-1	1607	1647	1653	1636	1.54	cps
Selenium	77-2	20	20	20	20	0.00	cps
Selenium	78-2	127	103	90	107	17.40	cps
Silicon	28-1	514669	523670	524602	520980	1.05	cps
Silver	107-1	25594	26215	26142	25983	1.31	cps
Silver	109-1	24756	24856	24839	24817	0.22	cps
Sodium	23-2	330465	329878	329365	329903	0.17	cps
Strontium	86-1	1267906	1289909	1296464	1284760	1.16	cps
Strontium	88-1	11427444	11618734	11484198	11510125	0.85	cps
Sulfur	34-1	314512	315350	313029	314297	0.37	cps
Terbium	159-1	12886689	12699019	12643316	12743008	1.00	cps
Terbium	159-2	4047659	4003662	3873294	3974872	2.28	cps
Thallium	203-1	20730	20897	21468	21032	1.84	cps
Thallium	205-1	49758	51093	50668	50507	1.35	cps
Tin	118-1	85464	87356	88839	87220	1.94	cps
Titanium	47-1	18539	19089	18676	18768	1.53	cps
Uranium	238-1	63401	64339	64821	64187	1.12	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166154BS	Instrumnet Name :	P8
Client Sample ID :	LCS154	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:33:00	DataFile Name :	092LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	16860	16817	17160	16946	1.10	cps
Ytterbium	172-1	60	87	67	71	19.52	cps
Ytterbium	172-2	40	27	33	33	20.00	cps
Ytterbium	176-1	1583	1570	1583	1579	0.49	cps
Ytterbium	176-2	200	240	267	236	14.25	cps
Yttrium	89-1	18010568	18024400	17901936	17978968	0.37	cps
Yttrium	89-2	1172853	1150237	1117990	1147027	2.40	cps
Zinc	66-2	3334	3424	3384	3380	1.33	cps
Zirconium	90-1	36090	36859	36842	36597	1.20	cps
Zirconium	91-1	8413	8079	8129	8207	2.19	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1219288	1238427	1232949	1230221	0.80	cps
Antimony	121-1	68313	71415	72343	70690	2.99	cps
Arsenic	75-2	13803	14287	13607	13899	2.52	cps
Barium	135-1	633243	654264	659750	649085	2.16	cps
Barium	137-1	1108840	1141612	1152526	1134326	2.00	cps
Beryllium	9-1	3608	3826	3726	3720	2.94	cps
Bismuth	209-1	7425115	7498212	7644855	7522727	1.49	cps
Bismuth	209-2	2744614	2825608	2750350	2773524	1.63	cps
Bromine	81-1	6662	6985	6848	6832	2.38	cps
Cadmium	108-1	2254	2204	2284	2247	1.80	cps
Cadmium	106-1	10711	11055	11161	10976	2.14	cps
Cadmium	111-1	7640	7967	7736	7781	2.16	cps
Calcium	43-1	23181901	23434815	23967706	23528141	1.70	cps
Calcium	44-1	372682608	382309261	386825981	380605950	1.90	cps
Carbon	12-1	2214376	2282648	2280079	2259034	1.71	cps
Carbon	12-2	15148	15215	15522	15295	1.30	cps
Chlorine	35-1	102015602	108716505	112607678	107779928	4.97	cps
Chlorine	35-2	436870	440963	443790	440541	0.79	cps
Chromium	52-2	161901	161794	160429	161375	0.51	cps
Cobalt	59-2	45432	46031	44814	45426	1.34	cps
Copper	63-2	234234	237981	238560	236925	0.99	cps
Dysprosium	156-1	29823	30979	31073	30625	2.27	cps
Dysprosium	156-2	8466	8696	8716	8626	1.61	cps
Erbium	164-1	28654	28918	29496	29023	1.48	cps
Erbium	164-2	8926	9377	8993	9099	2.67	cps
Gadolinium	160-1	26306	26283	26887	26492	1.29	cps
Gadolinium	160-2	9994	10171	10281	10148	1.43	cps
Holmium	165-1	12959385	13025926	12929044	12971452	0.38	cps
Holmium	165-2	4248969	4294704	4295683	4279785	0.62	cps
Indium	115-1	9690624	9933839	10022277	9882247	1.74	cps
Indium	115-2	918963	927811	932960	926578	0.76	cps
Iron	54-2	2949227	2926882	2971240	2949116	0.75	cps
Iron	56-2	53949843	54087853	53894043	53977246	0.18	cps
Iron	57-2	1298303	1300360	1308101	1302255	0.40	cps
Krypton	83-1	163	277	237	226	25.48	cps
Lead	206-1	510901	528946	528368	522738	1.96	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	437753	445124	454587	445821	1.89	cps
Lead	208-1	2021876	2078288	2088188	2062784	1.73	cps
Lithium	6-1	5698503	5692816	5720496	5703938	0.26	cps
Magnesium	24-2	1353315	1370642	1356227	1360062	0.68	cps
Manganese	55-2	1040865	1047706	1046245	1044938	0.34	cps
Molybdenum	94-1	763912	791406	800337	785218	2.42	cps
Molybdenum	95-1	511218	528070	534568	524619	2.30	cps
Molybdenum	96-1	621495	645331	653221	640016	2.58	cps
Molybdenum	97-1	318987	324877	330205	324690	1.73	cps
Molybdenum	98-1	820453	844863	854347	839888	2.08	cps
Neodymium	150-1	42788	44082	44828	43899	2.35	cps
Neodymium	150-2	10061	10314	10287	10221	1.36	cps
Nickel	60-2	30012	30586	31044	30547	1.69	cps
Phosphorus	31-2	1277	1217	1157	1217	4.93	cps
Potassium	39-2	630906	630914	630341	630720	0.05	cps
Rhodium	103-1	8550322	8688469	8793039	8677277	1.40	cps
Rhodium	103-2	3229670	3266146	3229110	3241642	0.65	cps
Scandium	45-1	7892785	8035798	8040991	7989858	1.05	cps
Scandium	45-2	134448	134805	135020	134758	0.21	cps
Selenium	82-1	263	227	187	226	17.00	cps
Selenium	77-2	53	43	40	46	15.23	cps
Selenium	78-2	23	67	57	49	46.42	cps
Silicon	28-1	553001978	576530871	582477991	570670280	2.73	cps
Silver	107-1	4637	3851	3951	4146	10.33	cps
Silver	109-1	3337	2987	2937	3087	7.06	cps
Sodium	23-2	535899	537115	536689	536567	0.12	cps
Strontium	86-1	2445933	2557737	2555611	2519760	2.54	cps
Strontium	88-1	20581030	21391800	21652944	21208591	2.64	cps
Sulfur	34-1	1002781	1020049	1033788	1018873	1.52	cps
Terbium	159-1	12978839	13187126	13538751	13234905	2.14	cps
Terbium	159-2	4125964	4074375	4118828	4106389	0.68	cps
Thallium	203-1	1563	1530	1433	1509	4.48	cps
Thallium	205-1	3387	3300	3377	3355	1.41	cps
Tin	118-1	36629	37872	38073	37525	2.08	cps
Titanium	47-1	2499282	2595704	2610390	2568458	2.35	cps
Uranium	238-1	88996	91033	91911	90647	1.65	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-01	Instrumnet Name :	P8
Client Sample ID :	YE8G3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:36:20	DataFile Name :	093AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	224150	225433	223765	224450	0.39	cps
Ytterbium	172-1	12242	12079	12459	12260	1.56	cps
Ytterbium	172-2	4704	4731	4558	4664	2.00	cps
Ytterbium	176-1	13073	13243	13390	13236	1.20	cps
Ytterbium	176-2	4568	4524	4404	4499	1.88	cps
Yttrium	89-1	19016764	19541703	19620369	19392945	1.69	cps
Yttrium	89-2	1267116	1290646	1288980	1282247	1.02	cps
Zinc	66-2	159371	160193	158629	159398	0.49	cps
Zirconium	90-1	1302688	1419118	1420131	1380646	4.89	cps
Zirconium	91-1	287082	297937	304643	296554	2.99	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	913401	922614	915954	917323	0.52	cps
Antimony	121-1	7225	7409	7709	7448	3.28	cps
Arsenic	75-2	3831	3801	3927	3853	1.72	cps
Barium	135-1	276275	282341	282788	280468	1.30	cps
Barium	137-1	482577	488642	495184	488801	1.29	cps
Beryllium	9-1	3251	3184	3231	3222	1.08	cps
Bismuth	209-1	7961145	8025154	8220014	8068771	1.67	cps
Bismuth	209-2	3039181	3081935	3006992	3042702	1.24	cps
Bromine	81-1	7362	7425	7662	7483	2.11	cps
Cadmium	108-1	127	207	203	179	25.30	cps
Cadmium	106-1	5971	6201	6208	6127	2.20	cps
Cadmium	111-1	1666	1692	1753	1704	2.62	cps
Calcium	43-1	333024	334597	341857	336493	1.40	cps
Calcium	44-1	5540694	5631862	5732227	5634928	1.70	cps
Carbon	12-1	2242135	2236156	2233760	2237351	0.19	cps
Carbon	12-2	15238	15295	15438	15324	0.67	cps
Chlorine	35-1	120088775	126107638	129834978	125343797	3.92	cps
Chlorine	35-2	497260	496916	502452	498876	0.62	cps
Chromium	52-2	410334	408362	403728	407475	0.83	cps
Cobalt	59-2	126096	126835	126186	126373	0.32	cps
Copper	63-2	472244	477464	474791	474833	0.55	cps
Dysprosium	156-1	33552	33151	34494	33732	2.04	cps
Dysprosium	156-2	11435	11248	11208	11297	1.07	cps
Erbium	164-1	34147	34655	35226	34676	1.56	cps
Erbium	164-2	11008	10901	11198	11036	1.36	cps
Gadolinium	160-1	34267	35019	34919	34735	1.18	cps
Gadolinium	160-2	13557	13507	13343	13469	0.83	cps
Holmium	165-1	13292895	13486400	13610959	13463418	1.19	cps
Holmium	165-2	4425095	4481268	4461909	4456091	0.64	cps
Indium	115-1	10368781	10393813	10684519	10482371	1.67	cps
Indium	115-2	969517	976014	971863	972464	0.34	cps
Iron	54-2	7121600	7180204	7037972	7113259	1.00	cps
Iron	56-2	130765181	132072825	130475465	131104490	0.65	cps
Iron	57-2	3322311	3329730	3374306	3342116	0.84	cps
Krypton	83-1	163	163	173	167	3.46	cps
Lead	206-1	132650	133526	135145	133774	0.95	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	109323	111941	112210	111158	1.43	cps
Lead	208-1	509273	518801	524570	517548	1.49	cps
Lithium	6-1	6029139	6206288	6155770	6130399	1.49	cps
Magnesium	24-2	2012765	2059053	2017188	2029669	1.26	cps
Manganese	55-2	1790843	1795425	1788811	1791693	0.19	cps
Molybdenum	94-1	97483	96820	98405	97569	0.82	cps
Molybdenum	95-1	154282	157021	157760	156354	1.17	cps
Molybdenum	96-1	164616	169072	170492	168060	1.82	cps
Molybdenum	97-1	94609	97395	98765	96923	2.18	cps
Molybdenum	98-1	244671	250897	254947	250172	2.07	cps
Neodymium	150-1	36961	37699	38331	37664	1.82	cps
Neodymium	150-2	8603	8730	8569	8634	0.98	cps
Nickel	60-2	29791	30389	29922	30034	1.05	cps
Phosphorus	31-2	5521	5381	5311	5404	1.98	cps
Potassium	39-2	104727	103457	104005	104063	0.61	cps
Rhodium	103-1	9456623	9625252	9849338	9643738	2.04	cps
Rhodium	103-2	3663845	3628874	3579884	3624201	1.16	cps
Scandium	45-1	8176482	8236130	8388196	8266936	1.32	cps
Scandium	45-2	140700	140418	138879	139999	0.70	cps
Selenium	82-1	97	67	93	86	19.22	cps
Selenium	77-2	53	30	60	48	32.97	cps
Selenium	78-2	47	47	33	42	18.24	cps
Silicon	28-1	33844083	33302885	32633368	33260112	1.82	cps
Silver	107-1	1613	1670	1970	1751	10.95	cps
Silver	109-1	1583	1603	1790	1659	6.87	cps
Sodium	23-2	140457	140456	147502	142805	2.85	cps
Strontium	86-1	194301	197755	199194	197083	1.28	cps
Strontium	88-1	1783208	1807743	1817159	1802703	0.97	cps
Sulfur	34-1	343290	350642	351464	348465	1.29	cps
Terbium	159-1	13469322	13718825	13888399	13692182	1.54	cps
Terbium	159-2	4351169	4317464	4313577	4327403	0.48	cps
Thallium	203-1	1387	1623	1820	1610	13.48	cps
Thallium	205-1	3237	3831	4164	3744	12.54	cps
Tin	118-1	24058	24535	25023	24539	1.97	cps
Titanium	47-1	545264	547938	563493	552232	1.78	cps
Uranium	238-1	11672	11816	12109	11866	1.88	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-02	Instrumnet Name :	P8
Client Sample ID :	YE8G5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:39:37	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	148861	149346	148073	148760	0.43	cps
Ytterbium	172-1	9644	9707	9807	9719	0.85	cps
Ytterbium	172-2	3771	3794	3574	3713	3.26	cps
Ytterbium	176-1	7529	7446	7579	7518	0.90	cps
Ytterbium	176-2	2394	2510	2427	2444	2.46	cps
Yttrium	89-1	19858028	20064521	20295930	20072827	1.09	cps
Yttrium	89-2	1317393	1302704	1301416	1307171	0.68	cps
Zinc	66-2	32668	33349	32908	32975	1.05	cps
Zirconium	90-1	18840	33660	19520	24007	34.85	cps
Zirconium	91-1	4284	4447	4214	4315	2.78	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	197873	197583	196889	197448	0.26	cps
Antimony	121-1	3084	3087	3144	3105	1.09	cps
Arsenic	75-2	530	510	570	537	5.69	cps
Barium	135-1	92040	94624	94648	93770	1.60	cps
Barium	137-1	160722	163599	164064	162795	1.11	cps
Beryllium	9-1	597	584	555	579	3.75	cps
Bismuth	209-1	8197244	8531555	8611962	8446920	2.60	cps
Bismuth	209-2	3132435	3196931	3177239	3168868	1.04	cps
Bromine	81-1	7075	7309	7452	7279	2.61	cps
Cadmium	108-1	400	387	350	379	6.83	cps
Cadmium	106-1	6368	6582	7082	6677	5.49	cps
Cadmium	111-1	4894	4806	5185	4962	4.00	cps
Calcium	43-1	1170695	1230864	1268106	1223222	4.02	cps
Calcium	44-1	19661406	20044881	20309713	20005334	1.63	cps
Carbon	12-1	2166537	2150291	2199624	2172151	1.16	cps
Carbon	12-2	14457	14451	14487	14465	0.14	cps
Chlorine	35-1	132733468	139318921	144278361	138776917	4.17	cps
Chlorine	35-2	537756	539815	544305	540625	0.62	cps
Chromium	52-2	13360	13026	13313	13233	1.36	cps
Cobalt	59-2	10504	10517	10294	10438	1.20	cps
Copper	63-2	50754	52155	51761	51556	1.40	cps
Dysprosium	156-1	13070	12923	13340	13111	1.61	cps
Dysprosium	156-2	3941	4211	4227	4126	3.90	cps
Erbium	164-1	12289	11902	11825	12006	2.07	cps
Erbium	164-2	3791	3844	3757	3797	1.15	cps
Gadolinium	160-1	13147	13480	13544	13390	1.59	cps
Gadolinium	160-2	5028	5034	4944	5002	1.00	cps
Holmium	165-1	13372071	13920996	13751624	13681564	2.05	cps
Holmium	165-2	4537255	4533709	4538474	4536479	0.05	cps
Indium	115-1	10699431	11291351	11269825	11086869	3.03	cps
Indium	115-2	999455	1008944	1010406	1006268	0.59	cps
Iron	54-2	706447	698712	701369	702176	0.56	cps
Iron	56-2	13487511	13319506	13350462	13385826	0.67	cps
Iron	57-2	325141	325039	324170	324783	0.16	cps
Krypton	83-1	243	183	150	192	24.61	cps
Lead	206-1	22456	22229	22570	22418	0.77	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18363	19448	18777	18863	2.90	cps
Lead	208-1	86657	88401	87174	87411	1.02	cps
Lithium	6-1	6093545	6208563	6392745	6231617	2.42	cps
Magnesium	24-2	514796	510645	515668	513703	0.52	cps
Manganese	55-2	270257	273282	271112	271551	0.57	cps
Molybdenum	94-1	33778	34840	34710	34443	1.68	cps
Molybdenum	95-1	11105	11385	11188	11226	1.28	cps
Molybdenum	96-1	17040	17244	17458	17248	1.21	cps
Molybdenum	97-1	6588	6938	7122	6883	3.94	cps
Molybdenum	98-1	17791	17815	17972	17859	0.55	cps
Neodymium	150-1	17074	17181	17572	17276	1.52	cps
Neodymium	150-2	4077	3977	3937	3997	1.80	cps
Nickel	60-2	31692	31612	31198	31500	0.84	cps
Phosphorus	31-2	2287	2214	2360	2287	3.21	cps
Potassium	39-2	57441	57260	57179	57293	0.23	cps
Rhodium	103-1	9857106	10217165	10152967	10075746	1.91	cps
Rhodium	103-2	3715653	3801084	3707532	3741423	1.39	cps
Scandium	45-1	8008332	8463450	8354021	8275268	2.87	cps
Scandium	45-2	139072	141080	141347	140500	0.89	cps
Selenium	82-1	-20	3	113	32	220.99	cps
Selenium	77-2	13	3	17	11	62.48	cps
Selenium	78-2	27	17	20	21	24.12	cps
Silicon	28-1	46835376	47451214	47981816	47422802	1.21	cps
Silver	107-1	990	1203	1407	1200	17.36	cps
Silver	109-1	810	1007	1210	1009	19.83	cps
Sodium	23-2	111008	109772	112927	111236	1.43	cps
Strontium	86-1	179594	186159	185195	183649	1.93	cps
Strontium	88-1	1654047	1655704	1687052	1665601	1.12	cps
Sulfur	34-1	378157	378392	384750	380433	0.98	cps
Terbium	159-1	13729124	14336000	14568349	14211158	3.05	cps
Terbium	159-2	4426554	4344417	4410148	4393706	0.99	cps
Thallium	203-1	933	1120	1450	1168	22.40	cps
Thallium	205-1	2197	2837	3117	2717	17.36	cps
Tin	118-1	5688	5558	5831	5692	2.40	cps
Titanium	47-1	170827	175219	175199	173748	1.46	cps
Uranium	238-1	4704	4894	4914	4838	2.40	cps

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Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:42:52	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13677	13837	14067	13860	1.42	cps
Ytterbium	172-1	3524	3677	3747	3649	3.13	cps
Ytterbium	172-2	1367	1360	1470	1399	4.41	cps
Ytterbium	176-1	4054	4254	4281	4196	2.95	cps
Ytterbium	176-2	1017	1153	1120	1097	6.50	cps
Yttrium	89-1	20070178	20646383	21065010	20593857	2.43	cps
Yttrium	89-2	1326554	1347849	1334397	1336267	0.81	cps
Zinc	66-2	19020	19487	18859	19122	1.70	cps
Zirconium	90-1	75402	75425	78646	76491	2.44	cps
Zirconium	91-1	16323	17087	16877	16762	2.36	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	201235	198749	199902	199962	0.62	cps
Antimony	121-1	3100	3270	3244	3205	2.85	cps
Arsenic	75-2	563	527	527	539	3.93	cps
Barium	135-1	95185	96023	97296	96168	1.11	cps
Barium	137-1	165792	166851	170277	167640	1.40	cps
Beryllium	9-1	535	634	572	580	8.59	cps
Bismuth	209-1	8391322	8403909	8279801	8358344	0.82	cps
Bismuth	209-2	3295527	3608524	3236649	3380234	5.91	cps
Bromine	81-1	6982	7289	7515	7262	3.69	cps
Cadmium	108-1	373	417	363	384	7.38	cps
Cadmium	106-1	6852	6922	6682	6818	1.81	cps
Cadmium	111-1	5270	5077	5113	5153	1.99	cps
Calcium	43-1	1256657	1269837	1253500	1259998	0.69	cps
Calcium	44-1	20194653	20409359	20532092	20378701	0.84	cps
Carbon	12-1	2196172	2170254	2189655	2185360	0.62	cps
Carbon	12-2	14501	14724	15125	14783	2.14	cps
Chlorine	35-1	136500221	142093471	145638445	141410712	3.26	cps
Chlorine	35-2	548240	548272	549270	548594	0.11	cps
Chromium	52-2	13380	13210	13980	13523	2.99	cps
Cobalt	59-2	10597	10657	10741	10665	0.68	cps
Copper	63-2	53383	53651	54651	53895	1.24	cps
Dysprosium	156-1	13570	13343	13320	13411	1.03	cps
Dysprosium	156-2	4327	4444	4264	4345	2.10	cps
Erbium	164-1	12279	12202	12756	12413	2.42	cps
Erbium	164-2	3854	3847	3761	3821	1.36	cps
Gadolinium	160-1	13233	13280	13117	13210	0.64	cps
Gadolinium	160-2	5158	4921	4858	4979	3.18	cps
Holmium	165-1	13751845	13899416	13579644	13743635	1.16	cps
Holmium	165-2	4722193	5185331	4656452	4854659	5.94	cps
Indium	115-1	10882693	11000246	10863070	10915336	0.68	cps
Indium	115-2	1043294	1153234	1037986	1078172	6.03	cps
Iron	54-2	712744	714231	721766	716247	0.68	cps
Iron	56-2	13659468	13678554	13896762	13744928	0.96	cps
Iron	57-2	332014	329176	333238	331476	0.63	cps
Krypton	83-1	180	177	157	171	7.37	cps
Lead	206-1	21972	22433	22894	22433	2.05	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19088	18680	19114	18961	1.28	cps
Lead	208-1	87017	86997	89357	87791	1.55	cps
Lithium	6-1	6097760	6066084	6005664	6056502	0.77	cps
Magnesium	24-2	521819	521019	522681	521840	0.16	cps
Manganese	55-2	279719	272610	279043	277124	1.42	cps
Molybdenum	94-1	34874	34262	34763	34633	0.94	cps
Molybdenum	95-1	11441	11538	11598	11526	0.69	cps
Molybdenum	96-1	16707	16930	17167	16935	1.36	cps
Molybdenum	97-1	6912	7492	7119	7174	4.10	cps
Molybdenum	98-1	18416	18352	18676	18481	0.93	cps
Neodymium	150-1	17582	18022	18019	17874	1.42	cps
Neodymium	150-2	3774	3954	3904	3877	2.40	cps
Nickel	60-2	31505	32090	32414	32003	1.44	cps
Phosphorus	31-2	2357	2287	2174	2272	4.07	cps
Potassium	39-2	58013	57701	58541	58085	0.73	cps
Rhodium	103-1	9963449	10049075	9928899	9980474	0.62	cps
Rhodium	103-2	3880302	4335270	3859369	4024980	6.68	cps
Scandium	45-1	8318401	8278627	8216172	8271067	0.62	cps
Scandium	45-2	145873	162334	147387	151865	5.99	cps
Selenium	82-1	60	47	50	52	13.28	cps
Selenium	77-2	27	40	10	26	58.81	cps
Selenium	78-2	27	13	27	22	34.66	cps
Silicon	28-1	47355451	49778391	48084634	48406159	2.57	cps
Silver	107-1	1043	1223	1207	1158	8.59	cps
Silver	109-1	943	1010	1000	984	3.65	cps
Sodium	23-2	110515	111579	112751	111615	1.00	cps
Strontium	86-1	183048	187691	188500	186413	1.58	cps
Strontium	88-1	1689174	1722487	1733166	1714942	1.34	cps
Sulfur	34-1	382965	388740	387707	386471	0.80	cps
Terbium	159-1	14145065	14016506	13905879	14022483	0.85	cps
Terbium	159-2	4619405	5021238	4539731	4726791	5.46	cps
Thallium	203-1	913	1047	1223	1061	14.66	cps
Thallium	205-1	2357	2737	2830	2641	9.49	cps
Tin	118-1	5311	5658	5818	5596	4.63	cps
Titanium	47-1	172986	177827	179366	176726	1.88	cps
Uranium	238-1	4714	4811	4941	4822	2.36	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:46:13	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14294	13843	14441	14193	2.19	cps
Ytterbium	172-1	3687	3707	3767	3721	1.12	cps
Ytterbium	172-2	1413	1370	1423	1402	2.02	cps
Ytterbium	176-1	4097	4124	4304	4175	2.69	cps
Ytterbium	176-2	1200	1167	1153	1173	2.05	cps
Yttrium	89-1	20592421	20861494	20346193	20600036	1.25	cps
Yttrium	89-2	1443927	1611624	1463906	1506486	6.08	cps
Zinc	66-2	19747	19377	19263	19462	1.30	cps
Zirconium	90-1	75959	77373	79183	77505	2.09	cps
Zirconium	91-1	16857	17274	17872	17334	2.94	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	38193	38417	38808	38473	0.81	cps
Antimony	121-1	590	667	570	609	8.38	cps
Arsenic	75-2	117	107	77	100	20.82	cps
Barium	135-1	19751	19791	19434	19659	1.00	cps
Barium	137-1	33615	33177	33755	33516	0.90	cps
Beryllium	9-1	297	266	264	276	6.82	cps
Bismuth	209-1	8440594	9053533	8435082	8643070	4.11	cps
Bismuth	209-2	3145563	3146115	3171897	3154525	0.48	cps
Bromine	81-1	6275	6365	6562	6400	2.29	cps
Cadmium	108-1	123	67	67	86	38.24	cps
Cadmium	106-1	6141	6458	6415	6338	2.71	cps
Cadmium	111-1	1909	1945	1976	1943	1.74	cps
Calcium	43-1	230047	230598	233841	231495	0.89	cps
Calcium	44-1	3902705	3894962	3903453	3900373	0.12	cps
Carbon	12-1	2229672	2215920	2189135	2211576	0.93	cps
Carbon	12-2	14541	14400	14314	14418	0.79	cps
Chlorine	35-1	31250670	31686745	31675650	31537689	0.79	cps
Chlorine	35-2	115691	115389	114697	115259	0.44	cps
Chromium	52-2	3087	3044	3084	3071	0.79	cps
Cobalt	59-2	1970	2050	2070	2030	2.61	cps
Copper	63-2	13580	13820	13760	13720	0.91	cps
Dysprosium	156-1	2604	2670	2627	2634	1.28	cps
Dysprosium	156-2	887	880	767	844	7.99	cps
Erbium	164-1	2424	2517	2390	2444	2.69	cps
Erbium	164-2	683	647	787	706	10.29	cps
Gadolinium	160-1	2570	2410	2610	2530	4.18	cps
Gadolinium	160-2	970	1023	920	971	5.32	cps
Holmium	165-1	13745472	14623261	13715554	14028095	3.68	cps
Holmium	165-2	4508864	4453727	4423507	4462033	0.97	cps
Indium	115-1	10860047	11590503	10958366	11136305	3.56	cps
Indium	115-2	982763	976288	975902	978318	0.39	cps
Iron	54-2	135421	135822	136784	136009	0.51	cps
Iron	56-2	2697486	2642106	2653561	2664384	1.10	cps
Iron	57-2	62369	62938	62848	62718	0.49	cps
Krypton	83-1	150	137	133	140	6.30	cps
Lead	206-1	5358	5334	5041	5244	3.37	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4447	4437	4521	4469	1.02	cps
Lead	208-1	20944	20777	20223	20648	1.83	cps
Lithium	6-1	6032165	6424880	6151617	6202887	3.25	cps
Magnesium	24-2	101130	100144	99443	100239	0.85	cps
Manganese	55-2	52784	52627	52787	52732	0.17	cps
Molybdenum	94-1	6892	6745	7372	7003	4.69	cps
Molybdenum	95-1	2297	2270	2274	2280	0.64	cps
Molybdenum	96-1	3440	3307	3514	3420	3.06	cps
Molybdenum	97-1	1310	1387	1410	1369	3.82	cps
Molybdenum	98-1	3727	3647	3497	3624	3.22	cps
Neodymium	150-1	3264	3427	3501	3397	3.57	cps
Neodymium	150-2	773	783	777	778	0.66	cps
Nickel	60-2	6682	6662	6762	6702	0.79	cps
Phosphorus	31-2	503	440	450	464	7.33	cps
Potassium	39-2	15689	15872	15692	15751	0.67	cps
Rhodium	103-1	9903890	10750059	10177263	10277071	4.20	cps
Rhodium	103-2	3694370	3686371	3689766	3690169	0.11	cps
Scandium	45-1	8191471	8708987	8195527	8365329	3.56	cps
Scandium	45-2	134172	134138	134102	134138	0.03	cps
Selenium	82-1	30	10	17	19	53.92	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	3	13	0	6	124.93	cps
Silicon	28-1	9693970	9571564	9582525	9616020	0.70	cps
Silver	107-1	367	347	343	352	3.58	cps
Silver	109-1	253	303	260	272	9.97	cps
Sodium	23-2	38755	38581	38487	38608	0.35	cps
Strontium	86-1	35639	35061	35655	35452	0.96	cps
Strontium	88-1	305147	306699	302712	304853	0.66	cps
Sulfur	34-1	343305	342045	339607	341652	0.55	cps
Terbium	159-1	13849904	15019521	14204612	14358012	4.18	cps
Terbium	159-2	4345147	4286295	4322993	4318145	0.69	cps
Thallium	203-1	430	360	380	390	9.24	cps
Thallium	205-1	947	1060	867	958	10.14	cps
Tin	118-1	1964	1990	1984	1979	0.70	cps
Titanium	47-1	34107	33586	33659	33784	0.83	cps
Uranium	238-1	850	970	870	897	7.17	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 15:49:32	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2630	2524	2610	2588	2.19	cps
Ytterbium	172-1	803	793	833	810	2.57	cps
Ytterbium	172-2	353	333	267	318	14.28	cps
Ytterbium	176-1	2260	2404	2184	2282	4.89	cps
Ytterbium	176-2	367	450	473	430	13.04	cps
Yttrium	89-1	19960658	21592071	20294483	20615737	4.18	cps
Yttrium	89-2	1268584	1272575	1271260	1270806	0.16	cps
Zinc	66-2	3784	3901	3857	3847	1.53	cps
Zirconium	90-1	15772	15142	14745	15220	3.41	cps
Zirconium	91-1	3487	3534	3294	3438	3.70	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	233974	231523	227332	230943	1.45	cps
Antimony	121-1	232204	233963	237058	234408	1.05	cps
Arsenic	75-2	2500	2397	2634	2510	4.73	cps
Barium	135-1	1270167	1304124	1313289	1295860	1.75	cps
Barium	137-1	2325926	2405704	2359521	2363717	1.69	cps
Beryllium	9-1	42722	43215	43090	43009	0.60	cps
Bismuth	209-1	8801016	8632229	8712088	8715111	0.97	cps
Bismuth	209-2	3230184	3255651	3230302	3238712	0.45	cps
Bromine	81-1	7112	7049	7269	7143	1.59	cps
Cadmium	108-1	2430	2654	2420	2501	5.28	cps
Cadmium	106-1	9457	9370	9427	9418	0.47	cps
Cadmium	111-1	31332	31887	31861	31693	0.99	cps
Calcium	43-1	1176826	1187506	1221667	1195333	1.96	cps
Calcium	44-1	19327295	19824055	19767666	19639672	1.38	cps
Carbon	12-1	2659137	2682107	2628809	2656684	1.01	cps
Carbon	12-2	18151	17831	17788	17923	1.11	cps
Chlorine	35-1	128788078	136842791	142592111	136074327	5.10	cps
Chlorine	35-2	536967	545348	537281	539865	0.88	cps
Chromium	52-2	112511	113327	112703	112847	0.38	cps
Cobalt	59-2	482880	486053	483706	484213	0.34	cps
Copper	63-2	231299	230943	231378	231207	0.10	cps
Dysprosium	156-1	15182	15406	15536	15374	1.16	cps
Dysprosium	156-2	4974	5314	4998	5095	3.73	cps
Erbium	164-1	14068	14385	14318	14257	1.17	cps
Erbium	164-2	4441	4444	4447	4444	0.08	cps
Gadolinium	160-1	15696	15656	15439	15597	0.89	cps
Gadolinium	160-2	5705	5925	5935	5855	2.22	cps
Holmium	165-1	14478775	14171088	14256013	14301958	1.11	cps
Holmium	165-2	4644945	4615852	4545881	4602226	1.11	cps
Indium	115-1	11431397	11307127	11306466	11348330	0.63	cps
Indium	115-2	1016001	1028908	1017292	1020734	0.70	cps
Iron	54-2	790396	789749	786152	788765	0.29	cps
Iron	56-2	15012592	15141038	14893196	15015609	0.83	cps
Iron	57-2	364033	364208	359575	362606	0.72	cps
Krypton	83-1	173	157	133	154	13.01	cps
Lead	206-1	69957	71566	71891	71138	1.46	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	59784	60152	61358	60431	1.36	cps
Lead	208-1	277146	277704	285644	280165	1.70	cps
Lithium	6-1	6321943	6132169	6237370	6230494	1.53	cps
Magnesium	24-2	517277	515919	511750	514982	0.56	cps
Manganese	55-2	382693	382165	376374	380410	0.92	cps
Molybdenum	94-1	346393	352289	352675	350452	1.00	cps
Molybdenum	95-1	563118	578465	583036	574873	1.81	cps
Molybdenum	96-1	603749	616830	618081	612887	1.30	cps
Molybdenum	97-1	349284	354605	358393	354094	1.29	cps
Molybdenum	98-1	897576	925369	931610	918185	1.97	cps
Neodymium	150-1	20195	20112	20379	20229	0.68	cps
Neodymium	150-2	4588	4461	4618	4555	1.83	cps
Nickel	60-2	151580	153386	153784	152917	0.77	cps
Phosphorus	31-2	2234	2177	2387	2266	4.80	cps
Potassium	39-2	78013	80259	77322	78531	1.95	cps
Rhodium	103-1	10448811	10161709	10345353	10318624	1.41	cps
Rhodium	103-2	3818307	3804200	3790495	3804334	0.37	cps
Scandium	45-1	8584724	8361670	8684777	8543724	1.94	cps
Scandium	45-2	143219	146003	144053	144425	0.99	cps
Selenium	82-1	4044	4104	4114	4087	0.93	cps
Selenium	77-2	113	93	93	100	11.55	cps
Selenium	78-2	227	250	210	229	8.78	cps
Silicon	28-1	43642624	45123038	45837199	44867620	2.49	cps
Silver	107-1	150939	156362	157787	155029	2.33	cps
Silver	109-1	144906	148015	150121	147681	1.78	cps
Sodium	23-2	146644	134302	129030	136659	6.62	cps
Strontium	86-1	8363376	8373192	8443674	8393414	0.52	cps
Strontium	88-1	70688932	72384784	72590207	71887974	1.45	cps
Sulfur	34-1	385171	383658	390261	386364	0.90	cps
Terbium	159-1	14704379	14412519	14582347	14566415	1.01	cps
Terbium	159-2	4408634	4525771	4444894	4459766	1.34	cps
Thallium	203-1	117428	119918	120041	119129	1.24	cps
Thallium	205-1	280923	281803	287135	283287	1.19	cps
Tin	118-1	7916	7986	7806	7902	1.15	cps
Titanium	47-1	201709	203135	204357	203067	0.65	cps
Uranium	238-1	5438	5521	5545	5501	1.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:52:54	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	211782	210302	211286	211123	0.36	cps
Ytterbium	172-1	4067	4244	4114	4142	2.21	cps
Ytterbium	172-2	1630	1597	1683	1637	2.67	cps
Ytterbium	176-1	4551	4521	4681	4584	1.86	cps
Ytterbium	176-2	1133	1293	1370	1266	9.54	cps
Yttrium	89-1	21448784	20917414	21167408	21177869	1.26	cps
Yttrium	89-2	1343440	1359203	1349206	1350616	0.59	cps
Zinc	66-2	59953	60883	61586	60807	1.35	cps
Zirconium	90-1	62148	72507	64578	66411	8.16	cps
Zirconium	91-1	13787	15302	14297	14462	5.33	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1445252	1437496	1439712	1440820	0.28	cps
Antimony	121-1	7859	8039	7762	7887	1.78	cps
Arsenic	75-2	4764	4691	4758	4738	0.86	cps
Barium	135-1	730886	739280	743515	737894	0.87	cps
Barium	137-1	1272084	1288284	1285933	1282100	0.68	cps
Beryllium	9-1	5683	5512	5579	5591	1.54	cps
Bismuth	209-1	8514844	8531496	8506635	8517658	0.15	cps
Bismuth	209-2	3011190	3032144	3052131	3031822	0.68	cps
Bromine	81-1	9283	9737	9537	9519	2.39	cps
Cadmium	108-1	210	213	167	197	13.24	cps
Cadmium	106-1	6718	6958	6878	6852	1.78	cps
Cadmium	111-1	1693	1786	1749	1743	2.67	cps
Calcium	43-1	375050	380027	382347	379141	0.98	cps
Calcium	44-1	6297616	6410533	6288124	6332091	1.08	cps
Carbon	12-1	2995304	3014375	2969336	2993005	0.76	cps
Carbon	12-2	19727	20167	20855	20250	2.81	cps
Chlorine	35-1	119339422	123249548	126043215	122877395	2.74	cps
Chlorine	35-2	477264	478185	476942	477464	0.14	cps
Chromium	52-2	281041	281572	279552	280722	0.37	cps
Cobalt	59-2	222180	222126	220366	221557	0.47	cps
Copper	63-2	434409	441596	437203	437736	0.83	cps
Dysprosium	156-1	76745	76473	76406	76541	0.23	cps
Dysprosium	156-2	24145	24806	24192	24381	1.51	cps
Erbium	164-1	77403	77323	78513	77746	0.86	cps
Erbium	164-2	24132	24386	23855	24124	1.10	cps
Gadolinium	160-1	76484	78171	78412	77689	1.35	cps
Gadolinium	160-2	29549	28885	28257	28897	2.24	cps
Holmium	165-1	14016243	14271220	14155789	14147750	0.90	cps
Holmium	165-2	4431468	4502011	4496655	4476711	0.88	cps
Indium	115-1	11148148	11082855	11174926	11135310	0.43	cps
Indium	115-2	948681	958914	960592	956062	0.67	cps
Iron	54-2	8352541	8502855	8315141	8390179	1.18	cps
Iron	56-2	155878731	155572661	154993594	155481662	0.29	cps
Iron	57-2	3986126	3960378	3892935	3946480	1.22	cps
Krypton	83-1	223	253	197	224	12.63	cps
Lead	206-1	140926	143794	145024	143248	1.47	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	118835	117558	120111	118835	1.07	cps
Lead	208-1	553589	551738	559149	554825	0.70	cps
Lithium	6-1	6152713	6154549	5935905	6081056	2.07	cps
Magnesium	24-2	3116025	3100081	3100668	3105591	0.29	cps
Manganese	55-2	2267817	2286491	2226535	2260281	1.36	cps
Molybdenum	94-1	14141	14051	13970	14054	0.61	cps
Molybdenum	95-1	5351	5568	5388	5436	2.13	cps
Molybdenum	96-1	9066	9297	9373	9245	1.73	cps
Molybdenum	97-1	3330	3450	3244	3342	3.11	cps
Molybdenum	98-1	8489	8719	8649	8619	1.37	cps
Neodymium	150-1	96758	98666	97894	97773	0.98	cps
Neodymium	150-2	22469	21875	21808	22050	1.65	cps
Nickel	60-2	52429	52553	52235	52406	0.31	cps
Phosphorus	31-2	3594	3357	3480	3477	3.41	cps
Potassium	39-2	200722	201266	198117	200035	0.84	cps
Rhodium	103-1	9983487	10141340	10033729	10052852	0.80	cps
Rhodium	103-2	3557865	3629854	3628822	3605514	1.14	cps
Scandium	45-1	8996502	9024375	8925838	8982238	0.57	cps
Scandium	45-2	144262	145521	145203	144995	0.45	cps
Selenium	82-1	183	83	143	137	36.83	cps
Selenium	77-2	153	117	100	123	22.12	cps
Selenium	78-2	50	67	73	63	18.98	cps
Silicon	28-1	31295404	31307389	31437274	31346689	0.25	cps
Silver	107-1	2504	2180	2037	2240	10.67	cps
Silver	109-1	2444	1997	1907	2116	13.59	cps
Sodium	23-2	208782	211098	208399	209426	0.70	cps
Strontium	86-1	333514	335921	335057	334831	0.36	cps
Strontium	88-1	3057175	3055406	3035698	3049427	0.39	cps
Sulfur	34-1	354230	351655	352300	352729	0.38	cps
Terbium	159-1	14655076	14441640	14660643	14585786	0.86	cps
Terbium	159-2	4232590	4316679	4291496	4280255	1.01	cps
Thallium	203-1	1697	1603	1590	1630	3.57	cps
Thallium	205-1	3724	3894	3964	3861	3.20	cps
Tin	118-1	10704	10858	11228	10930	2.46	cps
Titanium	47-1	1891102	1900413	1869157	1886891	0.85	cps
Uranium	238-1	28038	27420	27092	27517	1.74	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-06	Instrumnet Name :	P8
Client Sample ID :	YE8H0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:56:10	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	386013	385539	384947	385499	0.14	cps
Ytterbium	172-1	25505	25802	25795	25701	0.66	cps
Ytterbium	172-2	9567	9604	9560	9577	0.24	cps
Ytterbium	176-1	17645	17615	17432	17564	0.66	cps
Ytterbium	176-2	6095	6388	6172	6218	2.45	cps
Yttrium	89-1	21763662	21983575	21944152	21897130	0.54	cps
Yttrium	89-2	1326779	1397409	1408868	1377686	3.23	cps
Zinc	66-2	46780	47128	47559	47156	0.83	cps
Zirconium	90-1	29895	29608	29889	29797	0.55	cps
Zirconium	91-1	6508	6982	6835	6775	3.58	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1749867	1775769	1767287	1764308	0.75	cps
Antimony	121-1	8800	9116	9290	9069	2.74	cps
Arsenic	75-2	5591	5815	5805	5737	2.20	cps
Barium	135-1	983432	1012921	1011491	1002615	1.66	cps
Barium	137-1	1781840	1833197	1882810	1832616	2.75	cps
Beryllium	9-1	7416	7565	7372	7451	1.35	cps
Bismuth	209-1	8252751	8272198	8454002	8326317	1.33	cps
Bismuth	209-2	3100089	3067742	3047952	3071928	0.86	cps
Bromine	81-1	8773	8753	9250	8925	3.15	cps
Cadmium	108-1	250	250	233	244	3.94	cps
Cadmium	106-1	6868	6999	7145	7004	1.98	cps
Cadmium	111-1	1879	1931	2056	1955	4.65	cps
Calcium	43-1	380602	388414	387912	385642	1.13	cps
Calcium	44-1	6361916	6519007	6539247	6473390	1.50	cps
Carbon	12-1	4335337	4438894	4379517	4384582	1.19	cps
Carbon	12-2	29917	30385	30632	30311	1.20	cps
Chlorine	35-1	128174345	133199375	137299351	132891024	3.44	cps
Chlorine	35-2	514000	518766	517255	516674	0.47	cps
Chromium	52-2	464401	466177	467710	466096	0.36	cps
Cobalt	59-2	295686	296676	289935	294099	1.24	cps
Copper	63-2	656993	666660	659541	661064	0.76	cps
Dysprosium	156-1	87577	90594	91232	89801	2.17	cps
Dysprosium	156-2	28687	28758	28724	28723	0.12	cps
Erbium	164-1	90596	94579	95063	93413	2.62	cps
Erbium	164-2	29182	29112	29028	29107	0.26	cps
Gadolinium	160-1	88092	91491	91226	90269	2.09	cps
Gadolinium	160-2	34635	34361	34150	34382	0.71	cps
Holmium	165-1	13732928	14021091	14340698	14031572	2.17	cps
Holmium	165-2	4500718	4615815	4478848	4531794	1.62	cps
Indium	115-1	10640497	10890795	11132004	10887765	2.26	cps
Indium	115-2	969819	985316	974653	976596	0.81	cps
Iron	54-2	10765029	10860177	10739974	10788393	0.59	cps
Iron	56-2	196954630	199413064	197304084	197890593	0.67	cps
Iron	57-2	5074703	5052045	4958644	5028464	1.22	cps
Krypton	83-1	287	220	247	251	13.36	cps
Lead	206-1	204294	210908	210796	208666	1.81	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	169872	173729	176033	173211	1.80	cps
Lead	208-1	796260	813013	819566	809613	1.48	cps
Lithium	6-1	6072156	6114443	6046594	6077731	0.56	cps
Magnesium	24-2	2925113	2982552	2938164	2948610	1.02	cps
Manganese	55-2	3034325	3070805	3018685	3041272	0.88	cps
Molybdenum	94-1	26652	27574	27404	27210	1.80	cps
Molybdenum	95-1	5078	4978	4944	5000	1.39	cps
Molybdenum	96-1	11458	11435	11815	11569	1.84	cps
Molybdenum	97-1	3010	2790	3027	2943	4.49	cps
Molybdenum	98-1	7369	7399	7586	7451	1.58	cps
Neodymium	150-1	112063	116356	116473	114964	2.19	cps
Neodymium	150-2	26072	25972	26740	26261	1.59	cps
Nickel	60-2	68400	67613	67814	67942	0.60	cps
Phosphorus	31-2	4804	5048	5031	4961	2.74	cps
Potassium	39-2	450006	451846	453441	451764	0.38	cps
Rhodium	103-1	9830950	9978690	10066367	9958669	1.19	cps
Rhodium	103-2	3692024	3605473	3634352	3643950	1.21	cps
Scandium	45-1	9063308	9171038	9299217	9177854	1.29	cps
Scandium	45-2	153432	155405	154423	154420	0.64	cps
Selenium	82-1	93	257	103	151	60.58	cps
Selenium	77-2	150	130	123	134	10.32	cps
Selenium	78-2	80	43	77	67	30.42	cps
Silicon	28-1	21806648	22150816	22477741	22145069	1.52	cps
Silver	107-1	2520	2557	2534	2537	0.73	cps
Silver	109-1	2177	2340	2224	2247	3.74	cps
Sodium	23-2	104658	106750	107052	106154	1.23	cps
Strontium	86-1	391023	400293	403254	398190	1.60	cps
Strontium	88-1	3588777	3616345	3613057	3606059	0.42	cps
Sulfur	34-1	361272	367181	365700	364718	0.84	cps
Terbium	159-1	14067277	14297523	14569818	14311539	1.76	cps
Terbium	159-2	4413068	4371443	4353724	4379412	0.70	cps
Thallium	203-1	2057	2064	2040	2054	0.59	cps
Thallium	205-1	4751	5001	4914	4889	2.60	cps
Tin	118-1	12259	12930	12779	12656	2.78	cps
Titanium	47-1	2290148	2349841	2358356	2332782	1.59	cps
Uranium	238-1	43705	44260	44588	44184	1.01	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-07	Instrumnet Name :	P8
Client Sample ID :	YE8H1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 15:59:27	DataFile Name :	100AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	576084	584154	578868	579702	0.71	cps
Ytterbium	172-1	30572	32276	32490	31779	3.31	cps
Ytterbium	172-2	11692	11789	12046	11842	1.54	cps
Ytterbium	176-1	20433	21237	21885	21185	3.43	cps
Ytterbium	176-2	7929	7702	7706	7779	1.67	cps
Yttrium	89-1	21362651	21838546	22089823	21763673	1.70	cps
Yttrium	89-2	1370463	1386754	1375711	1377642	0.60	cps
Zinc	66-2	49931	50827	50944	50568	1.10	cps
Zirconium	90-1	66307	68162	68262	67577	1.63	cps
Zirconium	91-1	14598	14958	15979	15178	4.72	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	863623	849076	863922	858874	0.99	cps
Antimony	121-1	21874	22141	22315	22110	1.00	cps
Arsenic	75-2	234513	234497	235543	234851	0.26	cps
Barium	135-1	517516	527286	534149	526317	1.59	cps
Barium	137-1	898040	915563	927774	913793	1.64	cps
Beryllium	9-1	3424	3510	3526	3487	1.58	cps
Bismuth	209-1	8698563	8736460	8720825	8718616	0.22	cps
Bismuth	209-2	3204697	3164919	3201819	3190479	0.70	cps
Bromine	81-1	8900	8850	9066	8938	1.27	cps
Cadmium	108-1	327	250	253	277	15.66	cps
Cadmium	106-1	6638	6592	6598	6609	0.38	cps
Cadmium	111-1	2852	2860	3189	2967	6.48	cps
Calcium	43-1	388962	397574	399233	395256	1.40	cps
Calcium	44-1	6430434	6518556	6680217	6543069	1.94	cps
Carbon	12-1	7387301	7735402	7665734	7596146	2.42	cps
Carbon	12-2	51811	52480	51570	51954	0.91	cps
Chlorine	35-1	130417915	137017065	140043975	135826318	3.62	cps
Chlorine	35-2	528403	519688	530097	526063	1.06	cps
Chromium	52-2	172351	171467	171635	171818	0.27	cps
Cobalt	59-2	180779	180856	181430	181022	0.20	cps
Copper	63-2	680757	682502	687316	683525	0.50	cps
Dysprosium	156-1	44510	45477	45363	45117	1.17	cps
Dysprosium	156-2	14328	14478	14194	14333	0.99	cps
Erbium	164-1	45842	47009	46805	46552	1.34	cps
Erbium	164-2	14485	14281	14304	14357	0.78	cps
Gadolinium	160-1	44139	45812	46156	45369	2.38	cps
Gadolinium	160-2	17422	16714	17375	17170	2.30	cps
Holmium	165-1	14399286	14439233	14218325	14352281	0.82	cps
Holmium	165-2	4580054	4565350	4656342	4600582	1.06	cps
Indium	115-1	10954823	11153337	11466706	11191622	2.31	cps
Indium	115-2	999041	996592	1005509	1000381	0.46	cps
Iron	54-2	8501271	8446565	8377058	8441631	0.74	cps
Iron	56-2	155672201	155668268	155402541	155581003	0.10	cps
Iron	57-2	3949757	3895268	3947231	3930752	0.78	cps
Krypton	83-1	273	247	250	257	5.66	cps
Lead	206-1	2008728	2069697	2101395	2059940	2.29	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1550337	1584520	1702974	1612611	4.97	cps
Lead	208-1	7654105	7888854	8063882	7868947	2.61	cps
Lithium	6-1	6277549	6142227	6111125	6176967	1.43	cps
Magnesium	24-2	1759674	1764466	1763433	1762524	0.14	cps
Manganese	55-2	1923978	1887640	1881467	1897695	1.21	cps
Molybdenum	94-1	40729	42324	41515	41523	1.92	cps
Molybdenum	95-1	36628	37063	37571	37087	1.27	cps
Molybdenum	96-1	43207	44922	45314	44481	2.52	cps
Molybdenum	97-1	22442	23523	23280	23082	2.46	cps
Molybdenum	98-1	58687	60776	60170	59877	1.79	cps
Neodymium	150-1	55521	56669	56548	56246	1.12	cps
Neodymium	150-2	12619	13116	12529	12755	2.48	cps
Nickel	60-2	54691	55267	55732	55230	0.94	cps
Phosphorus	31-2	3904	3694	3674	3757	3.39	cps
Potassium	39-2	228036	226172	228703	227637	0.58	cps
Rhodium	103-1	10128967	10172501	10316261	10205910	0.96	cps
Rhodium	103-2	3741015	3749066	3769387	3753156	0.39	cps
Scandium	45-1	8725365	8710742	8915452	8783853	1.30	cps
Scandium	45-2	148504	146595	148515	147871	0.75	cps
Selenium	82-1	533	533	460	509	8.32	cps
Selenium	77-2	57	90	73	73	22.73	cps
Selenium	78-2	60	63	53	59	8.65	cps
Silicon	28-1	20369346	20630644	20518823	20506271	0.64	cps
Silver	107-1	14488	14578	14701	14589	0.73	cps
Silver	109-1	13744	13957	14021	13907	1.04	cps
Sodium	23-2	106723	106995	106844	106854	0.13	cps
Strontium	86-1	537149	552219	556501	548623	1.85	cps
Strontium	88-1	4867817	5002536	5003054	4957802	1.57	cps
Sulfur	34-1	841372	843834	853732	846313	0.77	cps
Terbium	159-1	14585284	14735839	14776546	14699223	0.69	cps
Terbium	159-2	4412868	4485059	4491501	4463142	0.98	cps
Thallium	203-1	1647	1893	1693	1745	7.51	cps
Thallium	205-1	4077	4177	4301	4185	2.67	cps
Tin	118-1	16614	17081	17258	16984	1.96	cps
Titanium	47-1	1375683	1422239	1456304	1418076	2.85	cps
Uranium	238-1	26080	26638	27416	26712	2.51	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:02:42	DataFile Name :	101AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	279456	278542	281927	279975	0.63	cps
Ytterbium	172-1	15366	15903	15566	15612	1.74	cps
Ytterbium	172-2	5798	5895	5961	5885	1.40	cps
Ytterbium	176-1	11228	11725	11715	11556	2.46	cps
Ytterbium	176-2	3801	3811	4061	3891	3.79	cps
Yttrium	89-1	21431202	21207621	21559456	21399426	0.83	cps
Yttrium	89-2	1359135	1355257	1371383	1361925	0.62	cps
Zinc	66-2	106016	105435	106731	106061	0.61	cps
Zirconium	90-1	56240	56219	58063	56841	1.86	cps
Zirconium	91-1	14274	14801	15543	14873	4.29	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1096367	1096957	1106616	1099980	0.52	cps
Antimony	121-1	20215	20469	20759	20481	1.33	cps
Arsenic	75-2	44905	43704	44477	44362	1.37	cps
Barium	135-1	376521	384992	387535	383016	1.51	cps
Barium	137-1	657193	671937	672596	667242	1.31	cps
Beryllium	9-1	5200	5403	5444	5349	2.44	cps
Bismuth	209-1	8573634	8560500	8715880	8616672	1.00	cps
Bismuth	209-2	3210216	3276427	3209034	3231892	1.19	cps
Bromine	81-1	8249	8336	8583	8389	2.06	cps
Cadmium	108-1	443	387	427	419	6.95	cps
Cadmium	106-1	7085	7065	7162	7104	0.72	cps
Cadmium	111-1	4504	4823	4364	4564	5.15	cps
Calcium	43-1	276779	283560	287885	282741	1.98	cps
Calcium	44-1	4703435	4692095	4790654	4728728	1.14	cps
Carbon	12-1	4082690	4220358	4155117	4152721	1.66	cps
Carbon	12-2	28768	28761	28802	28777	0.07	cps
Chlorine	35-1	155461181	162357071	165332278	161050176	3.14	cps
Chlorine	35-2	612623	621990	617837	617483	0.76	cps
Chromium	52-2	116288	117329	117893	117170	0.70	cps
Cobalt	59-2	308545	304218	307400	306721	0.73	cps
Copper	63-2	1252806	1250274	1260174	1254418	0.41	cps
Dysprosium	156-1	59950	61815	61976	61247	1.84	cps
Dysprosium	156-2	19534	20432	19401	19789	2.84	cps
Erbium	164-1	64626	65658	66324	65536	1.31	cps
Erbium	164-2	20052	19765	19835	19884	0.75	cps
Gadolinium	160-1	61635	62827	62680	62380	1.04	cps
Gadolinium	160-2	23431	23451	23381	23421	0.15	cps
Holmium	165-1	14344812	14304848	14782128	14477263	1.83	cps
Holmium	165-2	4739390	4769646	4658595	4722544	1.22	cps
Indium	115-1	11232138	11228170	11510083	11323464	1.43	cps
Indium	115-2	1015822	1035947	1012168	1021312	1.25	cps
Iron	54-2	8438467	8388722	8387089	8404759	0.35	cps
Iron	56-2	154289814	153156144	154194638	153880199	0.41	cps
Iron	57-2	3892018	3951206	3916913	3920045	0.76	cps
Krypton	83-1	290	233	310	278	14.32	cps
Lead	206-1	781258	798505	804974	794912	1.54	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	648092	659109	663415	656872	1.20	cps
Lead	208-1	3018881	3190653	3208912	3139482	3.34	cps
Lithium	6-1	6281722	6139890	5980759	6134124	2.45	cps
Magnesium	24-2	2470978	2475413	2481059	2475817	0.20	cps
Manganese	55-2	552202	551687	551420	551770	0.07	cps
Molybdenum	94-1	31759	32562	32284	32202	1.26	cps
Molybdenum	95-1	19964	19784	21019	20256	3.29	cps
Molybdenum	96-1	25594	26422	26863	26293	2.45	cps
Molybdenum	97-1	12429	12699	12546	12558	1.08	cps
Molybdenum	98-1	31339	32227	32100	31889	1.51	cps
Neodymium	150-1	73540	75792	75517	74950	1.64	cps
Neodymium	150-2	16821	17124	16667	16871	1.38	cps
Nickel	60-2	139539	136163	136853	137519	1.30	cps
Phosphorus	31-2	3714	3784	3784	3761	1.08	cps
Potassium	39-2	215152	214585	216678	215472	0.50	cps
Rhodium	103-1	10193982	10259588	10389340	10280970	0.97	cps
Rhodium	103-2	3873108	3903598	3742012	3839573	2.24	cps
Scandium	45-1	8896252	8778669	8914301	8863074	0.83	cps
Scandium	45-2	149300	152918	149599	150605	1.33	cps
Selenium	82-1	210	280	217	236	16.40	cps
Selenium	77-2	97	110	123	110	12.12	cps
Selenium	78-2	93	77	90	87	10.17	cps
Silicon	28-1	30141602	31413287	31221990	30925626	2.22	cps
Silver	107-1	13503	13940	13914	13786	1.78	cps
Silver	109-1	12713	12916	13250	12960	2.09	cps
Sodium	23-2	144982	147080	145924	145995	0.72	cps
Strontium	86-1	354772	363399	366850	361674	1.72	cps
Strontium	88-1	3235683	3278520	3324645	3279616	1.36	cps
Sulfur	34-1	521152	530251	533003	528135	1.17	cps
Terbium	159-1	14616219	14731505	14921624	14756449	1.05	cps
Terbium	159-2	4500680	4644405	4452193	4532426	2.21	cps
Thallium	203-1	1650	1773	1790	1738	4.40	cps
Thallium	205-1	4194	4171	4231	4198	0.72	cps
Tin	118-1	13440	14087	14017	13848	2.57	cps
Titanium	47-1	1966201	1942405	1934992	1947866	0.84	cps
Uranium	238-1	72720	74752	75107	74193	1.74	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-09	Instrumnet Name :	P8
Client Sample ID :	YE8H3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:05:57	DataFile Name :	102AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	279758	281614	281461	280944	0.37	cps
Ytterbium	172-1	21845	22349	22222	22139	1.18	cps
Ytterbium	172-2	7902	8219	8173	8098	2.11	cps
Ytterbium	176-1	15636	15786	15623	15682	0.58	cps
Ytterbium	176-2	5368	5451	5401	5407	0.78	cps
Yttrium	89-1	21917705	21935862	22372580	22075382	1.17	cps
Yttrium	89-2	1491227	1520863	1491730	1501273	1.13	cps
Zinc	66-2	390024	389625	394161	391270	0.64	cps
Zirconium	90-1	55416	56768	57130	56438	1.60	cps
Zirconium	91-1	12763	12729	13126	12873	1.71	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	493468	493467	499300	495412	0.68	cps
Antimony	121-1	1020	1063	1050	1044	2.13	cps
Arsenic	75-2	370	413	400	394	5.63	cps
Barium	135-1	618167	628427	634147	626914	1.29	cps
Barium	137-1	1076766	1092665	1102178	1090536	1.18	cps
Beryllium	9-1	1569	1572	1549	1563	0.82	cps
Bismuth	209-1	8816163	8945568	8535249	8765660	2.39	cps
Bismuth	209-2	3133322	3169355	3183133	3161937	0.81	cps
Bromine	81-1	7229	7149	7372	7250	1.56	cps
Cadmium	108-1	57	80	80	72	18.65	cps
Cadmium	106-1	6662	6422	6492	6525	1.89	cps
Cadmium	111-1	1426	1458	1426	1437	1.31	cps
Calcium	43-1	399140	401494	408067	402900	1.15	cps
Calcium	44-1	6687114	6789114	6747296	6741174	0.76	cps
Carbon	12-1	2402798	2405251	2367827	2391959	0.88	cps
Carbon	12-2	16149	16139	16229	16172	0.31	cps
Chlorine	35-1	140112255	146428824	149801898	145447659	3.38	cps
Chlorine	35-2	559686	557042	562824	559851	0.52	cps
Chromium	52-2	17995	18172	17848	18005	0.90	cps
Cobalt	59-2	64143	64873	65296	64771	0.90	cps
Copper	63-2	84057	83544	85069	84223	0.92	cps
Dysprosium	156-1	50214	51271	52091	51192	1.84	cps
Dysprosium	156-2	16414	16163	15839	16139	1.78	cps
Erbium	164-1	50271	52105	52503	51626	2.31	cps
Erbium	164-2	15543	15753	15796	15697	0.86	cps
Gadolinium	160-1	50221	50950	52593	51255	2.37	cps
Gadolinium	160-2	19421	19418	18713	19184	2.12	cps
Holmium	165-1	14347953	14807179	13966930	14374021	2.93	cps
Holmium	165-2	4629096	4594240	4601315	4608217	0.40	cps
Indium	115-1	11335137	11755445	10959661	11350081	3.51	cps
Indium	115-2	995649	1001164	995451	997421	0.33	cps
Iron	54-2	2400585	2409983	2419286	2409951	0.39	cps
Iron	56-2	44155516	43918249	43828278	43967348	0.38	cps
Iron	57-2	1048668	1049358	1050373	1049466	0.08	cps
Krypton	83-1	200	190	200	197	2.94	cps
Lead	206-1	26634	26784	27302	26907	1.30	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	22109	22136	22510	22251	1.01	cps
Lead	208-1	102152	103006	105457	103538	1.66	cps
Lithium	6-1	6057059	6135977	5755970	5983002	3.35	cps
Magnesium	24-2	1547441	1531383	1565079	1547968	1.09	cps
Manganese	55-2	1496874	1498319	1507925	1501039	0.40	cps
Molybdenum	94-1	11969	12125	12352	12149	1.59	cps
Molybdenum	95-1	2854	3014	2914	2927	2.76	cps
Molybdenum	96-1	4994	5091	5598	5228	6.20	cps
Molybdenum	97-1	1700	1540	1560	1600	5.45	cps
Molybdenum	98-1	4467	4374	4517	4453	1.63	cps
Neodymium	150-1	69465	70336	70356	70052	0.73	cps
Neodymium	150-2	15609	15396	15703	15569	1.01	cps
Nickel	60-2	8993	8773	8933	8900	1.28	cps
Phosphorus	31-2	1730	1513	1547	1597	7.31	cps
Potassium	39-2	65983	66422	66573	66326	0.46	cps
Rhodium	103-1	10236752	10561688	10058425	10285621	2.48	cps
Rhodium	103-2	3770332	3819882	3773587	3787934	0.73	cps
Scandium	45-1	8594857	8876211	8477106	8649391	2.37	cps
Scandium	45-2	143751	145531	144858	144713	0.62	cps
Selenium	82-1	57	60	37	51	24.69	cps
Selenium	77-2	77	70	77	74	5.17	cps
Selenium	78-2	47	47	53	49	7.86	cps
Silicon	28-1	17538835	17661868	17836442	17679048	0.85	cps
Silver	107-1	983	1170	1097	1083	8.68	cps
Silver	109-1	937	1027	1080	1014	7.14	cps
Sodium	23-2	140199	139425	141909	140511	0.90	cps
Strontium	86-1	110791	114799	115902	113831	2.36	cps
Strontium	88-1	958367	977615	993562	976515	1.80	cps
Sulfur	34-1	339835	342693	347082	343203	1.06	cps
Terbium	159-1	14712085	15115841	14134711	14654212	3.37	cps
Terbium	159-2	4378560	4410313	4410313	4399729	0.42	cps
Thallium	203-1	773	917	897	862	9.00	cps
Thallium	205-1	1903	1923	2107	1978	5.67	cps
Tin	118-1	4614	5118	5231	4988	6.58	cps
Titanium	47-1	242842	248709	251440	247663	1.77	cps
Uranium	238-1	14258	14255	14458	14324	0.81	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-10	Instrumnet Name :	P8
Client Sample ID :	YE8H4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:09:12	DataFile Name :	103AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	61099	61146	61273	61173	0.15	cps
Ytterbium	172-1	15102	15422	15576	15367	1.57	cps
Ytterbium	172-2	5571	5825	5478	5625	3.19	cps
Ytterbium	176-1	11165	11512	11458	11378	1.64	cps
Ytterbium	176-2	3721	3641	3827	3729	2.51	cps
Yttrium	89-1	21757791	22585026	21161685	21834834	3.27	cps
Yttrium	89-2	1456009	1453772	1359913	1423231	3.85	cps
Zinc	66-2	31288	31732	31896	31639	0.99	cps
Zirconium	90-1	28065	29251	29257	28858	2.38	cps
Zirconium	91-1	6625	6585	6548	6586	0.58	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2363737	2343118	2352574	2353143	0.44	cps
Antimony	121-1	5307557	5328153	5337180	5324297	0.29	cps
Arsenic	75-2	90521	90924	90320	90588	0.34	cps
Barium	135-1	6808828	6852569	6891543	6850980	0.60	cps
Barium	137-1	11718188	11838939	11752684	11769937	0.53	cps
Beryllium	9-1	1873751	1902516	1875712	1883993	0.85	cps
Bismuth	209-1	7132278	7201720	7220483	7184827	0.65	cps
Bismuth	209-2	2629381	2646116	2604763	2626753	0.79	cps
Bromine	81-1	6472	6325	6345	6380	1.25	cps
Cadmium	108-1	103125	104613	104619	104119	0.83	cps
Cadmium	106-1	151899	151625	151261	151595	0.21	cps
Cadmium	111-1	1203650	1199723	1205011	1202795	0.23	cps
Calcium	43-1	10485672	10403328	10290464	10393154	0.94	cps
Calcium	44-1	168897777	169548944	168106241	168850987	0.43	cps
Carbon	12-1	2627842	2636572	2740121	2668178	2.34	cps
Carbon	12-2	20661	21085	21125	20957	1.23	cps
Chlorine	35-1	7337583	6814605	6240441	6797543	8.07	cps
Chlorine	35-2	20234	19036	17891	19054	6.15	cps
Chromium	52-2	1063682	1068593	1064585	1065620	0.25	cps
Cobalt	59-2	2012543	2036087	2013174	2020601	0.66	cps
Copper	63-2	14268437	14375019	14336237	14326565	0.38	cps
Dysprosium	156-1	520	443	530	498	9.53	cps
Dysprosium	156-2	63	93	83	80	19.09	cps
Erbium	164-1	320	287	270	292	8.71	cps
Erbium	164-2	77	110	113	100	20.27	cps
Gadolinium	160-1	250	203	267	240	13.68	cps
Gadolinium	160-2	87	83	90	87	3.85	cps
Holmium	165-1	12995181	12941772	12906858	12947937	0.34	cps
Holmium	165-2	4119206	4146100	4073969	4113092	0.89	cps
Indium	115-1	9557476	9440454	9551121	9516350	0.69	cps
Indium	115-2	856984	855024	853905	855304	0.18	cps
Iron	54-2	11011664	10927085	10875359	10938036	0.63	cps
Iron	56-2	198903077	201961324	200454377	200439593	0.76	cps
Iron	57-2	5087819	5143193	5000501	5077171	1.42	cps
Krypton	83-1	160	150	230	180	24.22	cps
Lead	206-1	20978803	21145234	21224259	21116099	0.59	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18127149	18319059	18270722	18238977	0.55	cps
Lead	208-1	83611750	84373582	83991306	83992213	0.45	cps
Lithium	6-1	5344871	5333373	5266798	5315014	0.79	cps
Magnesium	24-2	40933514	40331821	39824749	40363361	1.38	cps
Manganese	55-2	4813835	4789094	4781226	4794718	0.35	cps
Molybdenum	94-1	19623848	19780992	19436634	19613825	0.88	cps
Molybdenum	95-1	28544645	28421613	28172342	28379533	0.67	cps
Molybdenum	96-1	30823550	30948517	30463934	30745333	0.82	cps
Molybdenum	97-1	17150186	17435766	17322668	17302873	0.83	cps
Molybdenum	98-1	45552628	46125316	45511786	45729910	0.75	cps
Neodymium	150-1	730	737	820	762	6.58	cps
Neodymium	150-2	70	50	23	48	49.01	cps
Nickel	60-2	504301	505883	502349	504178	0.35	cps
Phosphorus	31-2	20682	20578	20034	20431	1.70	cps
Potassium	39-2	11595906	11519842	11574912	11563553	0.34	cps
Rhodium	103-1	8391269	8388611	8333867	8371249	0.39	cps
Rhodium	103-2	3063341	3093131	3016469	3057647	1.26	cps
Scandium	45-1	7602364	7571193	7442425	7538661	1.12	cps
Scandium	45-2	126256	125455	126017	125909	0.33	cps
Selenium	82-1	81958	82485	82971	82471	0.61	cps
Selenium	77-2	1270	1277	1437	1328	7.11	cps
Selenium	78-2	4304	4184	4451	4313	3.10	cps
Silicon	28-1	31640942	32051951	31944148	31879014	0.67	cps
Silver	107-1	6645757	6724407	6649211	6673125	0.67	cps
Silver	109-1	6288033	6345391	6308409	6313944	0.46	cps
Sodium	23-2	81260712	81400819	80504135	81055222	0.60	cps
Strontium	86-1	2034626	2070505	2071446	2058859	1.02	cps
Strontium	88-1	17090560	17307266	16927389	17108405	1.11	cps
Sulfur	34-1	996522	1002095	994099	997572	0.41	cps
Terbium	159-1	13215703	13166039	13075449	13152397	0.54	cps
Terbium	159-2	3998570	3957967	4026253	3994264	0.86	cps
Thallium	203-1	5492113	5477082	5590488	5519894	1.12	cps
Thallium	205-1	12838472	12988034	12968852	12931786	0.63	cps
Tin	118-1	4608909	4604615	4587524	4600349	0.25	cps
Titanium	47-1	8878879	8984821	8965626	8943109	0.63	cps
Uranium	238-1	17347533	17273624	17230525	17283894	0.34	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:12:31	DataFile Name :	104CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	853606	852058	849696	851787	0.23	cps
Ytterbium	172-1	323	370	363	352	7.17	cps
Ytterbium	172-2	113	103	153	123	21.45	cps
Ytterbium	176-1	26062	26500	26400	26321	0.87	cps
Ytterbium	176-2	7966	8006	8446	8139	3.27	cps
Yttrium	89-1	18388290	18650472	18103905	18380889	1.49	cps
Yttrium	89-2	1175448	1178218	1178596	1177421	0.15	cps
Zinc	66-2	1560865	1538573	1550644	1550027	0.72	cps
Zirconium	90-1	9927983	10016832	9712593	9885803	1.58	cps
Zirconium	91-1	2215134	2246382	2194808	2218775	1.17	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	113	107	101	15.58	cps
Antimony	121-1	457	370	407	411	10.58	cps
Arsenic	75-2	0	7	0	2	173.21	cps
Barium	135-1	410	440	393	414	5.71	cps
Barium	137-1	807	703	747	752	6.90	cps
Beryllium	9-1	384	342	334	353	7.56	cps
Bismuth	209-1	7922173	7988527	7808697	7906466	1.15	cps
Bismuth	209-2	3034765	3046829	3071507	3051034	0.61	cps
Bromine	81-1	5758	5738	5711	5736	0.41	cps
Cadmium	108-1	17	20	20	19	10.18	cps
Cadmium	106-1	5645	5585	5418	5549	2.12	cps
Cadmium	111-1	1194	1146	1090	1143	4.57	cps
Calcium	43-1	407	443	363	404	9.90	cps
Calcium	44-1	8056	7379	7549	7661	4.60	cps
Carbon	12-1	2475192	2454114	2443087	2457464	0.66	cps
Carbon	12-2	16269	15742	16252	16088	1.86	cps
Chlorine	35-1	1957528	1856928	1779979	1864811	4.77	cps
Chlorine	35-2	6275	5811	5648	5911	5.50	cps
Chromium	52-2	540	417	490	482	12.86	cps
Cobalt	59-2	117	130	160	136	16.37	cps
Copper	63-2	3961	3907	3954	3941	0.74	cps
Dysprosium	156-1	90	127	87	101	21.95	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	50	83	67	67	25.00	cps
Erbium	164-2	30	17	13	20	44.10	cps
Gadolinium	160-1	13	23	47	28	61.59	cps
Gadolinium	160-2	3	0	3	2	86.60	cps
Holmium	165-1	12942764	12594709	12728009	12755161	1.38	cps
Holmium	165-2	4273203	4277304	4284933	4278480	0.14	cps
Indium	115-1	10131849	10175299	10159383	10155510	0.22	cps
Indium	115-2	933791	923487	929944	929074	0.56	cps
Iron	54-2	443	453	533	477	10.35	cps
Iron	56-2	7185	6858	7092	7045	2.39	cps
Iron	57-2	143	100	197	147	33.01	cps
Krypton	83-1	140	123	120	128	8.38	cps
Lead	206-1	1917	1813	1830	1853	2.99	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1847	1630	1750	1742	6.23	cps
Lead	208-1	7831	7664	7474	7657	2.33	cps
Lithium	6-1	6000071	5959193	5862183	5940482	1.19	cps
Magnesium	24-2	657	783	703	714	8.97	cps
Manganese	55-2	300	253	350	301	16.05	cps
Molybdenum	94-1	573	590	480	548	10.82	cps
Molybdenum	95-1	670	490	520	560	17.22	cps
Molybdenum	96-1	687	643	643	658	3.80	cps
Molybdenum	97-1	350	290	290	310	11.17	cps
Molybdenum	98-1	1007	857	783	882	12.90	cps
Neodymium	150-1	13	20	23	19	26.96	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	997	940	903	947	4.97	cps
Phosphorus	31-2	63	20	33	39	57.07	cps
Potassium	39-2	5218	5151	5258	5209	1.04	cps
Rhodium	103-1	9296336	9319902	9369641	9328626	0.40	cps
Rhodium	103-2	3497428	3487872	3493035	3492778	0.14	cps
Scandium	45-1	7687822	7657787	7499392	7615000	1.33	cps
Scandium	45-2	127755	125438	127395	126863	0.98	cps
Selenium	82-1	-13	13	-30	-10	-218.56	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	13	7	8	65.47	cps
Silicon	28-1	343178	341097	342028	342101	0.30	cps
Silver	107-1	367	337	337	347	5.00	cps
Silver	109-1	273	247	250	257	5.66	cps
Sodium	23-2	15205	15278	14868	15117	1.45	cps
Strontium	86-1	267	230	257	251	7.55	cps
Strontium	88-1	580	593	577	583	1.51	cps
Sulfur	34-1	327803	331295	324249	327782	1.07	cps
Terbium	159-1	13095539	13231551	13002955	13110015	0.88	cps
Terbium	159-2	4168957	4129650	4210071	4169559	0.96	cps
Thallium	203-1	587	580	503	557	8.32	cps
Thallium	205-1	1240	1417	1330	1329	6.65	cps
Tin	118-1	1273	1183	1287	1248	4.51	cps
Titanium	47-1	263	180	217	220	18.99	cps
Uranium	238-1	267	210	200	226	15.94	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:18:41	DataFile Name :	105CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	17	7	16	53.90	cps
Ytterbium	172-1	60	70	40	57	26.96	cps
Ytterbium	172-2	17	30	27	24	28.38	cps
Ytterbium	176-1	1680	1580	1730	1663	4.59	cps
Ytterbium	176-2	207	163	260	210	23.05	cps
Yttrium	89-1	18832146	18583270	18646245	18687220	0.69	cps
Yttrium	89-2	1195381	1189425	1202793	1195866	0.56	cps
Zinc	66-2	330	360	297	329	9.63	cps
Zirconium	90-1	837	920	797	851	7.39	cps
Zirconium	91-1	160	207	147	171	18.41	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	858815	851763	856135	855571	0.42	cps
Antimony	121-1	10351	10664	10391	10469	1.63	cps
Arsenic	75-2	26184	25797	26355	26112	1.09	cps
Barium	135-1	729441	743117	754792	742450	1.71	cps
Barium	137-1	1272503	1294616	1310335	1292485	1.47	cps
Beryllium	9-1	5343	5464	5357	5388	1.23	cps
Bismuth	209-1	8117209	8180084	7659670	7985654	3.56	cps
Bismuth	209-2	3182601	3109807	3170419	3154275	1.24	cps
Bromine	81-1	7822	7742	7702	7756	0.79	cps
Cadmium	108-1	160	193	203	186	12.23	cps
Cadmium	106-1	6338	6348	5908	6198	4.05	cps
Cadmium	111-1	2239	2224	2256	2240	0.71	cps
Calcium	43-1	214613	217982	219828	217474	1.22	cps
Calcium	44-1	3581302	3607677	3689522	3626167	1.56	cps
Carbon	12-1	2620442	2694942	2725510	2680298	2.02	cps
Carbon	12-2	18672	18659	18425	18585	0.75	cps
Chlorine	35-1	112325402	122177048	127454521	120652324	6.36	cps
Chlorine	35-2	479506	480499	486548	482184	0.79	cps
Chromium	52-2	151092	150381	150158	150544	0.32	cps
Cobalt	59-2	198489	199399	200440	199443	0.49	cps
Copper	63-2	502159	503370	503607	503045	0.15	cps
Dysprosium	156-1	47022	47598	48558	47726	1.63	cps
Dysprosium	156-2	14458	14378	14294	14377	0.57	cps
Erbium	164-1	46524	47672	48678	47625	2.26	cps
Erbium	164-2	14902	14965	15165	15011	0.92	cps
Gadolinium	160-1	43447	45574	45654	44892	2.79	cps
Gadolinium	160-2	16751	17171	16747	16890	1.44	cps
Holmium	165-1	13342906	13637498	12477826	13152743	4.58	cps
Holmium	165-2	4458492	4516050	4515551	4496698	0.74	cps
Indium	115-1	10535317	10663579	9877665	10358854	4.07	cps
Indium	115-2	969704	979165	988046	978972	0.94	cps
Iron	54-2	7504096	7426189	7423242	7451176	0.62	cps
Iron	56-2	138808685	136639998	137382101	137610261	0.80	cps
Iron	57-2	3528585	3475367	3517384	3507112	0.80	cps
Krypton	83-1	193	200	243	212	12.79	cps
Lead	206-1	165866	168627	169026	167840	1.03	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	137074	139299	142494	139622	1.95	cps
Lead	208-1	643454	654318	661457	653076	1.39	cps
Lithium	6-1	5891928	6028795	5727821	5882848	2.56	cps
Magnesium	24-2	1866944	1806764	1862062	1845257	1.81	cps
Manganese	55-2	537368	544253	547306	542976	0.94	cps
Molybdenum	94-1	15442	15679	15696	15605	0.91	cps
Molybdenum	95-1	4664	4928	5064	4885	4.16	cps
Molybdenum	96-1	8546	8816	9030	8797	2.75	cps
Molybdenum	97-1	3034	3107	3157	3099	2.00	cps
Molybdenum	98-1	7562	7499	7879	7647	2.66	cps
Neodymium	150-1	54329	55986	56006	55440	1.74	cps
Neodymium	150-2	12723	12523	12653	12633	0.80	cps
Nickel	60-2	57013	56672	56575	56754	0.41	cps
Phosphorus	31-2	2764	2877	3010	2884	4.28	cps
Potassium	39-2	161627	160376	162617	161540	0.70	cps
Rhodium	103-1	9549497	9712130	9029168	9430265	3.78	cps
Rhodium	103-2	3632200	3611984	3784719	3676301	2.57	cps
Scandium	45-1	8156777	8357713	7802275	8105588	3.47	cps
Scandium	45-2	142511	143033	146996	144180	1.70	cps
Selenium	82-1	107	93	60	87	27.74	cps
Selenium	77-2	63	70	80	71	11.80	cps
Selenium	78-2	57	47	30	44	30.31	cps
Silicon	28-1	17779256	18410773	18635366	18275131	2.43	cps
Silver	107-1	6548	6138	6638	6442	4.14	cps
Silver	109-1	6278	6248	6211	6246	0.53	cps
Sodium	23-2	115640	116410	117979	116676	1.02	cps
Strontium	86-1	341328	348230	353717	347758	1.79	cps
Strontium	88-1	3116700	3132804	3228974	3159493	1.92	cps
Sulfur	34-1	371389	377918	380047	376451	1.20	cps
Terbium	159-1	13605824	13781744	13051786	13479785	2.83	cps
Terbium	159-2	4334253	4360604	4476555	4390470	1.72	cps
Thallium	203-1	2477	2784	2557	2606	6.11	cps
Thallium	205-1	6085	5835	6242	6054	3.39	cps
Tin	118-1	7882	7545	7816	7748	2.30	cps
Titanium	47-1	769698	791342	804954	788665	2.25	cps
Uranium	238-1	24597	24560	25111	24756	1.24	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-11	Instrumnet Name :	P8
Client Sample ID :	YE8H5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:22:03	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	298205	295439	295139	296261	0.57	cps
Ytterbium	172-1	16400	16474	16280	16385	0.60	cps
Ytterbium	172-2	5958	6115	6152	6075	1.69	cps
Ytterbium	176-1	11208	11709	12089	11669	3.79	cps
Ytterbium	176-2	4001	4111	3794	3968	4.05	cps
Yttrium	89-1	20350090	20427063	19273978	20017044	3.22	cps
Yttrium	89-2	1323890	1333221	1351805	1336305	1.06	cps
Zinc	66-2	80453	78415	78506	79125	1.46	cps
Zirconium	90-1	34723	36100	36708	35844	2.84	cps
Zirconium	91-1	8012	8092	8329	8145	2.02	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	925224	927464	926076	926255	0.12	cps
Antimony	121-1	4617	4607	4854	4693	2.98	cps
Arsenic	75-2	4851	4871	4924	4882	0.78	cps
Barium	135-1	1069895	1092973	1096992	1086620	1.35	cps
Barium	137-1	2002418	1995752	2003172	2000448	0.20	cps
Beryllium	9-1	3968	4080	3953	4000	1.74	cps
Bismuth	209-1	8285606	8335816	8207955	8276459	0.78	cps
Bismuth	209-2	3061592	3056290	3071133	3063005	0.25	cps
Bromine	81-1	7022	7636	7669	7442	4.90	cps
Cadmium	108-1	217	227	207	217	4.62	cps
Cadmium	106-1	6171	6595	6692	6486	4.27	cps
Cadmium	111-1	2103	2224	2317	2214	4.85	cps
Calcium	43-1	593180	603014	604915	600370	1.05	cps
Calcium	44-1	9919876	10146373	10145851	10070700	1.30	cps
Carbon	12-1	2275644	2284515	2263973	2274711	0.45	cps
Carbon	12-2	15552	15165	15502	15406	1.37	cps
Chlorine	35-1	130260055	137499645	140964335	136241345	4.01	cps
Chlorine	35-2	525649	526603	534360	528871	0.90	cps
Chromium	52-2	17354	17538	17531	17474	0.60	cps
Cobalt	59-2	170190	170494	171070	170585	0.26	cps
Copper	63-2	729887	726321	730292	728833	0.30	cps
Dysprosium	156-1	44758	46049	46527	45778	2.00	cps
Dysprosium	156-2	14762	14838	15145	14915	1.36	cps
Erbium	164-1	43859	45477	43621	44319	2.28	cps
Erbium	164-2	13594	13764	13580	13646	0.75	cps
Gadolinium	160-1	47046	47404	47424	47291	0.45	cps
Gadolinium	160-2	17431	17705	18012	17716	1.64	cps
Holmium	165-1	13452459	14001109	13677426	13710331	2.01	cps
Holmium	165-2	4423341	4467820	4498132	4463098	0.84	cps
Indium	115-1	10733900	11026432	10833589	10864640	1.37	cps
Indium	115-2	958872	968215	960272	962453	0.52	cps
Iron	54-2	6294168	6280095	6324753	6299672	0.36	cps
Iron	56-2	117080928	116787465	116278618	116715670	0.35	cps
Iron	57-2	3019998	2984964	2968389	2991117	0.88	cps
Krypton	83-1	153	217	253	208	24.35	cps
Lead	206-1	76604	77231	77463	77100	0.58	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	64479	64077	63652	64070	0.65	cps
Lead	208-1	297604	299240	302024	299623	0.75	cps
Lithium	6-1	6062223	6088182	6044945	6065117	0.36	cps
Magnesium	24-2	2147334	2161939	2143485	2150919	0.45	cps
Manganese	55-2	2435663	2364790	2393623	2398025	1.49	cps
Molybdenum	94-1	23871	23036	23253	23386	1.85	cps
Molybdenum	95-1	5715	5888	5851	5818	1.57	cps
Molybdenum	96-1	10487	10564	11031	10694	2.75	cps
Molybdenum	97-1	3524	3577	3624	3575	1.40	cps
Molybdenum	98-1	9070	8926	9403	9133	2.68	cps
Neodymium	150-1	54805	55759	55534	55366	0.90	cps
Neodymium	150-2	12549	12549	12483	12527	0.31	cps
Nickel	60-2	17297	17297	17454	17350	0.52	cps
Phosphorus	31-2	10237	10260	10070	10189	1.02	cps
Potassium	39-2	292624	290423	292960	292002	0.47	cps
Rhodium	103-1	9851667	10089429	9947616	9962904	1.20	cps
Rhodium	103-2	3619055	3600852	3610566	3610158	0.25	cps
Scandium	45-1	8180749	8520052	8291693	8330831	2.08	cps
Scandium	45-2	139125	137951	138160	138412	0.45	cps
Selenium	82-1	193	167	97	152	32.80	cps
Selenium	77-2	103	63	70	79	27.17	cps
Selenium	78-2	50	43	57	50	13.34	cps
Silicon	28-1	26836708	27101115	28982359	27640060	4.23	cps
Silver	107-1	2957	2984	2917	2953	1.14	cps
Silver	109-1	2540	2747	2794	2694	5.01	cps
Sodium	23-2	343113	339297	340488	340966	0.57	cps
Strontium	86-1	346799	351304	355056	351053	1.18	cps
Strontium	88-1	3165445	3180881	3169783	3172036	0.25	cps
Sulfur	34-1	432468	433237	434227	433310	0.20	cps
Terbium	159-1	13998808	14344322	14312718	14218616	1.34	cps
Terbium	159-2	4255875	4239251	4299434	4264853	0.73	cps
Thallium	203-1	2230	2140	2224	2198	2.28	cps
Thallium	205-1	5264	5365	5588	5406	3.06	cps
Tin	118-1	4231	4531	4731	4497	5.60	cps
Titanium	47-1	634910	634953	646423	638762	1.04	cps
Uranium	238-1	17933	18257	18494	18228	1.54	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-12	Instrumnet Name :	P8
Client Sample ID :	YE8H6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:25:21	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	119396	120559	119900	119952	0.49	cps
Ytterbium	172-1	12603	12493	13320	12805	3.51	cps
Ytterbium	172-2	4497	4891	4914	4768	4.91	cps
Ytterbium	176-1	9327	9897	9340	9521	3.42	cps
Ytterbium	176-2	3224	3157	3287	3223	2.02	cps
Yttrium	89-1	20467621	20950341	20782334	20733432	1.18	cps
Yttrium	89-2	1316727	1324426	1314027	1318393	0.41	cps
Zinc	66-2	66391	65721	67128	66413	1.06	cps
Zirconium	90-1	55928	55640	56233	55934	0.53	cps
Zirconium	91-1	12019	12716	12532	12422	2.91	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	91951	92200	93119	92423	0.67	cps
Antimony	121-1	28810	29682	30013	29502	2.11	cps
Arsenic	75-2	25453	25914	25583	25650	0.93	cps
Barium	135-1	153276	158543	160289	157369	2.32	cps
Barium	137-1	268049	274106	277707	273287	1.79	cps
Beryllium	9-1	961	960	929	950	1.94	cps
Bismuth	209-1	7962650	8767575	7951197	8227141	5.69	cps
Bismuth	209-2	3103499	3115444	3177397	3132113	1.27	cps
Bromine	81-1	7119	7172	7675	7322	4.20	cps
Cadmium	108-1	210	260	250	240	11.03	cps
Cadmium	106-1	5781	6328	5968	6026	4.61	cps
Cadmium	111-1	2746	2687	2535	2656	4.09	cps
Calcium	43-1	877589	885834	903269	888897	1.47	cps
Calcium	44-1	14580110	14783660	15106798	14823523	1.79	cps
Carbon	12-1	2652183	2687921	2707067	2682390	1.04	cps
Carbon	12-2	17484	18342	18195	18007	2.55	cps
Chlorine	35-1	138095078	144870655	148961451	143975728	3.81	cps
Chlorine	35-2	548510	560358	564453	557774	1.48	cps
Chromium	52-2	9143	9947	9787	9626	4.42	cps
Cobalt	59-2	50419	51469	52302	51397	1.84	cps
Copper	63-2	246222	254963	253281	251488	1.84	cps
Dysprosium	156-1	17762	18439	18903	18368	3.13	cps
Dysprosium	156-2	6465	6418	6518	6467	0.77	cps
Erbium	164-1	18526	18446	19621	18865	3.48	cps
Erbium	164-2	5448	5761	5918	5709	4.19	cps
Gadolinium	160-1	19995	19778	20533	20102	1.93	cps
Gadolinium	160-2	7769	7726	7682	7726	0.56	cps
Holmium	165-1	13298386	14582194	13118546	13666375	5.84	cps
Holmium	165-2	4466749	4443604	4464588	4458314	0.29	cps
Indium	115-1	10290025	11633770	10307703	10743833	7.17	cps
Indium	115-2	982138	980529	993020	985229	0.69	cps
Iron	54-2	2999242	3045897	3112584	3052574	1.87	cps
Iron	56-2	55120091	56066783	56692576	55959816	1.41	cps
Iron	57-2	1329644	1428123	1418779	1392182	3.90	cps
Krypton	83-1	150	207	160	172	17.56	cps
Lead	206-1	385343	391059	396349	390917	1.41	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	314990	322428	329691	322370	2.28	cps
Lead	208-1	1484995	1518960	1542467	1515474	1.91	cps
Lithium	6-1	5789263	6287137	5661662	5912687	5.59	cps
Magnesium	24-2	1254457	1318348	1287244	1286683	2.48	cps
Manganese	55-2	587660	596901	607854	597472	1.69	cps
Molybdenum	94-1	23119	23754	24368	23747	2.63	cps
Molybdenum	95-1	14871	15379	16220	15490	4.40	cps
Molybdenum	96-1	19384	19571	20165	19706	2.07	cps
Molybdenum	97-1	9383	9463	9764	9537	2.10	cps
Molybdenum	98-1	24088	25123	26001	25070	3.82	cps
Neodymium	150-1	17204	17338	17335	17292	0.44	cps
Neodymium	150-2	3647	3601	3874	3707	3.94	cps
Nickel	60-2	46489	48088	46927	47168	1.75	cps
Phosphorus	31-2	2424	2347	2244	2338	3.86	cps
Potassium	39-2	46334	46752	46923	46670	0.65	cps
Rhodium	103-1	9565381	10602511	9447934	9871942	6.44	cps
Rhodium	103-2	3738984	3725472	3716808	3727088	0.30	cps
Scandium	45-1	7955618	8819791	7853557	8209656	6.47	cps
Scandium	45-2	141437	140954	141550	141314	0.22	cps
Selenium	82-1	227	237	260	241	7.09	cps
Selenium	77-2	10	33	30	24	51.62	cps
Selenium	78-2	33	43	37	38	13.48	cps
Silicon	28-1	10862948	10233784	10366309	10487680	3.16	cps
Silver	107-1	18506	18726	19497	18910	2.75	cps
Silver	109-1	17731	18336	18669	18246	2.61	cps
Sodium	23-2	45059	46694	47039	46264	2.29	cps
Strontium	86-1	799608	814675	828442	814242	1.77	cps
Strontium	88-1	7100873	7277579	7374334	7250929	1.91	cps
Sulfur	34-1	470440	478229	484333	477667	1.46	cps
Terbium	159-1	13496702	14923836	13237698	13886079	6.54	cps
Terbium	159-2	4315238	4245400	4441536	4334058	2.29	cps
Thallium	203-1	1407	1487	1453	1449	2.77	cps
Thallium	205-1	3404	3547	3644	3532	3.42	cps
Tin	118-1	3597	3577	3584	3586	0.28	cps
Titanium	47-1	6972	7229	7105	7102	1.81	cps
Uranium	238-1	4681	4751	4801	4744	1.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-13	Instrumnet Name :	P8
Client Sample ID :	YE8E9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:28:35	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9150	9180	9407	9245	1.52	cps
Ytterbium	172-1	4841	5201	5288	5110	4.64	cps
Ytterbium	172-2	1810	2000	1827	1879	5.60	cps
Ytterbium	176-1	4834	4981	4901	4905	1.50	cps
Ytterbium	176-2	1420	1427	1317	1388	4.44	cps
Yttrium	89-1	19431870	21702595	19503118	20212528	6.39	cps
Yttrium	89-2	1313683	1299963	1392091	1335245	3.72	cps
Zinc	66-2	35438	36106	36039	35861	1.03	cps
Zirconium	90-1	40395	41727	42334	41485	2.39	cps
Zirconium	91-1	9327	9697	9910	9645	3.06	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	129719	129447	131487	130217	0.85	cps
Antimony	121-1	33725	34590	33701	34006	1.49	cps
Arsenic	75-2	35592	36140	35378	35703	1.10	cps
Barium	135-1	234333	241632	242721	239562	1.90	cps
Barium	137-1	408213	421582	423493	417763	1.99	cps
Beryllium	9-1	1090	1074	1109	1091	1.61	cps
Bismuth	209-1	8794469	8543536	8631311	8656438	1.47	cps
Bismuth	209-2	3113079	3129262	3131923	3124754	0.33	cps
Bromine	81-1	7175	7205	7365	7249	1.41	cps
Cadmium	108-1	303	250	310	288	11.43	cps
Cadmium	106-1	6765	6718	6705	6729	0.47	cps
Cadmium	111-1	3001	2965	2937	2968	1.07	cps
Calcium	43-1	1152270	1212178	1228110	1197519	3.34	cps
Calcium	44-1	19264913	19336646	19549519	19383693	0.76	cps
Carbon	12-1	2636093	2650754	2682982	2656610	0.90	cps
Carbon	12-2	18565	17931	17894	18130	2.08	cps
Chlorine	35-1	131542288	137326711	138961895	135943631	2.87	cps
Chlorine	35-2	521146	521650	524733	522509	0.37	cps
Chromium	52-2	10334	10314	10367	10338	0.26	cps
Cobalt	59-2	62235	62503	61472	62070	0.86	cps
Copper	63-2	300138	300227	301953	300773	0.34	cps
Dysprosium	156-1	22539	23514	23885	23313	2.98	cps
Dysprosium	156-2	8196	8226	8196	8206	0.21	cps
Erbium	164-1	23230	24008	24195	23811	2.15	cps
Erbium	164-2	7152	7192	7559	7301	3.07	cps
Gadolinium	160-1	25147	24579	25211	24979	1.39	cps
Gadolinium	160-2	9757	9730	9420	9636	1.94	cps
Holmium	165-1	14430803	14300458	14035436	14255565	1.41	cps
Holmium	165-2	4553067	4516899	4501457	4523808	0.59	cps
Indium	115-1	11396374	11128734	11346978	11290695	1.26	cps
Indium	115-2	991828	995136	992618	993194	0.17	cps
Iron	54-2	3701890	3756564	3794234	3750896	1.24	cps
Iron	56-2	68062676	68887131	67758127	68235978	0.86	cps
Iron	57-2	1733701	1730669	1746885	1737085	0.50	cps
Krypton	83-1	173	160	190	174	8.62	cps
Lead	206-1	773382	794089	792807	786759	1.47	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	642831	650829	652161	648607	0.78	cps
Lead	208-1	3090489	3161672	3183103	3145088	1.54	cps
Lithium	6-1	5921017	5914694	5861995	5899235	0.55	cps
Magnesium	24-2	1532772	1528541	1517252	1526188	0.53	cps
Manganese	55-2	610695	613314	616563	613524	0.48	cps
Molybdenum	94-1	39138	40616	40298	40017	1.94	cps
Molybdenum	95-1	21917	22205	22258	22127	0.83	cps
Molybdenum	96-1	27972	29027	29051	28683	2.15	cps
Molybdenum	97-1	13393	13830	13700	13641	1.65	cps
Molybdenum	98-1	34236	36037	35385	35219	2.59	cps
Neodymium	150-1	22095	22188	21688	21990	1.21	cps
Neodymium	150-2	4868	4814	4918	4866	1.06	cps
Nickel	60-2	49181	49857	50827	49955	1.66	cps
Phosphorus	31-2	3370	3007	3290	3223	5.93	cps
Potassium	39-2	58866	58628	59053	58849	0.36	cps
Rhodium	103-1	10300046	10170815	10255278	10242046	0.64	cps
Rhodium	103-2	3747788	3710980	3725612	3728127	0.50	cps
Scandium	45-1	8725057	8553469	8593369	8623965	1.04	cps
Scandium	45-2	142670	142824	142582	142692	0.09	cps
Selenium	82-1	443	523	527	498	9.48	cps
Selenium	77-2	57	60	30	49	33.63	cps
Selenium	78-2	47	50	63	53	16.53	cps
Silicon	28-1	10989806	11056717	11285052	11110525	1.39	cps
Silver	107-1	23927	24348	24579	24285	1.36	cps
Silver	109-1	23213	23640	23814	23556	1.31	cps
Sodium	23-2	52524	53012	54177	53238	1.59	cps
Strontium	86-1	960517	982684	984311	975837	1.36	cps
Strontium	88-1	8609619	8812741	8750930	8724430	1.19	cps
Sulfur	34-1	630157	645896	648663	641572	1.56	cps
Terbium	159-1	14733790	14540643	14582510	14618981	0.70	cps
Terbium	159-2	4411554	4351571	4387484	4383536	0.69	cps
Thallium	203-1	1453	1483	1623	1520	5.97	cps
Thallium	205-1	3994	3654	3761	3803	4.57	cps
Tin	118-1	5021	5048	5084	5051	0.63	cps
Titanium	47-1	8179	8536	8296	8337	2.18	cps
Uranium	238-1	8316	8470	8389	8392	0.91	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-14	Instrumnet Name :	P8
Client Sample ID :	YE8F0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:31:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11872	11885	12399	12052	2.49	cps
Ytterbium	172-1	5475	5721	5658	5618	2.28	cps
Ytterbium	172-2	2010	2214	2084	2102	4.90	cps
Ytterbium	176-1	5358	5438	5338	5378	0.98	cps
Ytterbium	176-2	1573	1527	1623	1575	3.07	cps
Yttrium	89-1	21672660	21232490	20930505	21278552	1.75	cps
Yttrium	89-2	1336142	1323698	1329036	1329625	0.47	cps
Zinc	66-2	43590	42885	43219	43231	0.82	cps
Zirconium	90-1	74400	77641	78663	76902	2.89	cps
Zirconium	91-1	16463	17044	17227	16911	2.36	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	68503	66060	66812	67125	1.86	cps
Antimony	121-1	19377	19931	19891	19733	1.57	cps
Arsenic	75-2	21620	21129	22441	21730	3.05	cps
Barium	135-1	154867	155508	160514	156963	1.97	cps
Barium	137-1	268448	273994	278221	273554	1.79	cps
Beryllium	9-1	715	740	700	718	2.81	cps
Bismuth	209-1	8731750	8675442	8729209	8712134	0.37	cps
Bismuth	209-2	3170518	3197640	3108841	3159000	1.44	cps
Bromine	81-1	7639	7709	7789	7712	0.97	cps
Cadmium	108-1	103	130	173	136	26.06	cps
Cadmium	106-1	6712	6595	6648	6652	0.88	cps
Cadmium	111-1	2270	2328	2465	2354	4.25	cps
Calcium	43-1	519540	526822	528995	525119	0.94	cps
Calcium	44-1	8651738	8831283	8887939	8790320	1.40	cps
Carbon	12-1	2519859	2547288	2576675	2547941	1.12	cps
Carbon	12-2	17040	17277	17077	17131	0.74	cps
Chlorine	35-1	135601458	141233718	145517898	140784358	3.53	cps
Chlorine	35-2	535455	539665	538264	537795	0.40	cps
Chromium	52-2	7665	7615	7449	7577	1.50	cps
Cobalt	59-2	32958	32971	33082	33004	0.21	cps
Copper	63-2	188017	187517	186724	187419	0.35	cps
Dysprosium	156-1	17498	17965	18346	17937	2.37	cps
Dysprosium	156-2	6035	6168	6008	6070	1.41	cps
Erbium	164-1	19918	19925	20025	19956	0.30	cps
Erbium	164-2	6385	6095	6055	6178	2.92	cps
Gadolinium	160-1	19321	19558	19932	19603	1.57	cps
Gadolinium	160-2	7389	7809	7345	7514	3.41	cps
Holmium	165-1	14402647	14153658	14681151	14412485	1.83	cps
Holmium	165-2	4551460	4518802	4494881	4521714	0.63	cps
Indium	115-1	11434589	11389459	11370214	11398087	0.29	cps
Indium	115-2	996118	999992	999396	998502	0.21	cps
Iron	54-2	3486079	3473860	3530959	3496966	0.86	cps
Iron	56-2	63930647	63731042	64298729	63986806	0.45	cps
Iron	57-2	1650049	1629788	1617819	1632552	1.00	cps
Krypton	83-1	217	173	160	183	16.16	cps
Lead	206-1	394632	399584	408413	400876	1.74	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	326078	332737	335282	331366	1.43	cps
Lead	208-1	1529049	1559453	1577574	1555358	1.58	cps
Lithium	6-1	6010651	5862172	6066981	5979935	1.77	cps
Magnesium	24-2	454371	452509	455692	454191	0.35	cps
Manganese	55-2	931253	923665	926643	927187	0.41	cps
Molybdenum	94-1	13173	13537	13927	13546	2.78	cps
Molybdenum	95-1	10067	10421	10281	10256	1.74	cps
Molybdenum	96-1	12646	12646	13316	12869	3.01	cps
Molybdenum	97-1	6208	6425	6205	6279	2.01	cps
Molybdenum	98-1	16316	16487	16870	16558	1.71	cps
Neodymium	150-1	16040	16811	16500	16450	2.36	cps
Neodymium	150-2	3584	3454	3547	3528	1.90	cps
Nickel	60-2	30466	30903	29758	30376	1.90	cps
Phosphorus	31-2	2077	2050	2027	2051	1.22	cps
Potassium	39-2	37118	37128	36326	36857	1.25	cps
Rhodium	103-1	10500096	10393041	10448637	10447258	0.51	cps
Rhodium	103-2	3763103	3770612	3722759	3752158	0.69	cps
Scandium	45-1	8817812	8568387	8673521	8686574	1.44	cps
Scandium	45-2	143454	144306	142835	143532	0.51	cps
Selenium	82-1	97	207	193	166	36.26	cps
Selenium	77-2	37	27	37	33	17.32	cps
Selenium	78-2	30	33	43	36	19.51	cps
Silicon	28-1	13344300	13336655	13300406	13327120	0.18	cps
Silver	107-1	24799	25744	25427	25323	1.90	cps
Silver	109-1	24301	24482	24198	24327	0.59	cps
Sodium	23-2	42736	42582	42515	42611	0.27	cps
Strontium	86-1	336474	346962	347485	343640	1.81	cps
Strontium	88-1	3042240	3127514	3135690	3101815	1.67	cps
Sulfur	34-1	453156	459882	462708	458582	1.07	cps
Terbium	159-1	14641822	14539646	14801152	14660873	0.90	cps
Terbium	159-2	4383980	4490168	4399856	4424668	1.29	cps
Thallium	203-1	983	967	1010	987	2.22	cps
Thallium	205-1	2320	2387	2397	2368	1.76	cps
Tin	118-1	2574	2757	2750	2694	3.86	cps
Titanium	47-1	22591	22438	22986	22671	1.25	cps
Uranium	238-1	3717	3871	3797	3795	2.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-15	Instrumnet Name :	P8
Client Sample ID :	YE8F1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:35:10	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	16266	15585	15685	15846	2.32	cps
Ytterbium	172-1	6008	6208	6041	6086	1.76	cps
Ytterbium	172-2	2100	2127	2240	2156	3.45	cps
Ytterbium	176-1	5358	5505	5538	5467	1.75	cps
Ytterbium	176-2	1550	1543	1520	1538	1.02	cps
Yttrium	89-1	21563798	21243360	21544933	21450697	0.84	cps
Yttrium	89-2	1322026	1326539	1325655	1324740	0.18	cps
Zinc	66-2	31027	30473	31041	30847	1.05	cps
Zirconium	90-1	20632	20682	20902	20739	0.69	cps
Zirconium	91-1	4668	4567	5018	4751	4.98	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110120	110161	110260	110180	0.07	cps
Antimony	121-1	36445	37043	36766	36751	0.81	cps
Arsenic	75-2	27600	27991	27674	27755	0.75	cps
Barium	135-1	150330	154226	154247	152934	1.47	cps
Barium	137-1	260469	269378	272663	267504	2.36	cps
Beryllium	9-1	961	921	964	949	2.51	cps
Bismuth	209-1	8734252	8878198	8905697	8839382	1.04	cps
Bismuth	209-2	3201721	3030823	3165333	3132626	2.87	cps
Bromine	81-1	8256	8706	8759	8574	3.23	cps
Cadmium	108-1	263	200	250	238	14.04	cps
Cadmium	106-1	6532	6778	6872	6727	2.61	cps
Cadmium	111-1	3366	3503	3500	3456	2.26	cps
Calcium	43-1	153597	157224	158805	156542	1.71	cps
Calcium	44-1	2659235	2662549	2704199	2675328	0.94	cps
Carbon	12-1	4373553	4504812	4557920	4478762	2.12	cps
Carbon	12-2	31227	30542	30986	30918	1.12	cps
Chlorine	35-1	151704141	161326508	165600648	159543765	4.46	cps
Chlorine	35-2	626014	615189	623708	621637	0.92	cps
Chromium	52-2	9643	9330	9980	9651	3.37	cps
Cobalt	59-2	54096	54310	54159	54188	0.20	cps
Copper	63-2	307480	305395	311382	308086	0.99	cps
Dysprosium	156-1	20736	21260	20900	20965	1.28	cps
Dysprosium	156-2	7169	7339	7365	7291	1.46	cps
Erbium	164-1	19868	20716	20856	20480	2.61	cps
Erbium	164-2	6221	6275	6252	6249	0.43	cps
Gadolinium	160-1	22209	22873	22436	22506	1.50	cps
Gadolinium	160-2	8536	8620	8603	8586	0.51	cps
Holmium	165-1	14386375	14369754	14799006	14518378	1.67	cps
Holmium	165-2	4509751	4327916	4523364	4453677	2.45	cps
Indium	115-1	11470207	11327639	11437010	11411618	0.65	cps
Indium	115-2	993440	947573	993209	978074	2.70	cps
Iron	54-2	3245830	3259728	3328792	3278117	1.36	cps
Iron	56-2	60159779	59429184	59927081	59838681	0.62	cps
Iron	57-2	1528621	1532059	1530585	1530422	0.11	cps
Krypton	83-1	177	190	183	183	3.64	cps
Lead	206-1	928689	947102	959124	944972	1.62	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	767459	790179	793507	783715	1.81	cps
Lead	208-1	3749994	3832547	3876574	3819705	1.68	cps
Lithium	6-1	6073053	5834795	5880681	5929510	2.13	cps
Magnesium	24-2	260413	261486	261153	261017	0.21	cps
Manganese	55-2	469232	466547	467550	467776	0.29	cps
Molybdenum	94-1	15042	15929	15866	15612	3.17	cps
Molybdenum	95-1	15482	15449	15819	15583	1.31	cps
Molybdenum	96-1	18159	18870	18963	18664	2.36	cps
Molybdenum	97-1	9830	9700	10117	9882	2.16	cps
Molybdenum	98-1	24629	25253	25694	25192	2.12	cps
Neodymium	150-1	19634	20002	20409	20015	1.94	cps
Neodymium	150-2	4321	4471	4404	4399	1.71	cps
Nickel	60-2	50646	48863	51118	50209	2.37	cps
Phosphorus	31-2	3814	4091	3704	3869	5.15	cps
Potassium	39-2	63696	64433	64195	64108	0.59	cps
Rhodium	103-1	10494952	10365409	10591927	10484096	1.08	cps
Rhodium	103-2	3799789	3573128	3758272	3710396	3.25	cps
Scandium	45-1	8723162	8571279	8732425	8675622	1.04	cps
Scandium	45-2	142296	133941	140954	139063	3.23	cps
Selenium	82-1	387	407	553	449	20.27	cps
Selenium	77-2	43	27	43	38	25.46	cps
Selenium	78-2	40	53	60	51	19.92	cps
Silicon	28-1	13604970	13890949	13832777	13776232	1.10	cps
Silver	107-1	23203	24228	24398	23943	2.70	cps
Silver	109-1	22629	22862	22782	22758	0.52	cps
Sodium	23-2	53183	54103	54203	53830	1.04	cps
Strontium	86-1	200210	205764	206908	204294	1.75	cps
Strontium	88-1	1818493	1859259	1840033	1839262	1.11	cps
Sulfur	34-1	375942	379907	383768	379872	1.03	cps
Terbium	159-1	14657379	14736365	14727516	14707087	0.29	cps
Terbium	159-2	4436262	4200910	4380166	4339113	2.83	cps
Thallium	203-1	1397	1523	1500	1473	4.58	cps
Thallium	205-1	3370	3637	3624	3544	4.24	cps
Tin	118-1	6515	6745	7165	6808	4.84	cps
Titanium	47-1	25733	26241	26545	26173	1.57	cps
Uranium	238-1	5151	5341	5308	5267	1.93	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-16	Instrumnet Name :	P8
Client Sample ID :	YE8F2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:38:30	DataFile Name :	111AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	12322	12245	12856	12474	2.67	cps
Ytterbium	172-1	5238	5251	5381	5290	1.50	cps
Ytterbium	172-2	1994	1990	1887	1957	3.10	cps
Ytterbium	176-1	4808	5048	4854	4903	2.60	cps
Ytterbium	176-2	1463	1427	1463	1451	1.46	cps
Yttrium	89-1	21463290	21303080	21601955	21456108	0.70	cps
Yttrium	89-2	1322210	1264399	1324601	1303737	2.61	cps
Zinc	66-2	89124	90043	91144	90104	1.12	cps
Zirconium	90-1	18256	18175	18406	18279	0.64	cps
Zirconium	91-1	4107	4524	4397	4343	4.92	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	155258	155794	155067	155373	0.24	cps
Antimony	121-1	37932	38421	38952	38435	1.33	cps
Arsenic	75-2	35909	36043	36614	36189	1.03	cps
Barium	135-1	193498	200220	201806	198508	2.22	cps
Barium	137-1	340521	349942	352437	347633	1.81	cps
Beryllium	9-1	1237	1232	1244	1238	0.46	cps
Bismuth	209-1	8571211	8696629	8697332	8655057	0.84	cps
Bismuth	209-2	3197404	3090962	3208442	3165603	2.05	cps
Bromine	81-1	7625	8029	7959	7871	2.74	cps
Cadmium	108-1	290	347	293	310	10.26	cps
Cadmium	106-1	6708	6902	7122	6911	2.99	cps
Cadmium	111-1	3132	3091	3259	3161	2.77	cps
Calcium	43-1	1733751	1823254	1795491	1784165	2.57	cps
Calcium	44-1	27863692	28840100	28765925	28489906	1.91	cps
Carbon	12-1	2819213	2838920	2819180	2825771	0.40	cps
Carbon	12-2	19066	18378	18602	18682	1.88	cps
Chlorine	35-1	136171341	144039855	145965158	142058785	3.65	cps
Chlorine	35-2	543172	546332	547986	545830	0.45	cps
Chromium	52-2	11875	12109	11488	11824	2.65	cps
Cobalt	59-2	66856	67442	66920	67073	0.48	cps
Copper	63-2	273809	275940	275580	275110	0.41	cps
Dysprosium	156-1	23961	24599	24456	24339	1.37	cps
Dysprosium	156-2	8166	8493	8590	8416	2.64	cps
Erbium	164-1	23558	24446	24920	24308	2.85	cps
Erbium	164-2	7365	7629	7315	7437	2.26	cps
Gadolinium	160-1	26316	26797	26440	26517	0.94	cps
Gadolinium	160-2	10254	9920	10037	10071	1.68	cps
Holmium	165-1	14115438	14443769	14360846	14306684	1.19	cps
Holmium	165-2	4694689	4545844	4623240	4621258	1.61	cps
Indium	115-1	11093894	11188441	11448073	11243469	1.63	cps
Indium	115-2	1022900	987807	999805	1003504	1.78	cps
Iron	54-2	3872331	3868416	3825676	3855474	0.67	cps
Iron	56-2	70102034	71713337	70678761	70831377	1.15	cps
Iron	57-2	1814742	1799165	1800509	1804805	0.48	cps
Krypton	83-1	190	173	160	174	8.62	cps
Lead	206-1	879742	894291	906177	893403	1.48	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	726888	742817	749121	739608	1.55	cps
Lead	208-1	3545622	3624005	3665294	3611640	1.68	cps
Lithium	6-1	5820971	5660880	5859303	5780384	1.82	cps
Magnesium	24-2	1399743	1389402	1386646	1391930	0.50	cps
Manganese	55-2	651054	648286	647564	648968	0.28	cps
Molybdenum	94-1	35856	36982	36508	36449	1.55	cps
Molybdenum	95-1	17021	17081	17424	17175	1.27	cps
Molybdenum	96-1	22902	22956	23937	23265	2.50	cps
Molybdenum	97-1	10347	10584	10374	10435	1.24	cps
Molybdenum	98-1	26976	27360	26919	27085	0.89	cps
Neodymium	150-1	23350	23875	23941	23722	1.36	cps
Neodymium	150-2	5138	5204	5334	5226	1.91	cps
Nickel	60-2	60605	59718	60682	60335	0.89	cps
Phosphorus	31-2	3134	3217	3274	3208	2.20	cps
Potassium	39-2	64537	65076	65494	65036	0.74	cps
Rhodium	103-1	10366451	10310143	10445126	10373907	0.65	cps
Rhodium	103-2	3893009	3741260	3744463	3792910	2.29	cps
Scandium	45-1	8640596	8722629	8697072	8686766	0.48	cps
Scandium	45-2	147603	142067	143787	144486	1.96	cps
Selenium	82-1	437	423	527	462	12.16	cps
Selenium	77-2	40	13	40	31	49.50	cps
Selenium	78-2	70	37	37	48	40.27	cps
Silicon	28-1	12580106	13214249	12813156	12869170	2.49	cps
Silver	107-1	21634	22545	22311	22163	2.14	cps
Silver	109-1	20566	20883	21146	20865	1.39	cps
Sodium	23-2	51246	50975	52317	51513	1.38	cps
Strontium	86-1	947433	966556	980595	964861	1.73	cps
Strontium	88-1	8360557	8579131	8692891	8544193	1.98	cps
Sulfur	34-1	499962	507371	510734	506023	1.09	cps
Terbium	159-1	14467986	14567497	14846556	14627346	1.34	cps
Terbium	159-2	4501555	4467467	4464109	4477711	0.46	cps
Thallium	203-1	1513	1500	1610	1541	3.90	cps
Thallium	205-1	3897	3651	3921	3823	3.91	cps
Tin	118-1	5791	5945	6135	5957	2.89	cps
Titanium	47-1	11832	12299	12279	12136	2.18	cps
Uranium	238-1	8109	8823	8580	8504	4.27	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-17	Instrumnet Name :	P8
Client Sample ID :	YE8F3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:41:48	DataFile Name :	112AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13940	14464	13693	14033	2.80	cps
Ytterbium	172-1	6161	6262	6355	6259	1.55	cps
Ytterbium	172-2	2247	2147	2277	2224	3.06	cps
Ytterbium	176-1	5671	5841	6158	5890	4.19	cps
Ytterbium	176-2	1627	1670	1603	1633	2.07	cps
Yttrium	89-1	21500396	21462648	21496349	21486464	0.10	cps
Yttrium	89-2	1419600	1328611	1342395	1363535	3.60	cps
Zinc	66-2	51938	51798	51958	51898	0.17	cps
Zirconium	90-1	74498	75141	74963	74867	0.44	cps
Zirconium	91-1	16320	16867	17141	16776	2.49	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	74681	75639	73049	74456	1.76	cps
Antimony	121-1	18092	18766	19070	18643	2.68	cps
Arsenic	75-2	18025	17992	18148	18055	0.46	cps
Barium	135-1	147927	150169	150141	149412	0.86	cps
Barium	137-1	257539	261376	262825	260580	1.05	cps
Beryllium	9-1	700	677	750	709	5.23	cps
Bismuth	209-1	8760891	8735229	8777250	8757790	0.24	cps
Bismuth	209-2	3208994	3242582	3110615	3187397	2.15	cps
Bromine	81-1	8393	8523	8419	8445	0.81	cps
Cadmium	108-1	213	200	263	226	14.80	cps
Cadmium	106-1	6668	6692	6438	6599	2.12	cps
Cadmium	111-1	3728	3629	3584	3647	2.03	cps
Calcium	43-1	233952	235782	238756	236163	1.03	cps
Calcium	44-1	3984748	3883171	3990418	3952779	1.53	cps
Carbon	12-1	4219350	4303580	4274903	4265944	1.00	cps
Carbon	12-2	28965	28438	29009	28804	1.10	cps
Chlorine	35-1	135859995	140049741	144667861	140192532	3.14	cps
Chlorine	35-2	534370	530202	535719	533430	0.54	cps
Chromium	52-2	7872	7832	7839	7848	0.27	cps
Cobalt	59-2	31789	31805	31348	31647	0.82	cps
Copper	63-2	143618	142991	144735	143781	0.61	cps
Dysprosium	156-1	19775	19711	20282	19923	1.57	cps
Dysprosium	156-2	6752	6602	6748	6701	1.28	cps
Erbium	164-1	22419	22813	22262	22498	1.26	cps
Erbium	164-2	6658	6785	6808	6751	1.20	cps
Gadolinium	160-1	21204	22045	22322	21857	2.66	cps
Gadolinium	160-2	7942	7906	8093	7980	1.24	cps
Holmium	165-1	14519400	14212614	14395705	14375906	1.07	cps
Holmium	165-2	4526892	4700119	4460025	4562346	2.72	cps
Indium	115-1	11430401	11446776	11484470	11453882	0.24	cps
Indium	115-2	996522	1023977	973918	998139	2.51	cps
Iron	54-2	3080635	3045628	3043631	3056631	0.68	cps
Iron	56-2	56124253	55347394	55339546	55603731	0.81	cps
Iron	57-2	1417762	1336483	1332323	1362189	3.54	cps
Krypton	83-1	187	243	157	196	22.51	cps
Lead	206-1	562592	567676	572288	567519	0.85	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	462565	469628	470219	467471	0.91	cps
Lead	208-1	2174974	2193024	2203990	2190663	0.67	cps
Lithium	6-1	5859157	5806332	5669654	5778381	1.69	cps
Magnesium	24-2	230931	231485	230953	231123	0.14	cps
Manganese	55-2	613843	606739	610058	610213	0.58	cps
Molybdenum	94-1	7842	8741	8814	8466	6.39	cps
Molybdenum	95-1	8453	8172	8256	8294	1.73	cps
Molybdenum	96-1	9764	10271	10721	10252	4.67	cps
Molybdenum	97-1	5158	5004	5298	5153	2.85	cps
Molybdenum	98-1	13226	13373	13750	13450	2.01	cps
Neodymium	150-1	17969	18600	18726	18432	2.20	cps
Neodymium	150-2	4084	3997	4267	4116	3.35	cps
Nickel	60-2	19337	19467	19170	19324	0.77	cps
Phosphorus	31-2	6105	6195	5781	6027	3.61	cps
Potassium	39-2	39106	39557	40160	39608	1.34	cps
Rhodium	103-1	10532613	10500253	10433726	10488864	0.48	cps
Rhodium	103-2	3782794	3905698	3722882	3803791	2.45	cps
Scandium	45-1	8562942	8530339	8653045	8582109	0.74	cps
Scandium	45-2	141146	146202	139056	142134	2.58	cps
Selenium	82-1	150	183	150	161	11.95	cps
Selenium	77-2	23	20	40	28	38.58	cps
Selenium	78-2	30	37	50	39	26.18	cps
Silicon	28-1	10269455	10453926	10083464	10268948	1.80	cps
Silver	107-1	7072	6818	6765	6885	2.38	cps
Silver	109-1	6528	6748	6345	6541	3.09	cps
Sodium	23-2	39640	39734	40827	40067	1.65	cps
Strontium	86-1	356357	361832	365054	361081	1.22	cps
Strontium	88-1	3257494	3267523	3316050	3280356	0.95	cps
Sulfur	34-1	401323	402260	406850	403477	0.73	cps
Terbium	159-1	14699846	14248637	14720499	14556327	1.83	cps
Terbium	159-2	4376443	4478398	4314508	4389783	1.89	cps
Thallium	203-1	887	970	863	907	6.19	cps
Thallium	205-1	2070	2174	2154	2132	2.57	cps
Tin	118-1	6478	6645	6802	6642	2.44	cps
Titanium	47-1	49130	48431	49943	49168	1.54	cps
Uranium	238-1	8590	8590	8516	8565	0.49	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-18	Instrumnet Name :	P8
Client Sample ID :	YE8F4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:45:05	DataFile Name :	113AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14771	14160	14104	14345	2.58	cps
Ytterbium	172-1	6518	6638	6788	6648	2.04	cps
Ytterbium	172-2	2520	2460	2480	2487	1.23	cps
Ytterbium	176-1	5895	5735	5711	5780	1.73	cps
Ytterbium	176-2	1667	1853	1723	1748	5.48	cps
Yttrium	89-1	21591692	21244594	21542548	21459611	0.88	cps
Yttrium	89-2	1406634	1437683	1296345	1380221	5.38	cps
Zinc	66-2	105448	106711	105599	105919	0.65	cps
Zirconium	90-1	8966	10149	10038	9718	6.72	cps
Zirconium	91-1	2294	2314	2387	2331	2.11	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	667212	672646	666269	668709	0.51	cps
Antimony	121-1	41774	42285	41439	41833	1.02	cps
Arsenic	75-2	34910	34856	34672	34813	0.36	cps
Barium	135-1	231177	238921	238574	236224	1.85	cps
Barium	137-1	404046	415836	412480	410787	1.48	cps
Beryllium	9-1	2254	2349	2329	2310	2.17	cps
Bismuth	209-1	8517854	8758526	8592671	8623017	1.43	cps
Bismuth	209-2	3152974	3127744	3149210	3143309	0.43	cps
Bromine	81-1	7412	7986	7769	7722	3.75	cps
Cadmium	108-1	393	417	350	387	8.75	cps
Cadmium	106-1	6878	6999	7382	7086	3.71	cps
Cadmium	111-1	4431	4809	5015	4752	6.24	cps
Calcium	43-1	841858	864154	856230	854081	1.32	cps
Calcium	44-1	14035017	14311357	14361596	14235990	1.24	cps
Carbon	12-1	4282287	4426356	4434533	4381059	1.95	cps
Carbon	12-2	29784	30188	30468	30146	1.14	cps
Chlorine	35-1	130226631	139641405	140760161	136876066	4.23	cps
Chlorine	35-2	529627	530958	530845	530477	0.14	cps
Chromium	52-2	91600	90947	92802	91783	1.03	cps
Cobalt	59-2	197709	199240	199521	198823	0.49	cps
Copper	63-2	516605	515968	516918	516497	0.09	cps
Dysprosium	156-1	46945	47079	47648	47224	0.79	cps
Dysprosium	156-2	14818	15352	15356	15175	2.04	cps
Erbium	164-1	44176	44313	44748	44413	0.67	cps
Erbium	164-2	13440	13363	13604	13469	0.91	cps
Gadolinium	160-1	47712	47809	47772	47764	0.10	cps
Gadolinium	160-2	17468	17575	17839	17627	1.08	cps
Holmium	165-1	14432510	14367789	14481879	14427392	0.40	cps
Holmium	165-2	4565738	4594314	4498483	4552845	1.08	cps
Indium	115-1	11228084	11230653	11268022	11242253	0.20	cps
Indium	115-2	982535	992303	984453	986430	0.52	cps
Iron	54-2	6712574	6784364	6742542	6746494	0.53	cps
Iron	56-2	123793108	124629695	124841678	124421494	0.45	cps
Iron	57-2	3189323	3178670	3157073	3175022	0.52	cps
Krypton	83-1	193	187	240	207	14.06	cps
Lead	206-1	256374	260159	260536	259023	0.89	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	212065	214142	217363	214524	1.24	cps
Lead	208-1	996711	1013746	1013833	1008097	0.98	cps
Lithium	6-1	5917563	5758328	5892982	5856291	1.46	cps
Magnesium	24-2	2771900	2752770	2802168	2775613	0.90	cps
Manganese	55-2	1243070	1248501	1245205	1245592	0.22	cps
Molybdenum	94-1	28202	28743	29074	28673	1.53	cps
Molybdenum	95-1	28275	29241	29144	28887	1.84	cps
Molybdenum	96-1	34306	34195	34162	34221	0.22	cps
Molybdenum	97-1	17651	17855	17955	17820	0.87	cps
Molybdenum	98-1	45371	46113	45785	45756	0.81	cps
Neodymium	150-1	57024	58410	56933	57455	1.44	cps
Neodymium	150-2	13120	12416	12953	12830	2.87	cps
Nickel	60-2	179534	180083	178686	179434	0.39	cps
Phosphorus	31-2	4901	4894	4994	4930	1.13	cps
Potassium	39-2	93467	94288	93618	93791	0.47	cps
Rhodium	103-1	10320049	10375419	10299264	10331578	0.38	cps
Rhodium	103-2	3684078	3730075	3727152	3713768	0.69	cps
Scandium	45-1	8625621	8815567	8763161	8734783	1.12	cps
Scandium	45-2	144680	143983	143181	143948	0.52	cps
Selenium	82-1	370	350	313	344	8.34	cps
Selenium	77-2	57	63	67	62	8.18	cps
Selenium	78-2	60	63	53	59	8.65	cps
Silicon	28-1	26994149	26963071	26505417	26820879	1.02	cps
Silver	107-1	10401	11041	10594	10679	3.08	cps
Silver	109-1	10087	10424	10711	10407	3.00	cps
Sodium	23-2	57416	58460	57948	57941	0.90	cps
Strontium	86-1	604704	618204	615195	612701	1.16	cps
Strontium	88-1	5543833	5568515	5605511	5572620	0.56	cps
Sulfur	34-1	487504	493890	491784	491059	0.66	cps
Terbium	159-1	14603816	14557760	14815277	14658951	0.94	cps
Terbium	159-2	4369162	4425897	4478672	4424577	1.24	cps
Thallium	203-1	1823	1924	1980	1909	4.16	cps
Thallium	205-1	4344	4734	4678	4585	4.60	cps
Tin	118-1	4431	8385	4808	5874	37.15	cps
Titanium	47-1	370140	380467	380630	377079	1.59	cps
Uranium	238-1	16758	16778	17175	16904	1.39	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-19	Instrumnet Name :	P8
Client Sample ID :	YE8F6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:48:23	DataFile Name :	114AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	89685	87904	87639	88409	1.26	cps
Ytterbium	172-1	13053	12860	13163	13025	1.18	cps
Ytterbium	172-2	4564	4387	4564	4505	2.26	cps
Ytterbium	176-1	9357	9617	10054	9676	3.64	cps
Ytterbium	176-2	3240	3127	3050	3139	3.05	cps
Yttrium	89-1	21854976	21660096	21668039	21727703	0.51	cps
Yttrium	89-2	1348713	1348316	1350673	1349234	0.09	cps
Zinc	66-2	66143	65705	65684	65844	0.39	cps
Zirconium	90-1	32982	33714	35216	33971	3.35	cps
Zirconium	91-1	7569	7632	8109	7770	3.80	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1402023	1372428	1370073	1381508	1.29	cps
Antimony	121-1	21340	21046	21674	21353	1.47	cps
Arsenic	75-2	4324	4521	4154	4333	4.24	cps
Barium	135-1	469920	477323	478881	475375	1.01	cps
Barium	137-1	813512	826855	839591	826653	1.58	cps
Beryllium	9-1	3081	2994	3065	3047	1.53	cps
Bismuth	209-1	8591694	8596736	8585654	8591361	0.06	cps
Bismuth	209-2	3104603	3034016	3082112	3073577	1.17	cps
Bromine	81-1	7139	6792	7025	6985	2.53	cps
Cadmium	108-1	240	210	223	224	6.70	cps
Cadmium	106-1	6455	6685	6648	6596	1.87	cps
Cadmium	111-1	2660	2743	2970	2791	5.75	cps
Calcium	43-1	181047	183895	185135	183359	1.14	cps
Calcium	44-1	3025122	3097378	3115840	3079447	1.56	cps
Carbon	12-1	2321467	2365011	2298423	2328301	1.45	cps
Carbon	12-2	15738	16196	16182	16039	1.62	cps
Chlorine	35-1	130444555	139017911	141884498	137115655	4.34	cps
Chlorine	35-2	525946	529033	527505	527495	0.29	cps
Chromium	52-2	80803	80726	80012	80514	0.54	cps
Cobalt	59-2	176033	176117	174582	175577	0.49	cps
Copper	63-2	403591	405871	403656	404373	0.32	cps
Dysprosium	156-1	33776	33612	34895	34095	2.05	cps
Dysprosium	156-2	10374	10421	10461	10419	0.42	cps
Erbium	164-1	32924	33519	34033	33492	1.66	cps
Erbium	164-2	10354	10347	10237	10313	0.64	cps
Gadolinium	160-1	31176	33021	32777	32325	3.10	cps
Gadolinium	160-2	12162	12132	11932	12076	1.04	cps
Holmium	165-1	14365199	14240016	14423346	14342854	0.65	cps
Holmium	165-2	4522035	4502510	4491409	4505318	0.34	cps
Indium	115-1	11082793	11334596	11421892	11279760	1.56	cps
Indium	115-2	971834	974092	972633	972853	0.12	cps
Iron	54-2	7236478	7140189	7185830	7187499	0.67	cps
Iron	56-2	132775595	132332918	133158261	132755591	0.31	cps
Iron	57-2	3377605	3369703	3414569	3387293	0.71	cps
Krypton	83-1	163	210	197	190	12.65	cps
Lead	206-1	205140	209824	208381	207782	1.15	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	171260	172972	173985	172739	0.80	cps
Lead	208-1	793808	808380	808939	803709	1.07	cps
Lithium	6-1	5771193	5959683	5837727	5856201	1.63	cps
Magnesium	24-2	3060191	3077995	3004753	3047647	1.25	cps
Manganese	55-2	763776	765512	761415	763568	0.27	cps
Molybdenum	94-1	35137	35455	35185	35259	0.49	cps
Molybdenum	95-1	29608	30734	30256	30200	1.87	cps
Molybdenum	96-1	35900	36177	36708	36262	1.13	cps
Molybdenum	97-1	18082	18295	18689	18356	1.68	cps
Molybdenum	98-1	46829	48508	48802	48046	2.22	cps
Neodymium	150-1	44259	44356	45135	44584	1.08	cps
Neodymium	150-2	9900	9924	10020	9948	0.64	cps
Nickel	60-2	80680	80489	79909	80359	0.50	cps
Phosphorus	31-2	2680	2414	2734	2609	6.57	cps
Potassium	39-2	309402	307914	303972	307096	0.91	cps
Rhodium	103-1	10141775	10363584	10324638	10276666	1.15	cps
Rhodium	103-2	3728482	3695227	3646202	3689970	1.12	cps
Scandium	45-1	8569187	8634379	8657873	8620480	0.53	cps
Scandium	45-2	140784	141771	141411	141322	0.35	cps
Selenium	82-1	313	300	247	287	12.30	cps
Selenium	77-2	67	37	47	50	30.55	cps
Selenium	78-2	30	53	33	39	32.45	cps
Silicon	28-1	34629011	35191880	34993256	34938049	0.82	cps
Silver	107-1	5301	4841	5251	5131	4.92	cps
Silver	109-1	4624	5064	4781	4823	4.63	cps
Sodium	23-2	89559	89354	89234	89383	0.18	cps
Strontium	86-1	79307	80248	81050	80202	1.09	cps
Strontium	88-1	671950	685869	691945	683255	1.50	cps
Sulfur	34-1	820652	827697	819311	822553	0.55	cps
Terbium	159-1	14269417	15015097	14856129	14713548	2.67	cps
Terbium	159-2	4382246	4421919	4407521	4403895	0.46	cps
Thallium	203-1	1150	1050	1000	1067	7.16	cps
Thallium	205-1	2537	2527	2550	2538	0.46	cps
Tin	118-1	6318	6218	6595	6377	3.06	cps
Titanium	47-1	1656511	1663247	1673366	1664375	0.51	cps
Uranium	238-1	18597	18847	18160	18535	1.88	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-20	Instrumnet Name :	P8
Client Sample ID :	YE8G0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:51:42	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	103165	103097	103212	103158	0.06	cps
Ytterbium	172-1	10521	10825	10508	10618	1.69	cps
Ytterbium	172-2	3804	4021	3821	3882	3.11	cps
Ytterbium	176-1	8293	8463	8363	8373	1.02	cps
Ytterbium	176-2	2594	2700	2550	2615	2.95	cps
Yttrium	89-1	21473504	21423275	21447041	21447940	0.12	cps
Yttrium	89-2	1315910	1317334	1306797	1313347	0.44	cps
Zinc	66-2	47222	47008	47075	47101	0.23	cps
Zirconium	90-1	47557	51927	49748	49744	4.39	cps
Zirconium	91-1	13502	10671	10914	11696	13.42	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1387156	1389045	1382571	1386257	0.24	cps
Antimony	121-1	12226	12950	13170	12782	3.86	cps
Arsenic	75-2	5448	5278	5518	5414	2.28	cps
Barium	135-1	468350	473072	479514	473645	1.18	cps
Barium	137-1	812150	829450	836118	825906	1.50	cps
Beryllium	9-1	3599	3445	3546	3530	2.21	cps
Bismuth	209-1	8587902	8510134	7984618	8360885	3.93	cps
Bismuth	209-2	3034884	3045232	3109728	3063281	1.32	cps
Bromine	81-1	6592	6832	6752	6725	1.82	cps
Cadmium	108-1	283	280	313	292	6.28	cps
Cadmium	106-1	6485	6702	6258	6482	3.42	cps
Cadmium	111-1	3012	3138	2956	3035	3.07	cps
Calcium	43-1	497096	508335	512537	505989	1.58	cps
Calcium	44-1	8385143	8512320	8519752	8472405	0.89	cps
Carbon	12-1	2390020	2351325	2347658	2363001	0.99	cps
Carbon	12-2	15959	15832	15869	15886	0.41	cps
Chlorine	35-1	131447215	137700011	140306611	136484612	3.34	cps
Chlorine	35-2	525448	522377	529463	525763	0.68	cps
Chromium	52-2	80746	79325	81282	80451	1.26	cps
Cobalt	59-2	173375	172960	173583	173306	0.18	cps
Copper	63-2	409675	405377	410628	408560	0.68	cps
Dysprosium	156-1	29162	29075	29606	29281	0.97	cps
Dysprosium	156-2	9450	9373	9994	9606	3.52	cps
Erbium	164-1	29489	30114	29790	29798	1.05	cps
Erbium	164-2	9063	9010	9463	9179	2.70	cps
Gadolinium	160-1	29676	29907	30147	29910	0.79	cps
Gadolinium	160-2	10965	10885	11498	11116	3.00	cps
Holmium	165-1	14251256	14094776	13429318	13925117	3.13	cps
Holmium	165-2	4560289	4509271	4555062	4541541	0.62	cps
Indium	115-1	11250565	11042033	10497374	10929991	3.56	cps
Indium	115-2	966297	964847	980368	970504	0.88	cps
Iron	54-2	6942602	6833000	6901905	6892502	0.80	cps
Iron	56-2	128077725	125976878	127239868	127098157	0.83	cps
Iron	57-2	3253323	3194279	3208457	3218686	0.96	cps
Krypton	83-1	210	200	233	214	7.98	cps
Lead	206-1	202947	206250	208997	206065	1.47	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	168065	170490	173189	170581	1.50	cps
Lead	208-1	785361	801014	806002	797459	1.35	cps
Lithium	6-1	5980894	5826292	5383840	5730342	5.41	cps
Magnesium	24-2	3130553	3046019	3136390	3104321	1.63	cps
Manganese	55-2	1168032	1173205	1172405	1171214	0.24	cps
Molybdenum	94-1	56853	57237	58118	57403	1.13	cps
Molybdenum	95-1	49180	51050	52010	50747	2.84	cps
Molybdenum	96-1	59031	61565	61599	60732	2.43	cps
Molybdenum	97-1	31419	31195	32264	31626	1.78	cps
Molybdenum	98-1	81031	82651	83834	82505	1.71	cps
Neodymium	150-1	34407	34772	34975	34718	0.83	cps
Neodymium	150-2	7769	7339	7909	7672	3.87	cps
Nickel	60-2	146764	146539	147529	146944	0.35	cps
Phosphorus	31-2	3180	3257	3257	3232	1.37	cps
Potassium	39-2	439763	434784	439623	438056	0.65	cps
Rhodium	103-1	10286612	10046173	9410864	9914550	4.56	cps
Rhodium	103-2	3547854	3634282	3732613	3638250	2.54	cps
Scandium	45-1	8653719	8338022	7980403	8324048	4.05	cps
Scandium	45-2	139637	139634	143121	140797	1.43	cps
Selenium	82-1	280	277	213	257	14.64	cps
Selenium	77-2	27	20	57	34	56.70	cps
Selenium	78-2	47	60	43	50	17.64	cps
Silicon	28-1	38947829	39906357	39157525	39337237	1.28	cps
Silver	107-1	4461	4434	4524	4473	1.03	cps
Silver	109-1	3857	4184	4137	4060	4.35	cps
Sodium	23-2	127108	128561	128301	127990	0.61	cps
Strontium	86-1	125695	129950	130173	128606	1.96	cps
Strontium	88-1	1088901	1106381	1123143	1106142	1.55	cps
Sulfur	34-1	1216683	1217896	1222503	1219027	0.25	cps
Terbium	159-1	14856583	14281294	13696214	14278030	4.06	cps
Terbium	159-2	4284927	4261970	4433306	4326734	2.15	cps
Thallium	203-1	1080	1223	1100	1135	6.84	cps
Thallium	205-1	2627	2570	2727	2641	3.00	cps
Tin	118-1	5208	5191	5525	5308	3.54	cps
Titanium	47-1	968479	980750	992975	980735	1.25	cps
Uranium	238-1	12650	13147	13207	13001	2.35	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-21	Instrumnet Name :	P8
Client Sample ID :	YE8G1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:54:58	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	100345	99787	100281	100138	0.30	cps
Ytterbium	172-1	9997	9991	10317	10102	1.85	cps
Ytterbium	172-2	3804	3717	3731	3751	1.24	cps
Ytterbium	176-1	8246	8176	8499	8307	2.05	cps
Ytterbium	176-2	2910	2477	2714	2700	8.04	cps
Yttrium	89-1	21483273	20826906	19973174	20761117	3.65	cps
Yttrium	89-2	1317047	1317000	1328408	1320818	0.50	cps
Zinc	66-2	57935	57995	58149	58026	0.19	cps
Zirconium	90-1	74468	74956	76891	75438	1.70	cps
Zirconium	91-1	17128	17652	17793	17524	2.00	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1829978	1842584	1807812	1826791	0.96	cps
Antimony	121-1	5811	5551	5931	5765	3.37	cps
Arsenic	75-2	5138	5288	5168	5198	1.53	cps
Barium	135-1	430773	438353	440990	436706	1.21	cps
Barium	137-1	748514	763774	767510	759933	1.32	cps
Beryllium	9-1	5664	5463	5467	5531	2.08	cps
Bismuth	209-1	8333060	8483299	8571875	8462745	1.43	cps
Bismuth	209-2	3071290	3111502	3069221	3084004	0.77	cps
Bromine	81-1	6768	7042	7395	7069	4.45	cps
Cadmium	108-1	287	247	277	270	7.71	cps
Cadmium	106-1	6778	6848	6888	6838	0.81	cps
Cadmium	111-1	3815	4104	3994	3971	3.67	cps
Calcium	43-1	298043	302232	305098	301791	1.18	cps
Calcium	44-1	5050902	4983048	5070465	5034805	0.91	cps
Carbon	12-1	2299572	2283383	2294459	2292471	0.36	cps
Carbon	12-2	15585	15725	15919	15743	1.06	cps
Chlorine	35-1	153155368	159511014	161617474	158094619	2.79	cps
Chlorine	35-2	599570	603856	600971	601466	0.36	cps
Chromium	52-2	115780	114503	115518	115267	0.59	cps
Cobalt	59-2	417352	415592	415008	415984	0.29	cps
Copper	63-2	374874	373983	374806	374554	0.13	cps
Dysprosium	156-1	127770	131509	133323	130867	2.16	cps
Dysprosium	156-2	39154	39398	39201	39251	0.33	cps
Erbium	164-1	114077	116793	118037	116303	1.74	cps
Erbium	164-2	35003	34963	35186	35051	0.34	cps
Gadolinium	160-1	121722	124683	124817	123741	1.41	cps
Gadolinium	160-2	45333	45601	46675	45870	1.55	cps
Holmium	165-1	14131986	14110663	14806058	14349569	2.76	cps
Holmium	165-2	4589437	4546251	4506426	4547371	0.91	cps
Indium	115-1	10947921	11034900	11256101	11079641	1.43	cps
Indium	115-2	976420	976775	969676	974291	0.41	cps
Iron	54-2	11529228	11519894	11574696	11541273	0.25	cps
Iron	56-2	211967710	212871790	209362177	211400559	0.86	cps
Iron	57-2	5279512	5390888	5299145	5323182	1.12	cps
Krypton	83-1	327	350	337	338	3.47	cps
Lead	206-1	205797	208107	209160	207688	0.83	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	171746	173688	174846	173427	0.90	cps
Lead	208-1	800468	806336	813857	806887	0.83	cps
Lithium	6-1	5876299	5794762	5731806	5800956	1.25	cps
Magnesium	24-2	4224458	4150846	4242657	4205987	1.16	cps
Manganese	55-2	2709629	2777817	2748210	2745219	1.25	cps
Molybdenum	94-1	23253	23543	23584	23460	0.77	cps
Molybdenum	95-1	21533	21947	22044	21842	1.24	cps
Molybdenum	96-1	27450	28135	27775	27787	1.23	cps
Molybdenum	97-1	13370	13680	13807	13619	1.65	cps
Molybdenum	98-1	34783	34974	34643	34800	0.48	cps
Neodymium	150-1	163795	166492	167736	166008	1.21	cps
Neodymium	150-2	37338	37081	36707	37042	0.86	cps
Nickel	60-2	302165	301245	303400	302270	0.36	cps
Phosphorus	31-2	4447	4177	4111	4245	4.20	cps
Potassium	39-2	211784	211977	210140	211300	0.48	cps
Rhodium	103-1	10072102	10147927	10232511	10150847	0.79	cps
Rhodium	103-2	3761650	3648057	3659609	3689772	1.69	cps
Scandium	45-1	8599446	8592513	8659571	8617177	0.43	cps
Scandium	45-2	144875	143006	142266	143382	0.94	cps
Selenium	82-1	167	100	150	139	24.98	cps
Selenium	77-2	167	200	210	192	11.80	cps
Selenium	78-2	107	100	127	111	12.49	cps
Silicon	28-1	36764794	37174020	37321993	37086936	0.78	cps
Silver	107-1	3467	3454	3711	3544	4.08	cps
Silver	109-1	3117	3017	3337	3157	5.19	cps
Sodium	23-2	79690	79820	79501	79670	0.20	cps
Strontium	86-1	147353	148963	152178	149498	1.64	cps
Strontium	88-1	1257337	1281998	1291856	1277064	1.39	cps
Sulfur	34-1	373792	375623	376099	375171	0.32	cps
Terbium	159-1	14490779	14829166	14753917	14691287	1.21	cps
Terbium	159-2	4410130	4404254	4358140	4390841	0.65	cps
Thallium	203-1	2080	2030	1927	2012	3.89	cps
Thallium	205-1	4928	4974	4804	4902	1.79	cps
Tin	118-1	6001	6715	6692	6469	6.27	cps
Titanium	47-1	1337411	1344250	1348127	1343263	0.40	cps
Uranium	238-1	16491	16764	16871	16709	1.17	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-22	Instrumnet Name :	P8
Client Sample ID :	YE8G2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 16:58:15	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	135995	136382	134659	135679	0.67	cps
Ytterbium	172-1	29436	29145	29490	29357	0.63	cps
Ytterbium	172-2	10257	10714	10588	10520	2.24	cps
Ytterbium	176-1	19030	19688	20216	19645	3.02	cps
Ytterbium	176-2	6869	7312	7129	7103	3.14	cps
Yttrium	89-1	22380524	22571935	22658758	22537072	0.63	cps
Yttrium	89-2	1502578	1499846	1479397	1493940	0.85	cps
Zinc	66-2	110560	110678	111279	110839	0.35	cps
Zirconium	90-1	29368	30220	30946	30178	2.62	cps
Zirconium	91-1	6822	6945	7039	6935	1.57	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	80	117	106	21.03	cps
Antimony	121-1	53	20	57	43	46.79	cps
Arsenic	75-2	3	0	3	2	86.60	cps
Barium	135-1	190	173	190	184	5.21	cps
Barium	137-1	357	247	233	279	24.27	cps
Beryllium	9-1	205	175	166	182	11.16	cps
Bismuth	209-1	8487638	8427050	8314824	8409837	1.04	cps
Bismuth	209-2	3203435	3142015	3114596	3153349	1.44	cps
Bromine	81-1	6281	6058	6148	6163	1.82	cps
Cadmium	108-1	33	13	27	24	41.66	cps
Cadmium	106-1	5885	5708	5785	5792	1.53	cps
Cadmium	111-1	1190	1166	1155	1170	1.55	cps
Calcium	43-1	407	450	463	440	6.73	cps
Calcium	44-1	7906	7659	7532	7699	2.47	cps
Carbon	12-1	2124356	2035427	2049443	2069742	2.31	cps
Carbon	12-2	13073	13516	13276	13288	1.67	cps
Chlorine	35-1	7726085	7001517	6280126	7002576	10.32	cps
Chlorine	35-2	20628	19527	18031	19395	6.72	cps
Chromium	52-2	540	447	533	507	10.28	cps
Cobalt	59-2	83	143	140	122	27.59	cps
Copper	63-2	3537	3604	3140	3427	7.31	cps
Dysprosium	156-1	207	220	197	208	5.63	cps
Dysprosium	156-2	7	20	13	13	49.99	cps
Erbium	164-1	40	43	63	49	25.81	cps
Erbium	164-2	20	20	27	22	17.33	cps
Gadolinium	160-1	47	67	57	57	17.65	cps
Gadolinium	160-2	17	13	10	13	25.01	cps
Holmium	165-1	13782131	13646276	13645873	13691427	0.57	cps
Holmium	165-2	4522755	4356972	4403668	4427798	1.93	cps
Indium	115-1	11066518	10964700	10712199	10914472	1.67	cps
Indium	115-2	974693	968941	949200	964278	1.39	cps
Iron	54-2	863	773	843	827	5.72	cps
Iron	56-2	13216	12996	13276	13163	1.12	cps
Iron	57-2	353	313	370	346	8.43	cps
Krypton	83-1	127	127	153	136	11.36	cps
Lead	206-1	2234	2054	2064	2117	4.78	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1857	1870	1887	1871	0.80	cps
Lead	208-1	8458	8338	8511	8436	1.05	cps
Lithium	6-1	5985663	5717481	5842182	5848442	2.29	cps
Magnesium	24-2	613	610	510	578	10.16	cps
Manganese	55-2	420	343	380	381	10.06	cps
Molybdenum	94-1	350	270	243	288	19.29	cps
Molybdenum	95-1	120	150	113	128	15.29	cps
Molybdenum	96-1	230	243	213	229	6.57	cps
Molybdenum	97-1	100	120	63	94	30.43	cps
Molybdenum	98-1	197	213	253	221	13.17	cps
Neodymium	150-1	30	47	23	33	36.07	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	897	970	880	916	5.23	cps
Phosphorus	31-2	30	17	10	19	53.91	cps
Potassium	39-2	5181	5201	5221	5201	0.38	cps
Rhodium	103-1	10241079	9895357	9960824	10032420	1.83	cps
Rhodium	103-2	3714428	3615274	3593343	3641015	1.77	cps
Scandium	45-1	8161226	8096583	8036486	8098098	0.77	cps
Scandium	45-2	133552	130946	129807	131435	1.46	cps
Selenium	82-1	7	-27	-37	-19	-120.13	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	13	3	9	57.30	cps
Silicon	28-1	343755	339585	337818	340386	0.90	cps
Silver	107-1	127	147	160	144	11.61	cps
Silver	109-1	63	70	93	76	20.85	cps
Sodium	23-2	16036	15689	15215	15646	2.63	cps
Strontium	86-1	257	257	203	239	12.89	cps
Strontium	88-1	440	317	350	369	17.30	cps
Sulfur	34-1	322344	321558	323746	322549	0.34	cps
Terbium	159-1	14255763	13907511	13921238	14028171	1.41	cps
Terbium	159-2	4350640	4273248	4140380	4254756	2.50	cps
Thallium	203-1	220	247	247	238	6.48	cps
Thallium	205-1	573	450	597	540	14.60	cps
Tin	118-1	1113	1197	1160	1157	3.61	cps
Titanium	47-1	233	143	177	184	24.67	cps
Uranium	238-1	23	33	27	28	18.33	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BL	Instrumnet Name :	P8
Client Sample ID :	PBS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:01:32	DataFile Name :	118CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	17	12	31.50	cps
Ytterbium	172-1	80	97	67	81	18.53	cps
Ytterbium	172-2	23	23	20	22	8.65	cps
Ytterbium	176-1	1713	1607	1567	1629	4.65	cps
Ytterbium	176-2	163	203	220	196	14.89	cps
Yttrium	89-1	20295700	20017976	19777882	20030519	1.29	cps
Yttrium	89-2	1257004	1242650	1231967	1243874	1.01	cps
Zinc	66-2	197	213	273	228	17.70	cps
Zirconium	90-1	663	577	660	633	7.75	cps
Zirconium	91-1	167	150	163	160	5.51	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2003	2044	1807	1951	6.49	cps
Antimony	121-1	40597	41499	40968	41021	1.11	cps
Arsenic	75-2	400	433	353	396	10.16	cps
Barium	135-1	52277	53017	52294	52529	0.80	cps
Barium	137-1	91010	91211	91959	91393	0.55	cps
Beryllium	9-1	7951	8194	8051	8065	1.51	cps
Bismuth	209-1	8194801	8026815	7938865	8053494	1.61	cps
Bismuth	209-2	3042729	3038412	3035908	3039016	0.11	cps
Bromine	81-1	5748	5434	5598	5593	2.80	cps
Cadmium	108-1	430	507	387	441	13.78	cps
Cadmium	106-1	6265	6452	6358	6358	1.47	cps
Cadmium	111-1	6356	6530	6499	6462	1.43	cps
Calcium	43-1	47093	46829	47394	47106	0.60	cps
Calcium	44-1	723565	719824	727104	723498	0.50	cps
Carbon	12-1	2178877	2149374	2121044	2149765	1.35	cps
Carbon	12-2	13957	14124	13840	13973	1.02	cps
Chlorine	35-1	2479451	2555278	2566570	2533766	1.87	cps
Chlorine	35-2	9256	9283	9230	9256	0.29	cps
Chromium	52-2	9260	9186	8829	9092	2.53	cps
Cobalt	59-2	8349	8363	8329	8347	0.20	cps
Copper	63-2	16723	16396	15866	16328	2.65	cps
Dysprosium	156-1	170	170	130	157	14.74	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	57	60	40	52	20.52	cps
Erbium	164-2	23	10	10	14	53.28	cps
Gadolinium	160-1	17	37	30	28	36.66	cps
Gadolinium	160-2	10	7	3	7	50.03	cps
Holmium	165-1	13124349	13010425	12747128	12960634	1.49	cps
Holmium	165-2	4295610	4313084	4386952	4331882	1.12	cps
Indium	115-1	10304730	10285067	10091131	10226976	1.15	cps
Indium	115-2	933060	921414	943064	932513	1.16	cps
Iron	54-2	37195	37098	36717	37003	0.68	cps
Iron	56-2	682572	684842	672910	680108	0.93	cps
Iron	57-2	17184	17137	16817	17046	1.17	cps
Krypton	83-1	110	123	127	120	7.35	cps
Lead	206-1	18687	18927	19041	18885	0.96	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15903	16414	16374	16230	1.75	cps
Lead	208-1	73930	74748	74981	74553	0.74	cps
Lithium	6-1	5891636	5858792	5710741	5820390	1.66	cps
Magnesium	24-2	161846	157206	158578	159210	1.50	cps
Manganese	55-2	2117	2167	2120	2135	1.31	cps
Molybdenum	94-1	44310	45180	44752	44747	0.97	cps
Molybdenum	95-1	55008	54771	54048	54609	0.92	cps
Molybdenum	96-1	59336	60464	60571	60124	1.14	cps
Molybdenum	97-1	33263	33965	33383	33537	1.12	cps
Molybdenum	98-1	85695	86246	86142	86028	0.34	cps
Neodymium	150-1	27	27	20	24	15.75	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	3100	3047	3067	3071	0.88	cps
Phosphorus	31-2	127	130	120	126	4.06	cps
Potassium	39-2	94544	95708	93665	94639	1.08	cps
Rhodium	103-1	9335908	9359735	9327688	9341110	0.18	cps
Rhodium	103-2	3550059	3446915	3486086	3494353	1.49	cps
Scandium	45-1	7674896	7598491	7620062	7631149	0.52	cps
Scandium	45-2	126665	124167	127711	126181	1.44	cps
Selenium	82-1	1643	1867	1730	1747	6.45	cps
Selenium	77-2	23	27	33	28	18.33	cps
Selenium	78-2	63	97	110	90	26.71	cps
Silicon	28-1	532609	533887	536251	534249	0.35	cps
Silver	107-1	26342	27481	27294	27039	2.26	cps
Silver	109-1	25457	25444	25911	25604	1.04	cps
Sodium	23-2	335644	334703	333723	334690	0.29	cps
Strontium	86-1	1321711	1339633	1329956	1330434	0.67	cps
Strontium	88-1	12062909	12110452	12120715	12098025	0.25	cps
Sulfur	34-1	323399	324160	325078	324213	0.26	cps
Terbium	159-1	13410065	13168178	12995756	13191333	1.58	cps
Terbium	159-2	4112952	4047002	4228375	4129443	2.22	cps
Thallium	203-1	21768	22226	21728	21907	1.26	cps
Thallium	205-1	52402	51405	52723	52177	1.32	cps
Tin	118-1	88893	90577	91657	90376	1.54	cps
Titanium	47-1	19757	19360	19066	19394	1.79	cps
Uranium	238-1	65854	65887	66356	66032	0.43	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	PB166195BS	Instrumnet Name :	P8
Client Sample ID :	LCS195	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:11:16	DataFile Name :	119LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17094	16890	17374	17119	1.42	cps
Ytterbium	172-1	73	80	77	77	4.35	cps
Ytterbium	172-2	23	33	23	27	21.65	cps
Ytterbium	176-1	1817	1633	1767	1739	5.45	cps
Ytterbium	176-2	287	210	227	241	16.72	cps
Yttrium	89-1	19092519	18755947	18650554	18833007	1.23	cps
Yttrium	89-2	1202086	1183129	1208132	1197782	1.09	cps
Zinc	66-2	3617	3440	3547	3535	2.52	cps
Zirconium	90-1	38206	38202	38259	38222	0.08	cps
Zirconium	91-1	8306	8269	8426	8334	0.98	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1708587	1682382	1693845	1694938	0.78	cps
Antimony	121-1	6268	6188	6495	6317	2.52	cps
Arsenic	75-2	6165	5768	6008	5980	3.34	cps
Barium	135-1	393849	404918	409983	402917	2.05	cps
Barium	137-1	688256	706134	709123	701171	1.61	cps
Beryllium	9-1	2375	2415	2385	2392	0.87	cps
Bismuth	209-1	7981042	8157002	7995114	8044386	1.22	cps
Bismuth	209-2	2998654	2923711	2928225	2950197	1.42	cps
Bromine	81-1	6738	6328	6492	6519	3.17	cps
Cadmium	108-1	320	350	340	337	4.54	cps
Cadmium	106-1	6568	6398	6468	6478	1.32	cps
Cadmium	111-1	4077	4025	4256	4119	2.94	cps
Calcium	43-1	243141	249595	251894	248210	1.83	cps
Calcium	44-1	4155633	4203361	4328873	4229289	2.12	cps
Carbon	12-1	2452090	2438776	2505256	2465374	1.43	cps
Carbon	12-2	17173	16770	16916	16953	1.21	cps
Chlorine	35-1	95713089	102500412	106012328	101408610	5.16	cps
Chlorine	35-2	403468	402249	409201	404973	0.92	cps
Chromium	52-2	106496	107187	107990	107224	0.70	cps
Cobalt	59-2	226751	229192	227929	227957	0.54	cps
Copper	63-2	563061	562167	563725	562984	0.14	cps
Dysprosium	156-1	70826	71731	72609	71722	1.24	cps
Dysprosium	156-2	22012	22623	22385	22340	1.38	cps
Erbium	164-1	70673	73481	74011	72722	2.47	cps
Erbium	164-2	22459	22436	22826	22574	0.97	cps
Gadolinium	160-1	67731	69795	70284	69270	1.96	cps
Gadolinium	160-2	26152	26573	26456	26394	0.82	cps
Holmium	165-1	13303492	13488971	13584365	13458943	1.06	cps
Holmium	165-2	4397536	4362292	4349140	4369656	0.57	cps
Indium	115-1	10295876	10551509	10434579	10427321	1.23	cps
Indium	115-2	934845	931363	935591	933933	0.24	cps
Iron	54-2	8680110	8654374	8637781	8657422	0.25	cps
Iron	56-2	160661724	160704491	160659031	160675082	0.02	cps
Iron	57-2	4080992	4047600	4022190	4050260	0.73	cps
Krypton	83-1	220	200	227	216	6.44	cps
Lead	206-1	141465	145162	144977	143868	1.45	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	116575	118617	119838	118343	1.39	cps
Lead	208-1	547455	556675	562148	555426	1.34	cps
Lithium	6-1	5842829	5937199	5822504	5867511	1.04	cps
Magnesium	24-2	3694736	3592692	3721308	3669579	1.85	cps
Manganese	55-2	1062847	1067382	1065391	1065207	0.21	cps
Molybdenum	94-1	26737	25924	26963	26541	2.06	cps
Molybdenum	95-1	20642	21230	21897	21256	2.95	cps
Molybdenum	96-1	26098	27494	26662	26751	2.63	cps
Molybdenum	97-1	12906	13230	13246	13127	1.46	cps
Molybdenum	98-1	34002	34687	34339	34343	1.00	cps
Neodymium	150-1	91760	94311	92989	93020	1.37	cps
Neodymium	150-2	21561	21654	21527	21581	0.30	cps
Nickel	60-2	100515	101236	101586	101112	0.54	cps
Phosphorus	31-2	4497	4274	4701	4491	4.75	cps
Potassium	39-2	303955	301795	303553	303101	0.38	cps
Rhodium	103-1	9389210	9525340	9464739	9459763	0.72	cps
Rhodium	103-2	3502224	3469581	3483566	3485124	0.47	cps
Scandium	45-1	8095754	8162363	8253519	8170546	0.97	cps
Scandium	45-2	137776	137839	138275	137963	0.20	cps
Selenium	82-1	273	347	327	316	12.01	cps
Selenium	77-2	103	133	97	111	17.58	cps
Selenium	78-2	77	70	87	78	10.79	cps
Silicon	28-1	15030329	15266208	14378736	14891758	3.09	cps
Silver	107-1	6018	5648	5698	5788	3.47	cps
Silver	109-1	5911	5264	5434	5537	6.06	cps
Sodium	23-2	66889	68912	69947	68583	2.27	cps
Strontium	86-1	104057	104839	104681	104526	0.40	cps
Strontium	88-1	876633	885065	894654	885450	1.02	cps
Sulfur	34-1	496841	502023	506957	501940	1.01	cps
Terbium	159-1	13643394	13775326	13878318	13765679	0.86	cps
Terbium	159-2	4256824	4181439	4179724	4205996	1.05	cps
Thallium	203-1	1693	1713	1590	1666	3.97	cps
Thallium	205-1	4087	4091	3971	4050	1.69	cps
Tin	118-1	6928	7069	6918	6972	1.20	cps
Titanium	47-1	1828799	1795015	1837119	1820311	1.22	cps
Uranium	238-1	21221	21785	21585	21531	1.33	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-01	Instrumnet Name :	P8
Client Sample ID :	YE8F5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:14:37	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	138451	137220	139313	138328	0.76	cps
Ytterbium	172-1	20269	20723	21274	20755	2.42	cps
Ytterbium	172-2	7379	7826	7962	7722	3.95	cps
Ytterbium	176-1	14331	14745	14865	14647	1.91	cps
Ytterbium	176-2	5004	5138	5311	5151	2.99	cps
Yttrium	89-1	20237346	20385665	20544791	20389267	0.75	cps
Yttrium	89-2	1296372	1294774	1304369	1298505	0.40	cps
Zinc	66-2	56017	55311	56475	55934	1.05	cps
Zirconium	90-1	38463	39979	39877	39439	2.15	cps
Zirconium	91-1	8646	9136	9407	9063	4.25	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1839420	1799687	1845594	1828234	1.36	cps
Antimony	121-1	9253	9360	9350	9321	0.63	cps
Arsenic	75-2	7522	7665	7549	7579	1.01	cps
Barium	135-1	1035494	1052134	1057826	1048485	1.11	cps
Barium	137-1	1889009	1934420	1951572	1925000	1.68	cps
Beryllium	9-1	5585	5669	5603	5619	0.79	cps
Bismuth	209-1	8017805	8342734	8105951	8155497	2.06	cps
Bismuth	209-2	3337966	3084004	2817743	3079904	8.45	cps
Bromine	81-1	7142	7352	7292	7262	1.49	cps
Cadmium	108-1	163	203	253	207	21.82	cps
Cadmium	106-1	6858	7112	7018	6996	1.83	cps
Cadmium	111-1	2477	2400	2493	2457	2.03	cps
Calcium	43-1	217279	220036	218571	218629	0.63	cps
Calcium	44-1	3647337	3624051	3614333	3628574	0.47	cps
Carbon	12-1	2365985	2362938	2334269	2354398	0.74	cps
Carbon	12-2	16059	16262	15835	16052	1.33	cps
Chlorine	35-1	88300972	93523315	94577472	92133920	3.65	cps
Chlorine	35-2	354416	351376	358623	354805	1.03	cps
Chromium	52-2	163424	160872	165353	163216	1.38	cps
Cobalt	59-2	240334	243298	245281	242971	1.02	cps
Copper	63-2	396427	395975	401948	398117	0.84	cps
Dysprosium	156-1	225179	232677	230263	229373	1.67	cps
Dysprosium	156-2	74409	74355	74935	74566	0.43	cps
Erbium	164-1	223575	225577	224756	224636	0.45	cps
Erbium	164-2	69664	67761	67996	68474	1.52	cps
Gadolinium	160-1	231787	237677	234970	234812	1.26	cps
Gadolinium	160-2	88974	87290	88870	88378	1.07	cps
Holmium	165-1	13583703	13770339	13865549	13739864	1.04	cps
Holmium	165-2	4980925	4598101	4094121	4557715	9.76	cps
Indium	115-1	10504984	10592585	10607779	10568450	0.53	cps
Indium	115-2	1035713	980278	874675	963555	8.49	cps
Iron	54-2	10646854	10505683	10885279	10679272	1.80	cps
Iron	56-2	196245797	193748324	199282997	196425706	1.41	cps
Iron	57-2	4958499	5035550	5023674	5005908	0.83	cps
Krypton	83-1	397	503	537	479	15.27	cps
Lead	206-1	226912	230999	228357	228756	0.91	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	185051	189171	188332	187518	1.16	cps
Lead	208-1	870294	888609	888331	882411	1.19	cps
Lithium	6-1	5786227	5866085	5800604	5817639	0.73	cps
Magnesium	24-2	3380624	3321006	3361317	3354316	0.91	cps
Manganese	55-2	4691536	4677791	4738790	4702706	0.68	cps
Molybdenum	94-1	32966	34065	47450	38160	21.13	cps
Molybdenum	95-1	30687	31081	31559	31109	1.40	cps
Molybdenum	96-1	37607	37654	37868	37710	0.37	cps
Molybdenum	97-1	19180	18923	19574	19226	1.71	cps
Molybdenum	98-1	47952	48688	49565	48735	1.66	cps
Neodymium	150-1	293357	300296	301433	298362	1.47	cps
Neodymium	150-2	67311	65599	66859	66590	1.33	cps
Nickel	60-2	147377	145801	147525	146901	0.65	cps
Phosphorus	31-2	3187	3187	3087	3154	1.83	cps
Potassium	39-2	382266	376073	383687	380675	1.06	cps
Rhodium	103-1	9434100	9585680	9592353	9537378	0.94	cps
Rhodium	103-2	3841638	3678810	3270084	3596844	8.19	cps
Scandium	45-1	8874597	8941388	8980460	8932148	0.60	cps
Scandium	45-2	161633	154069	139038	151580	7.59	cps
Selenium	82-1	223	233	87	181	45.25	cps
Selenium	77-2	353	380	383	372	4.42	cps
Selenium	78-2	190	213	207	203	5.91	cps
Silicon	28-1	9806469	9658613	9578408	9681163	1.20	cps
Silver	107-1	1093	1083	1143	1107	2.90	cps
Silver	109-1	890	947	920	919	3.09	cps
Sodium	23-2	33395	33756	34805	33985	2.16	cps
Strontium	86-1	156228	158597	161241	158689	1.58	cps
Strontium	88-1	1340123	1368136	1372364	1360208	1.29	cps
Sulfur	34-1	340834	343285	343334	342484	0.42	cps
Terbium	159-1	13888654	14323833	14026696	14079727	1.58	cps
Terbium	159-2	4693476	4383852	4006107	4361145	7.89	cps
Thallium	203-1	3180	3370	3324	3292	3.01	cps
Thallium	205-1	7832	7966	8113	7970	1.76	cps
Tin	118-1	18062	19010	18402	18491	2.60	cps
Titanium	47-1	1795043	1822307	1810902	1809417	0.76	cps
Uranium	238-1	66976	67921	68065	67654	0.87	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:17:54	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	285138	280615	287554	284436	1.24	cps
Ytterbium	172-1	72266	74206	74116	73529	1.49	cps
Ytterbium	172-2	26794	26931	26987	26904	0.37	cps
Ytterbium	176-1	45879	47040	46157	46359	1.31	cps
Ytterbium	176-2	17188	16961	17495	17215	1.56	cps
Yttrium	89-1	22608776	23022681	22960067	22863841	0.98	cps
Yttrium	89-2	1670225	1581443	1425060	1558910	7.96	cps
Zinc	66-2	76129	75349	78073	76517	1.83	cps
Zirconium	90-1	44150	44404	44283	44279	0.29	cps
Zirconium	91-1	9697	10027	9900	9875	1.69	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1859838	1903190	1891003	1884677	1.19	cps
Antimony	121-1	8419	8403	8750	8524	2.30	cps
Arsenic	75-2	7649	7192	7359	7400	3.12	cps
Barium	135-1	1073404	1086810	1099488	1086567	1.20	cps
Barium	137-1	2021190	2014178	2040182	2025183	0.66	cps
Beryllium	9-1	5529	5413	5495	5479	1.09	cps
Bismuth	209-1	8270302	8280250	8287130	8279227	0.10	cps
Bismuth	209-2	3026743	3052328	3033484	3037518	0.44	cps
Bromine	81-1	7629	7902	7826	7786	1.81	cps
Cadmium	108-1	197	197	207	200	2.89	cps
Cadmium	106-1	7055	7375	7135	7189	2.32	cps
Cadmium	111-1	2383	2424	2456	2421	1.50	cps
Calcium	43-1	216588	222995	223072	220885	1.68	cps
Calcium	44-1	3661258	3703443	3695573	3686758	0.61	cps
Carbon	12-1	2395794	2398759	2439247	2411266	1.01	cps
Carbon	12-2	16042	16266	16025	16111	0.83	cps
Chlorine	35-1	108192328	113601798	115589915	112461347	3.40	cps
Chlorine	35-2	434495	433579	441549	436541	1.00	cps
Chromium	52-2	168047	168266	166493	167602	0.58	cps
Cobalt	59-2	248462	246322	248479	247754	0.50	cps
Copper	63-2	403879	409944	408066	407296	0.76	cps
Dysprosium	156-1	231994	234169	236133	234099	0.88	cps
Dysprosium	156-2	75733	76249	75987	75990	0.34	cps
Erbium	164-1	225394	229678	232344	229139	1.53	cps
Erbium	164-2	70864	70314	70365	70514	0.43	cps
Gadolinium	160-1	236562	242025	243993	240860	1.60	cps
Gadolinium	160-2	91370	91005	91149	91174	0.20	cps
Holmium	165-1	14104786	14087614	14069156	14087185	0.13	cps
Holmium	165-2	4523106	4501587	4508439	4511044	0.24	cps
Indium	115-1	10753419	10809234	10893638	10818763	0.65	cps
Indium	115-2	953646	952009	958156	954603	0.33	cps
Iron	54-2	10972283	10958733	10950841	10960619	0.10	cps
Iron	56-2	202144584	202672637	202845984	202554401	0.18	cps
Iron	57-2	5157644	5082910	5056985	5099180	1.02	cps
Krypton	83-1	433	460	423	439	4.32	cps
Lead	206-1	226788	231162	233119	230357	1.41	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	184965	185810	190128	186968	1.48	cps
Lead	208-1	874684	882397	896743	884608	1.27	cps
Lithium	6-1	6007813	5773843	5687652	5823102	2.85	cps
Magnesium	24-2	3468994	3481586	3487359	3479313	0.27	cps
Manganese	55-2	4802538	4793896	4784528	4793654	0.19	cps
Molybdenum	94-1	30443	31095	31459	30999	1.66	cps
Molybdenum	95-1	27831	27801	27517	27717	0.62	cps
Molybdenum	96-1	33941	34994	34830	34589	1.64	cps
Molybdenum	97-1	17197	17458	17621	17425	1.23	cps
Molybdenum	98-1	43545	45263	45223	44677	2.20	cps
Neodymium	150-1	299559	305358	307141	304019	1.30	cps
Neodymium	150-2	68801	68329	68413	68515	0.37	cps
Nickel	60-2	148526	149323	150251	149367	0.58	cps
Phosphorus	31-2	3107	3230	3334	3224	3.52	cps
Potassium	39-2	396068	394275	393799	394714	0.30	cps
Rhodium	103-1	9785713	9788789	9718404	9764302	0.41	cps
Rhodium	103-2	3555292	3584277	3591015	3576862	0.53	cps
Scandium	45-1	9104878	9062704	9087054	9084879	0.23	cps
Scandium	45-2	150845	150663	150792	150767	0.06	cps
Selenium	82-1	160	283	290	244	29.95	cps
Selenium	77-2	377	393	367	379	3.55	cps
Selenium	78-2	220	223	233	226	3.08	cps
Silicon	28-1	18579355	18701293	19068804	18783151	1.36	cps
Silver	107-1	1070	1137	1047	1085	4.31	cps
Silver	109-1	843	1037	957	946	10.27	cps
Sodium	23-2	35667	36021	37010	36233	1.92	cps
Strontium	86-1	159437	164595	163952	162661	1.73	cps
Strontium	88-1	1438455	1463084	1475653	1459064	1.30	cps
Sulfur	34-1	341577	344157	344323	343352	0.45	cps
Terbium	159-1	14300841	14318012	14513426	14377426	0.82	cps
Terbium	159-2	4329873	4366534	4298723	4331710	0.78	cps
Thallium	203-1	3287	3360	3487	3378	3.00	cps
Thallium	205-1	7739	8293	8063	8031	3.46	cps
Tin	118-1	17925	17732	17845	17834	0.55	cps
Titanium	47-1	1874573	1927147	1897440	1899720	1.39	cps
Uranium	238-1	67133	68477	68497	68036	1.15	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:21:07	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	294466	294146	294331	294314	0.05	cps
Ytterbium	172-1	73978	75041	75886	74968	1.27	cps
Ytterbium	172-2	28006	27495	27205	27569	1.47	cps
Ytterbium	176-1	47635	47181	47762	47526	0.64	cps
Ytterbium	176-2	17598	17926	17028	17517	2.59	cps
Yttrium	89-1	23306409	23464234	23475303	23415315	0.40	cps
Yttrium	89-2	1543471	1566587	1595845	1568634	1.67	cps
Zinc	66-2	78321	77168	78901	78130	1.13	cps
Zirconium	90-1	42647	42317	42555	42506	0.40	cps
Zirconium	91-1	9617	10407	9714	9912	4.35	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	353751	352215	350739	352235	0.43	cps
Antimony	121-1	1750	1984	1903	1879	6.31	cps
Arsenic	75-2	1593	1577	1517	1562	2.58	cps
Barium	135-1	209833	209309	210496	209879	0.28	cps
Barium	137-1	367326	363755	366127	365736	0.50	cps
Beryllium	9-1	1305	1264	1195	1254	4.43	cps
Bismuth	209-1	8287208	8305854	8181022	8258028	0.82	cps
Bismuth	209-2	3102908	3055620	3083768	3080765	0.77	cps
Bromine	81-1	5968	6475	6091	6178	4.28	cps
Cadmium	108-1	80	53	37	57	38.57	cps
Cadmium	106-1	5938	5855	6005	5932	1.27	cps
Cadmium	111-1	1368	1374	1395	1379	1.04	cps
Calcium	43-1	44154	43690	44589	44144	1.02	cps
Calcium	44-1	700445	712643	714098	709062	1.06	cps
Carbon	12-1	2285192	2250378	2263081	2266217	0.78	cps
Carbon	12-2	14968	14941	14517	14809	1.71	cps
Chlorine	35-1	22611006	22967520	22961947	22846825	0.89	cps
Chlorine	35-2	83814	83811	83053	83559	0.52	cps
Chromium	52-2	33593	33065	33142	33266	0.86	cps
Cobalt	59-2	48900	48519	49104	48841	0.61	cps
Copper	63-2	83651	84217	82820	83563	0.84	cps
Dysprosium	156-1	45885	45771	45835	45830	0.12	cps
Dysprosium	156-2	15309	15592	15025	15309	1.85	cps
Erbium	164-1	45049	44501	44966	44839	0.66	cps
Erbium	164-2	14144	14304	14064	14171	0.86	cps
Gadolinium	160-1	47283	46818	46414	46838	0.93	cps
Gadolinium	160-2	17862	17915	18139	17972	0.82	cps
Holmium	165-1	13438409	13430750	13526181	13465114	0.39	cps
Holmium	165-2	4424061	4371676	4406014	4400584	0.60	cps
Indium	115-1	10747550	10571193	10428136	10582293	1.51	cps
Indium	115-2	941234	944114	936836	940728	0.39	cps
Iron	54-2	2187785	2218922	2198514	2201740	0.72	cps
Iron	56-2	39965381	39783469	39749038	39832629	0.29	cps
Iron	57-2	960332	958414	949756	956167	0.59	cps
Krypton	83-1	200	230	173	201	14.09	cps
Lead	206-1	46125	47336	47436	46966	1.55	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	38036	38858	38674	38523	1.12	cps
Lead	208-1	181936	183399	181761	182365	0.49	cps
Lithium	6-1	5815107	5781198	5869256	5821854	0.76	cps
Magnesium	24-2	655690	655487	651680	654286	0.35	cps
Manganese	55-2	902381	905831	903829	904014	0.19	cps
Molybdenum	94-1	6908	6792	6765	6822	1.12	cps
Molybdenum	95-1	6311	6448	6275	6345	1.44	cps
Molybdenum	96-1	7245	7842	7662	7583	4.04	cps
Molybdenum	97-1	3864	3697	3974	3845	3.62	cps
Molybdenum	98-1	9947	9767	9820	9845	0.94	cps
Neodymium	150-1	59555	59126	59612	59431	0.45	cps
Neodymium	150-2	13046	13664	13447	13386	2.34	cps
Nickel	60-2	31345	30837	30954	31045	0.86	cps
Phosphorus	31-2	607	610	593	603	1.46	cps
Potassium	39-2	80249	79437	78743	79476	0.95	cps
Rhodium	103-1	9562409	9586949	9715119	9621492	0.85	cps
Rhodium	103-2	3531261	3529283	3551652	3537399	0.35	cps
Scandium	45-1	7987028	8065945	7940657	7997877	0.79	cps
Scandium	45-2	132019	130388	130345	130917	0.73	cps
Selenium	82-1	103	0	10	38	150.86	cps
Selenium	77-2	67	63	47	59	18.19	cps
Selenium	78-2	57	17	47	40	52.04	cps
Silicon	28-1	2356056	2331752	2828472	2505427	11.18	cps
Silver	107-1	340	277	347	321	12.03	cps
Silver	109-1	197	207	223	209	6.45	cps
Sodium	23-2	17254	17474	17070	17266	1.17	cps
Strontium	86-1	31843	32000	31840	31894	0.29	cps
Strontium	88-1	270971	274196	274179	273115	0.68	cps
Sulfur	34-1	318955	319084	317582	318540	0.26	cps
Terbium	159-1	13626694	13513149	13507709	13549184	0.50	cps
Terbium	159-2	4209688	4257609	4208757	4225351	0.66	cps
Thallium	203-1	733	757	820	770	5.82	cps
Thallium	205-1	1780	1843	1820	1815	1.77	cps
Tin	118-1	4507	4237	4561	4435	3.91	cps
Titanium	47-1	347073	347490	347184	347249	0.06	cps
Uranium	238-1	13471	13487	13100	13353	1.64	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 17:24:22	DataFile Name :	123AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	56879	55938	57511	56776	1.39	cps
Ytterbium	172-1	14732	14451	14688	14624	1.03	cps
Ytterbium	172-2	5431	5638	5905	5658	4.20	cps
Ytterbium	176-1	10891	10514	10668	10691	1.77	cps
Ytterbium	176-2	3594	3651	3691	3645	1.33	cps
Yttrium	89-1	20052860	20370518	19945593	20122990	1.10	cps
Yttrium	89-2	1255909	1266300	1255367	1259192	0.49	cps
Zinc	66-2	15288	15088	15188	15188	0.66	cps
Zirconium	90-1	9420	9143	8963	9175	2.51	cps
Zirconium	91-1	2170	2130	2287	2196	3.71	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2002616	2037198	2029867	2023227	0.90	cps
Antimony	121-1	216156	219747	222560	219487	1.46	cps
Arsenic	75-2	8986	8563	8699	8749	2.47	cps
Barium	135-1	2460124	2564584	2569944	2531551	2.45	cps
Barium	137-1	4258012	4419510	4368780	4348768	1.90	cps
Beryllium	9-1	44932	45117	45537	45195	0.69	cps
Bismuth	209-1	8383387	8326532	8187101	8299006	1.22	cps
Bismuth	209-2	2929546	2537369	3102336	2856417	10.13	cps
Bromine	81-1	7475	7829	7525	7610	2.51	cps
Cadmium	108-1	2247	2264	2334	2281	2.02	cps
Cadmium	106-1	9463	9610	9934	9669	2.49	cps
Cadmium	111-1	29344	30761	30763	30289	2.70	cps
Calcium	43-1	258625	261970	267249	262615	1.66	cps
Calcium	44-1	4140852	4227197	4260229	4209426	1.46	cps
Carbon	12-1	2945623	3017679	3023766	2995689	1.45	cps
Carbon	12-2	20488	20171	20184	20281	0.88	cps
Chlorine	35-1	119061145	125271221	128621081	124317816	3.90	cps
Chlorine	35-2	483896	487567	485703	485722	0.38	cps
Chromium	52-2	278954	284244	280915	281371	0.95	cps
Cobalt	59-2	683152	698511	688438	690034	1.13	cps
Copper	63-2	587230	594558	587914	589901	0.69	cps
Dysprosium	156-1	236679	243275	249564	243173	2.65	cps
Dysprosium	156-2	81265	82341	81211	81606	0.78	cps
Erbium	164-1	238026	243003	242349	241126	1.12	cps
Erbium	164-2	74249	75573	75680	75167	1.06	cps
Gadolinium	160-1	251024	254418	261826	255756	2.16	cps
Gadolinium	160-2	96210	97435	97506	97050	0.75	cps
Holmium	165-1	14125539	14402409	14095364	14207771	1.19	cps
Holmium	165-2	4438672	3761374	4610975	4270340	10.52	cps
Indium	115-1	10760322	10958615	10780823	10833254	1.01	cps
Indium	115-2	926151	793051	975553	898251	10.51	cps
Iron	54-2	11438391	11564505	11442622	11481839	0.62	cps
Iron	56-2	210459170	211912897	206550470	209640846	1.32	cps
Iron	57-2	5299113	5325505	5289763	5304794	0.35	cps
Krypton	83-1	470	463	457	463	1.44	cps
Lead	206-1	259698	266876	270950	265841	2.14	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	217043	220180	222822	220015	1.31	cps
Lead	208-1	1017825	1031457	1047696	1032326	1.45	cps
Lithium	6-1	5886493	5835609	5732234	5818112	1.35	cps
Magnesium	24-2	3761275	3760956	3691665	3737965	1.07	cps
Manganese	55-2	4860630	4867203	4819727	4849187	0.53	cps
Molybdenum	94-1	326458	335932	337254	333214	1.77	cps
Molybdenum	95-1	547612	563967	566881	559486	1.86	cps
Molybdenum	96-1	586205	599194	603463	596287	1.51	cps
Molybdenum	97-1	333609	345111	350575	343098	2.52	cps
Molybdenum	98-1	872263	893195	906983	890813	1.96	cps
Neodymium	150-1	318323	322844	328324	323164	1.55	cps
Neodymium	150-2	73182	74733	73684	73866	1.07	cps
Nickel	60-2	272914	278235	277342	276164	1.03	cps
Phosphorus	31-2	3130	3260	3320	3237	3.00	cps
Potassium	39-2	430025	434700	429839	431521	0.64	cps
Rhodium	103-1	9848973	9900658	9716944	9822192	0.96	cps
Rhodium	103-2	3482428	2938598	3640776	3353934	10.98	cps
Scandium	45-1	9009288	9120204	8978159	9035884	0.83	cps
Scandium	45-2	149186	127908	151642	142912	9.13	cps
Selenium	82-1	3664	3981	3924	3856	4.38	cps
Selenium	77-2	450	427	420	432	3.64	cps
Selenium	78-2	430	430	417	426	1.81	cps
Silicon	28-1	21319033	21007534	23002831	21776466	4.93	cps
Silver	107-1	144272	148563	150362	147732	2.12	cps
Silver	109-1	136912	140073	143943	140310	2.51	cps
Sodium	23-2	48835	49269	49647	49250	0.83	cps
Strontium	86-1	8115041	8171640	8461494	8249392	2.25	cps
Strontium	88-1	69545754	70537572	71440299	70507875	1.34	cps
Sulfur	34-1	323712	325401	331574	326896	1.27	cps
Terbium	159-1	13869125	14463507	14369364	14233999	2.24	cps
Terbium	159-2	4269580	3621081	4350895	4080519	9.80	cps
Thallium	203-1	115999	117156	118165	117106	0.93	cps
Thallium	205-1	273612	281824	284680	280039	2.05	cps
Tin	118-1	18927	19554	19624	19368	1.98	cps
Titanium	47-1	1969322	1947779	1961893	1959665	0.56	cps
Uranium	238-1	66701	68457	68611	67923	1.56	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:27:42	DataFile Name :	124AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	484714	487801	483624	485379	0.45	cps
Ytterbium	172-1	76288	77291	78715	77431	1.58	cps
Ytterbium	172-2	29082	28912	28735	28909	0.60	cps
Ytterbium	176-1	49295	50332	49603	49743	1.07	cps
Ytterbium	176-2	18303	18857	18380	18513	1.62	cps
Yttrium	89-1	23323185	23570202	23527621	23473669	0.56	cps
Yttrium	89-2	1509498	1263729	1574938	1449389	11.32	cps
Zinc	66-2	118070	119062	116228	117787	1.22	cps
Zirconium	90-1	38164	39597	39889	39217	2.35	cps
Zirconium	91-1	8660	10203	8977	9280	8.78	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1814214	1830032	1789949	1811398	1.11	cps
Antimony	121-1	9140	9000	9003	9048	0.88	cps
Arsenic	75-2	4751	4784	4781	4772	0.39	cps
Barium	135-1	538313	546348	555563	546741	1.58	cps
Barium	137-1	937492	949413	959116	948674	1.14	cps
Beryllium	9-1	4410	4405	4546	4454	1.80	cps
Bismuth	209-1	8379322	8450444	8208150	8345972	1.49	cps
Bismuth	209-2	3000586	2941451	3049411	2997149	1.80	cps
Bromine	81-1	6575	6938	7072	6862	3.75	cps
Cadmium	108-1	243	260	323	276	15.32	cps
Cadmium	106-1	6822	6598	6938	6786	2.55	cps
Cadmium	111-1	2791	2878	2625	2764	4.65	cps
Calcium	43-1	290550	297349	299173	295691	1.54	cps
Calcium	44-1	4845209	4932188	4996601	4924666	1.54	cps
Carbon	12-1	2228863	2250230	2236907	2238667	0.48	cps
Carbon	12-2	15151	15799	15014	15321	2.73	cps
Chlorine	35-1	122338825	127358895	129667295	126455005	2.96	cps
Chlorine	35-2	483581	483048	485519	484049	0.27	cps
Chromium	52-2	110351	108954	107443	108916	1.34	cps
Cobalt	59-2	208910	208196	206516	207874	0.59	cps
Copper	63-2	422970	431193	422857	425673	1.12	cps
Dysprosium	156-1	116371	118324	117756	117484	0.86	cps
Dysprosium	156-2	37850	37369	37218	37479	0.88	cps
Erbium	164-1	141537	141793	143891	142407	0.91	cps
Erbium	164-2	43635	43374	44287	43765	1.07	cps
Gadolinium	160-1	121201	121524	122166	121630	0.40	cps
Gadolinium	160-2	45497	45390	45360	45416	0.16	cps
Holmium	165-1	14046419	14225892	13748778	14007030	1.72	cps
Holmium	165-2	4546602	4354386	4523402	4474796	2.34	cps
Indium	115-1	10957383	10917072	10666804	10847086	1.45	cps
Indium	115-2	970442	919985	950639	947022	2.68	cps
Iron	54-2	9778899	9624845	9578333	9660693	1.09	cps
Iron	56-2	181249037	179224444	180026224	180166568	0.57	cps
Iron	57-2	4552759	4489548	4490449	4510919	0.80	cps
Krypton	83-1	240	347	373	320	22.05	cps
Lead	206-1	250331	252549	253884	252255	0.71	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	204926	206240	206727	205964	0.45	cps
Lead	208-1	959205	972001	983115	971440	1.23	cps
Lithium	6-1	5863362	5801533	5560332	5741742	2.79	cps
Magnesium	24-2	3670534	3685203	3637374	3664370	0.67	cps
Manganese	55-2	1579768	1552229	1562308	1564768	0.89	cps
Molybdenum	94-1	42204	41839	43314	42453	1.81	cps
Molybdenum	95-1	30774	32177	32291	31747	2.66	cps
Molybdenum	96-1	39934	40429	40044	40136	0.65	cps
Molybdenum	97-1	20071	19894	20138	20035	0.63	cps
Molybdenum	98-1	51070	51830	52445	51782	1.33	cps
Neodymium	150-1	141711	147031	148336	145693	2.41	cps
Neodymium	150-2	32436	32693	31981	32370	1.11	cps
Nickel	60-2	88087	86806	88774	87889	1.14	cps
Phosphorus	31-2	2670	2620	2470	2587	4.02	cps
Potassium	39-2	185209	183963	183883	184352	0.40	cps
Rhodium	103-1	9871426	9883157	9667952	9807512	1.23	cps
Rhodium	103-2	3652765	3516961	3585047	3584924	1.89	cps
Scandium	45-1	8547209	8682728	8578731	8602890	0.82	cps
Scandium	45-2	146472	138829	142512	142604	2.68	cps
Selenium	82-1	330	150	87	189	66.83	cps
Selenium	77-2	140	187	167	164	14.24	cps
Selenium	78-2	80	83	90	84	6.03	cps
Silicon	28-1	12397491	11897526	12876488	12390502	3.95	cps
Silver	107-1	2817	2447	2140	2468	13.73	cps
Silver	109-1	2244	2197	2260	2234	1.47	cps
Sodium	23-2	44518	44096	45210	44608	1.26	cps
Strontium	86-1	193365	194476	197034	194958	0.97	cps
Strontium	88-1	1766020	1761847	1799175	1775680	1.15	cps
Sulfur	34-1	328387	332924	334726	332012	0.98	cps
Terbium	159-1	14403217	14383598	13902216	14229677	1.99	cps
Terbium	159-2	4372392	4127259	4316570	4272074	3.01	cps
Thallium	203-1	1150	1160	1133	1148	1.17	cps
Thallium	205-1	2597	2840	2714	2717	4.48	cps
Tin	118-1	12863	13370	13417	13216	2.32	cps
Titanium	47-1	2609273	2671478	2710469	2663740	1.92	cps
Uranium	238-1	42678	42866	42652	42732	0.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-05	Instrumnet Name :	P8
Client Sample ID :	YE8F8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:30:55	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	179399	179183	179331	179304	0.06	cps
Ytterbium	172-1	43073	43227	43638	43313	0.67	cps
Ytterbium	172-2	15636	16040	16117	15931	1.62	cps
Ytterbium	176-1	27849	28487	28521	28286	1.34	cps
Ytterbium	176-2	10761	9964	10137	10287	4.08	cps
Yttrium	89-1	22368057	22528284	22139426	22345256	0.87	cps
Yttrium	89-2	1510504	1352993	1387602	1417033	5.84	cps
Zinc	66-2	70213	69794	68531	69513	1.26	cps
Zirconium	90-1	64837	66129	67961	66309	2.37	cps
Zirconium	91-1	14518	15506	17088	15704	8.26	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1899114	1908368	1875266	1894249	0.90	cps
Antimony	121-1	8423	8880	8296	8533	3.60	cps
Arsenic	75-2	4264	4407	4341	4337	1.65	cps
Barium	135-1	575018	581715	582945	579892	0.74	cps
Barium	137-1	996522	1013026	1017948	1009165	1.11	cps
Beryllium	9-1	4425	4439	4361	4408	0.94	cps
Bismuth	209-1	8309293	8383192	8434066	8375517	0.75	cps
Bismuth	209-2	3057157	3093209	3106436	3085601	0.83	cps
Bromine	81-1	6845	6828	6912	6862	0.64	cps
Cadmium	108-1	243	303	283	277	11.04	cps
Cadmium	106-1	6995	7172	6958	7042	1.62	cps
Cadmium	111-1	3016	3029	3060	3035	0.76	cps
Calcium	43-1	314781	315734	319489	316668	0.79	cps
Calcium	44-1	5348808	5275622	5318893	5314441	0.69	cps
Carbon	12-1	2266988	2265691	2262049	2264909	0.11	cps
Carbon	12-2	15508	15044	15208	15254	1.54	cps
Chlorine	35-1	121651198	127733228	129631298	126338575	3.30	cps
Chlorine	35-2	476852	483961	483757	481523	0.84	cps
Chromium	52-2	109783	110764	108947	109832	0.83	cps
Cobalt	59-2	159694	158909	157129	158577	0.83	cps
Copper	63-2	437396	436541	432404	435447	0.61	cps
Dysprosium	156-1	133983	136165	137542	135896	1.32	cps
Dysprosium	156-2	44283	43912	43714	43970	0.66	cps
Erbium	164-1	164932	167057	167442	166477	0.81	cps
Erbium	164-2	51114	50713	50927	50918	0.39	cps
Gadolinium	160-1	140763	142771	143415	142316	0.97	cps
Gadolinium	160-2	52971	53369	52958	53100	0.44	cps
Holmium	165-1	14067154	14248005	14195276	14170145	0.66	cps
Holmium	165-2	4643910	4585891	4605674	4611825	0.64	cps
Indium	115-1	10886241	10912738	11096870	10965283	1.05	cps
Indium	115-2	966877	980263	982528	976556	0.87	cps
Iron	54-2	9851798	9926820	9852828	9877149	0.44	cps
Iron	56-2	182786104	180941957	180853071	181527044	0.60	cps
Iron	57-2	4634557	4636038	4569576	4613390	0.82	cps
Krypton	83-1	380	360	360	367	3.15	cps
Lead	206-1	256758	257753	261043	258518	0.87	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	212384	214175	213593	213384	0.43	cps
Lead	208-1	998289	1004084	1007326	1003233	0.46	cps
Lithium	6-1	5859397	5779623	5734060	5791026	1.10	cps
Magnesium	24-2	3843171	3891943	3922556	3885890	1.03	cps
Manganese	55-2	1419330	1419203	1405553	1414695	0.56	cps
Molybdenum	94-1	47273	48180	46986	47480	1.31	cps
Molybdenum	95-1	34687	35017	34352	34685	0.96	cps
Molybdenum	96-1	43110	44227	44177	43838	1.44	cps
Molybdenum	97-1	21366	21089	21664	21373	1.34	cps
Molybdenum	98-1	53486	55337	54992	54605	1.80	cps
Neodymium	150-1	173739	177436	176635	175937	1.11	cps
Neodymium	150-2	38722	38311	39451	38828	1.49	cps
Nickel	60-2	88861	89120	89103	89028	0.16	cps
Phosphorus	31-2	2650	2627	2594	2624	1.09	cps
Potassium	39-2	200547	202307	201652	201502	0.44	cps
Rhodium	103-1	9936285	10021825	9895079	9951063	0.65	cps
Rhodium	103-2	3647112	3728377	3709440	3694976	1.15	cps
Scandium	45-1	8738165	8763343	8829082	8776864	0.53	cps
Scandium	45-2	146171	146396	147663	146743	0.55	cps
Selenium	82-1	217	243	213	224	7.33	cps
Selenium	77-2	163	183	220	189	15.21	cps
Selenium	78-2	97	137	180	138	30.25	cps
Silicon	28-1	13034737	14279580	13674619	13662979	4.56	cps
Silver	107-1	1477	1670	1550	1566	6.23	cps
Silver	109-1	1137	1263	1307	1236	7.15	cps
Sodium	23-2	47544	47203	47293	47347	0.37	cps
Strontium	86-1	210226	213366	215295	212962	1.20	cps
Strontium	88-1	1897426	1926609	1936917	1920317	1.07	cps
Sulfur	34-1	335962	336426	340506	337631	0.74	cps
Terbium	159-1	14478448	14589274	14563997	14543906	0.40	cps
Terbium	159-2	4406480	4396517	4452868	4418622	0.68	cps
Thallium	203-1	1157	1340	1143	1213	9.06	cps
Thallium	205-1	2837	2754	2777	2789	1.54	cps
Tin	118-1	13333	13654	13133	13373	1.96	cps
Titanium	47-1	3375298	3397090	3437602	3403330	0.93	cps
Uranium	238-1	36867	37753	37943	37521	1.53	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-06	Instrumnet Name :	P8
Client Sample ID :	YE8F9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:34:10	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	173045	172343	173237	172875	0.27	cps
Ytterbium	172-1	50348	50733	50824	50635	0.50	cps
Ytterbium	172-2	18723	18667	18470	18620	0.71	cps
Ytterbium	176-1	32761	32583	33061	32802	0.74	cps
Ytterbium	176-2	11976	11912	11805	11898	0.72	cps
Yttrium	89-1	22663182	22719003	22920018	22767401	0.59	cps
Yttrium	89-2	1505913	1504591	1493474	1501326	0.46	cps
Zinc	66-2	71506	72390	71975	71957	0.61	cps
Zirconium	90-1	76369	78110	77604	77361	1.16	cps
Zirconium	91-1	16683	17040	17251	16992	1.69	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1541793	1519244	1532203	1531080	0.74	cps
Antimony	121-1	12292	11728	11982	12001	2.35	cps
Arsenic	75-2	5258	5144	5221	5208	1.11	cps
Barium	135-1	443906	445454	458789	449383	1.82	cps
Barium	137-1	770158	781692	800556	784135	1.96	cps
Beryllium	9-1	3546	3616	3464	3542	2.16	cps
Bismuth	209-1	8226170	8381257	7273351	7960259	7.54	cps
Bismuth	209-2	3173593	3236078	2821212	3076961	7.27	cps
Bromine	81-1	7489	7332	7382	7401	1.08	cps
Cadmium	108-1	430	407	470	436	7.35	cps
Cadmium	106-1	7182	7029	6271	6827	7.14	cps
Cadmium	111-1	4829	4952	4729	4837	2.30	cps
Calcium	43-1	770981	783160	796639	783594	1.64	cps
Calcium	44-1	12919795	12959892	13284286	13054658	1.53	cps
Carbon	12-1	2258440	2195998	2258836	2237758	1.62	cps
Carbon	12-2	15865	15455	15702	15674	1.32	cps
Chlorine	35-1	126089961	131020151	134925128	130678414	3.39	cps
Chlorine	35-2	503597	496966	499676	500079	0.67	cps
Chromium	52-2	238014	234470	235974	236153	0.75	cps
Cobalt	59-2	165701	163793	167034	165509	0.98	cps
Copper	63-2	387620	386322	389548	387830	0.42	cps
Dysprosium	156-1	131330	132953	134282	132855	1.11	cps
Dysprosium	156-2	33793	33599	33880	33757	0.43	cps
Erbium	164-1	89454	89663	91210	90109	1.06	cps
Erbium	164-2	27652	27458	27048	27386	1.13	cps
Gadolinium	160-1	104499	104340	106914	105251	1.37	cps
Gadolinium	160-2	38509	38449	39080	38679	0.90	cps
Holmium	165-1	14285674	14389644	12358539	13677952	8.36	cps
Holmium	165-2	4573810	4736398	4074412	4461540	7.73	cps
Indium	115-1	10931100	11059420	9732498	10574339	6.92	cps
Indium	115-2	988330	1023912	878160	963467	7.89	cps
Iron	54-2	6739103	6650167	6803872	6731047	1.15	cps
Iron	56-2	125207371	122469172	123531905	123736149	1.12	cps
Iron	57-2	3173713	3099816	3187215	3153581	1.49	cps
Krypton	83-1	243	250	200	231	11.75	cps
Lead	206-1	214445	215557	217407	215803	0.69	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	173637	177430	179766	176944	1.75	cps
Lead	208-1	821409	832198	844567	832725	1.39	cps
Lithium	6-1	5829453	5862548	5106571	5599524	7.63	cps
Magnesium	24-2	3613885	3525325	3571205	3570138	1.24	cps
Manganese	55-2	1660809	1656510	1666700	1661340	0.31	cps
Molybdenum	94-1	29221	28686	29819	29242	1.94	cps
Molybdenum	95-1	14161	13890	14428	14160	1.90	cps
Molybdenum	96-1	20212	19747	20542	20167	1.98	cps
Molybdenum	97-1	8303	8449	8806	8519	3.04	cps
Molybdenum	98-1	21704	22221	22221	22049	1.36	cps
Neodymium	150-1	223693	227761	233747	228401	2.21	cps
Neodymium	150-2	50639	51154	50354	50715	0.80	cps
Nickel	60-2	200004	200725	201919	200883	0.48	cps
Phosphorus	31-2	2797	2780	2837	2805	1.04	cps
Potassium	39-2	60680	59756	60356	60264	0.78	cps
Rhodium	103-1	10007139	10036041	8744342	9595841	7.69	cps
Rhodium	103-2	3730845	3794205	3301554	3608868	7.43	cps
Scandium	45-1	8440124	8566142	7424081	8143449	7.69	cps
Scandium	45-2	146987	147644	128739	141123	7.60	cps
Selenium	82-1	180	243	243	222	16.46	cps
Selenium	77-2	197	203	193	198	2.57	cps
Selenium	78-2	80	77	77	78	2.47	cps
Silicon	28-1	10522733	10183248	10890366	10532116	3.36	cps
Silver	107-1	10291	10214	10738	10414	2.72	cps
Silver	109-1	9103	9697	9924	9575	4.43	cps
Sodium	23-2	42726	43632	43237	43198	1.05	cps
Strontium	86-1	240854	247022	250159	246011	1.92	cps
Strontium	88-1	2218963	2227282	2257081	2234442	0.90	cps
Sulfur	34-1	339452	343478	346344	343091	1.01	cps
Terbium	159-1	14208401	14672067	12672908	13851125	7.55	cps
Terbium	159-2	4395933	4492084	4002530	4296849	6.04	cps
Thallium	203-1	1503	1527	1523	1518	0.83	cps
Thallium	205-1	3581	3697	3964	3747	5.25	cps
Tin	118-1	7849	7929	7666	7815	1.73	cps
Titanium	47-1	699170	709814	720183	709722	1.48	cps
Uranium	238-1	29732	30814	30677	30408	1.94	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-07	Instrumnet Name :	P8
Client Sample ID :	YE8H9	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:37:27	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	163434	161850	163875	163053	0.65	cps
Ytterbium	172-1	21257	21468	22035	21587	1.86	cps
Ytterbium	172-2	8083	7662	8036	7927	2.91	cps
Ytterbium	176-1	14615	14878	15045	14846	1.46	cps
Ytterbium	176-2	5091	5188	5311	5197	2.12	cps
Yttrium	89-1	21708811	21803496	19379190	20963832	6.55	cps
Yttrium	89-2	1469626	1511806	1248860	1410097	10.01	cps
Zinc	66-2	66769	66612	66974	66785	0.27	cps
Zirconium	90-1	57820	57682	59848	58450	2.07	cps
Zirconium	91-1	12392	13096	13300	12929	3.68	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1082745	1089070	1079980	1083932	0.43	cps
Antimony	121-1	12643	12803	12346	12597	1.84	cps
Arsenic	75-2	5244	5168	5201	5204	0.74	cps
Barium	135-1	1018039	1043683	1041337	1034353	1.37	cps
Barium	137-1	1886991	1873550	1902746	1887762	0.77	cps
Beryllium	9-1	4265	4160	4250	4225	1.34	cps
Bismuth	209-1	8512245	8524617	8438796	8491886	0.55	cps
Bismuth	209-2	3051678	3075095	3121594	3082789	1.15	cps
Bromine	81-1	9070	9750	9353	9391	3.64	cps
Cadmium	108-1	117	153	167	146	17.79	cps
Cadmium	106-1	6795	6625	6728	6716	1.28	cps
Cadmium	111-1	2011	1951	2032	1998	2.11	cps
Calcium	43-1	308223	316831	317176	314077	1.61	cps
Calcium	44-1	5249247	5200278	5280911	5243479	0.77	cps
Carbon	12-1	3451827	3506562	3495949	3484779	0.83	cps
Carbon	12-2	23576	23629	23496	23567	0.29	cps
Chlorine	35-1	125721431	132903895	135705725	131443684	3.92	cps
Chlorine	35-2	502193	508179	504493	504955	0.60	cps
Chromium	52-2	139805	139680	138348	139278	0.58	cps
Cobalt	59-2	165479	167951	167830	167086	0.83	cps
Copper	63-2	323543	321572	324579	323231	0.47	cps
Dysprosium	156-1	131691	133215	134761	133222	1.15	cps
Dysprosium	156-2	43691	44076	43581	43783	0.59	cps
Erbium	164-1	119013	122813	123318	121715	1.93	cps
Erbium	164-2	37302	37031	36874	37069	0.58	cps
Gadolinium	160-1	137567	138598	138150	138105	0.37	cps
Gadolinium	160-2	52128	51914	51964	52002	0.22	cps
Holmium	165-1	14414622	14309825	14321395	14348614	0.40	cps
Holmium	165-2	4519596	4552420	4474396	4515471	0.87	cps
Indium	115-1	11072442	11016314	11010313	11033023	0.31	cps
Indium	115-2	965785	974912	975723	972140	0.57	cps
Iron	54-2	7837607	7889080	7873803	7866830	0.34	cps
Iron	56-2	144815888	144954708	145331815	145034137	0.18	cps
Iron	57-2	3689510	3731817	3732155	3717827	0.66	cps
Krypton	83-1	313	317	260	297	10.72	cps
Lead	206-1	207870	212330	213665	211288	1.44	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	172371	173412	175157	173647	0.81	cps
Lead	208-1	803073	818329	821806	814403	1.22	cps
Lithium	6-1	5902727	5809629	5730345	5814234	1.48	cps
Magnesium	24-2	1612720	1580780	1596281	1596593	1.00	cps
Manganese	55-2	2203848	2235935	2247911	2229231	1.02	cps
Molybdenum	94-1	14825	16015	15038	15293	4.15	cps
Molybdenum	95-1	17167	17484	17494	17382	1.07	cps
Molybdenum	96-1	20796	21066	21430	21097	1.51	cps
Molybdenum	97-1	10681	10647	10597	10642	0.39	cps
Molybdenum	98-1	26489	27457	27768	27238	2.45	cps
Neodymium	150-1	220288	227014	227272	224858	1.76	cps
Neodymium	150-2	49454	50464	50936	50285	1.51	cps
Nickel	60-2	62734	62007	62155	62299	0.62	cps
Phosphorus	31-2	6542	7065	6835	6814	3.85	cps
Potassium	39-2	426092	427563	425436	426364	0.26	cps
Rhodium	103-1	10018366	9903595	10176690	10032884	1.37	cps
Rhodium	103-2	3635333	3660957	3717281	3671190	1.14	cps
Scandium	45-1	8734573	8756902	8887523	8792999	0.94	cps
Scandium	45-2	144016	146103	143653	144591	0.91	cps
Selenium	82-1	120	147	290	186	49.27	cps
Selenium	77-2	190	243	183	206	16.00	cps
Selenium	78-2	130	97	153	127	22.48	cps
Silicon	28-1	10775220	10927649	10917794	10873554	0.78	cps
Silver	107-1	2297	2474	2507	2426	4.65	cps
Silver	109-1	2177	2134	2024	2111	3.74	cps
Sodium	23-2	42722	43414	42893	43010	0.84	cps
Strontium	86-1	264325	269481	268126	267311	1.00	cps
Strontium	88-1	2398636	2448794	2455152	2434194	1.27	cps
Sulfur	34-1	347754	351464	351001	350073	0.58	cps
Terbium	159-1	14650634	14314731	14466589	14477318	1.16	cps
Terbium	159-2	4325731	4426025	4363669	4371808	1.16	cps
Thallium	203-1	2067	2010	2150	2076	3.39	cps
Thallium	205-1	4928	5104	5194	5075	2.67	cps
Tin	118-1	14508	14841	15395	14915	3.01	cps
Titanium	47-1	1534461	1554746	1526049	1538419	0.96	cps
Uranium	238-1	47806	49951	48967	48908	2.20	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-08	Instrumnet Name :	P8
Client Sample ID :	YE8J0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:40:42	DataFile Name :	128AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	253480	255186	255268	254644	0.40	cps
Ytterbium	172-1	33272	33696	33559	33509	0.65	cps
Ytterbium	172-2	12252	11705	12292	12083	2.72	cps
Ytterbium	176-1	21411	22195	21978	21862	1.85	cps
Ytterbium	176-2	7956	8089	7686	7910	2.60	cps
Yttrium	89-1	22588743	22750615	22944969	22761442	0.78	cps
Yttrium	89-2	1474895	1500246	1489868	1488336	0.86	cps
Zinc	66-2	47529	47814	47406	47583	0.44	cps
Zirconium	90-1	13580	13971	14037	13863	1.78	cps
Zirconium	91-1	3190	3324	3297	3271	2.16	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1624508	1618360	1659358	1634075	1.35	cps
Antimony	121-1	8693	8980	8916	8863	1.70	cps
Arsenic	75-2	5471	5745	5424	5547	3.12	cps
Barium	135-1	428202	435876	435862	433313	1.02	cps
Barium	137-1	738588	762644	764032	755088	1.89	cps
Beryllium	9-1	3061	3071	3095	3076	0.56	cps
Bismuth	209-1	8355106	8378305	8424489	8385967	0.42	cps
Bismuth	209-2	3040797	3051224	3040619	3044214	0.20	cps
Bromine	81-1	7052	6982	7025	7020	0.50	cps
Cadmium	108-1	280	277	240	266	8.36	cps
Cadmium	106-1	6458	6345	7029	6611	5.54	cps
Cadmium	111-1	3106	3242	3301	3216	3.12	cps
Calcium	43-1	268723	268670	273178	270190	0.96	cps
Calcium	44-1	4480577	4500618	4542916	4508037	0.71	cps
Carbon	12-1	2253633	2231753	2230729	2238705	0.58	cps
Carbon	12-2	15495	15091	15208	15265	1.36	cps
Chlorine	35-1	120538842	126503585	129301481	125447969	3.57	cps
Chlorine	35-2	481191	478380	479972	479847	0.29	cps
Chromium	52-2	132184	132631	135113	133309	1.18	cps
Cobalt	59-2	256610	253247	253489	254449	0.74	cps
Copper	63-2	391251	391596	392745	391864	0.20	cps
Dysprosium	156-1	55638	56646	56462	56249	0.95	cps
Dysprosium	156-2	17605	17301	17749	17552	1.30	cps
Erbium	164-1	56295	56787	56871	56651	0.55	cps
Erbium	164-2	17625	17608	17151	17462	1.54	cps
Gadolinium	160-1	55963	55702	56800	56155	1.02	cps
Gadolinium	160-2	20533	20933	21377	20948	2.02	cps
Holmium	165-1	13980999	14087632	14226663	14098431	0.87	cps
Holmium	165-2	4505724	4478183	4445987	4476631	0.67	cps
Indium	115-1	10694968	10968758	10962775	10875501	1.44	cps
Indium	115-2	959483	950257	953571	954437	0.49	cps
Iron	54-2	7763647	7742063	7770525	7758745	0.19	cps
Iron	56-2	143401368	141860541	143124485	142795465	0.58	cps
Iron	57-2	3650952	3587451	3675670	3638024	1.25	cps
Krypton	83-1	183	267	207	219	19.64	cps
Lead	206-1	168948	169438	169850	169412	0.27	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	137875	141108	140081	139688	1.18	cps
Lead	208-1	643708	660074	659871	654551	1.43	cps
Lithium	6-1	5804548	5843381	5749866	5799265	0.81	cps
Magnesium	24-2	3513740	3533188	3568375	3538434	0.78	cps
Manganese	55-2	1132302	1128397	1136156	1132285	0.34	cps
Molybdenum	94-1	24685	24902	25310	24966	1.27	cps
Molybdenum	95-1	16446	16283	16246	16325	0.65	cps
Molybdenum	96-1	21557	22041	21971	21856	1.20	cps
Molybdenum	97-1	9897	10274	10341	10170	2.35	cps
Molybdenum	98-1	26108	26095	26629	26277	1.16	cps
Neodymium	150-1	67991	68293	69421	68568	1.10	cps
Neodymium	150-2	15499	15135	15035	15223	1.60	cps
Nickel	60-2	133930	133831	133641	133801	0.11	cps
Phosphorus	31-2	3317	3437	3637	3464	4.67	cps
Potassium	39-2	246657	244332	246830	245940	0.57	cps
Rhodium	103-1	9841395	9768960	10044557	9884971	1.45	cps
Rhodium	103-2	3597702	3600099	3568437	3588746	0.49	cps
Scandium	45-1	8429682	8440770	8556654	8475702	0.83	cps
Scandium	45-2	139947	141122	140061	140377	0.46	cps
Selenium	82-1	230	167	243	213	19.20	cps
Selenium	77-2	87	53	100	80	30.05	cps
Selenium	78-2	73	60	67	67	10.00	cps
Silicon	28-1	19330104	19578341	20093455	19667300	1.98	cps
Silver	107-1	4081	4127	4181	4130	1.21	cps
Silver	109-1	3741	3814	3867	3807	1.67	cps
Sodium	23-2	73038	74385	74858	74094	1.27	cps
Strontium	86-1	108661	109938	109548	109382	0.60	cps
Strontium	88-1	921647	942459	942890	935665	1.30	cps
Sulfur	34-1	476767	480320	485046	480711	0.86	cps
Terbium	159-1	14170469	14342999	14517089	14343519	1.21	cps
Terbium	159-2	4295767	4319070	4301296	4305377	0.28	cps
Thallium	203-1	1390	1490	1313	1398	6.34	cps
Thallium	205-1	3347	3364	3414	3375	1.03	cps
Tin	118-1	9210	10621	9553	9795	7.51	cps
Titanium	47-1	1428219	1437964	1442816	1436333	0.52	cps
Uranium	238-1	18711	19248	19448	19136	1.99	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-10	Instrumnet Name :	P8
Client Sample ID :	YE8J1	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:43:59	DataFile Name :	129AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	133004	134454	133755	133738	0.54	cps
Ytterbium	172-1	15970	16881	16871	16574	3.16	cps
Ytterbium	172-2	6218	5991	6135	6115	1.88	cps
Ytterbium	176-1	11278	11925	12202	11802	4.02	cps
Ytterbium	176-2	4057	4141	3984	4061	1.93	cps
Yttrium	89-1	21178954	21387421	21553091	21373155	0.88	cps
Yttrium	89-2	1328007	1316473	1321883	1322121	0.44	cps
Zinc	66-2	62246	63357	62882	62828	0.89	cps
Zirconium	90-1	43059	43093	43113	43088	0.06	cps
Zirconium	91-1	9764	10586	9954	10101	4.27	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	863724	871012	861544	865427	0.57	cps
Antimony	121-1	35569	35386	35957	35637	0.82	cps
Arsenic	75-2	72127	72187	72837	72383	0.54	cps
Barium	135-1	923947	954393	951951	943430	1.79	cps
Barium	137-1	1710939	1760088	1750020	1740349	1.49	cps
Beryllium	9-1	4273	4283	4389	4315	1.49	cps
Bismuth	209-1	8546467	8504094	8505307	8518623	0.28	cps
Bismuth	209-2	3055344	3084182	3017597	3052374	1.09	cps
Bromine	81-1	11004	11201	11508	11238	2.26	cps
Cadmium	108-1	370	300	323	331	10.76	cps
Cadmium	106-1	6598	6818	6735	6717	1.65	cps
Cadmium	111-1	4424	4487	4701	4538	3.20	cps
Calcium	43-1	344508	350222	348818	347850	0.86	cps
Calcium	44-1	5851815	5876934	5756993	5828581	1.09	cps
Carbon	12-1	8819806	9082563	9035617	8979329	1.56	cps
Carbon	12-2	60711	61260	61725	61232	0.83	cps
Chlorine	35-1	120873285	128745828	128556338	126058484	3.56	cps
Chlorine	35-2	477652	481591	478090	479111	0.45	cps
Chromium	52-2	148353	148481	147734	148189	0.27	cps
Cobalt	59-2	168163	168447	168851	168487	0.21	cps
Copper	63-2	720491	724572	720163	721742	0.34	cps
Dysprosium	156-1	52195	53242	53620	53019	1.39	cps
Dysprosium	156-2	16630	16280	16564	16491	1.13	cps
Erbium	164-1	52811	54056	54377	53748	1.54	cps
Erbium	164-2	16066	16514	16367	16316	1.40	cps
Gadolinium	160-1	51964	53175	53256	52798	1.37	cps
Gadolinium	160-2	19735	19842	19768	19781	0.28	cps
Holmium	165-1	13933761	13906341	14173916	14004673	1.05	cps
Holmium	165-2	4465955	4354645	4409118	4409906	1.26	cps
Indium	115-1	10818988	11044680	11085157	10982942	1.31	cps
Indium	115-2	950040	960970	957978	956329	0.59	cps
Iron	54-2	8051169	8059964	8124527	8078553	0.50	cps
Iron	56-2	150415828	150528801	148648971	149864533	0.70	cps
Iron	57-2	3827519	3768234	3804201	3799985	0.79	cps
Krypton	83-1	207	200	230	212	7.42	cps
Lead	206-1	2718597	2723129	2750663	2730796	0.64	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2276859	2324385	2326990	2309411	1.22	cps
Lead	208-1	10600078	10708711	10641970	10650253	0.51	cps
Lithium	6-1	5643351	5836016	5758860	5746076	1.69	cps
Magnesium	24-2	1669227	1657272	1663230	1663243	0.36	cps
Manganese	55-2	2374601	2460420	2403576	2412865	1.81	cps
Molybdenum	94-1	21193	21777	21701	21557	1.47	cps
Molybdenum	95-1	23346	23680	23877	23635	1.14	cps
Molybdenum	96-1	27988	28299	28129	28139	0.55	cps
Molybdenum	97-1	14518	14805	14501	14608	1.17	cps
Molybdenum	98-1	37049	38266	37477	37597	1.64	cps
Neodymium	150-1	63653	65776	65177	64869	1.69	cps
Neodymium	150-2	14358	14304	14288	14317	0.26	cps
Nickel	60-2	88704	89586	88643	88978	0.59	cps
Phosphorus	31-2	2880	3060	3020	2987	3.17	cps
Potassium	39-2	289100	291249	294395	291582	0.91	cps
Rhodium	103-1	10039187	9944332	9996747	9993422	0.48	cps
Rhodium	103-2	3565899	3658821	3626126	3616949	1.30	cps
Scandium	45-1	8314191	8217814	8402483	8311496	1.11	cps
Scandium	45-2	134273	136174	136097	135515	0.79	cps
Selenium	82-1	220	180	130	177	25.52	cps
Selenium	77-2	77	100	87	88	13.33	cps
Selenium	78-2	67	87	90	81	15.56	cps
Silicon	28-1	13475314	13135180	12764658	13125051	2.71	cps
Silver	107-1	13143	13814	13263	13407	2.67	cps
Silver	109-1	12579	12596	13020	12732	1.96	cps
Sodium	23-2	58520	59286	60093	59300	1.33	cps
Strontium	86-1	304561	310835	308404	307933	1.03	cps
Strontium	88-1	2785901	2826385	2854370	2822219	1.22	cps
Sulfur	34-1	380738	385131	385902	383924	0.73	cps
Terbium	159-1	14280460	14408747	14423597	14370935	0.55	cps
Terbium	159-2	4245437	4274251	4305767	4275152	0.71	cps
Thallium	203-1	1867	1980	2047	1965	4.63	cps
Thallium	205-1	4558	4708	4568	4611	1.82	cps
Tin	118-1	236485	242178	239437	239367	1.19	cps
Titanium	47-1	253509	250557	247991	250686	1.10	cps
Uranium	238-1	33240	34056	34283	33860	1.62	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-11	Instrumnet Name :	P8
Client Sample ID :	YE8E3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:47:16	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	191529	192377	192979	192295	0.38	cps
Ytterbium	172-1	15416	15169	15786	15457	2.01	cps
Ytterbium	172-2	5548	5605	5401	5518	1.90	cps
Ytterbium	176-1	10731	11368	11262	11120	3.07	cps
Ytterbium	176-2	3807	3801	3797	3802	0.13	cps
Yttrium	89-1	21004303	21132689	21314641	21150545	0.74	cps
Yttrium	89-2	1299798	1311027	1314135	1308320	0.58	cps
Zinc	66-2	115132	114505	113016	114218	0.95	cps
Zirconium	90-1	20832	21484	21200	21172	1.54	cps
Zirconium	91-1	5451	5528	5798	5592	3.26	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1244576	1268125	1250324	1254342	0.98	cps
Antimony	121-1	28353	28553	28901	28602	0.97	cps
Arsenic	75-2	27216	27427	27063	27235	0.67	cps
Barium	135-1	1292071	1316030	1313423	1307175	1.01	cps
Barium	137-1	2402684	2441920	2405828	2416811	0.90	cps
Beryllium	9-1	6294	6177	6069	6180	1.82	cps
Bismuth	209-1	8531594	8516251	8476165	8508003	0.34	cps
Bismuth	209-2	3058636	3056152	3072118	3062302	0.28	cps
Bromine	81-1	10077	10818	10941	10612	4.40	cps
Cadmium	108-1	150	213	180	181	17.49	cps
Cadmium	106-1	6765	6712	6775	6751	0.50	cps
Cadmium	111-1	2298	2203	2176	2226	2.89	cps
Calcium	43-1	283799	284607	285455	284621	0.29	cps
Calcium	44-1	4731079	4726269	4739527	4732291	0.14	cps
Carbon	12-1	3057357	3025013	2972541	3018304	1.42	cps
Carbon	12-2	20685	20681	20351	20572	0.93	cps
Chlorine	35-1	123713075	130025251	130331578	128023301	2.92	cps
Chlorine	35-2	481748	484840	483196	483262	0.32	cps
Chromium	52-2	181620	180591	180220	180810	0.40	cps
Cobalt	59-2	283576	285307	284325	284402	0.31	cps
Copper	63-2	417207	418851	422004	419354	0.58	cps
Dysprosium	156-1	75729	77362	78747	77279	1.95	cps
Dysprosium	156-2	23364	23180	23564	23369	0.82	cps
Erbium	164-1	75191	76545	77950	76562	1.80	cps
Erbium	164-2	23237	23387	23507	23377	0.58	cps
Gadolinium	160-1	73913	74758	75649	74773	1.16	cps
Gadolinium	160-2	27872	27989	27572	27811	0.77	cps
Holmium	165-1	14111655	14337245	14030863	14159921	1.12	cps
Holmium	165-2	4393694	4474396	4490928	4453006	1.17	cps
Indium	115-1	10964501	10892296	10875510	10910769	0.43	cps
Indium	115-2	946453	945550	958656	950220	0.77	cps
Iron	54-2	10745552	10829164	10802444	10792387	0.40	cps
Iron	56-2	199455624	200369717	199887804	199904381	0.23	cps
Iron	57-2	5012747	5063052	4968589	5014796	0.94	cps
Krypton	83-1	183	267	267	239	20.14	cps
Lead	206-1	250500	252512	252009	251674	0.42	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	203091	207290	209148	206510	1.50	cps
Lead	208-1	961405	972137	974338	969293	0.71	cps
Lithium	6-1	5861087	5780749	5622401	5754746	2.11	cps
Magnesium	24-2	2142988	2147181	2125171	2138447	0.55	cps
Manganese	55-2	3742932	3717337	3740467	3733579	0.38	cps
Molybdenum	94-1	33581	32932	34001	33505	1.61	cps
Molybdenum	95-1	40820	41522	41809	41384	1.23	cps
Molybdenum	96-1	48197	48290	48996	48494	0.90	cps
Molybdenum	97-1	25223	25958	25757	25646	1.48	cps
Molybdenum	98-1	65480	66562	65905	65982	0.83	cps
Neodymium	150-1	89261	90167	91016	90148	0.97	cps
Neodymium	150-2	20626	20132	20576	20445	1.33	cps
Nickel	60-2	125221	125279	124831	125110	0.19	cps
Phosphorus	31-2	2590	2434	2280	2435	6.37	cps
Potassium	39-2	89049	88737	88550	88779	0.28	cps
Rhodium	103-1	10030202	9987310	9982913	10000142	0.26	cps
Rhodium	103-2	3599172	3611669	3639761	3616867	0.57	cps
Scandium	45-1	8647627	8503954	8360604	8504062	1.69	cps
Scandium	45-2	138628	139903	138573	139034	0.54	cps
Selenium	82-1	217	187	140	181	21.33	cps
Selenium	77-2	113	127	97	112	13.39	cps
Selenium	78-2	80	97	53	77	28.51	cps
Silicon	28-1	9696028	9733738	9811498	9747088	0.60	cps
Silver	107-1	4411	4437	4257	4369	2.22	cps
Silver	109-1	4027	4041	4164	4077	1.85	cps
Sodium	23-2	101738	101829	103537	102368	0.99	cps
Strontium	86-1	318783	322275	324910	321990	0.95	cps
Strontium	88-1	2883440	2893703	2937174	2904773	0.98	cps
Sulfur	34-1	355439	358276	360373	358030	0.69	cps
Terbium	159-1	14478594	14539736	14164757	14394362	1.40	cps
Terbium	159-2	4314526	4260985	4220144	4265218	1.11	cps
Thallium	203-1	2034	2140	2067	2080	2.62	cps
Thallium	205-1	4904	4904	5011	4940	1.25	cps
Tin	118-1	6512	6965	6702	6726	3.39	cps
Titanium	47-1	157837	159144	160475	159152	0.83	cps
Uranium	238-1	44468	43963	44354	44261	0.60	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-12	Instrumnet Name :	P8
Client Sample ID :	YE8E4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:50:31	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	243883	245144	243622	244217	0.33	cps
Ytterbium	172-1	21601	22152	21691	21815	1.35	cps
Ytterbium	172-2	7732	7966	7849	7849	1.49	cps
Ytterbium	176-1	14551	14208	14975	14578	2.64	cps
Ytterbium	176-2	5108	5261	5168	5179	1.49	cps
Yttrium	89-1	21867706	21596643	21424278	21629542	1.03	cps
Yttrium	89-2	1310668	1318525	1332773	1320655	0.85	cps
Zinc	66-2	53507	52533	53507	53183	1.06	cps
Zirconium	90-1	26639	26796	27370	26935	1.43	cps
Zirconium	91-1	6472	6101	6398	6324	3.10	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2166888	2187750	2184266	2179635	0.51	cps
Antimony	121-1	4976763	5014383	5034410	5008519	0.58	cps
Arsenic	75-2	85054	84447	84310	84604	0.47	cps
Barium	135-1	6357949	6423651	6343859	6375153	0.67	cps
Barium	137-1	10951054	10944304	10876434	10923931	0.38	cps
Beryllium	9-1	1780658	1809457	1800047	1796721	0.82	cps
Bismuth	209-1	6833714	6764390	6781217	6793107	0.53	cps
Bismuth	209-2	2627119	2593703	2466510	2562444	3.31	cps
Bromine	81-1	5585	5815	6105	5835	4.47	cps
Cadmium	108-1	96340	98371	96343	97018	1.21	cps
Cadmium	106-1	140294	141479	140894	140889	0.42	cps
Cadmium	111-1	1113625	1122883	1125415	1120641	0.55	cps
Calcium	43-1	9573525	9772350	9653214	9666363	1.04	cps
Calcium	44-1	156968534	155895358	156504254	156456049	0.34	cps
Carbon	12-1	2500498	2513656	2538112	2517422	0.76	cps
Carbon	12-2	19516	19376	19603	19499	0.59	cps
Chlorine	35-1	2385363	2335102	2260877	2327114	2.69	cps
Chlorine	35-2	7936	7459	7442	7612	3.68	cps
Chromium	52-2	989105	988433	979207	985582	0.56	cps
Cobalt	59-2	1888712	1897199	1857647	1881186	1.11	cps
Copper	63-2	13420336	13276640	13252731	13316569	0.68	cps
Dysprosium	156-1	507	500	553	520	5.59	cps
Dysprosium	156-2	67	77	67	70	8.25	cps
Erbium	164-1	310	310	347	322	6.57	cps
Erbium	164-2	100	83	93	92	9.10	cps
Gadolinium	160-1	263	217	247	242	9.76	cps
Gadolinium	160-2	73	107	97	92	18.55	cps
Holmium	165-1	11963117	12162573	12300502	12142064	1.40	cps
Holmium	165-2	4112778	4104576	3957302	4058219	2.16	cps
Indium	115-1	8857887	9000840	8929813	8929514	0.80	cps
Indium	115-2	851902	821595	804306	825935	2.92	cps
Iron	54-2	10241648	10227115	10125485	10198083	0.62	cps
Iron	56-2	187362724	186885044	186151611	186799793	0.33	cps
Iron	57-2	4765711	4708551	4647801	4707354	1.25	cps
Krypton	83-1	160	140	153	151	6.74	cps
Lead	206-1	19835639	19998588	20031363	19955197	0.53	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17278221	17397965	17290222	17322136	0.38	cps
Lead	208-1	79385391	79545057	79526954	79485801	0.11	cps
Lithium	6-1	5027089	5218908	5103483	5116493	1.89	cps
Magnesium	24-2	37304625	37039340	36862154	37068707	0.60	cps
Manganese	55-2	4470907	4505411	4435280	4470533	0.78	cps
Molybdenum	94-1	18350308	18592179	18226954	18389814	1.01	cps
Molybdenum	95-1	26202635	26687450	26680189	26523425	1.05	cps
Molybdenum	96-1	28691270	29014321	28927271	28877621	0.58	cps
Molybdenum	97-1	16006940	16320457	16351921	16226439	1.18	cps
Molybdenum	98-1	42405039	42961414	42371357	42579270	0.78	cps
Neodymium	150-1	707	650	777	711	8.92	cps
Neodymium	150-2	43	53	23	40	38.19	cps
Nickel	60-2	468491	469139	467910	468513	0.13	cps
Phosphorus	31-2	18685	18422	18248	18452	1.19	cps
Potassium	39-2	10629849	10621622	10594144	10615205	0.18	cps
Rhodium	103-1	7807559	7806082	7802467	7805369	0.03	cps
Rhodium	103-2	3031206	2913779	2890361	2945115	2.56	cps
Scandium	45-1	6930326	6933568	7006563	6956819	0.62	cps
Scandium	45-2	122828	117391	116171	118797	2.98	cps
Selenium	82-1	76139	76056	76196	76130	0.09	cps
Selenium	77-2	1227	1167	1290	1228	5.02	cps
Selenium	78-2	4017	4261	3914	4064	4.38	cps
Silicon	28-1	29876330	29294091	29443307	29537909	1.02	cps
Silver	107-1	6156529	6179870	6223646	6186682	0.55	cps
Silver	109-1	5797049	6046383	5946744	5930059	2.12	cps
Sodium	23-2	74101376	75289207	74083589	74491391	0.93	cps
Strontium	86-1	1906411	1915737	1887642	1903263	0.75	cps
Strontium	88-1	16137496	16019297	16249287	16135360	0.71	cps
Sulfur	34-1	914704	920048	909188	914647	0.59	cps
Terbium	159-1	12177837	12355989	12462517	12332114	1.17	cps
Terbium	159-2	4105142	3847582	3829899	3927541	3.92	cps
Thallium	203-1	5149258	5230295	5203557	5194370	0.79	cps
Thallium	205-1	12083914	12251588	12078506	12138003	0.81	cps
Tin	118-1	4238474	4214178	4328913	4260521	1.42	cps
Titanium	47-1	8189647	8350215	8303281	8281047	1.00	cps
Uranium	238-1	16338012	16244766	16391844	16324874	0.46	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 17:58:11	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	790594	787689	780869	786384	0.63	cps
Ytterbium	172-1	337	277	300	304	9.93	cps
Ytterbium	172-2	133	130	107	123	11.78	cps
Ytterbium	176-1	24800	25324	24636	24920	1.44	cps
Ytterbium	176-2	8106	7919	7799	7941	1.95	cps
Yttrium	89-1	17245585	17258561	17187165	17230437	0.22	cps
Yttrium	89-2	1156722	1127826	1105984	1130177	2.25	cps
Zinc	66-2	1366528	1367585	1351847	1361987	0.65	cps
Zirconium	90-1	9167731	9395440	9316643	9293271	1.24	cps
Zirconium	91-1	2079659	2137845	2096410	2104638	1.42	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	107	100	97	12.44	cps
Antimony	121-1	1193	990	1097	1093	9.30	cps
Arsenic	75-2	17	10	10	12	31.50	cps
Barium	135-1	857	837	827	840	1.82	cps
Barium	137-1	1413	1353	1417	1395	2.56	cps
Beryllium	9-1	669	657	599	642	5.86	cps
Bismuth	209-1	7857617	7821597	7741171	7806795	0.76	cps
Bismuth	209-2	2891818	2916950	2839149	2882639	1.38	cps
Bromine	81-1	5511	5781	5584	5626	2.48	cps
Cadmium	108-1	53	30	40	41	28.47	cps
Cadmium	106-1	5411	5264	5411	5362	1.58	cps
Cadmium	111-1	1188	1129	1158	1158	2.58	cps
Calcium	43-1	637	567	503	569	11.72	cps
Calcium	44-1	10764	8966	8943	9558	10.93	cps
Carbon	12-1	2140536	2143625	2124174	2136112	0.49	cps
Carbon	12-2	13873	13943	13730	13849	0.79	cps
Chlorine	35-1	1654533	1612280	1557447	1608086	3.03	cps
Chlorine	35-2	5164	5251	5008	5141	2.40	cps
Chromium	52-2	563	517	480	520	8.03	cps
Cobalt	59-2	230	203	213	216	6.25	cps
Copper	63-2	2780	2554	2614	2649	4.43	cps
Dysprosium	156-1	227	227	190	214	9.87	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	63	50	50	54	14.14	cps
Erbium	164-2	13	20	13	16	24.76	cps
Gadolinium	160-1	30	40	27	32	21.53	cps
Gadolinium	160-2	0	10	3	4	114.60	cps
Holmium	165-1	12386271	12340320	12335269	12353953	0.23	cps
Holmium	165-2	4046003	4076518	4074855	4065792	0.42	cps
Indium	115-1	9832624	9919904	9738118	9830215	0.92	cps
Indium	115-2	869250	878558	877414	875074	0.58	cps
Iron	54-2	597	620	680	632	6.80	cps
Iron	56-2	10858	11051	10791	10900	1.24	cps
Iron	57-2	297	257	217	257	15.58	cps
Krypton	83-1	110	140	150	133	15.61	cps
Lead	206-1	2570	2307	2100	2326	10.13	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2294	1914	1914	2040	10.76	cps
Lead	208-1	10085	8911	8438	9145	9.27	cps
Lithium	6-1	5507153	5576076	5512756	5531995	0.69	cps
Magnesium	24-2	1353	1220	1217	1263	6.17	cps
Manganese	55-2	507	490	513	503	2.39	cps
Molybdenum	94-1	1157	1057	1037	1083	5.93	cps
Molybdenum	95-1	1373	1177	1017	1189	15.03	cps
Molybdenum	96-1	1680	1357	1290	1442	14.46	cps
Molybdenum	97-1	857	750	577	728	19.42	cps
Molybdenum	98-1	2400	1860	1720	1994	18.01	cps
Neodymium	150-1	63	77	67	69	10.08	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	807	897	963	889	8.85	cps
Phosphorus	31-2	23	7	13	14	58.06	cps
Potassium	39-2	5018	4974	4738	4910	3.07	cps
Rhodium	103-1	9135632	8988431	9038135	9054066	0.83	cps
Rhodium	103-2	3323713	3252844	3257832	3278130	1.21	cps
Scandium	45-1	7305502	7185744	7205785	7232344	0.89	cps
Scandium	45-2	114558	116205	115482	115415	0.72	cps
Selenium	82-1	3	0	-7	-1	-460.03	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	3	3	7	4	43.40	cps
Silicon	28-1	310012	310877	311850	310913	0.30	cps
Silver	107-1	787	763	603	718	13.90	cps
Silver	109-1	660	643	700	668	4.36	cps
Sodium	23-2	15986	16696	15725	16136	3.12	cps
Strontium	86-1	357	273	233	288	21.86	cps
Strontium	88-1	890	663	630	728	19.44	cps
Sulfur	34-1	305801	307376	306316	306497	0.26	cps
Terbium	159-1	12879310	12736625	12569480	12728472	1.22	cps
Terbium	159-2	3942693	3904025	3949774	3932164	0.63	cps
Thallium	203-1	1027	857	857	913	10.75	cps
Thallium	205-1	2510	2170	2114	2265	9.47	cps
Tin	118-1	1697	1483	1380	1520	10.63	cps
Titanium	47-1	483	310	300	364	28.28	cps
Uranium	238-1	613	410	390	471	26.23	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:01:26	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	37	7	22	67.63	cps
Ytterbium	172-1	80	67	50	66	22.93	cps
Ytterbium	172-2	17	23	47	29	54.53	cps
Ytterbium	176-1	1413	1680	1483	1526	9.06	cps
Ytterbium	176-2	200	153	167	173	13.87	cps
Yttrium	89-1	18138953	18018742	17998183	18051960	0.42	cps
Yttrium	89-2	1111691	1123572	1106785	1114016	0.77	cps
Zinc	66-2	290	293	223	269	14.69	cps
Zirconium	90-1	1030	960	933	974	5.12	cps
Zirconium	91-1	247	230	220	232	5.80	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	623839	624363	624984	624395	0.09	cps
Antimony	121-1	15506	16100	15696	15767	1.92	cps
Arsenic	75-2	12562	12649	12656	12622	0.41	cps
Barium	135-1	172344	176524	179840	176236	2.13	cps
Barium	137-1	298799	308086	307295	304727	1.69	cps
Beryllium	9-1	2106	2137	2124	2122	0.74	cps
Bismuth	209-1	7975042	8025037	7838757	7946278	1.21	cps
Bismuth	209-2	2974015	3071625	2988089	3011243	1.75	cps
Bromine	81-1	7052	6898	7235	7062	2.39	cps
Cadmium	108-1	143	113	137	131	12.01	cps
Cadmium	106-1	5891	5855	5968	5905	0.98	cps
Cadmium	111-1	1311	1328	1361	1334	1.91	cps
Calcium	43-1	251153	253960	259774	254962	1.72	cps
Calcium	44-1	4249721	4288677	4286110	4274836	0.51	cps
Carbon	12-1	2325960	2349830	2366820	2347537	0.87	cps
Carbon	12-2	15999	15815	15518	15777	1.54	cps
Chlorine	35-1	110944505	120607362	125448785	119000217	6.21	cps
Chlorine	35-2	466514	469436	480116	472022	1.52	cps
Chromium	52-2	65857	65706	66878	66147	0.96	cps
Cobalt	59-2	6978	6878	7068	6975	1.36	cps
Copper	63-2	166170	165427	165596	165731	0.23	cps
Dysprosium	156-1	10674	10958	11121	10918	2.07	cps
Dysprosium	156-2	3224	3140	3214	3193	1.43	cps
Erbium	164-1	7639	7425	7449	7504	1.56	cps
Erbium	164-2	2397	2324	2250	2324	3.16	cps
Gadolinium	160-1	9000	9167	9787	9318	4.45	cps
Gadolinium	160-2	3547	3581	3767	3632	3.27	cps
Holmium	165-1	13148152	13448290	13215849	13270764	1.19	cps
Holmium	165-2	4366227	4407695	4314931	4362951	1.07	cps
Indium	115-1	10141178	10383300	10423539	10316006	1.48	cps
Indium	115-2	919540	940198	936587	932108	1.18	cps
Iron	54-2	4060283	4110392	4129061	4099912	0.87	cps
Iron	56-2	75902072	74945896	74716112	75188027	0.84	cps
Iron	57-2	1952611	1941229	1939124	1944321	0.37	cps
Krypton	83-1	147	163	143	151	7.09	cps
Lead	206-1	91352	94323	94525	93400	1.90	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	74462	77138	75770	75790	1.77	cps
Lead	208-1	354036	358583	361205	357941	1.01	cps
Lithium	6-1	5483094	5737231	5675466	5631930	2.35	cps
Magnesium	24-2	1437610	1450859	1438259	1442243	0.52	cps
Manganese	55-2	186052	188149	187052	187084	0.56	cps
Molybdenum	94-1	17785	18109	18005	17966	0.92	cps
Molybdenum	95-1	18259	19020	19050	18776	2.39	cps
Molybdenum	96-1	22295	22164	22395	22285	0.52	cps
Molybdenum	97-1	11495	11782	11512	11596	1.39	cps
Molybdenum	98-1	29585	29839	30610	30011	1.78	cps
Neodymium	150-1	15686	15522	15459	15556	0.75	cps
Neodymium	150-2	3417	3651	3460	3509	3.54	cps
Nickel	60-2	23343	22661	22878	22961	1.52	cps
Phosphorus	31-2	860	737	767	788	8.16	cps
Potassium	39-2	27182	27727	28204	27704	1.85	cps
Rhodium	103-1	9297101	9357858	9609542	9421500	1.76	cps
Rhodium	103-2	3460620	3562573	3519272	3514155	1.46	cps
Scandium	45-1	7695611	7827018	7880911	7801180	1.22	cps
Scandium	45-2	129434	132383	132460	131426	1.31	cps
Selenium	82-1	60	40	143	81	67.57	cps
Selenium	77-2	17	20	17	18	10.81	cps
Selenium	78-2	17	10	13	13	25.01	cps
Silicon	28-1	6080811	6181042	6141680	6134511	0.82	cps
Silver	107-1	6488	6185	6315	6329	2.41	cps
Silver	109-1	6091	5841	6068	6000	2.30	cps
Sodium	23-2	122906	124569	125857	124444	1.19	cps
Strontium	86-1	214101	217868	219035	217001	1.19	cps
Strontium	88-1	1953337	2010994	2010471	1991601	1.66	cps
Sulfur	34-1	318988	323802	329601	324131	1.64	cps
Terbium	159-1	12969627	13815670	13511861	13432386	3.19	cps
Terbium	159-2	4170052	4219633	4256131	4215272	1.02	cps
Thallium	203-1	3044	2977	2967	2996	1.39	cps
Thallium	205-1	7209	7075	6825	7036	2.77	cps
Tin	118-1	4604	5128	5144	4959	6.19	cps
Titanium	47-1	20799	22191	21553	21514	3.24	cps
Uranium	238-1	11192	11489	11662	11447	2.08	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-13	Instrumnet Name :	P8
Client Sample ID :	YE8E5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:04:50	DataFile Name :	135AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	71648	72479	73296	72474	1.14	cps
Ytterbium	172-1	2200	2347	2397	2315	4.42	cps
Ytterbium	172-2	700	800	803	768	7.65	cps
Ytterbium	176-1	2980	3077	2884	2980	3.24	cps
Ytterbium	176-2	773	723	757	751	3.39	cps
Yttrium	89-1	19160773	19327925	19523315	19337338	0.94	cps
Yttrium	89-2	1211587	1239975	1236894	1229485	1.27	cps
Zinc	66-2	18776	18819	19050	18882	0.78	cps
Zirconium	90-1	19691	19801	20185	19892	1.30	cps
Zirconium	91-1	4197	4748	4544	4496	6.19	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	353714	352276	354899	353630	0.37	cps
Antimony	121-1	67110	67747	66665	67174	0.81	cps
Arsenic	75-2	55070	55907	56058	55678	0.96	cps
Barium	135-1	105154	107146	106356	106219	0.94	cps
Barium	137-1	181632	184153	185511	183765	1.07	cps
Beryllium	9-1	1092	1100	1060	1084	1.96	cps
Bismuth	209-1	8424607	8306792	8393101	8374833	0.73	cps
Bismuth	209-2	3121614	3068176	3076001	3088597	0.93	cps
Bromine	81-1	6438	6465	6405	6436	0.47	cps
Cadmium	108-1	867	717	783	789	9.53	cps
Cadmium	106-1	7095	7232	7359	7229	1.82	cps
Cadmium	111-1	7271	7516	7872	7553	4.00	cps
Calcium	43-1	276823	278337	279298	278153	0.45	cps
Calcium	44-1	4621434	4773419	4624269	4673040	1.86	cps
Carbon	12-1	2174375	2127074	2109101	2136850	1.58	cps
Carbon	12-2	14094	14194	14290	14192	0.69	cps
Chlorine	35-1	113731158	120762738	121346198	118613365	3.57	cps
Chlorine	35-2	451872	461465	457134	456824	1.05	cps
Chromium	52-2	44349	44857	45001	44735	0.77	cps
Cobalt	59-2	155909	158002	157413	157108	0.69	cps
Copper	63-2	744992	746933	745117	745680	0.15	cps
Dysprosium	156-1	35701	36754	36075	36177	1.48	cps
Dysprosium	156-2	12366	12279	12499	12381	0.90	cps
Erbium	164-1	37523	37850	37687	37687	0.43	cps
Erbium	164-2	11412	11649	11518	11526	1.03	cps
Gadolinium	160-1	37660	38027	38462	38050	1.06	cps
Gadolinium	160-2	14445	15005	15215	14888	2.68	cps
Holmium	165-1	13929464	13772727	13798275	13833489	0.61	cps
Holmium	165-2	4382629	4446338	4417300	4415423	0.72	cps
Indium	115-1	11025308	10634102	10836429	10831946	1.81	cps
Indium	115-2	958976	961099	953605	957894	0.40	cps
Iron	54-2	5418195	5438828	5392633	5416552	0.43	cps
Iron	56-2	98305922	99227552	99320345	98951273	0.57	cps
Iron	57-2	2560122	2602027	2563518	2575223	0.90	cps
Krypton	83-1	240	147	227	204	24.69	cps
Lead	206-1	220653	223399	226878	223643	1.39	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	182220	184607	186240	184356	1.10	cps
Lead	208-1	852484	865668	874524	864225	1.28	cps
Lithium	6-1	5850289	5681569	5722573	5751477	1.53	cps
Magnesium	24-2	695322	705995	707747	703021	0.96	cps
Manganese	55-2	97279	96748	96734	96920	0.32	cps
Molybdenum	94-1	100714	101480	102903	101699	1.09	cps
Molybdenum	95-1	54252	53673	53686	53871	0.61	cps
Molybdenum	96-1	68863	70233	69804	69633	1.01	cps
Molybdenum	97-1	32705	33404	33955	33355	1.88	cps
Molybdenum	98-1	86081	86293	86327	86233	0.15	cps
Neodymium	150-1	32864	33675	34224	33587	2.04	cps
Neodymium	150-2	7769	7559	7729	7686	1.45	cps
Nickel	60-2	245562	247110	249669	247447	0.84	cps
Phosphorus	31-2	5858	5781	5705	5781	1.33	cps
Potassium	39-2	133722	135729	134688	134713	0.75	cps
Rhodium	103-1	10078567	9794107	9876205	9916293	1.48	cps
Rhodium	103-2	3696610	3624078	3566669	3629119	1.79	cps
Scandium	45-1	8225169	8111094	8117803	8151355	0.79	cps
Scandium	45-2	134001	135168	134270	134479	0.45	cps
Selenium	82-1	1490	1530	1490	1503	1.54	cps
Selenium	77-2	97	43	93	78	38.42	cps
Selenium	78-2	110	143	130	128	13.13	cps
Silicon	28-1	12092664	12261732	12122079	12158825	0.74	cps
Silver	107-1	9410	9557	9797	9588	2.04	cps
Silver	109-1	9110	8930	9257	9099	1.80	cps
Sodium	23-2	50256	52079	51785	51373	1.90	cps
Strontium	86-1	311627	321114	320326	317689	1.66	cps
Strontium	88-1	2852952	2925042	2883090	2887028	1.25	cps
Sulfur	34-1	2807928	2834064	2847095	2829696	0.70	cps
Terbium	159-1	13904973	13927330	13884773	13905692	0.15	cps
Terbium	159-2	4282555	4301259	4267481	4283765	0.40	cps
Thallium	203-1	1900	1883	1917	1900	0.88	cps
Thallium	205-1	4414	4421	4528	4454	1.43	cps
Tin	118-1	2607	2654	2834	2698	4.44	cps
Titanium	47-1	22434	22732	22321	22496	0.94	cps
Uranium	238-1	17088	17799	18186	17691	3.15	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-14	Instrumnet Name :	P8
Client Sample ID :	YE8E6	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:08:55	DataFile Name :	136AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	34592	35658	35387	35212	1.57	cps
Ytterbium	172-1	7526	7612	7889	7676	2.47	cps
Ytterbium	172-2	2870	2910	2850	2877	1.06	cps
Ytterbium	176-1	6725	6982	7002	6903	2.24	cps
Ytterbium	176-2	2324	2137	2184	2215	4.39	cps
Yttrium	89-1	20564296	20848007	20330667	20580990	1.26	cps
Yttrium	89-2	1281548	1287492	1278654	1282565	0.35	cps
Zinc	66-2	30553	30302	30239	30365	0.55	cps
Zirconium	90-1	192263	201264	200033	197853	2.47	cps
Zirconium	91-1	43381	48724	44880	45662	6.04	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	581605	575343	578494	578481	0.54	cps
Antimony	121-1	54458	55813	57387	55886	2.62	cps
Arsenic	75-2	69400	69969	69781	69717	0.42	cps
Barium	135-1	107697	107663	111612	108991	2.08	cps
Barium	137-1	187122	189362	195160	190548	2.18	cps
Beryllium	9-1	2327	2315	2426	2356	2.59	cps
Bismuth	209-1	8469090	8375374	4912675	7252379	27.95	cps
Bismuth	209-2	3116528	3091495	3052703	3086908	1.04	cps
Bromine	81-1	6378	6568	6248	6398	2.52	cps
Cadmium	108-1	947	960	1033	980	4.76	cps
Cadmium	106-1	7389	7339	4998	6575	20.78	cps
Cadmium	111-1	9765	9285	9433	9494	2.59	cps
Calcium	43-1	213066	218808	222498	218124	2.18	cps
Calcium	44-1	3599002	3706137	3758928	3688023	2.21	cps
Carbon	12-1	2147747	2094292	2099916	2113985	1.39	cps
Carbon	12-2	14137	13910	14087	14045	0.85	cps
Chlorine	35-1	128242065	134122528	137101448	133155347	3.39	cps
Chlorine	35-2	498788	498945	504420	500718	0.64	cps
Chromium	52-2	98067	96791	98304	97721	0.83	cps
Cobalt	59-2	166200	166612	167084	166632	0.27	cps
Copper	63-2	658816	652063	663794	658224	0.89	cps
Dysprosium	156-1	39160	39415	39953	39509	1.02	cps
Dysprosium	156-2	13317	13120	13377	13271	1.01	cps
Erbium	164-1	43969	44959	45775	44901	2.01	cps
Erbium	164-2	13250	13454	13507	13403	1.01	cps
Gadolinium	160-1	41855	42106	42956	42306	1.36	cps
Gadolinium	160-2	16590	15619	16187	16132	3.02	cps
Holmium	165-1	13833097	13829148	7993361	11885202	28.36	cps
Holmium	165-2	4415398	4394617	4391680	4400565	0.29	cps
Indium	115-1	11234797	10937171	6269792	9480587	29.37	cps
Indium	115-2	959198	961006	962309	960838	0.16	cps
Iron	54-2	5563279	5489303	5485500	5512694	0.80	cps
Iron	56-2	101631445	101668245	101319028	101539573	0.19	cps
Iron	57-2	2609398	2599517	2569537	2592817	0.80	cps
Krypton	83-1	170	177	190	179	5.69	cps
Lead	206-1	275152	283806	285837	281598	2.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	228670	229985	234337	230997	1.28	cps
Lead	208-1	1069680	1090951	1102629	1087754	1.54	cps
Lithium	6-1	5722364	5730471	3464940	4972592	26.26	cps
Magnesium	24-2	1408774	1339837	1380234	1376282	2.52	cps
Manganese	55-2	199034	200718	199304	199686	0.45	cps
Molybdenum	94-1	69654	70383	71814	70617	1.56	cps
Molybdenum	95-1	28452	28917	29575	28981	1.95	cps
Molybdenum	96-1	40265	40489	41435	40730	1.52	cps
Molybdenum	97-1	17471	17708	18666	17948	3.52	cps
Molybdenum	98-1	45274	46250	46494	46006	1.40	cps
Neodymium	150-1	37121	37222	37994	37445	1.27	cps
Neodymium	150-2	8006	8219	8169	8131	1.37	cps
Nickel	60-2	203362	203821	201295	202826	0.66	cps
Phosphorus	31-2	3674	4181	3971	3942	6.46	cps
Potassium	39-2	102071	100010	102648	101576	1.37	cps
Rhodium	103-1	9994418	9953855	5657213	8535162	29.20	cps
Rhodium	103-2	3652170	3643594	3648390	3648051	0.12	cps
Scandium	45-1	8152286	8184580	4793780	7043549	27.66	cps
Scandium	45-2	135125	135888	135889	135634	0.33	cps
Selenium	82-1	1117	1183	1177	1159	3.17	cps
Selenium	77-2	40	50	63	51	22.90	cps
Selenium	78-2	103	107	97	102	4.98	cps
Silicon	28-1	14689313	14721465	15095274	14835350	1.52	cps
Silver	107-1	6135	6131	6488	6251	3.28	cps
Silver	109-1	5441	5525	6165	5710	6.93	cps
Sodium	23-2	58048	59661	61075	59595	2.54	cps
Strontium	86-1	148371	151484	156913	152256	2.84	cps
Strontium	88-1	1277524	1297772	1324144	1299814	1.80	cps
Sulfur	34-1	2195875	2168788	2196816	2187159	0.73	cps
Terbium	159-1	14161311	14088945	8022456	12090904	29.14	cps
Terbium	159-2	4292902	4271916	4273120	4279312	0.28	cps
Thallium	203-1	1633	1733	1633	1667	3.46	cps
Thallium	205-1	3817	3774	3947	3846	2.35	cps
Tin	118-1	4147	4167	4414	4243	3.50	cps
Titanium	47-1	31064	31558	38784	33802	12.78	cps
Uranium	238-1	34246	33989	35359	34531	2.11	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-15	Instrumnet Name :	P8
Client Sample ID :	YE8E7	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:12:14	DataFile Name :	137AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	54962	55768	56434	55721	1.32	cps
Ytterbium	172-1	11262	11689	11709	11553	2.19	cps
Ytterbium	172-2	4091	4174	3911	4058	3.32	cps
Ytterbium	176-1	9133	8973	8696	8934	2.47	cps
Ytterbium	176-2	3004	2934	2964	2967	1.18	cps
Yttrium	89-1	20825705	20820014	12001535	17882418	28.48	cps
Yttrium	89-2	1286116	1296064	1298600	1293593	0.51	cps
Zinc	66-2	107735	106913	106567	107071	0.56	cps
Zirconium	90-1	146844	149766	151507	149372	1.58	cps
Zirconium	91-1	32895	34045	34142	33694	2.06	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	981225	972790	967543	973853	0.71	cps
Antimony	121-1	38605	38899	39072	38859	0.61	cps
Arsenic	75-2	16293	16039	16133	16155	0.79	cps
Barium	135-1	245192	251654	250035	248960	1.35	cps
Barium	137-1	424929	433254	436815	431666	1.41	cps
Beryllium	9-1	3239	3256	3166	3220	1.48	cps
Bismuth	209-1	8244425	8388136	8226346	8286303	1.07	cps
Bismuth	209-2	3012767	3027433	3042729	3027643	0.49	cps
Bromine	81-1	6545	6285	6632	6487	2.78	cps
Cadmium	108-1	963	953	973	963	1.04	cps
Cadmium	106-1	7109	7515	7799	7474	4.64	cps
Cadmium	111-1	10648	10759	11049	10819	1.91	cps
Calcium	43-1	326781	332075	333530	330795	1.07	cps
Calcium	44-1	5455787	5606955	5565009	5542584	1.41	cps
Carbon	12-1	2144311	2179579	2159583	2161157	0.82	cps
Carbon	12-2	14360	14454	14180	14331	0.97	cps
Chlorine	35-1	109330285	115562205	117109805	114000765	3.61	cps
Chlorine	35-2	432167	435497	435847	434504	0.47	cps
Chromium	52-2	131131	131799	128739	130556	1.23	cps
Cobalt	59-2	180509	179628	178419	179519	0.58	cps
Copper	63-2	548498	550436	548395	549110	0.21	cps
Dysprosium	156-1	60519	62836	63456	62271	2.49	cps
Dysprosium	156-2	19064	19234	19371	19223	0.80	cps
Erbium	164-1	55954	57949	57571	57158	1.85	cps
Erbium	164-2	17492	17211	17251	17318	0.88	cps
Gadolinium	160-1	60644	61263	60707	60871	0.56	cps
Gadolinium	160-2	22209	22723	22419	22450	1.15	cps
Holmium	165-1	13612850	13922429	13911740	13815673	1.27	cps
Holmium	165-2	4493163	4455241	4417799	4455401	0.85	cps
Indium	115-1	10604494	10990523	10726065	10773694	1.83	cps
Indium	115-2	949083	954124	955757	952988	0.37	cps
Iron	54-2	6779736	6708676	6762209	6750207	0.55	cps
Iron	56-2	126811725	124500891	124521831	125278149	1.06	cps
Iron	57-2	3217630	3173697	3146533	3179286	1.13	cps
Krypton	83-1	250	250	217	239	8.06	cps
Lead	206-1	266774	270088	270075	268979	0.71	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	217811	222158	224817	221595	1.60	cps
Lead	208-1	1028459	1041105	1047832	1039132	0.95	cps
Lithium	6-1	5765767	5812603	5741353	5773241	0.63	cps
Magnesium	24-2	2190486	2166387	2159568	2172147	0.75	cps
Manganese	55-2	392517	390786	389374	390892	0.40	cps
Molybdenum	94-1	80013	82909	80722	81215	1.86	cps
Molybdenum	95-1	61321	62540	61579	61813	1.04	cps
Molybdenum	96-1	74351	75785	76784	75640	1.62	cps
Molybdenum	97-1	38333	38339	38192	38288	0.22	cps
Molybdenum	98-1	98120	100927	101105	100051	1.67	cps
Neodymium	150-1	75853	77498	78387	77246	1.66	cps
Neodymium	150-2	16887	17702	17091	17227	2.46	cps
Nickel	60-2	223112	223206	223234	223184	0.03	cps
Phosphorus	31-2	6221	5951	6301	6158	2.98	cps
Potassium	39-2	213847	212698	213168	213238	0.27	cps
Rhodium	103-1	9590181	9943150	9697914	9743748	1.86	cps
Rhodium	103-2	3596651	3615292	3568489	3593478	0.66	cps
Scandium	45-1	8041230	8276971	8223288	8180496	1.51	cps
Scandium	45-2	135868	134401	134368	134879	0.64	cps
Selenium	82-1	1433	1430	1470	1445	1.54	cps
Selenium	77-2	93	120	90	101	16.26	cps
Selenium	78-2	137	127	120	128	6.57	cps
Silicon	28-1	24266484	23746156	23167255	23726632	2.32	cps
Silver	107-1	8943	9330	9390	9221	2.63	cps
Silver	109-1	8529	8413	8806	8583	2.36	cps
Sodium	23-2	70972	72288	71899	71720	0.94	cps
Strontium	86-1	128514	129143	129691	129116	0.46	cps
Strontium	88-1	1084775	1107606	1112989	1101790	1.36	cps
Sulfur	34-1	1973530	2032948	2041926	2016135	1.84	cps
Terbium	159-1	13994729	14171737	14121112	14095859	0.65	cps
Terbium	159-2	4249233	4260620	4287427	4265760	0.46	cps
Thallium	203-1	1577	1663	1797	1679	6.60	cps
Thallium	205-1	3884	4127	3891	3967	3.49	cps
Tin	118-1	4774	4901	5151	4942	3.88	cps
Titanium	47-1	211678	216190	220008	215959	1.93	cps
Uranium	238-1	42682	43370	44568	43540	2.19	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-16	Instrumnet Name :	P8
Client Sample ID :	YE8E8	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:16:31	DataFile Name :	138AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	85386	85131	85631	85382	0.29	cps
Ytterbium	172-1	13731	14144	14238	14038	1.92	cps
Ytterbium	172-2	4821	5098	5324	5081	4.96	cps
Ytterbium	176-1	10698	10504	10721	10641	1.12	cps
Ytterbium	176-2	3344	3554	3487	3462	3.10	cps
Yttrium	89-1	20719622	20963745	20973762	20885709	0.69	cps
Yttrium	89-2	1311898	1305551	1307870	1308440	0.25	cps
Zinc	66-2	119713	120177	118759	119550	0.60	cps
Zirconium	90-1	122843	123548	124435	123609	0.65	cps
Zirconium	91-1	27990	27284	29507	28260	4.02	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	537422	531436	532259	533706	0.61	cps
Antimony	121-1	17565	18416	18239	18073	2.49	cps
Arsenic	75-2	2207	2164	2237	2202	1.67	cps
Barium	135-1	131003	133860	133465	132776	1.17	cps
Barium	137-1	227767	228830	232165	229587	1.00	cps
Beryllium	9-1	1177	1115	1197	1163	3.70	cps
Bismuth	209-1	8432659	8450464	8347464	8410196	0.65	cps
Bismuth	209-2	3035613	3044128	3086133	3055291	0.89	cps
Bromine	81-1	6645	6698	6578	6641	0.91	cps
Cadmium	108-1	333	270	233	279	18.14	cps
Cadmium	106-1	6418	6445	6235	6366	1.80	cps
Cadmium	111-1	1560	1613	1690	1621	4.03	cps
Calcium	43-1	93085	92542	93679	93102	0.61	cps
Calcium	44-1	1571352	1581843	1591345	1581513	0.63	cps
Carbon	12-1	2145930	2145624	2134292	2141949	0.31	cps
Carbon	12-2	14587	14314	14501	14467	0.97	cps
Chlorine	35-1	117941102	122747795	125498261	122062386	3.13	cps
Chlorine	35-2	465173	463887	467947	465669	0.45	cps
Chromium	52-2	14551	14678	14618	14615	0.43	cps
Cobalt	59-2	49703	49506	49703	49637	0.23	cps
Copper	63-2	239578	240256	240052	239962	0.14	cps
Dysprosium	156-1	33699	34020	33920	33880	0.48	cps
Dysprosium	156-2	9794	9610	9860	9755	1.33	cps
Erbium	164-1	22449	22158	22095	22234	0.85	cps
Erbium	164-2	6855	6595	6508	6653	2.71	cps
Gadolinium	160-1	29817	30121	31090	30342	2.19	cps
Gadolinium	160-2	11405	10901	11372	11226	2.51	cps
Holmium	165-1	13881087	13872786	13926929	13893600	0.21	cps
Holmium	165-2	4427977	4393047	4411482	4410835	0.40	cps
Indium	115-1	10906121	10873797	10952792	10910903	0.36	cps
Indium	115-2	940421	948309	948609	945780	0.49	cps
Iron	54-2	2156105	2105869	2120393	2127456	1.22	cps
Iron	56-2	38373786	38251619	38024424	38216609	0.46	cps
Iron	57-2	919920	921125	921429	920825	0.09	cps
Krypton	83-1	193	227	197	206	8.93	cps
Lead	206-1	202497	204105	207485	204696	1.24	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	165444	169125	170402	168323	1.53	cps
Lead	208-1	776601	788128	795910	786880	1.23	cps
Lithium	6-1	5786801	5726767	5539831	5684466	2.27	cps
Magnesium	24-2	1501905	1482750	1499713	1494789	0.70	cps
Manganese	55-2	86302	85614	85866	85927	0.40	cps
Molybdenum	94-1	52930	55420	55584	54645	2.72	cps
Molybdenum	95-1	25133	24992	25761	25295	1.62	cps
Molybdenum	96-1	33410	34135	34630	34058	1.80	cps
Molybdenum	97-1	14948	15742	15779	15490	3.03	cps
Molybdenum	98-1	40385	40359	40502	40415	0.19	cps
Neodymium	150-1	47417	48664	50106	48729	2.76	cps
Neodymium	150-2	10841	10828	11051	10907	1.15	cps
Nickel	60-2	31842	31792	32033	31889	0.40	cps
Phosphorus	31-2	1297	1257	1333	1296	2.96	cps
Potassium	39-2	89472	88308	89948	89243	0.95	cps
Rhodium	103-1	9868072	9964543	10007174	9946597	0.72	cps
Rhodium	103-2	3560841	3583629	3643506	3595992	1.19	cps
Scandium	45-1	8004459	8223793	7919675	8049309	1.95	cps
Scandium	45-2	132934	132174	132524	132544	0.29	cps
Selenium	82-1	207	177	200	194	8.10	cps
Selenium	77-2	53	57	50	53	6.25	cps
Selenium	78-2	57	27	30	38	43.52	cps
Silicon	28-1	12792491	12118124	13293216	12734611	4.63	cps
Silver	107-1	2544	2484	2580	2536	1.92	cps
Silver	109-1	2150	2317	2207	2225	3.81	cps
Sodium	23-2	37010	37989	37732	37577	1.35	cps
Strontium	86-1	64444	66333	64062	64946	1.87	cps
Strontium	88-1	551505	559679	565119	558768	1.23	cps
Sulfur	34-1	472226	474104	479207	475179	0.76	cps
Terbium	159-1	14148474	14266679	14364957	14260037	0.76	cps
Terbium	159-2	4282427	4311095	4302500	4298674	0.34	cps
Thallium	203-1	1267	1210	1237	1238	2.29	cps
Thallium	205-1	2767	2974	3087	2943	5.52	cps
Tin	118-1	2610	2474	2664	2582	3.80	cps
Titanium	47-1	19283	19877	19820	19660	1.67	cps
Uranium	238-1	21044	21288	21058	21130	0.65	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-17	Instrumnet Name :	P8
Client Sample ID :	YE8D2	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:19:49	DataFile Name :	139AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7095	7199	7529	7274	3.11	cps
Ytterbium	172-1	4844	4901	4954	4900	1.12	cps
Ytterbium	172-2	1787	1927	1873	1862	3.79	cps
Ytterbium	176-1	5064	5151	5004	5073	1.45	cps
Ytterbium	176-2	1310	1443	1437	1397	5.38	cps
Yttrium	89-1	20644426	20311736	20713931	20556698	1.05	cps
Yttrium	89-2	1254542	1259909	1262836	1259095	0.33	cps
Zinc	66-2	43453	43955	43530	43646	0.62	cps
Zirconium	90-1	112163	111935	113556	112551	0.78	cps
Zirconium	91-1	24171	25123	25461	24918	2.68	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	951624	941239	938772	943879	0.72	cps
Antimony	121-1	21213	22395	22178	21929	2.87	cps
Arsenic	75-2	10971	11338	11288	11199	1.78	cps
Barium	135-1	664826	683363	683675	677288	1.59	cps
Barium	137-1	1157419	1187884	1184366	1176557	1.42	cps
Beryllium	9-1	3506	3511	3580	3532	1.17	cps
Bismuth	209-1	8392749	8398690	8429004	8406814	0.23	cps
Bismuth	209-2	3022406	3042177	3028694	3031092	0.33	cps
Bromine	81-1	7359	7562	8189	7703	5.62	cps
Cadmium	108-1	160	143	180	161	11.39	cps
Cadmium	106-1	6148	6115	6145	6136	0.30	cps
Cadmium	111-1	1674	1613	1670	1652	2.08	cps
Calcium	43-1	238298	240202	241430	239977	0.66	cps
Calcium	44-1	4044465	3950687	3979868	3991673	1.20	cps
Carbon	12-1	2463083	2481816	2465090	2469996	0.42	cps
Carbon	12-2	16329	16573	16820	16574	1.48	cps
Chlorine	35-1	114711628	119306705	122309752	118776028	3.22	cps
Chlorine	35-2	447117	453145	445616	448626	0.89	cps
Chromium	52-2	103920	103235	102621	103259	0.63	cps
Cobalt	59-2	109282	108842	109610	109245	0.35	cps
Copper	63-2	296514	296695	296613	296607	0.03	cps
Dysprosium	156-1	45818	46209	45768	45932	0.53	cps
Dysprosium	156-2	14985	15669	15125	15260	2.37	cps
Erbium	164-1	44032	45039	45528	44866	1.70	cps
Erbium	164-2	13731	13744	13807	13761	0.30	cps
Gadolinium	160-1	47070	48672	48217	47986	1.72	cps
Gadolinium	160-2	18136	18139	18429	18235	0.92	cps
Holmium	165-1	13816163	14009723	14038980	13954955	0.87	cps
Holmium	165-2	4421327	4419905	4364952	4402061	0.73	cps
Indium	115-1	10683613	10773511	10887629	10781584	0.95	cps
Indium	115-2	940659	941228	933095	938327	0.48	cps
Iron	54-2	5447624	5474517	5421887	5448009	0.48	cps
Iron	56-2	99350329	99355979	98370839	99025715	0.57	cps
Iron	57-2	2536161	2513422	2530882	2526822	0.47	cps
Krypton	83-1	213	180	187	193	9.12	cps
Lead	206-1	242173	246703	246794	245223	1.08	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	197375	200681	201120	199726	1.02	cps
Lead	208-1	928430	941333	949634	939799	1.14	cps
Lithium	6-1	5709353	5864561	5643685	5739200	1.98	cps
Magnesium	24-2	2013606	1938988	1999970	1984188	2.00	cps
Manganese	55-2	486508	481346	480988	482947	0.64	cps
Molybdenum	94-1	16473	16116	16039	16210	1.43	cps
Molybdenum	95-1	11305	11161	11478	11315	1.40	cps
Molybdenum	96-1	14528	14888	14865	14760	1.37	cps
Molybdenum	97-1	6855	6792	7099	6915	2.34	cps
Molybdenum	98-1	18065	18689	17718	18158	2.71	cps
Neodymium	150-1	45935	47015	47293	46748	1.53	cps
Neodymium	150-2	10184	10437	10464	10362	1.49	cps
Nickel	60-2	83774	83603	84167	83848	0.34	cps
Phosphorus	31-2	1270	1257	1207	1245	2.68	cps
Potassium	39-2	44559	44308	45040	44635	0.83	cps
Rhodium	103-1	9736235	9947720	9775511	9819822	1.15	cps
Rhodium	103-2	3614119	3569155	3577696	3586990	0.67	cps
Scandium	45-1	8125227	8174111	8115852	8138397	0.38	cps
Scandium	45-2	134273	132642	132702	133206	0.69	cps
Selenium	82-1	143	143	153	147	3.94	cps
Selenium	77-2	90	47	63	67	32.79	cps
Selenium	78-2	47	33	40	40	16.68	cps
Silicon	28-1	7675452	7683077	7903817	7754115	1.67	cps
Silver	107-1	3721	3954	4134	3936	5.27	cps
Silver	109-1	3891	3874	3907	3891	0.43	cps
Sodium	23-2	33575	33856	33812	33748	0.45	cps
Strontium	86-1	194526	198051	198322	196966	1.08	cps
Strontium	88-1	1734484	1793692	1802983	1777053	2.09	cps
Sulfur	34-1	319676	321785	326162	322541	1.03	cps
Terbium	159-1	13983287	14085300	14004411	14024333	0.38	cps
Terbium	159-2	4281715	4296478	4250036	4276076	0.55	cps
Thallium	203-1	1603	1457	1397	1486	7.16	cps
Thallium	205-1	3460	3577	3587	3542	1.99	cps
Tin	118-1	5578	5725	5888	5730	2.71	cps
Titanium	47-1	64390	65784	68354	66176	3.04	cps
Uranium	238-1	18056	17963	18073	18031	0.33	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-18	Instrumnet Name :	P8
Client Sample ID :	YE8D4	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:23:07	DataFile Name :	140AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	100086	100714	99714	100171	0.50	cps
Ytterbium	172-1	12346	13080	12653	12693	2.90	cps
Ytterbium	172-2	4624	4794	4828	4749	2.30	cps
Ytterbium	176-1	9497	9427	9500	9475	0.44	cps
Ytterbium	176-2	3174	3114	2854	3047	5.58	cps
Yttrium	89-1	20452144	20699803	20508968	20553638	0.63	cps
Yttrium	89-2	1277729	1274442	1265557	1272576	0.49	cps
Zinc	66-2	46031	46546	46453	46343	0.59	cps
Zirconium	90-1	26759	27544	27160	27154	1.45	cps
Zirconium	91-1	6008	6211	5845	6021	3.05	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1563247	1572745	1599052	1578348	1.18	cps
Antimony	121-1	32181	33174	33230	32862	1.80	cps
Arsenic	75-2	12299	12906	12342	12516	2.71	cps
Barium	135-1	307439	313958	316061	312486	1.44	cps
Barium	137-1	536070	544734	548795	543200	1.20	cps
Beryllium	9-1	1972	2046	1984	2001	1.99	cps
Bismuth	209-1	8283788	8287071	8346115	8305658	0.42	cps
Bismuth	209-2	2952904	2601174	3071231	2875103	8.50	cps
Bromine	81-1	6582	6478	6735	6598	1.96	cps
Cadmium	108-1	330	447	407	394	15.03	cps
Cadmium	106-1	6572	6588	6528	6563	0.47	cps
Cadmium	111-1	3310	3229	3271	3270	1.25	cps
Calcium	43-1	238332	244466	241558	241452	1.27	cps
Calcium	44-1	3949192	4080021	4032152	4020455	1.65	cps
Carbon	12-1	2207107	2183254	2199674	2196678	0.56	cps
Carbon	12-2	14424	14888	14601	14637	1.60	cps
Chlorine	35-1	116936302	122748522	126015145	121899989	3.77	cps
Chlorine	35-2	453415	463124	466120	460887	1.44	cps
Chromium	52-2	130767	131989	130804	131187	0.53	cps
Cobalt	59-2	188337	192600	188442	189793	1.28	cps
Copper	63-2	430469	434726	431163	432119	0.53	cps
Dysprosium	156-1	54691	55307	56191	55396	1.36	cps
Dysprosium	156-2	18763	19404	18800	18989	1.90	cps
Erbium	164-1	57976	59817	59060	58951	1.57	cps
Erbium	164-2	17832	17872	18296	18000	1.43	cps
Gadolinium	160-1	59556	59981	59990	59842	0.41	cps
Gadolinium	160-2	22706	23167	22726	22866	1.14	cps
Holmium	165-1	14017621	14066401	13828505	13970842	0.90	cps
Holmium	165-2	4370826	3667021	4465622	4167823	10.47	cps
Indium	115-1	10720187	10687300	10786301	10731263	0.47	cps
Indium	115-2	938315	790593	949189	892699	9.92	cps
Iron	54-2	8792327	8873624	8664484	8776812	1.20	cps
Iron	56-2	160595921	163311134	160478711	161461922	0.99	cps
Iron	57-2	4125182	4109556	4102733	4112490	0.28	cps
Krypton	83-1	230	227	280	246	12.17	cps
Lead	206-1	262584	266790	267105	265493	0.95	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	211537	214897	217162	214532	1.32	cps
Lead	208-1	1000158	1018811	1022606	1013858	1.19	cps
Lithium	6-1	5690427	5821889	5637436	5716584	1.66	cps
Magnesium	24-2	3068564	3093913	3088777	3083751	0.43	cps
Manganese	55-2	1016450	1035665	1025084	1025733	0.94	cps
Molybdenum	94-1	48912	49728	49735	49459	0.96	cps
Molybdenum	95-1	29274	30300	30450	30008	2.13	cps
Molybdenum	96-1	38774	40111	39947	39611	1.84	cps
Molybdenum	97-1	18235	18776	18900	18637	1.90	cps
Molybdenum	98-1	46591	47829	48019	47480	1.63	cps
Neodymium	150-1	47403	48541	48373	48106	1.28	cps
Neodymium	150-2	10808	11091	10738	10879	1.72	cps
Nickel	60-2	167199	168946	166181	167442	0.83	cps
Phosphorus	31-2	3414	3494	3590	3499	2.53	cps
Potassium	39-2	132626	133481	131879	132662	0.60	cps
Rhodium	103-1	9597863	9734810	9802866	9711846	1.08	cps
Rhodium	103-2	3574720	3029981	3592328	3399010	9.41	cps
Scandium	45-1	8012627	8151318	8034030	8065992	0.93	cps
Scandium	45-2	130738	111304	133056	125033	9.55	cps
Selenium	82-1	353	407	397	386	7.35	cps
Selenium	77-2	67	93	47	69	33.98	cps
Selenium	78-2	93	37	70	67	42.72	cps
Silicon	28-1	16161873	16586014	16902106	16549997	2.24	cps
Silver	107-1	7362	7439	7559	7453	1.33	cps
Silver	109-1	6692	7085	7169	6982	3.65	cps
Sodium	23-2	53457	53287	53374	53373	0.16	cps
Strontium	86-1	222549	227433	229280	226420	1.54	cps
Strontium	88-1	2016766	2051178	2064494	2044146	1.20	cps
Sulfur	34-1	320611	324184	322398	322398	0.55	cps
Terbium	159-1	13853894	14054584	14237413	14048630	1.37	cps
Terbium	159-2	4275529	3616555	4336917	4076334	9.80	cps
Thallium	203-1	3234	3167	3250	3217	1.37	cps
Thallium	205-1	7452	7846	7599	7632	2.61	cps
Tin	118-1	3147	3114	3227	3163	1.84	cps
Titanium	47-1	42438	41310	46804	43517	6.67	cps
Uranium	238-1	49158	48860	49871	49297	1.05	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-19	Instrumnet Name :	P8
Client Sample ID :	YE8C3	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:26:27	DataFile Name :	141AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	102762	103481	102611	102951	0.45	cps
Ytterbium	172-1	14495	15059	15376	14976	2.98	cps
Ytterbium	172-2	5548	5828	5091	5489	6.78	cps
Ytterbium	176-1	10895	11842	10851	11196	5.00	cps
Ytterbium	176-2	3711	3787	3667	3722	1.63	cps
Yttrium	89-1	20796939	20734523	21298359	20943274	1.48	cps
Yttrium	89-2	1290846	1091717	1302570	1228378	9.65	cps
Zinc	66-2	78536	80215	78754	79168	1.15	cps
Zirconium	90-1	88341	89642	90595	89526	1.26	cps
Zirconium	91-1	19344	21870	32898	24704	29.18	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1480676	1458458	1504932	1481356	1.57	cps
Antimony	121-1	16200	16460	16941	16533	2.27	cps
Arsenic	75-2	2977	3254	3057	3096	4.60	cps
Barium	135-1	476720	478454	485082	480086	0.92	cps
Barium	137-1	820645	843024	844638	836102	1.60	cps
Beryllium	9-1	2490	2469	2399	2452	1.95	cps
Bismuth	209-1	8153601	8201055	8207544	8187400	0.36	cps
Bismuth	209-2	3029640	3002813	2949888	2994114	1.36	cps
Bromine	81-1	6735	6542	7045	6774	3.75	cps
Cadmium	108-1	207	167	183	186	10.83	cps
Cadmium	106-1	6278	6151	6375	6268	1.79	cps
Cadmium	111-1	1991	1920	1990	1967	2.06	cps
Calcium	43-1	308117	312573	317938	312876	1.57	cps
Calcium	44-1	5149927	5204594	5210518	5188346	0.64	cps
Carbon	12-1	2194652	2209106	2212971	2205576	0.44	cps
Carbon	12-2	14754	14851	14721	14775	0.46	cps
Chlorine	35-1	123826451	130365521	132364015	128851996	3.47	cps
Chlorine	35-2	486176	489349	490502	488676	0.46	cps
Chromium	52-2	157472	157445	155188	156702	0.84	cps
Cobalt	59-2	155444	156856	155077	155793	0.60	cps
Copper	63-2	226630	227249	225634	226504	0.36	cps
Dysprosium	156-1	35016	35233	35888	35379	1.28	cps
Dysprosium	156-2	11258	11585	11799	11547	2.36	cps
Erbium	164-1	30545	32105	31410	31354	2.49	cps
Erbium	164-2	9513	9697	9430	9547	1.43	cps
Gadolinium	160-1	35307	35928	36042	35759	1.11	cps
Gadolinium	160-2	13520	13263	13864	13549	2.22	cps
Holmium	165-1	13547100	13970291	13666186	13727859	1.59	cps
Holmium	165-2	4348771	4288553	4379009	4338778	1.06	cps
Indium	115-1	10501183	10683783	10613193	10599386	0.87	cps
Indium	115-2	921756	929608	923098	924821	0.45	cps
Iron	54-2	5874667	5765320	5757602	5799196	1.13	cps
Iron	56-2	105937338	107348068	107450262	106911890	0.79	cps
Iron	57-2	2725167	2753747	2722303	2733739	0.64	cps
Krypton	83-1	207	203	233	214	7.67	cps
Lead	206-1	242695	249377	248822	246965	1.50	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	200401	203125	205389	202972	1.23	cps
Lead	208-1	937394	958123	961334	952284	1.36	cps
Lithium	6-1	5693557	5535856	5692305	5640573	1.61	cps
Magnesium	24-2	3458187	3403845	3492036	3451356	1.29	cps
Manganese	55-2	624074	621093	620874	622014	0.29	cps
Molybdenum	94-1	22271	23033	23400	22901	2.51	cps
Molybdenum	95-1	7625	7665	7836	7709	1.45	cps
Molybdenum	96-1	12582	12729	12679	12664	0.59	cps
Molybdenum	97-1	4848	4664	4928	4813	2.81	cps
Molybdenum	98-1	12409	12342	12446	12399	0.42	cps
Neodymium	150-1	39692	39441	40213	39782	0.99	cps
Neodymium	150-2	8413	8723	9073	8736	3.78	cps
Nickel	60-2	117019	118263	115460	116914	1.20	cps
Phosphorus	31-2	1430	1323	1313	1356	4.77	cps
Potassium	39-2	70320	71389	70816	70842	0.75	cps
Rhodium	103-1	9541728	9643205	9816439	9667124	1.44	cps
Rhodium	103-2	3542690	3541518	3525958	3536722	0.26	cps
Scandium	45-1	7960811	7933359	7947773	7947314	0.17	cps
Scandium	45-2	129857	129981	129312	129717	0.27	cps
Selenium	82-1	80	67	43	63	29.31	cps
Selenium	77-2	60	57	23	47	43.45	cps
Selenium	78-2	30	47	30	36	27.07	cps
Silicon	28-1	10752801	10974312	11510324	11079146	3.52	cps
Silver	107-1	4771	4798	4401	4656	4.76	cps
Silver	109-1	4331	4267	4441	4346	2.02	cps
Sodium	23-2	103501	103386	103876	103588	0.25	cps
Strontium	86-1	476111	481277	487800	481729	1.22	cps
Strontium	88-1	4297250	4306161	4341089	4314833	0.54	cps
Sulfur	34-1	376551	378927	381581	379020	0.66	cps
Terbium	159-1	13843830	13788073	14150921	13927608	1.40	cps
Terbium	159-2	4268503	4291478	4157990	4239324	1.68	cps
Thallium	203-1	1867	2020	1934	1940	3.96	cps
Thallium	205-1	4344	4604	4751	4566	4.51	cps
Tin	118-1	2660	2690	2817	2723	3.06	cps
Titanium	47-1	33743	34441	34588	34258	1.32	cps
Uranium	238-1	26291	26575	27016	26627	1.37	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-21	Instrumnet Name :	P8
Client Sample ID :	YE8D0	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:29:43	DataFile Name :	142AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	114446	115881	114063	114796	0.83	cps
Ytterbium	172-1	8026	8116	8052	8065	0.57	cps
Ytterbium	172-2	2820	2950	2860	2877	2.31	cps
Ytterbium	176-1	6662	6482	6985	6710	3.80	cps
Ytterbium	176-2	2134	2017	2170	2107	3.80	cps
Yttrium	89-1	19949868	20080541	20303891	20111433	0.89	cps
Yttrium	89-2	1247360	1252960	1242519	1247613	0.42	cps
Zinc	66-2	51854	51172	51439	51489	0.67	cps
Zirconium	90-1	48745	49464	50119	49443	1.39	cps
Zirconium	91-1	10634	11288	11295	11072	3.43	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	62179	62450	62196	62275	0.24	cps
Antimony	121-1	8159	8123	8753	8345	4.24	cps
Arsenic	75-2	4277	4414	4684	4459	4.64	cps
Barium	135-1	36559	37000	38000	37186	1.98	cps
Barium	137-1	63280	64184	65859	64441	2.03	cps
Beryllium	9-1	560	522	530	537	3.69	cps
Bismuth	209-1	8475559	8317151	8413603	8402104	0.95	cps
Bismuth	209-2	3044680	2998595	2978745	3007340	1.12	cps
Bromine	81-1	6278	6251	6125	6218	1.32	cps
Cadmium	108-1	90	123	110	108	15.57	cps
Cadmium	106-1	6158	5715	6245	6039	4.71	cps
Cadmium	111-1	1379	1310	1395	1361	3.32	cps
Calcium	43-1	804439	814045	820327	812937	0.98	cps
Calcium	44-1	13566550	13475452	13620414	13554139	0.54	cps
Carbon	12-1	2171394	2163894	2148523	2161270	0.54	cps
Carbon	12-2	14437	14687	14751	14625	1.13	cps
Chlorine	35-1	114911078	119354052	122557495	118940875	3.23	cps
Chlorine	35-2	451829	446364	456385	451526	1.11	cps
Chromium	52-2	9593	9390	9954	9646	2.96	cps
Cobalt	59-2	13553	13957	14120	13877	2.10	cps
Copper	63-2	43817	43149	43974	43647	1.00	cps
Dysprosium	156-1	11595	11198	11685	11493	2.25	cps
Dysprosium	156-2	3847	3871	3884	3867	0.48	cps
Erbium	164-1	14551	14108	14585	14415	1.85	cps
Erbium	164-2	4511	4474	4454	4480	0.64	cps
Gadolinium	160-1	11742	12032	12589	12121	3.55	cps
Gadolinium	160-2	4828	4648	4748	4741	1.90	cps
Holmium	165-1	13603245	13633494	13679923	13638887	0.28	cps
Holmium	165-2	4366965	4314173	4317591	4332910	0.68	cps
Indium	115-1	10658806	10880777	10846000	10795194	1.11	cps
Indium	115-2	938996	928636	935427	934353	0.56	cps
Iron	54-2	1552449	1548774	1513671	1538298	1.39	cps
Iron	56-2	28049652	28255911	28103104	28136222	0.38	cps
Iron	57-2	674774	672976	674653	674135	0.15	cps
Krypton	83-1	167	163	170	167	2.00	cps
Lead	206-1	41148	41995	42078	41740	1.23	cps

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	33660	34065	34646	34124	1.45	cps
Lead	208-1	158503	161596	163345	161148	1.52	cps
Lithium	6-1	5756189	5518390	5585727	5620102	2.18	cps
Magnesium	24-2	982006	980713	985036	982585	0.23	cps
Manganese	55-2	447780	446604	446841	447075	0.14	cps
Molybdenum	94-1	18452	18332	18863	18549	1.50	cps
Molybdenum	95-1	3834	3837	4157	3943	4.71	cps
Molybdenum	96-1	7165	7219	7599	7328	3.23	cps
Molybdenum	97-1	2494	2570	2417	2494	3.08	cps
Molybdenum	98-1	6478	6658	6645	6594	1.52	cps
Neodymium	150-1	9934	10314	9987	10078	2.04	cps
Neodymium	150-2	2334	2304	2290	2309	0.96	cps
Nickel	60-2	9096	8789	9200	9028	2.36	cps
Phosphorus	31-2	497	577	637	570	12.32	cps
Potassium	39-2	33659	35113	34919	34564	2.28	cps
Rhodium	103-1	9704448	9867846	9868437	9813577	0.96	cps
Rhodium	103-2	3587147	3583734	3504394	3558425	1.32	cps
Scandium	45-1	7981133	7900041	7966930	7949368	0.54	cps
Scandium	45-2	129870	129052	129813	129578	0.35	cps
Selenium	82-1	83	40	77	67	35.00	cps
Selenium	77-2	10	17	7	11	45.82	cps
Selenium	78-2	13	30	10	18	60.28	cps
Silicon	28-1	5833374	6619916	6855206	6436165	8.31	cps
Silver	107-1	1330	1287	1467	1361	6.90	cps
Silver	109-1	1177	1210	1320	1236	6.07	cps
Sodium	23-2	36078	37592	37334	37001	2.19	cps
Strontium	86-1	879019	899361	903192	893858	1.45	cps
Strontium	88-1	7908806	8089149	8060713	8019556	1.21	cps
Sulfur	34-1	419296	425326	429490	424704	1.21	cps
Terbium	159-1	13969434	14010123	14121347	14033635	0.56	cps
Terbium	159-2	4188118	4211002	4172132	4190418	0.47	cps
Thallium	203-1	513	533	527	524	1.94	cps
Thallium	205-1	1133	1273	1203	1203	5.82	cps
Tin	118-1	2184	2310	2237	2244	2.84	cps
Titanium	47-1	3857	3817	3781	3818	1.00	cps
Uranium	238-1	15957	15937	16304	16066	1.28	cps

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LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-22	Instrumnet Name :	P8
Client Sample ID :	YE8D5	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 18:33:02	DataFile Name :	143AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3164	3247	3094	3168	2.42	cps
Ytterbium	172-1	5304	5241	5188	5244	1.11	cps
Ytterbium	172-2	1977	1890	1873	1913	2.90	cps
Ytterbium	176-1	4714	4898	4921	4844	2.34	cps
Ytterbium	176-2	1540	1233	1463	1412	11.30	cps
Yttrium	89-1	19816401	20132299	20250504	20066401	1.12	cps
Yttrium	89-2	1229821	1241725	1238969	1236839	0.50	cps
Zinc	66-2	6702	6512	6975	6729	3.46	cps
Zirconium	90-1	44447	44691	44721	44620	0.34	cps
Zirconium	91-1	9930	10084	10501	10172	2.90	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	35513	34852	35039	35135	0.97	cps
Antimony	121-1	590	537	687	604	12.58	cps
Arsenic	75-2	90	107	87	94	11.35	cps
Barium	135-1	17995	17208	17889	17697	2.41	cps
Barium	137-1	31510	31066	30969	31181	0.93	cps
Beryllium	9-1	306	294	286	295	3.42	cps
Bismuth	209-1	8310212	8278902	8164351	8251155	0.93	cps
Bismuth	209-2	3051500	3013378	2940249	3001709	1.88	cps
Bromine	81-1	5721	5748	5868	5779	1.35	cps
Cadmium	108-1	67	100	83	83	20.00	cps
Cadmium	106-1	6081	5811	5691	5861	3.41	cps
Cadmium	111-1	1970	1806	1840	1872	4.62	cps
Calcium	43-1	217976	220463	219975	219471	0.60	cps
Calcium	44-1	3589242	3706715	3723485	3673147	1.99	cps
Carbon	12-1	2073602	2045570	2060593	2059922	0.68	cps
Carbon	12-2	12976	13480	13313	13256	1.94	cps
Chlorine	35-1	29010892	29825743	29676840	29504492	1.47	cps
Chlorine	35-2	105853	105568	104873	105431	0.48	cps
Chromium	52-2	2727	2877	2910	2838	3.44	cps
Cobalt	59-2	2034	1877	1797	1902	6.33	cps
Copper	63-2	9777	9380	9457	9538	2.21	cps
Dysprosium	156-1	2550	2597	2540	2562	1.18	cps
Dysprosium	156-2	753	673	790	739	8.07	cps
Erbium	164-1	2314	2364	2307	2328	1.33	cps
Erbium	164-2	690	673	690	684	1.41	cps
Gadolinium	160-1	2514	2497	2394	2468	2.63	cps
Gadolinium	160-2	927	880	977	928	5.21	cps
Holmium	165-1	13242351	13337708	13259340	13279800	0.38	cps
Holmium	165-2	4265519	4162910	4241118	4223182	1.27	cps
Indium	115-1	10522569	10312364	10274179	10369704	1.29	cps
Indium	115-2	906815	906818	905024	906219	0.11	cps
Iron	54-2	125522	125636	124695	125284	0.41	cps
Iron	56-2	2499114	2485380	2486544	2490346	0.31	cps
Iron	57-2	59206	58319	57770	58431	1.24	cps
Krypton	83-1	150	120	173	148	18.09	cps
Lead	206-1	4951	4731	4734	4805	2.62	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4031	4044	3827	3967	3.06	cps
Lead	208-1	18445	18665	18292	18468	1.02	cps
Lithium	6-1	5545767	5580740	5603882	5576796	0.52	cps
Magnesium	24-2	91491	89995	91394	90960	0.92	cps
Manganese	55-2	49057	49255	48984	49098	0.29	cps
Molybdenum	94-1	6435	6355	6702	6497	2.80	cps
Molybdenum	95-1	2054	2254	2240	2182	5.12	cps
Molybdenum	96-1	3157	3464	3390	3337	4.80	cps
Molybdenum	97-1	1263	1417	1433	1371	6.83	cps
Molybdenum	98-1	3424	3394	3584	3467	2.95	cps
Neodymium	150-1	3344	3390	3387	3374	0.77	cps
Neodymium	150-2	677	790	777	748	8.28	cps
Nickel	60-2	6548	6512	6155	6405	3.39	cps
Phosphorus	31-2	453	437	383	424	8.62	cps
Potassium	39-2	14010	13410	13183	13534	3.16	cps
Rhodium	103-1	9504850	9469605	9462636	9479030	0.24	cps
Rhodium	103-2	3470089	3479978	3430252	3460106	0.76	cps
Scandium	45-1	7640525	7628160	7657030	7641905	0.19	cps
Scandium	45-2	121693	122823	122476	122331	0.47	cps
Selenium	82-1	-10	-20	-17	-16	-32.73	cps
Selenium	77-2	7	3	7	6	34.70	cps
Selenium	78-2	17	7	3	9	78.08	cps
Silicon	28-1	8781108	8829180	8659686	8756658	1.00	cps
Silver	107-1	203	203	173	193	8.96	cps
Silver	109-1	173	160	153	162	6.28	cps
Sodium	23-2	25873	25392	24848	25371	2.02	cps
Strontium	86-1	34980	34633	33691	34435	1.94	cps
Strontium	88-1	292726	293768	292463	292986	0.24	cps
Sulfur	34-1	328507	330802	328766	329358	0.38	cps
Terbium	159-1	13530175	13593675	13497627	13540492	0.36	cps
Terbium	159-2	4156585	4074466	4090397	4107149	1.06	cps
Thallium	203-1	193	190	183	189	2.70	cps
Thallium	205-1	527	443	560	510	11.78	cps
Tin	118-1	2274	2177	2187	2212	2.40	cps
Titanium	47-1	31632	32156	31221	31670	1.48	cps
Uranium	238-1	913	830	973	906	7.95	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:36:20	DataFile Name :	144AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2517	2374	2364	2418	3.55	cps
Ytterbium	172-1	773	783	793	783	1.28	cps
Ytterbium	172-2	220	280	283	261	13.65	cps
Ytterbium	176-1	2087	1984	2080	2050	2.82	cps
Ytterbium	176-2	287	383	370	347	15.11	cps
Yttrium	89-1	19243831	19421278	18938016	19201042	1.27	cps
Yttrium	89-2	1171449	1167949	1169119	1169506	0.15	cps
Zinc	66-2	4137	3841	3944	3974	3.79	cps
Zirconium	90-1	15232	15132	14514	14959	2.60	cps
Zirconium	91-1	3234	3274	3227	3245	0.78	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	34568	33903	34417	34296	1.02	cps
Antimony	121-1	563	560	573	566	1.23	cps
Arsenic	75-2	117	100	137	118	15.59	cps
Barium	135-1	17441	17495	17949	17628	1.58	cps
Barium	137-1	31139	30685	30989	30938	0.75	cps
Beryllium	9-1	255	291	305	284	9.10	cps
Bismuth	209-1	8095417	7962396	8004534	8020782	0.85	cps
Bismuth	209-2	3002754	3000329	3039831	3014305	0.73	cps
Bromine	81-1	6025	5815	5568	5802	3.94	cps
Cadmium	108-1	100	123	120	114	11.03	cps
Cadmium	106-1	5605	5508	5448	5520	1.43	cps
Cadmium	111-1	1781	1729	1769	1759	1.56	cps
Calcium	43-1	215336	216061	217004	216134	0.39	cps
Calcium	44-1	3668239	3623783	3647337	3646453	0.61	cps
Carbon	12-1	2067300	2047734	2030513	2048515	0.90	cps
Carbon	12-2	13326	13123	13573	13341	1.69	cps
Chlorine	35-1	25649666	26596877	26905525	26384023	2.48	cps
Chlorine	35-2	97801	98968	98459	98409	0.59	cps
Chromium	52-2	2870	2694	2724	2763	3.42	cps
Cobalt	59-2	1907	1927	1910	1915	0.56	cps
Copper	63-2	8976	8729	9153	8953	2.38	cps
Dysprosium	156-1	2620	2540	2634	2598	1.94	cps
Dysprosium	156-2	700	867	753	773	11.01	cps
Erbium	164-1	2340	2290	2397	2342	2.28	cps
Erbium	164-2	683	700	737	707	3.86	cps
Gadolinium	160-1	2470	2534	2374	2459	3.28	cps
Gadolinium	160-2	930	880	877	896	3.34	cps
Holmium	165-1	12989139	12807387	13056560	12951029	1.00	cps
Holmium	165-2	4241155	4245237	4255674	4247355	0.18	cps
Indium	115-1	10306625	10097147	10301467	10235080	1.17	cps
Indium	115-2	897180	899274	898593	898349	0.12	cps
Iron	54-2	125394	124574	126053	125340	0.59	cps
Iron	56-2	2449055	2469974	2446952	2455327	0.52	cps
Iron	57-2	58158	57542	58546	58082	0.87	cps
Krypton	83-1	120	167	127	138	18.32	cps
Lead	206-1	4848	4711	4541	4700	3.27	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3831	3974	3894	3900	1.84	cps
Lead	208-1	18612	18405	18315	18444	0.83	cps
Lithium	6-1	5538349	5561386	5465461	5521732	0.91	cps
Magnesium	24-2	92266	90773	90153	91064	1.19	cps
Manganese	55-2	48646	47348	48318	48104	1.40	cps
Molybdenum	94-1	6615	6408	6385	6469	1.96	cps
Molybdenum	95-1	2190	2100	2027	2106	3.89	cps
Molybdenum	96-1	3117	3150	3344	3204	3.82	cps
Molybdenum	97-1	1140	1327	1217	1228	7.64	cps
Molybdenum	98-1	3617	3484	3550	3550	1.88	cps
Neodymium	150-1	3357	3164	3407	3309	3.88	cps
Neodymium	150-2	800	723	717	747	6.20	cps
Nickel	60-2	6251	6081	6101	6145	1.51	cps
Phosphorus	31-2	440	420	427	429	2.37	cps
Potassium	39-2	13306	12849	13183	13113	1.80	cps
Rhodium	103-1	9354017	9332415	9365887	9350773	0.18	cps
Rhodium	103-2	3418770	3396017	3401355	3405381	0.35	cps
Scandium	45-1	7451702	7401078	7484669	7445816	0.57	cps
Scandium	45-2	121428	121636	120674	121246	0.42	cps
Selenium	82-1	40	-13	-37	-3	-1179.01	cps
Selenium	77-2	0	7	3	3	100.05	cps
Selenium	78-2	13	7	3	8	65.47	cps
Silicon	28-1	8622910	8732083	8842909	8732634	1.26	cps
Silver	107-1	223	187	183	198	11.22	cps
Silver	109-1	57	143	143	114	43.72	cps
Sodium	23-2	23252	23759	23716	23576	1.19	cps
Strontium	86-1	33868	33814	34061	33914	0.38	cps
Strontium	88-1	286631	288076	290978	288562	0.77	cps
Sulfur	34-1	324429	323990	325125	324515	0.18	cps
Terbium	159-1	13262122	13180073	13116283	13186160	0.55	cps
Terbium	159-2	4010286	4047951	4042130	4033455	0.50	cps
Thallium	203-1	167	233	207	202	16.59	cps
Thallium	205-1	460	540	427	476	12.25	cps
Tin	118-1	1903	2174	2024	2034	6.65	cps
Titanium	47-1	31408	31775	30973	31385	1.28	cps
Uranium	238-1	940	903	807	883	7.80	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:39:41	DataFile Name :	145AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2474	2437	2524	2478	1.76	cps
Ytterbium	172-1	813	673	750	746	9.40	cps
Ytterbium	172-2	263	277	253	264	4.43	cps
Ytterbium	176-1	1924	1947	1997	1956	1.92	cps
Ytterbium	176-2	340	407	383	377	8.98	cps
Yttrium	89-1	18815880	18789696	18793430	18799669	0.08	cps
Yttrium	89-2	1164046	1162518	1162002	1162855	0.09	cps
Zinc	66-2	3627	3437	3620	3562	3.03	cps
Zirconium	90-1	14414	14701	14518	14544	1.00	cps
Zirconium	91-1	3044	3077	3210	3110	2.84	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6832	6485	6625	6647	2.63	cps
Antimony	121-1	207	190	133	177	21.76	cps
Arsenic	75-2	40	27	17	28	42.13	cps
Barium	135-1	3424	3387	3387	3399	0.62	cps
Barium	137-1	6435	5778	6138	6117	5.38	cps
Beryllium	9-1	246	216	177	213	16.16	cps
Bismuth	209-1	7956787	7866022	8040966	7954591	1.10	cps
Bismuth	209-2	2980066	2936366	2945768	2954067	0.78	cps
Bromine	81-1	5548	5484	5411	5481	1.25	cps
Cadmium	108-1	47	53	40	47	14.28	cps
Cadmium	106-1	5498	5338	5665	5500	2.97	cps
Cadmium	111-1	1234	1234	1318	1262	3.88	cps
Calcium	43-1	40554	41135	41459	41049	1.12	cps
Calcium	44-1	665710	675673	668460	669947	0.77	cps
Carbon	12-1	2079268	2035782	2027399	2047483	1.36	cps
Carbon	12-2	13386	13126	13503	13338	1.45	cps
Chlorine	35-1	6952076	7069217	7028203	7016499	0.85	cps
Chlorine	35-2	25212	24040	24905	24719	2.46	cps
Chromium	52-2	793	970	913	892	10.11	cps
Cobalt	59-2	457	460	480	466	2.71	cps
Copper	63-2	3390	3517	3537	3482	2.29	cps
Dysprosium	156-1	670	610	607	629	5.67	cps
Dysprosium	156-2	163	190	143	166	14.14	cps
Erbium	164-1	420	463	490	458	7.72	cps
Erbium	164-2	163	127	140	143	12.95	cps
Gadolinium	160-1	397	433	543	458	16.67	cps
Gadolinium	160-2	230	140	197	189	24.09	cps
Holmium	165-1	12599410	12584019	12791446	12658292	0.91	cps
Holmium	165-2	4108233	4193203	4150497	4150644	1.02	cps
Indium	115-1	10088186	10006954	10052580	10049240	0.41	cps
Indium	115-2	888727	878417	880265	882470	0.62	cps
Iron	54-2	24715	23900	23663	24093	2.29	cps
Iron	56-2	441447	442631	442829	442302	0.17	cps
Iron	57-2	11558	11471	11612	11547	0.61	cps
Krypton	83-1	83	127	160	123	31.17	cps
Lead	206-1	2014	2244	2184	2147	5.56	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1937	1937	1860	1911	2.32	cps
Lead	208-1	8671	8758	8608	8679	0.87	cps
Lithium	6-1	5483396	5618958	5700527	5600960	1.96	cps
Magnesium	24-2	17944	17674	17784	17801	0.76	cps
Manganese	55-2	9350	9086	9480	9305	2.15	cps
Molybdenum	94-1	1463	1433	1430	1442	1.27	cps
Molybdenum	95-1	557	517	600	558	7.47	cps
Molybdenum	96-1	783	840	830	818	3.70	cps
Molybdenum	97-1	290	300	293	294	1.73	cps
Molybdenum	98-1	860	870	830	853	2.44	cps
Neodymium	150-1	680	610	653	648	5.45	cps
Neodymium	150-2	147	150	120	139	11.84	cps
Nickel	60-2	2037	1817	1780	1878	7.39	cps
Phosphorus	31-2	90	67	97	84	18.65	cps
Potassium	39-2	6081	6251	5881	6071	3.05	cps
Rhodium	103-1	9188134	9276437	9240844	9235138	0.48	cps
Rhodium	103-2	3420556	3400007	3362236	3394267	0.87	cps
Scandium	45-1	7307958	7401331	7371198	7360163	0.65	cps
Scandium	45-2	118510	117811	118900	118407	0.47	cps
Selenium	82-1	47	-10	-60	-8	-686.28	cps
Selenium	77-2	7	3	0	3	100.05	cps
Selenium	78-2	0	0	7	2	173.21	cps
Silicon	28-1	1917030	1928802	1872558	1906130	1.56	cps
Silver	107-1	140	140	137	139	1.38	cps
Silver	109-1	87	50	47	61	36.32	cps
Sodium	23-2	13807	13093	13656	13519	2.78	cps
Strontium	86-1	6348	6638	6912	6633	4.25	cps
Strontium	88-1	55222	55219	54553	54998	0.70	cps
Sulfur	34-1	313625	314399	313046	313690	0.22	cps
Terbium	159-1	12831386	13042411	12990425	12954741	0.85	cps
Terbium	159-2	4023498	3996745	3949938	3990060	0.93	cps
Thallium	203-1	210	280	197	229	19.56	cps
Thallium	205-1	470	580	517	522	10.57	cps
Tin	118-1	1237	1133	1193	1188	4.37	cps
Titanium	47-1	6091	5931	6348	6124	3.43	cps
Uranium	238-1	167	223	160	183	18.98	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8G6L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:43:01	DataFile Name :	146AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	513	460	437	470	8.36	cps
Ytterbium	172-1	163	183	210	186	12.62	cps
Ytterbium	172-2	63	87	83	78	16.23	cps
Ytterbium	176-1	1500	1690	1610	1600	5.96	cps
Ytterbium	176-2	213	210	237	220	6.60	cps
Yttrium	89-1	18381777	18464029	18286072	18377293	0.48	cps
Yttrium	89-2	1140489	1129966	1130787	1133748	0.52	cps
Zinc	66-2	887	790	940	872	8.72	cps
Zirconium	90-1	3110	3257	3067	3145	3.17	cps
Zirconium	91-1	737	753	733	741	1.45	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	38832	38936	38782	38850	0.20	cps
Antimony	121-1	41700	42349	42332	42127	0.88	cps
Arsenic	75-2	440	390	410	413	6.09	cps
Barium	135-1	231758	230736	231604	231366	0.24	cps
Barium	137-1	399826	402856	404813	402499	0.62	cps
Beryllium	9-1	7909	8034	7967	7970	0.78	cps
Bismuth	209-1	7895886	7912245	7913105	7907078	0.12	cps
Bismuth	209-2	3033721	2955269	2966524	2985171	1.42	cps
Bromine	81-1	5484	5595	5615	5564	1.26	cps
Cadmium	108-1	487	473	453	471	3.56	cps
Cadmium	106-1	6071	5925	6041	6012	1.29	cps
Cadmium	111-1	6471	6518	6522	6504	0.43	cps
Calcium	43-1	208795	207305	207598	207899	0.38	cps
Calcium	44-1	3485944	3460825	3469358	3472042	0.37	cps
Carbon	12-1	2151422	2130030	2140735	2140729	0.50	cps
Carbon	12-2	14033	13553	13870	13819	1.77	cps
Chlorine	35-1	22719435	24172050	24599678	23830387	4.14	cps
Chlorine	35-2	91476	92634	92151	92087	0.63	cps
Chromium	52-2	19510	19140	19203	19284	1.03	cps
Cobalt	59-2	82128	83345	82829	82767	0.74	cps
Copper	63-2	38545	38786	38669	38667	0.31	cps
Dysprosium	156-1	2857	3060	3004	2974	3.53	cps
Dysprosium	156-2	887	963	1000	950	6.09	cps
Erbium	164-1	2494	2487	2594	2525	2.37	cps
Erbium	164-2	900	797	913	870	7.34	cps
Gadolinium	160-1	3004	2837	2827	2889	3.44	cps
Gadolinium	160-2	1017	1110	1033	1053	4.73	cps
Holmium	165-1	12821860	12736825	12615719	12724802	0.81	cps
Holmium	165-2	4139210	4163094	4106719	4136341	0.68	cps
Indium	115-1	9852050	9983757	9956914	9930907	0.70	cps
Indium	115-2	882420	884250	880064	882245	0.24	cps
Iron	54-2	134906	132672	134654	134077	0.91	cps
Iron	56-2	2624102	2611803	2580639	2605515	0.86	cps
Iron	57-2	62061	62121	61492	61891	0.56	cps
Krypton	83-1	153	123	87	121	27.57	cps
Lead	206-1	14038	13757	13921	13905	1.01	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11642	11869	12066	11859	1.79	cps
Lead	208-1	54909	54632	54672	54738	0.27	cps
Lithium	6-1	5637154	5785737	5651395	5691429	1.44	cps
Magnesium	24-2	87614	89258	87641	88171	1.07	cps
Manganese	55-2	64877	64749	65238	64955	0.39	cps
Molybdenum	94-1	61518	62034	62034	61862	0.48	cps
Molybdenum	95-1	101476	102051	101497	101675	0.32	cps
Molybdenum	96-1	107421	110431	108866	108906	1.38	cps
Molybdenum	97-1	62195	62553	63357	62702	0.95	cps
Molybdenum	98-1	161116	163687	162351	162385	0.79	cps
Neodymium	150-1	3774	3477	3521	3591	4.46	cps
Neodymium	150-2	863	863	767	831	6.72	cps
Nickel	60-2	26284	26815	27112	26737	1.57	cps
Phosphorus	31-2	417	433	447	432	3.48	cps
Potassium	39-2	16594	15639	15936	16056	3.04	cps
Rhodium	103-1	9034781	9191540	9200386	9142236	1.02	cps
Rhodium	103-2	3352347	3330609	3326268	3336408	0.42	cps
Scandium	45-1	7330245	7422804	7345361	7366137	0.67	cps
Scandium	45-2	119885	118540	117912	118779	0.85	cps
Selenium	82-1	713	720	897	777	13.39	cps
Selenium	77-2	20	17	20	19	10.18	cps
Selenium	78-2	37	53	30	40	30.04	cps
Silicon	28-1	7831542	7924380	7842553	7866158	0.64	cps
Silver	107-1	27528	27037	27270	27278	0.90	cps
Silver	109-1	26389	25103	25691	25727	2.50	cps
Sodium	23-2	25142	24695	24985	24940	0.91	cps
Strontium	86-1	1502642	1508405	1524858	1511968	0.76	cps
Strontium	88-1	12708170	12690114	12852535	12750273	0.70	cps
Sulfur	34-1	319932	317265	320376	319191	0.53	cps
Terbium	159-1	13122067	13010226	13117534	13083276	0.48	cps
Terbium	159-2	4017166	3981088	3956362	3984872	0.77	cps
Thallium	203-1	22035	21989	21485	21836	1.40	cps
Thallium	205-1	52469	51910	52261	52213	0.54	cps
Tin	118-1	2204	2324	2110	2212	4.83	cps
Titanium	47-1	35360	35494	35019	35291	0.69	cps
Uranium	238-1	947	923	993	954	3.73	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-05DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8G6S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:46:24	DataFile Name :	147AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	35915	35193	35364	35491	1.06	cps
Ytterbium	172-1	827	770	880	826	6.66	cps
Ytterbium	172-2	260	317	267	281	11.02	cps
Ytterbium	176-1	2017	1947	2047	2004	2.56	cps
Ytterbium	176-2	373	360	337	357	5.20	cps
Yttrium	89-1	18474045	18293358	18363636	18377013	0.50	cps
Yttrium	89-2	1150093	1145026	1131506	1142208	0.84	cps
Zinc	66-2	10921	10260	11001	10727	3.79	cps
Zirconium	90-1	11321	11498	11778	11533	2.00	cps
Zirconium	91-1	2614	2554	2607	2591	1.27	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	372416	369670	375546	372544	0.79	cps
Antimony	121-1	10247	10304	10097	10216	1.05	cps
Arsenic	75-2	102556	103752	103030	103113	0.58	cps
Barium	135-1	236750	237469	239829	238016	0.68	cps
Barium	137-1	410726	416131	415909	414255	0.74	cps
Beryllium	9-1	1734	1684	1671	1696	1.95	cps
Bismuth	209-1	8072471	8044816	7902433	8006573	1.14	cps
Bismuth	209-2	2947641	2986019	2894775	2942812	1.56	cps
Bromine	81-1	6715	7052	6795	6854	2.57	cps
Cadmium	108-1	187	133	200	173	20.35	cps
Cadmium	106-1	5828	5801	5711	5780	1.06	cps
Cadmium	111-1	1908	1937	1859	1901	2.08	cps
Calcium	43-1	176494	176629	175007	176043	0.51	cps
Calcium	44-1	2931006	2957042	2980257	2956102	0.83	cps
Carbon	12-1	4224066	4324104	4335205	4294458	1.43	cps
Carbon	12-2	28955	28621	28982	28853	0.70	cps
Chlorine	35-1	52841198	55677473	57363584	55294085	4.13	cps
Chlorine	35-2	210197	212564	217155	213305	1.66	cps
Chromium	52-2	75736	74459	75139	75111	0.85	cps
Cobalt	59-2	79792	79570	79698	79687	0.14	cps
Copper	63-2	295273	296170	297577	296340	0.39	cps
Dysprosium	156-1	21143	20596	20532	20757	1.62	cps
Dysprosium	156-2	6685	6622	6725	6677	0.78	cps
Erbium	164-1	21187	21204	21491	21294	0.80	cps
Erbium	164-2	6652	6558	6705	6638	1.12	cps
Gadolinium	160-1	20359	20272	21033	20555	2.03	cps
Gadolinium	160-2	7946	7939	8183	8022	1.73	cps
Holmium	165-1	12984455	12935234	13034356	12984681	0.38	cps
Holmium	165-2	4307173	4166733	4138435	4204113	2.15	cps
Indium	115-1	10073016	10160228	10154692	10129312	0.48	cps
Indium	115-2	886780	885884	891456	888040	0.34	cps
Iron	54-2	3712302	3746771	3717801	3725625	0.50	cps
Iron	56-2	68574244	68228166	67887847	68230086	0.50	cps
Iron	57-2	1765992	1782161	1770155	1772769	0.47	cps
Krypton	83-1	170	143	177	163	10.80	cps
Lead	206-1	883315	893759	887659	888244	0.59	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	727007	732107	731491	730202	0.38	cps
Lead	208-1	3568388	3611688	3551572	3577216	0.87	cps
Lithium	6-1	5712723	5681569	5615859	5670051	0.87	cps
Magnesium	24-2	729805	730927	738490	733074	0.64	cps
Manganese	55-2	767791	777330	782756	775959	0.98	cps
Molybdenum	94-1	18592	18823	18689	18702	0.62	cps
Molybdenum	95-1	16917	17097	16927	16980	0.60	cps
Molybdenum	96-1	20131	20602	20669	20467	1.43	cps
Molybdenum	97-1	10324	10164	10384	10291	1.11	cps
Molybdenum	98-1	26899	26933	27010	26947	0.21	cps
Neodymium	150-1	25030	26526	25574	25710	2.95	cps
Neodymium	150-2	5771	5788	5781	5780	0.14	cps
Nickel	60-2	24181	24598	24735	24504	1.18	cps
Phosphorus	31-2	1763	1587	1797	1716	6.58	cps
Potassium	39-2	99248	98963	101148	99786	1.19	cps
Rhodium	103-1	9290792	9068305	9259475	9206191	1.31	cps
Rhodium	103-2	3362079	3397470	3453583	3404377	1.36	cps
Scandium	45-1	7659149	7650124	7504009	7604427	1.15	cps
Scandium	45-2	124120	122752	126077	124316	1.34	cps
Selenium	82-1	247	223	210	227	8.19	cps
Selenium	77-2	33	33	23	30	19.25	cps
Selenium	78-2	63	20	17	33	78.09	cps
Silicon	28-1	9152645	9130652	9291153	9191483	0.95	cps
Silver	107-1	7242	6952	6692	6962	3.95	cps
Silver	109-1	6425	6772	6475	6557	2.86	cps
Sodium	23-2	43237	43103	43551	43297	0.53	cps
Strontium	86-1	246600	250319	249010	248643	0.76	cps
Strontium	88-1	2247942	2291813	2251863	2263873	1.07	cps
Sulfur	34-1	538433	542357	540633	540474	0.36	cps
Terbium	159-1	13249666	12931422	13341234	13174107	1.63	cps
Terbium	159-2	3983716	4091383	4074101	4049733	1.43	cps
Thallium	203-1	777	783	803	788	1.76	cps
Thallium	205-1	1837	1913	2017	1922	4.70	cps
Tin	118-1	8056	8229	8890	8392	5.24	cps
Titanium	47-1	594740	597156	600495	597464	0.48	cps
Uranium	238-1	11999	11849	12593	12147	3.24	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-08DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8H2	Dilution Factor :	2
Date & Time Acquired :	2025-01-24 18:49:43	DataFile Name :	148AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	121228	122095	123597	122307	0.98	cps
Ytterbium	172-1	6882	7305	7049	7079	3.01	cps
Ytterbium	172-2	2774	3097	2610	2827	8.76	cps
Ytterbium	176-1	6095	6178	6048	6107	1.08	cps
Ytterbium	176-2	1770	1873	1927	1857	4.29	cps
Yttrium	89-1	19104213	18934364	19079739	19039439	0.48	cps
Yttrium	89-2	1166943	1167632	1186566	1173713	0.95	cps
Zinc	66-2	46503	46523	47553	46859	1.28	cps
Zirconium	90-1	24692	25363	25450	25168	1.65	cps
Zirconium	91-1	6782	6788	6695	6755	0.77	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	313242	320970	314848	316353	1.29	cps
Antimony	121-1	1797	1707	1827	1777	3.52	cps
Arsenic	75-2	1503	1473	1343	1440	5.91	cps
Barium	135-1	195086	194247	195891	195075	0.42	cps
Barium	137-1	335617	338476	339031	337708	0.54	cps
Beryllium	9-1	1180	1179	1214	1191	1.67	cps
Bismuth	209-1	7960617	7876107	7971992	7936239	0.66	cps
Bismuth	209-2	2883086	2866174	2902935	2884065	0.64	cps
Bromine	81-1	5825	5588	5648	5687	2.16	cps
Cadmium	108-1	77	70	53	67	18.03	cps
Cadmium	106-1	5601	5678	5918	5732	2.88	cps
Cadmium	111-1	1260	1343	1396	1333	5.16	cps
Calcium	43-1	40279	40637	40159	40359	0.62	cps
Calcium	44-1	643454	647877	649336	646889	0.47	cps
Carbon	12-1	2179521	2078830	2096225	2118192	2.54	cps
Carbon	12-2	13840	14224	14110	14058	1.40	cps
Chlorine	35-1	17941102	18552099	18801436	18431546	2.40	cps
Chlorine	35-2	68772	67841	68782	68465	0.79	cps
Chromium	52-2	30496	29347	29657	29833	1.99	cps
Cobalt	59-2	44754	43780	43489	44008	1.50	cps
Copper	63-2	74651	75556	75888	75365	0.85	cps
Dysprosium	156-1	43253	42440	42407	42700	1.12	cps
Dysprosium	156-2	14124	14398	14078	14200	1.22	cps
Erbium	164-1	41772	42116	41528	41805	0.71	cps
Erbium	164-2	13187	13263	13257	13236	0.32	cps
Gadolinium	160-1	43708	44397	44213	44106	0.81	cps
Gadolinium	160-2	16948	16988	16701	16879	0.92	cps
Holmium	165-1	12887721	12682112	12692784	12754206	0.91	cps
Holmium	165-2	4136754	4069351	4089817	4098641	0.84	cps
Indium	115-1	9967669	9916779	9965513	9949987	0.29	cps
Indium	115-2	873509	860823	863263	865865	0.78	cps
Iron	54-2	1970884	2004207	1991804	1988965	0.85	cps
Iron	56-2	36132502	35925066	36194844	36084138	0.39	cps
Iron	57-2	864825	864546	867642	865671	0.20	cps
Krypton	83-1	200	153	220	191	17.90	cps
Lead	206-1	44988	44647	43934	44523	1.21	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36565	36498	36257	36440	0.44	cps
Lead	208-1	171740	171091	172578	171803	0.43	cps
Lithium	6-1	5652721	5524660	5641306	5606229	1.26	cps
Magnesium	24-2	595729	596631	593769	595376	0.25	cps
Manganese	55-2	818918	821691	816962	819190	0.29	cps
Molybdenum	94-1	6181	6478	6465	6375	2.63	cps
Molybdenum	95-1	5795	5661	5788	5748	1.31	cps
Molybdenum	96-1	7435	6972	7012	7140	3.60	cps
Molybdenum	97-1	3654	3520	3494	3556	2.41	cps
Molybdenum	98-1	9327	9116	9033	9159	1.65	cps
Neodymium	150-1	55534	56120	56525	56060	0.89	cps
Neodymium	150-2	12569	12329	12779	12559	1.79	cps
Nickel	60-2	27523	27523	27510	27519	0.03	cps
Phosphorus	31-2	540	503	557	533	5.12	cps
Potassium	39-2	70946	71288	72018	71418	0.77	cps
Rhodium	103-1	9122754	9068375	8944810	9045313	1.01	cps
Rhodium	103-2	3337330	3239297	3248048	3274891	1.66	cps
Scandium	45-1	7491504	7372462	7409878	7424615	0.82	cps
Scandium	45-2	120365	118661	118466	119164	0.88	cps
Selenium	82-1	47	87	10	48	80.24	cps
Selenium	77-2	60	40	73	58	29.04	cps
Selenium	78-2	43	40	50	44	11.46	cps
Silicon	28-1	1966664	1926582	1971632	1954959	1.26	cps
Silver	107-1	327	340	320	329	3.10	cps
Silver	109-1	230	177	203	203	13.11	cps
Sodium	23-2	14234	14057	14434	14241	1.32	cps
Strontium	86-1	30199	29915	29765	29960	0.74	cps
Strontium	88-1	248609	248849	249675	249044	0.22	cps
Sulfur	34-1	310141	308846	308270	309086	0.31	cps
Terbium	159-1	13024261	12840289	12734196	12866248	1.14	cps
Terbium	159-2	3947839	3959737	3900831	3936136	0.79	cps
Thallium	203-1	733	737	723	731	0.95	cps
Thallium	205-1	1840	1627	1860	1776	7.28	cps
Tin	118-1	4324	4341	4137	4267	2.65	cps
Titanium	47-1	316019	316150	337378	323182	3.80	cps
Uranium	238-1	12820	12470	13137	12809	2.61	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:53:02	DataFile Name :	149AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	51586	50940	51004	51177	0.70	cps
Ytterbium	172-1	13774	14211	13547	13844	2.44	cps
Ytterbium	172-2	5004	5071	5358	5144	3.65	cps
Ytterbium	176-1	9964	9650	9917	9844	1.72	cps
Ytterbium	176-2	3450	3307	3494	3417	2.86	cps
Yttrium	89-1	19104113	18757855	18811554	18891174	0.99	cps
Yttrium	89-2	1168906	1154449	1145706	1156354	1.01	cps
Zinc	66-2	14191	14384	14374	14316	0.76	cps
Zirconium	90-1	8389	8763	8313	8488	2.84	cps
Zirconium	91-1	1930	1807	1887	1875	3.34	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	314521	314673	313589	314261	0.19	cps
Antimony	121-1	1497	1657	1690	1615	6.40	cps
Arsenic	75-2	1290	1197	1247	1245	3.75	cps
Barium	135-1	198215	195834	196670	196906	0.61	cps
Barium	137-1	345099	346018	343580	344899	0.36	cps
Beryllium	9-1	1190	1232	1151	1191	3.41	cps
Bismuth	209-1	6974338	7620307	7787706	7460784	5.76	cps
Bismuth	209-2	2930196	2902167	2901299	2911221	0.56	cps
Bromine	81-1	5504	5638	5688	5610	1.69	cps
Cadmium	108-1	80	87	63	77	15.68	cps
Cadmium	106-1	4834	5368	5558	5253	7.14	cps
Cadmium	111-1	1091	1270	1281	1214	8.78	cps
Calcium	43-1	39825	39705	39467	39666	0.46	cps
Calcium	44-1	647962	640093	640828	642961	0.68	cps
Carbon	12-1	2174631	2135861	2117228	2142574	1.37	cps
Carbon	12-2	13673	14364	14397	14145	2.89	cps
Chlorine	35-1	19478961	20521126	20855214	20285100	3.54	cps
Chlorine	35-2	78062	78062	77801	77975	0.19	cps
Chromium	52-2	30272	29821	29514	29869	1.28	cps
Cobalt	59-2	43406	44770	43871	44016	1.58	cps
Copper	63-2	74668	74668	74785	74707	0.09	cps
Dysprosium	156-1	42594	42678	41982	42418	0.90	cps
Dysprosium	156-2	13897	14111	14318	14109	1.49	cps
Erbium	164-1	41628	42290	41471	41797	1.04	cps
Erbium	164-2	12729	12870	13050	12883	1.25	cps
Gadolinium	160-1	44156	43996	43042	43731	1.38	cps
Gadolinium	160-2	16490	16687	16764	16647	0.85	cps
Holmium	165-1	11338211	12409376	12584478	12110688	5.57	cps
Holmium	165-2	4139672	4105832	4137843	4127783	0.46	cps
Indium	115-1	8767181	9696242	9973838	9479087	6.67	cps
Indium	115-2	875827	874046	877064	875646	0.17	cps
Iron	54-2	1990847	2000627	1950531	1980669	1.34	cps
Iron	56-2	36134051	35465775	35630222	35743349	0.97	cps
Iron	57-2	864561	858200	859759	860840	0.39	cps
Krypton	83-1	207	200	197	201	2.53	cps
Lead	206-1	43871	43272	43824	43655	0.76	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35813	36170	35960	35981	0.50	cps
Lead	208-1	169354	166999	169595	168650	0.85	cps
Lithium	6-1	4994756	5569618	5638489	5400954	6.54	cps
Magnesium	24-2	588516	587432	589929	588625	0.21	cps
Manganese	55-2	810347	796201	807278	804609	0.92	cps
Molybdenum	94-1	5838	5645	5771	5751	1.71	cps
Molybdenum	95-1	5221	5381	5194	5266	1.92	cps
Molybdenum	96-1	6305	6228	6598	6377	3.06	cps
Molybdenum	97-1	3150	3160	3227	3179	1.31	cps
Molybdenum	98-1	8219	8246	7979	8148	1.80	cps
Neodymium	150-1	55106	55541	54992	55213	0.52	cps
Neodymium	150-2	12339	12382	12476	12399	0.56	cps
Nickel	60-2	27370	26929	27737	27345	1.48	cps
Phosphorus	31-2	610	520	607	579	8.82	cps
Potassium	39-2	72122	71985	72300	72136	0.22	cps
Rhodium	103-1	7941343	8788989	8938362	8556231	6.28	cps
Rhodium	103-2	3291577	3325183	3254542	3290434	1.07	cps
Scandium	45-1	6591599	7153955	7449484	7065013	6.17	cps
Scandium	45-2	120819	119286	121054	120386	0.80	cps
Selenium	82-1	43	7	40	30	67.58	cps
Selenium	77-2	97	87	57	80	26.02	cps
Selenium	78-2	53	67	33	51	32.83	cps
Silicon	28-1	3537628	3572924	3504502	3538352	0.97	cps
Silver	107-1	253	333	257	281	16.10	cps
Silver	109-1	157	237	177	190	21.91	cps
Sodium	23-2	13763	12969	13486	13406	3.01	cps
Strontium	86-1	29515	29217	28469	29067	1.85	cps
Strontium	88-1	249698	248973	249399	249356	0.15	cps
Sulfur	34-1	300320	298534	301159	300005	0.45	cps
Terbium	159-1	11469402	12615881	12878639	12321307	6.08	cps
Terbium	159-2	3929554	3929992	3984446	3947997	0.80	cps
Thallium	203-1	633	703	697	678	5.70	cps
Thallium	205-1	1710	1720	1743	1725	0.99	cps
Tin	118-1	3961	3904	4141	4002	3.09	cps
Titanium	47-1	327084	328371	325882	327112	0.38	cps
Uranium	238-1	12483	12770	12476	12576	1.33	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-03DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7D	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 18:56:22	DataFile Name :	150AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	51328	51589	50689	51202	0.90	cps
Ytterbium	172-1	13587	13370	13944	13634	2.13	cps
Ytterbium	172-2	4998	5068	5151	5072	1.51	cps
Ytterbium	176-1	9670	10087	9934	9897	2.13	cps
Ytterbium	176-2	3307	3671	3337	3438	5.87	cps
Yttrium	89-1	16656140	18558928	18557431	17924167	6.13	cps
Yttrium	89-2	1166701	1175627	1166346	1169558	0.45	cps
Zinc	66-2	14334	13710	14080	14041	2.23	cps
Zirconium	90-1	7559	8229	7752	7847	4.40	cps
Zirconium	91-1	1803	1877	1707	1796	4.75	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	63317	64308	64054	63893	0.81	cps
Antimony	121-1	387	433	460	427	8.70	cps
Arsenic	75-2	297	280	313	297	5.62	cps
Barium	135-1	39303	38735	39634	39224	1.16	cps
Barium	137-1	68948	68486	68877	68770	0.36	cps
Beryllium	9-1	380	337	437	385	13.04	cps
Bismuth	209-1	7509059	7781159	7884081	7724766	2.51	cps
Bismuth	209-2	2961813	2967530	2945867	2958403	0.38	cps
Bromine	81-1	5531	5434	5468	5478	0.90	cps
Cadmium	108-1	40	33	37	37	9.10	cps
Cadmium	106-1	5198	5725	5288	5403	5.22	cps
Cadmium	111-1	1072	1178	1095	1115	5.03	cps
Calcium	43-1	8249	8693	8376	8439	2.71	cps
Calcium	44-1	133300	136453	134865	134873	1.17	cps
Carbon	12-1	2051153	2062328	2038086	2050522	0.59	cps
Carbon	12-2	13233	13353	13096	13227	0.97	cps
Chlorine	35-1	4908914	5082163	5123724	5038267	2.26	cps
Chlorine	35-2	17564	17657	17651	17624	0.30	cps
Chromium	52-2	6532	6572	6185	6429	3.31	cps
Cobalt	59-2	9390	9093	9250	9244	1.61	cps
Copper	63-2	16807	16453	16914	16724	1.44	cps
Dysprosium	156-1	8796	8763	9106	8889	2.13	cps
Dysprosium	156-2	2894	2970	2890	2918	1.55	cps
Erbium	164-1	8363	8006	8356	8242	2.48	cps
Erbium	164-2	2620	2524	2670	2605	2.86	cps
Gadolinium	160-1	8830	9297	9050	9059	2.58	cps
Gadolinium	160-2	3651	3587	3534	3591	1.63	cps
Holmium	165-1	12105234	12522456	12691810	12439833	2.43	cps
Holmium	165-2	4144826	4177225	4128793	4150281	0.59	cps
Indium	115-1	9556875	10018919	10038617	9871470	2.76	cps
Indium	115-2	873987	880419	873384	875930	0.45	cps
Iron	54-2	376696	381392	377464	378517	0.67	cps
Iron	56-2	7273032	7332953	7268045	7291344	0.50	cps
Iron	57-2	174510	175739	177520	175923	0.86	cps
Krypton	83-1	130	97	127	118	15.59	cps
Lead	206-1	10401	10558	10207	10389	1.69	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8610	8680	8386	8558	1.79	cps
Lead	208-1	39480	39584	39130	39398	0.60	cps
Lithium	6-1	5393439	5514780	5552893	5487037	1.52	cps
Magnesium	24-2	119185	119259	121000	119815	0.86	cps
Manganese	55-2	166347	166370	166467	166395	0.04	cps
Molybdenum	94-1	1510	1537	1387	1478	5.42	cps
Molybdenum	95-1	1257	1237	1333	1276	4.00	cps
Molybdenum	96-1	1723	1587	1607	1639	4.50	cps
Molybdenum	97-1	830	887	803	840	5.07	cps
Molybdenum	98-1	2060	1867	2057	1995	5.55	cps
Neodymium	150-1	11438	11148	11211	11266	1.35	cps
Neodymium	150-2	2444	2384	2677	2501	6.20	cps
Nickel	60-2	6455	6428	6075	6319	3.36	cps
Phosphorus	31-2	120	113	130	121	6.92	cps
Potassium	39-2	17200	17494	17644	17446	1.29	cps
Rhodium	103-1	8685254	9066081	9093331	8948222	2.55	cps
Rhodium	103-2	3274705	3291070	3334092	3299956	0.93	cps
Scandium	45-1	7000359	7254163	7235539	7163354	1.97	cps
Scandium	45-2	117465	115587	117569	116873	0.95	cps
Selenium	82-1	-17	67	17	22	188.70	cps
Selenium	77-2	20	27	17	21	24.12	cps
Selenium	78-2	33	3	7	14	113.83	cps
Silicon	28-1	716003	717049	717688	716913	0.12	cps
Silver	107-1	140	193	153	162	17.11	cps
Silver	109-1	83	87	47	72	30.73	cps
Sodium	23-2	10834	11161	11158	11051	1.70	cps
Strontium	86-1	6085	6281	6231	6199	1.65	cps
Strontium	88-1	50889	51331	50253	50824	1.07	cps
Sulfur	34-1	301326	302008	301766	301700	0.11	cps
Terbium	159-1	12458111	12755628	12928195	12713978	1.87	cps
Terbium	159-2	3949044	3972876	3987731	3969884	0.49	cps
Thallium	203-1	367	290	317	324	12.00	cps
Thallium	205-1	727	703	727	719	1.87	cps
Tin	118-1	1700	1687	1630	1672	2.22	cps
Titanium	47-1	62127	63771	63767	63222	1.50	cps
Uranium	238-1	2597	2680	2577	2618	2.09	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-02LDLX25	Instrumnet Name :	P8
Client Sample ID :	YE8F7L	Dilution Factor :	25
Date & Time Acquired :	2025-01-24 18:59:43	DataFile Name :	151AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10347	10210	9860	10139	2.48	cps
Ytterbium	172-1	2730	2917	2854	2834	3.35	cps
Ytterbium	172-2	1080	1037	1083	1067	2.44	cps
Ytterbium	176-1	3227	3230	3367	3275	2.44	cps
Ytterbium	176-2	853	933	800	862	7.78	cps
Yttrium	89-1	17546269	18153016	18091010	17930098	1.86	cps
Yttrium	89-2	1138138	1137072	1132177	1135796	0.28	cps
Zinc	66-2	3257	2924	3074	3085	5.41	cps
Zirconium	90-1	2210	2003	2080	2098	4.98	cps
Zirconium	91-1	457	480	577	504	12.61	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	336023	335806	336147	335992	0.05	cps
Antimony	121-1	40660	40510	40510	40560	0.21	cps
Arsenic	75-2	1673	1490	1523	1562	6.25	cps
Barium	135-1	429919	436255	435769	433981	0.81	cps
Barium	137-1	742437	748117	749480	746678	0.50	cps
Beryllium	9-1	8857	8729	9020	8869	1.65	cps
Bismuth	209-1	7310524	7379244	7345079	7344949	0.47	cps
Bismuth	209-2	2927161	2933370	2928087	2929539	0.11	cps
Bromine	81-1	5725	5885	5901	5837	1.67	cps
Cadmium	108-1	473	480	390	448	11.20	cps
Cadmium	106-1	5765	5811	5691	5756	1.05	cps
Cadmium	111-1	6516	6494	6120	6377	3.49	cps
Calcium	43-1	46809	47301	47742	47284	0.99	cps
Calcium	44-1	720228	734072	736599	730299	1.21	cps
Carbon	12-1	2205761	2228640	2238807	2224403	0.76	cps
Carbon	12-2	14060	14487	14674	14407	2.18	cps
Chlorine	35-1	19806522	21409359	21729196	20981692	4.91	cps
Chlorine	35-2	81531	82322	81082	81645	0.77	cps
Chromium	52-2	49612	49392	48870	49291	0.77	cps
Cobalt	59-2	121472	122434	120340	121415	0.86	cps
Copper	63-2	106028	107378	107113	106840	0.67	cps
Dysprosium	156-1	44751	44895	43731	44459	1.43	cps
Dysprosium	156-2	15082	14898	14928	14970	0.66	cps
Erbium	164-1	43611	44511	44514	44212	1.18	cps
Erbium	164-2	13320	13427	13607	13451	1.08	cps
Gadolinium	160-1	45638	46240	46267	46048	0.77	cps
Gadolinium	160-2	17842	18249	17515	17869	2.06	cps
Holmium	165-1	11911178	12072321	11785168	11922889	1.21	cps
Holmium	165-2	4130787	4163815	4124692	4139765	0.51	cps
Indium	115-1	9248909	9338566	9115231	9234235	1.22	cps
Indium	115-2	871253	880491	877863	876536	0.54	cps
Iron	54-2	2071416	2083223	1996204	2050281	2.30	cps
Iron	56-2	37252885	37427600	37288591	37323026	0.25	cps
Iron	57-2	896890	898309	897412	897537	0.08	cps
Krypton	83-1	123	240	170	178	33.03	cps
Lead	206-1	50354	51562	51281	51066	1.24	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	41145	41486	41894	41509	0.90	cps
Lead	208-1	194882	197160	196849	196297	0.63	cps
Lithium	6-1	5249770	5303638	5151769	5235059	1.47	cps
Magnesium	24-2	630417	628158	625465	628013	0.39	cps
Manganese	55-2	811177	814692	808805	811558	0.36	cps
Molybdenum	94-1	59389	61519	60491	60466	1.76	cps
Molybdenum	95-1	100442	101467	100906	100938	0.51	cps
Molybdenum	96-1	106511	107532	108332	107458	0.85	cps
Molybdenum	97-1	61147	61593	62751	61830	1.34	cps
Molybdenum	98-1	158871	162614	163234	161573	1.46	cps
Neodymium	150-1	58577	59320	59779	59225	1.02	cps
Neodymium	150-2	13550	13100	13333	13328	1.69	cps
Nickel	60-2	49466	49673	48409	49182	1.38	cps
Phosphorus	31-2	563	610	597	590	4.07	cps
Potassium	39-2	77523	78143	78227	77965	0.49	cps
Rhodium	103-1	8510559	8597037	8257781	8455126	2.09	cps
Rhodium	103-2	3299996	3324185	3292400	3305527	0.50	cps
Scandium	45-1	6956290	7043306	6826581	6942059	1.57	cps
Scandium	45-2	119293	120002	120634	119976	0.56	cps
Selenium	82-1	770	613	670	684	11.59	cps
Selenium	77-2	83	53	47	61	31.96	cps
Selenium	78-2	100	87	63	83	22.27	cps
Silicon	28-1	4824186	4521092	4574761	4640013	3.49	cps
Silver	107-1	26505	26859	27123	26829	1.16	cps
Silver	109-1	25460	25484	25884	25609	0.93	cps
Sodium	23-2	15331	16009	15889	15743	2.30	cps
Strontium	86-1	1494183	1493808	1521397	1503129	1.05	cps
Strontium	88-1	12752159	12746969	12709305	12736144	0.18	cps
Sulfur	34-1	302515	301262	301500	301759	0.22	cps
Terbium	159-1	12139958	12117801	11897382	12051714	1.11	cps
Terbium	159-2	3996216	4069138	4021965	4029106	0.92	cps
Thallium	203-1	21508	21855	22797	22053	3.02	cps
Thallium	205-1	51800	52188	52978	52322	1.15	cps
Tin	118-1	4301	4131	4367	4266	2.86	cps
Titanium	47-1	337226	355988	339224	344146	2.99	cps
Uranium	238-1	12543	12867	12436	12615	1.78	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1135-04DLX5	Instrumnet Name :	P8
Client Sample ID :	YE8F7S	Dilution Factor :	5
Date & Time Acquired :	2025-01-24 19:03:05	DataFile Name :	152AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	84149	84920	84423	84497	0.46	cps
Ytterbium	172-1	14171	14311	14408	14297	0.83	cps
Ytterbium	172-2	5284	5318	5221	5274	0.93	cps
Ytterbium	176-1	9977	10131	10254	10121	1.37	cps
Ytterbium	176-2	3641	3591	3577	3603	0.93	cps
Yttrium	89-1	17678421	17553012	17582485	17604639	0.37	cps
Yttrium	89-2	1179412	1189343	1179065	1182607	0.49	cps
Zinc	66-2	20942	21590	21229	21254	1.53	cps
Zirconium	90-1	9291	7115	6845	7750	17.30	cps
Zirconium	91-1	1553	2463	1477	1831	29.95	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	273701	275712	277973	275795	0.77	cps
Antimony	121-1	45265	45820	47840	46308	2.93	cps
Arsenic	75-2	9233	9083	9270	9195	1.08	cps
Barium	135-1	510198	526295	535037	523843	2.41	cps
Barium	137-1	895615	918590	931171	915125	1.97	cps
Beryllium	9-1	2305	2285	2297	2296	0.44	cps
Bismuth	209-1	7982508	8198261	8248158	8142975	1.73	cps
Bismuth	209-2	3085246	2996742	2958206	3013398	2.16	cps
Bromine	81-1	13670	14241	14428	14113	2.80	cps
Cadmium	108-1	1663	1687	1703	1685	1.19	cps
Cadmium	106-1	8313	8369	8259	8314	0.66	cps
Cadmium	111-1	19608	20344	20581	20178	2.51	cps
Calcium	43-1	6575891	6748749	6845954	6723531	2.03	cps
Calcium	44-1	104208058	107836012	109838985	107294352	2.66	cps
Carbon	12-1	14226820	14849605	15194437	14756954	3.32	cps
Carbon	12-2	101403	101735	102007	101715	0.30	cps
Chlorine	35-1	124948121	133445025	138703435	132365527	5.24	cps
Chlorine	35-2	517359	523779	525139	522092	0.80	cps
Chromium	52-2	55182	55427	55025	55211	0.37	cps
Cobalt	59-2	29631	29684	29140	29485	1.02	cps
Copper	63-2	1397328	1408176	1411416	1405640	0.52	cps
Dysprosium	156-1	36951	37897	39037	37962	2.75	cps
Dysprosium	156-2	11115	10698	10921	10911	1.91	cps
Erbium	164-1	30351	31170	31040	30854	1.43	cps
Erbium	164-2	9347	9250	9537	9378	1.56	cps
Gadolinium	160-1	32703	32981	34444	33376	2.80	cps
Gadolinium	160-2	12719	12593	12579	12631	0.61	cps
Holmium	165-1	13383752	13696104	13783251	13621035	1.54	cps
Holmium	165-2	4547137	4376201	4286503	4403281	3.01	cps
Indium	115-1	10312382	10578553	10753472	10548136	2.11	cps
Indium	115-2	972272	950986	930941	951400	2.17	cps
Iron	54-2	1306903	1311407	1303866	1307392	0.29	cps
Iron	56-2	25258119	25077207	25233215	25189514	0.39	cps
Iron	57-2	598683	607103	610225	605337	0.99	cps
Krypton	83-1	153	233	157	181	24.99	cps
Lead	206-1	4236959	4272744	4372013	4293905	1.63	cps

1500

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3511996	3523725	3602815	3546179	1.39	cps
Lead	208-1	16284839	16376128	16645937	16435634	1.14	cps
Lithium	6-1	5663571	5576442	5427327	5555780	2.15	cps
Magnesium	24-2	870334	875020	877661	874338	0.42	cps
Manganese	55-2	485043	488634	482485	485387	0.64	cps
Molybdenum	94-1	65245	66786	70522	67518	4.02	cps
Molybdenum	95-1	15846	16497	16523	16289	2.36	cps
Molybdenum	96-1	26499	27494	28125	27373	3.00	cps
Molybdenum	97-1	9794	10351	10387	10177	3.27	cps
Molybdenum	98-1	26228	26763	26970	26653	1.44	cps
Neodymium	150-1	54731	56073	57861	56222	2.79	cps
Neodymium	150-2	12746	13090	12800	12878	1.44	cps
Nickel	60-2	22561	23019	22835	22805	1.01	cps
Phosphorus	31-2	5171	5118	5178	5155	0.64	cps
Potassium	39-2	391995	392184	395559	393246	0.51	cps
Rhodium	103-1	9187439	9575426	9590755	9451207	2.42	cps
Rhodium	103-2	3631552	3545018	3470824	3549131	2.27	cps
Scandium	45-1	7801601	7885725	8025244	7904190	1.43	cps
Scandium	45-2	136397	133847	129430	133224	2.65	cps
Selenium	82-1	247	307	313	289	12.71	cps
Selenium	77-2	67	67	50	61	15.75	cps
Selenium	78-2	50	37	33	40	22.05	cps
Silicon	28-1	24723297	25970258	25833035	25508863	2.68	cps
Silver	107-1	103850	106037	109046	106311	2.45	cps
Silver	109-1	98532	101235	103112	100960	2.28	cps
Sodium	23-2	2695980	2697344	2686191	2693172	0.23	cps
Strontium	86-1	2033996	2104031	2149529	2095852	2.78	cps
Strontium	88-1	17286623	17739826	18126145	17717532	2.37	cps
Sulfur	34-1	2981642	3036085	3095876	3037868	1.88	cps
Terbium	159-1	13342812	13910014	14134602	13795809	2.96	cps
Terbium	159-2	4414437	4310019	4215728	4313395	2.30	cps
Thallium	203-1	2417	2537	2544	2499	2.85	cps
Thallium	205-1	6055	6372	6598	6342	4.31	cps
Tin	118-1	138385	143425	146198	142669	2.78	cps
Titanium	47-1	368269	379875	385200	377781	2.29	cps
Uranium	238-1	51869	51691	53288	52283	1.67	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1102-03A	Instrumnet Name :	P8
Client Sample ID :	MH2H30A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:06:25	DataFile Name :	153AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40019	40384	40083	40162	0.48	cps
Ytterbium	172-1	8893	9147	9423	9154	2.90	cps
Ytterbium	172-2	3367	3297	3370	3345	1.24	cps
Ytterbium	176-1	7712	8009	8116	7946	2.63	cps
Ytterbium	176-2	2470	2627	2504	2534	3.26	cps
Yttrium	89-1	19502362	20397474	20380781	20093539	2.55	cps
Yttrium	89-2	1312235	1294436	1259006	1288559	2.10	cps
Zinc	66-2	592657	603931	600198	598929	0.96	cps
Zirconium	90-1	153931	161455	162125	159170	2.86	cps
Zirconium	91-1	33798	35927	36140	35288	3.67	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	188914	186854	182496	186088	1.76	cps
Antimony	121-1	3110	2887	3087	3028	4.05	cps
Arsenic	75-2	467	490	497	484	3.25	cps
Barium	135-1	93335	95440	96171	94982	1.55	cps
Barium	137-1	162756	165920	166079	164918	1.14	cps
Beryllium	9-1	492	497	505	498	1.26	cps
Bismuth	209-1	8329151	8501925	8419291	8416789	1.03	cps
Bismuth	209-2	3063564	3145622	3103814	3104333	1.32	cps
Bromine	81-1	6692	7015	6905	6871	2.39	cps
Cadmium	108-1	413	423	337	391	12.12	cps
Cadmium	106-1	6862	6825	6445	6711	3.44	cps
Cadmium	111-1	5000	5013	5041	5018	0.41	cps
Calcium	43-1	1139029	1167401	1214182	1173537	3.23	cps
Calcium	44-1	19142744	19538631	19440776	19374050	1.06	cps
Carbon	12-1	2139041	2138447	2089782	2122423	1.33	cps
Carbon	12-2	13750	13860	13610	13740	0.91	cps
Chlorine	35-1	125221281	131713208	133271155	130068548	3.28	cps
Chlorine	35-2	487344	496519	493069	492310	0.94	cps
Chromium	52-2	12749	12606	12736	12697	0.62	cps
Cobalt	59-2	9980	10427	10017	10141	2.45	cps
Copper	63-2	40825	41447	41283	41185	0.78	cps
Dysprosium	156-1	12976	13453	13253	13228	1.81	cps
Dysprosium	156-2	3981	4264	4131	4125	3.44	cps
Erbium	164-1	12029	12222	12599	12284	2.36	cps
Erbium	164-2	3564	3711	3531	3602	2.66	cps
Gadolinium	160-1	12960	13530	13257	13249	2.15	cps
Gadolinium	160-2	4771	5174	4801	4915	4.57	cps
Holmium	165-1	13839653	13986178	14103280	13976370	0.95	cps
Holmium	165-2	4373948	4466269	4444528	4428248	1.09	cps
Indium	115-1	10802528	10951950	10942435	10898971	0.77	cps
Indium	115-2	941694	959747	967204	956215	1.37	cps
Iron	54-2	684172	690976	683586	686245	0.60	cps
Iron	56-2	13145382	13192271	13196525	13178059	0.22	cps
Iron	57-2	316777	316791	318219	317263	0.26	cps
Krypton	83-1	150	147	163	153	5.75	cps
Lead	206-1	21214	21605	21878	21566	1.55	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17769	17786	17919	17825	0.46	cps
Lead	208-1	83021	84556	84307	83961	0.98	cps
Lithium	6-1	5456436	5440431	5432971	5443279	0.22	cps
Magnesium	24-2	494131	494783	490016	492976	0.52	cps
Manganese	55-2	824011	828974	826790	826591	0.30	cps
Molybdenum	94-1	32728	32892	33012	32878	0.43	cps
Molybdenum	95-1	11255	11251	11285	11264	0.16	cps
Molybdenum	96-1	16096	15939	16653	16230	2.31	cps
Molybdenum	97-1	6795	6602	6942	6779	2.52	cps
Molybdenum	98-1	17721	17788	17815	17775	0.27	cps
Neodymium	150-1	17351	17725	17775	17617	1.31	cps
Neodymium	150-2	3957	3851	3967	3925	1.65	cps
Nickel	60-2	29691	30265	29821	29926	1.01	cps
Phosphorus	31-2	1933	2180	2080	2065	6.01	cps
Potassium	39-2	52157	52241	51649	52016	0.62	cps
Rhodium	103-1	9794611	9923807	10046399	9921606	1.27	cps
Rhodium	103-2	3587603	3700916	3696050	3661523	1.75	cps
Scandium	45-1	8030114	8125999	7997792	8051302	0.83	cps
Scandium	45-2	130937	134290	134731	133319	1.56	cps
Selenium	82-1	107	140	43	97	50.80	cps
Selenium	77-2	20	23	3	16	68.90	cps
Selenium	78-2	10	27	23	20	44.10	cps
Silicon	28-1	45056078	45222598	44976864	45085180	0.28	cps
Silver	107-1	1213	967	957	1046	13.91	cps
Silver	109-1	1047	713	760	840	21.49	cps
Sodium	23-2	76583	77793	80281	78219	2.41	cps
Strontium	86-1	180513	180766	180438	180572	0.10	cps
Strontium	88-1	1622392	1610299	1672793	1635161	2.03	cps
Sulfur	34-1	368168	373755	374090	372005	0.89	cps
Terbium	159-1	13896432	14311884	14137921	14115412	1.48	cps
Terbium	159-2	4292701	4240857	4331990	4288516	1.07	cps
Thallium	203-1	430	537	583	517	15.21	cps
Thallium	205-1	1103	1130	1230	1155	5.78	cps
Tin	118-1	5088	7290	6244	6207	17.75	cps
Titanium	47-1	164648	168478	166672	166599	1.15	cps
Uranium	238-1	4538	4457	4414	4470	1.40	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	Q1105-03A	Instrumnet Name :	P8
Client Sample ID :	YE8G6A	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:09:38	DataFile Name :	154AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13343	13256	13136	13245	0.78	cps
Ytterbium	172-1	3784	3701	3854	3779	2.03	cps
Ytterbium	172-2	1340	1243	1287	1290	3.75	cps
Ytterbium	176-1	4091	4351	4237	4226	3.09	cps
Ytterbium	176-2	1110	1210	1017	1112	8.69	cps
Yttrium	89-1	19950493	20225948	20167002	20114481	0.72	cps
Yttrium	89-2	1248556	1276893	1288317	1271255	1.61	cps
Zinc	66-2	18622	18452	18869	18648	1.12	cps
Zirconium	90-1	72665	73157	73057	72960	0.36	cps
Zirconium	91-1	16163	16373	16366	16301	0.73	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2185141	2235338	2191987	2204155	1.23	cps
Antimony	121-1	5064264	5108441	5022042	5064916	0.85	cps
Arsenic	75-2	85370	82459	83274	83701	1.79	cps
Barium	135-1	6539387	6410780	6471301	6473822	0.99	cps
Barium	137-1	11131185	11094807	11073066	11099686	0.26	cps
Beryllium	9-1	1781296	1753204	1752369	1762290	0.93	cps
Bismuth	209-1	6624802	6449800	6505463	6526688	1.37	cps
Bismuth	209-2	2405732	2413915	2383128	2400925	0.66	cps
Bromine	81-1	5645	5328	5321	5431	3.40	cps
Cadmium	108-1	104750	105570	104707	105009	0.46	cps
Cadmium	106-1	151309	152781	152036	152042	0.48	cps
Cadmium	111-1	1231835	1245278	1251828	1242980	0.82	cps
Calcium	43-1	9662531	9810582	9668216	9713776	0.86	cps
Calcium	44-1	158042318	158962168	157127911	158044132	0.58	cps
Carbon	12-1	2302867	2321013	2330040	2317973	0.60	cps
Carbon	12-2	17968	17834	18121	17974	0.80	cps
Chlorine	35-1	1681438	1669326	1614579	1655114	2.15	cps
Chlorine	35-2	5638	5291	5364	5431	3.37	cps
Chromium	52-2	980324	977979	979102	979135	0.12	cps
Cobalt	59-2	1838485	1861557	1877116	1859053	1.05	cps
Copper	63-2	13179476	13183020	13093727	13152074	0.38	cps
Dysprosium	156-1	437	417	457	437	4.58	cps
Dysprosium	156-2	67	70	63	67	5.00	cps
Erbium	164-1	400	340	280	340	17.65	cps
Erbium	164-2	83	80	77	80	4.16	cps
Gadolinium	160-1	173	240	210	208	16.07	cps
Gadolinium	160-2	80	60	103	81	26.74	cps
Holmium	165-1	11937257	11558751	11678608	11724872	1.65	cps
Holmium	165-2	3797486	3873995	3848319	3839933	1.01	cps
Indium	115-1	8691626	8426836	8556370	8558277	1.55	cps
Indium	115-2	764539	760138	762965	762547	0.29	cps
Iron	54-2	10251964	10235816	10104550	10197444	0.79	cps
Iron	56-2	189522244	187331224	186562917	187805462	0.82	cps
Iron	57-2	4772052	4743729	4728779	4748186	0.46	cps
Krypton	83-1	137	133	190	153	20.74	cps
Lead	206-1	20435854	20617906	20576653	20543471	0.46	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17611272	17657081	17583145	17617166	0.21	cps
Lead	208-1	80906881	81224013	81382725	81171206	0.30	cps
Lithium	6-1	4956381	4855761	4831879	4881341	1.35	cps
Magnesium	24-2	37445248	37025524	37049774	37173515	0.63	cps
Manganese	55-2	4539094	4430304	4422578	4463992	1.46	cps
Molybdenum	94-1	18408637	18635060	18451146	18498281	0.65	cps
Molybdenum	95-1	26518095	26812479	26859149	26729907	0.69	cps
Molybdenum	96-1	29099152	29288255	29382857	29256755	0.49	cps
Molybdenum	97-1	16305440	16552422	16455316	16437726	0.76	cps
Molybdenum	98-1	43156801	42647074	42941160	42915012	0.60	cps
Neodymium	150-1	730	830	650	737	12.24	cps
Neodymium	150-2	27	50	20	32	48.88	cps
Nickel	60-2	467471	466254	462753	465493	0.53	cps
Phosphorus	31-2	18635	18085	17975	18232	1.94	cps
Potassium	39-2	10616939	10693205	10516236	10608793	0.84	cps
Rhodium	103-1	7562723	7446005	7470353	7493027	0.82	cps
Rhodium	103-2	2737771	2675724	2694504	2702666	1.18	cps
Scandium	45-1	6696887	6548975	6572652	6606171	1.20	cps
Scandium	45-2	107723	108999	107491	108071	0.75	cps
Selenium	82-1	76749	78690	75637	77025	2.01	cps
Selenium	77-2	1153	1303	1253	1237	6.18	cps
Selenium	78-2	4114	4074	4211	4133	1.70	cps
Silicon	28-1	27267055	27241900	27299359	27269438	0.11	cps
Silver	107-1	6124140	6277237	6272338	6224572	1.40	cps
Silver	109-1	5903953	5993996	5894703	5930884	0.92	cps
Sodium	23-2	74683784	75308716	73940429	74644309	0.92	cps
Strontium	86-1	1938267	1911795	1926367	1925477	0.69	cps
Strontium	88-1	16121526	16329871	16327418	16259605	0.74	cps
Sulfur	34-1	880257	880061	874833	878384	0.35	cps
Terbium	159-1	11943185	11749875	11678052	11790371	1.16	cps
Terbium	159-2	3654530	3599620	3637066	3630406	0.77	cps
Thallium	203-1	5282346	5280137	5354725	5305736	0.80	cps
Thallium	205-1	12424319	12459472	12555049	12479613	0.54	cps
Tin	118-1	4343572	4331859	4351381	4342271	0.23	cps
Titanium	47-1	8194714	8321429	8276227	8264123	0.78	cps
Uranium	238-1	16547089	16777781	16572694	16632521	0.76	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:19:51	DataFile Name :	157CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	779286	781751	772931	777989	0.58	cps
Ytterbium	172-1	327	250	367	314	18.86	cps
Ytterbium	172-2	80	137	93	103	28.67	cps
Ytterbium	176-1	25107	24964	25274	25115	0.62	cps
Ytterbium	176-2	7839	7806	7916	7854	0.72	cps
Yttrium	89-1	16693228	16162022	16379534	16411595	1.63	cps
Yttrium	89-2	1038026	1039226	1034767	1037339	0.22	cps
Zinc	66-2	1351679	1349706	1342936	1348107	0.34	cps
Zirconium	90-1	9305096	9345943	9380147	9343729	0.40	cps
Zirconium	91-1	2087685	2131229	2131116	2116677	1.19	cps

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On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	87	137	120	114	22.24	cps
Antimony	121-1	1923	1913	1543	1793	12.08	cps
Arsenic	75-2	10	13	3	9	57.30	cps
Barium	135-1	1143	1097	1020	1087	5.73	cps
Barium	137-1	2084	1893	1823	1933	6.96	cps
Beryllium	9-1	949	872	792	871	8.97	cps
Bismuth	209-1	7483279	7571387	7394762	7483143	1.18	cps
Bismuth	209-2	2845910	2854302	2877429	2859214	0.57	cps
Bromine	81-1	5301	5398	5181	5293	2.05	cps
Cadmium	108-1	53	37	47	46	18.41	cps
Cadmium	106-1	5121	5128	4934	5061	2.17	cps
Cadmium	111-1	1194	1190	1101	1161	4.52	cps
Calcium	43-1	860	727	700	762	11.25	cps
Calcium	44-1	14127	12579	11705	12804	9.58	cps
Carbon	12-1	1985243	1956558	1943987	1961929	1.08	cps
Carbon	12-2	12756	12552	12452	12587	1.23	cps
Chlorine	35-1	1317328	1260999	1234442	1270923	3.33	cps
Chlorine	35-2	4137	4167	4144	4150	0.38	cps
Chromium	52-2	487	527	500	504	4.04	cps
Cobalt	59-2	210	183	197	197	6.78	cps
Copper	63-2	2687	2527	2360	2525	6.47	cps
Dysprosium	156-1	90	103	103	99	7.79	cps
Dysprosium	156-2	0	10	7	6	91.64	cps
Erbium	164-1	63	40	77	60	30.93	cps
Erbium	164-2	17	27	17	20	28.86	cps
Gadolinium	160-1	30	30	23	28	13.86	cps
Gadolinium	160-2	10	3	7	7	50.03	cps
Holmium	165-1	11866162	11894024	11812001	11857396	0.35	cps
Holmium	165-2	4008099	4001209	3913875	3974394	1.32	cps
Indium	115-1	9474920	9571348	9472437	9506235	0.59	cps
Indium	115-2	848228	850115	846979	848441	0.19	cps
Iron	54-2	860	640	713	738	15.18	cps
Iron	56-2	12776	11998	11548	12107	5.13	cps
Iron	57-2	293	353	267	304	14.58	cps
Krypton	83-1	120	107	117	114	6.06	cps
Lead	206-1	3324	2977	2654	2985	11.23	cps

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Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2830	2594	2490	2638	6.61	cps
Lead	208-1	12953	11856	10695	11834	9.54	cps
Lithium	6-1	5176527	5263208	5244209	5227982	0.87	cps
Magnesium	24-2	1673	1643	1537	1618	4.44	cps
Manganese	55-2	517	580	480	526	9.63	cps
Molybdenum	94-1	1883	1590	1570	1681	10.44	cps
Molybdenum	95-1	2384	2050	1820	2085	13.59	cps
Molybdenum	96-1	2737	2374	1950	2354	16.73	cps
Molybdenum	97-1	1533	1387	1127	1349	15.27	cps
Molybdenum	98-1	3847	3220	2724	3264	17.25	cps
Neodymium	150-1	60	53	57	57	5.89	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	753	790	803	782	3.31	cps
Phosphorus	31-2	27	17	37	27	37.50	cps
Potassium	39-2	5111	5058	5168	5112	1.08	cps
Rhodium	103-1	8525175	8586958	8534386	8548840	0.39	cps
Rhodium	103-2	3176479	3219763	3214845	3203696	0.74	cps
Scandium	45-1	6685491	6821754	6820364	6775869	1.16	cps
Scandium	45-2	111797	111542	110826	111388	0.45	cps
Selenium	82-1	-7	7	53	18	177.22	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	10	7	6	91.64	cps
Silicon	28-1	287952	286423	301468	291948	2.84	cps
Silver	107-1	1303	1017	1067	1129	13.56	cps
Silver	109-1	1163	937	883	994	14.95	cps
Sodium	23-2	17591	17197	16696	17161	2.61	cps
Strontium	86-1	327	267	257	283	13.36	cps
Strontium	88-1	1293	1107	1143	1181	8.37	cps
Sulfur	34-1	277652	277329	276398	277126	0.23	cps
Terbium	159-1	12006159	12178544	12062968	12082557	0.73	cps
Terbium	159-2	3810263	3891378	3875976	3859206	1.12	cps
Thallium	203-1	1490	1250	1140	1293	13.84	cps
Thallium	205-1	3354	3037	2687	3026	11.02	cps
Tin	118-1	1657	1650	1550	1619	3.69	cps
Titanium	47-1	633	620	553	602	7.12	cps
Uranium	238-1	1063	887	660	870	23.24	cps

Reviewed By:Mohan
On:1/28/2025 4:22:54 PM
Inst Id :P8

LB Number :	LB134440	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-24 19:22:40	DataFile Name :	158CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	60	33	43	46	29.58	cps
Ytterbium	172-1	67	47	53	56	18.33	cps
Ytterbium	172-2	20	13	43	26	61.64	cps
Ytterbium	176-1	1467	1670	1593	1577	6.51	cps
Ytterbium	176-2	137	167	167	157	11.06	cps
Yttrium	89-1	16944670	17096427	17364200	17135099	1.24	cps
Yttrium	89-2	1076963	1092834	1090918	1086905	0.80	cps
Zinc	66-2	297	307	263	289	7.85	cps
Zirconium	90-1	1397	1453	1253	1368	7.54	cps
Zirconium	91-1	303	263	267	278	7.99	cps

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Prep Standard - Chemical Standard Summary

Order ID : Q1105

Test : Metals CLP MS FULL

Prepbatch ID : PB166154,

Sequence ID/Qc Batch ID: LB134440,

Standard ID :
MP82128,MP84041,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP84051,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84118,MP84119,

Chemical ID :
M5288,M5289,M5295,M5298,M5304,M5476,M5496,M5497,M5498,M5513,M5519,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5977,M5978,M5981,M5983,M5994,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M6040,M6055,M6121,M6126,M6127,M6128,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84042	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84043	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M5496 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5298 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M6128 + 9.90000ml of M5497 + 9.90000ml of M5806 + 9.90000ml of M6127 = Final Quantity: 1000.000 ml

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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)	MP84044	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84043 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP84045	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84043 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP84046	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84043 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP84047	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84044 = Final Quantity: 100.000 ml

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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)	MP84048	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5298 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5806 + 2.50000ml of M6121 + 2.50000ml of M6127 + 225.25000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP84049	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84048 = Final Quantity: 100.000 ml

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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)	MP84050	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84049 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP84051	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M5295 + 98.00000ml of MP84042 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84052	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5298 + 12.45000ml of M5519 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M5806 + 24.95000ml of M6127 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M6128 + 4.95000ml of M5496 + 5.00000ml of M5976 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84053	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84042 = Final Quantity: 100.000 ml

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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	MP84054	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84055	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84042 = Final Quantity: 100.000 ml

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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	MP84056	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84055 + 96.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84057	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84042 = Final Quantity: 250.000 ml

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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	MP84073	01/14/2025	01/31/2025	Janvi Patel	None	None	Mohan Bera 01/16/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5298 + 5.00000ml of M5497 + 5.00000ml of M5806 + 5.00000ml of M6127 + 79.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3964	CONC.LCSS SPIKE	MP84118	01/21/2025	02/04/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/22/2025

FROM 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.25000ml of M6128 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.00000ml of M5977 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M5978 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5519 + 12.50000ml of M5806 + 12.50000ml of M6127 + 155.70000ml of W3112 + 2.50000ml of M6032 + 2.50000ml of M6121 + 4.80000ml of M5476 + 5.00000ml of M5298 + 5.00000ml of M6126 + 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	MP84119	01/21/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/22/2025

FROM 0.02500ml of M5977 + 0.05000ml of M5476 + 5.00000ml of M5994 + 5.00000ml of M5999 + 39.92500ml of MP84042 = Final Quantity: 50.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

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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.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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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.	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

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	M5994

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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:

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

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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

M6032

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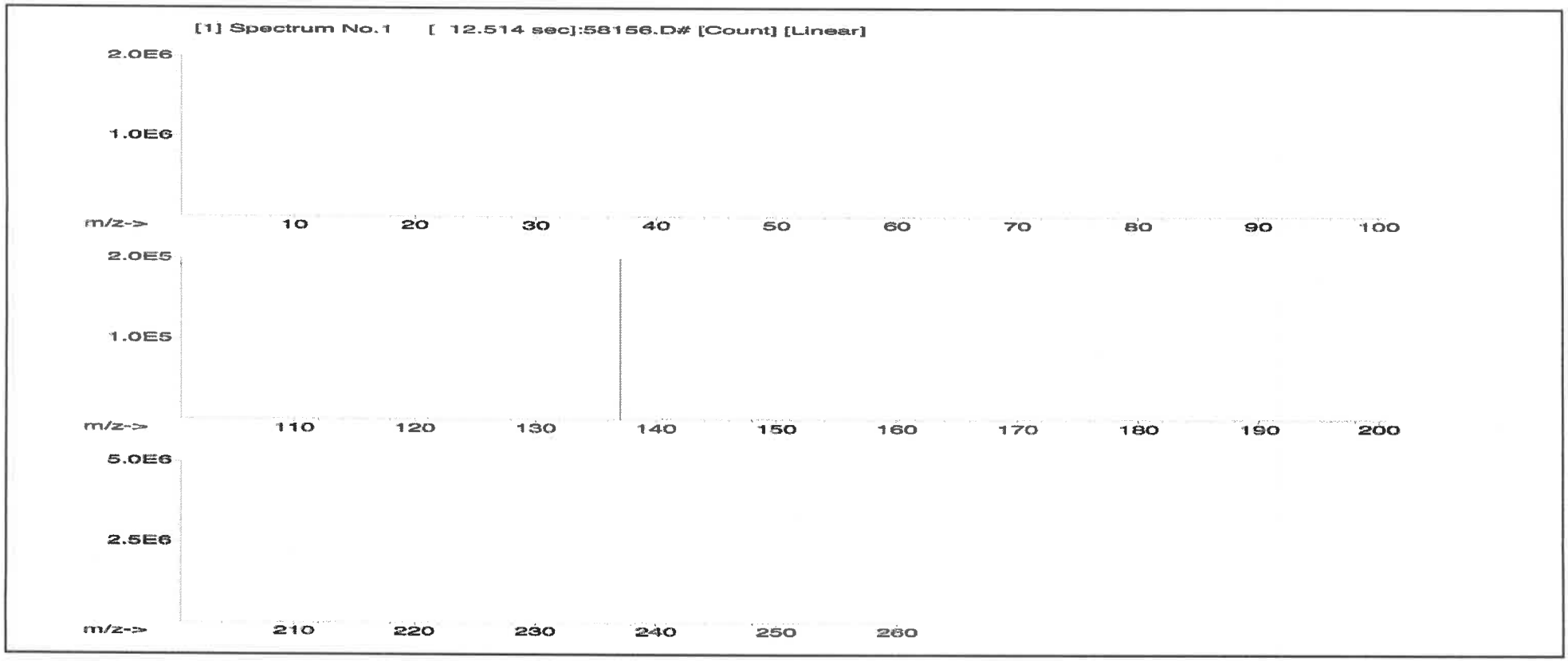
1537

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Solvent:**	24002546	Nitric Acid
Lot Number:	**010924**				
Description:	**Barium (Ba)**			2%	40.0 (mL) Nitric Acid
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito	
Formulated By:	Giovanni Esposito 010924
Pedro Rentas	
Reviewed By:	Pedro L. Rentas 010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1539

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

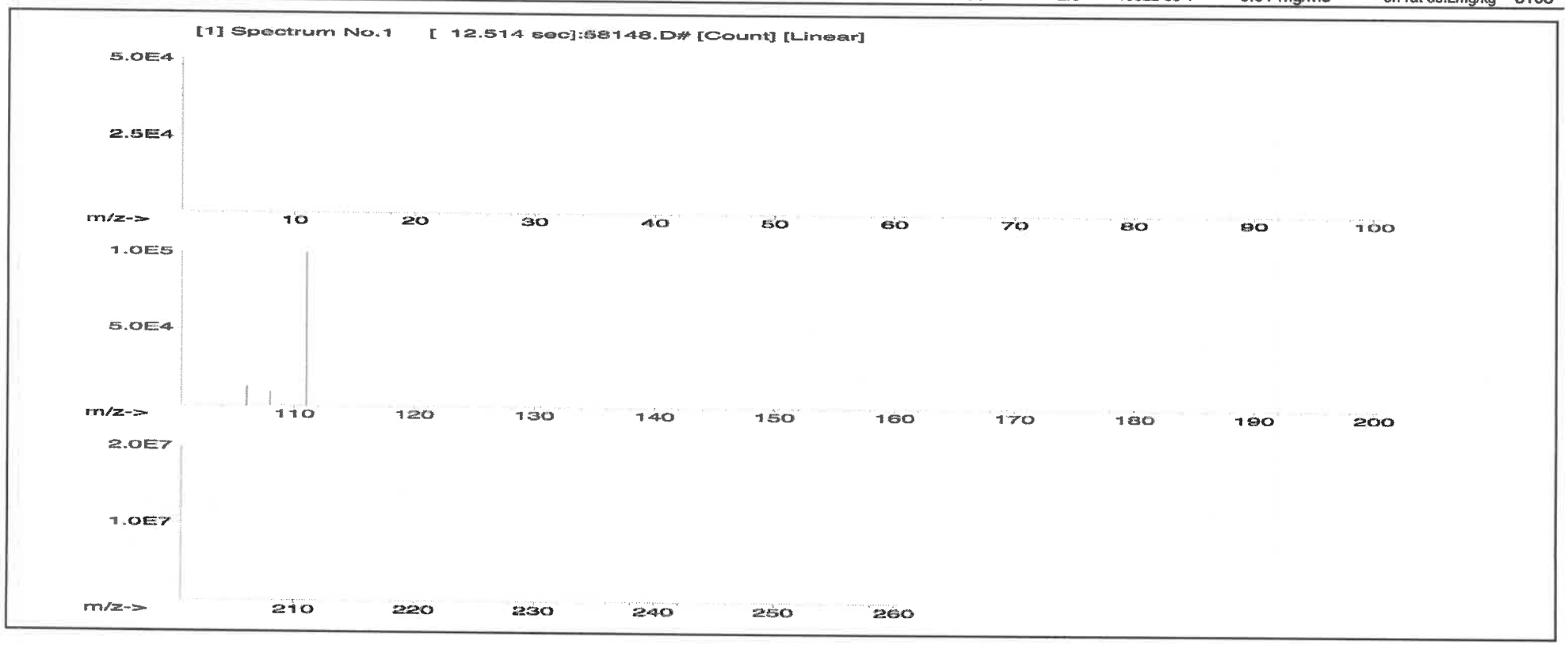
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



1540

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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Certified Reference Material CRM

R: 8/5/24 M6025

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1541

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

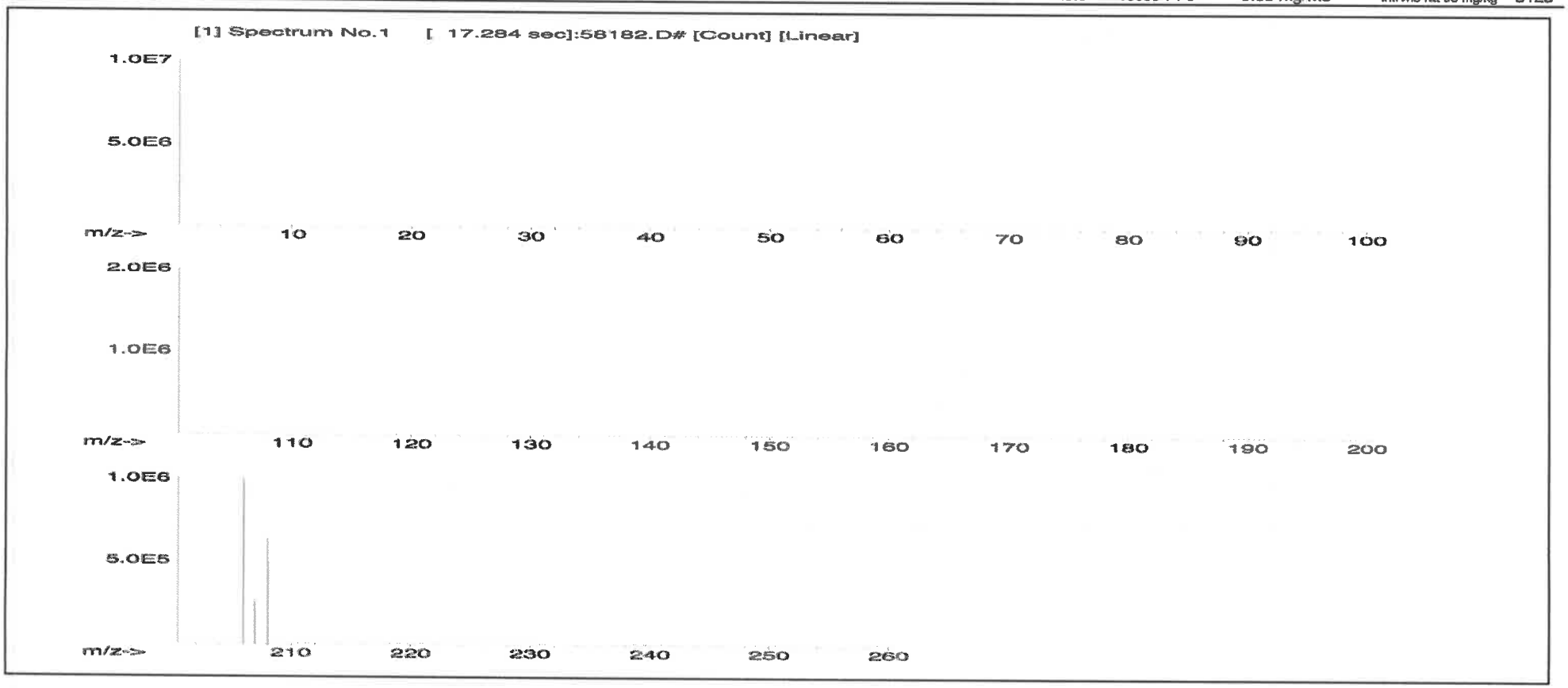
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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



1542

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5288 R: 07/21/2022

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1543

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

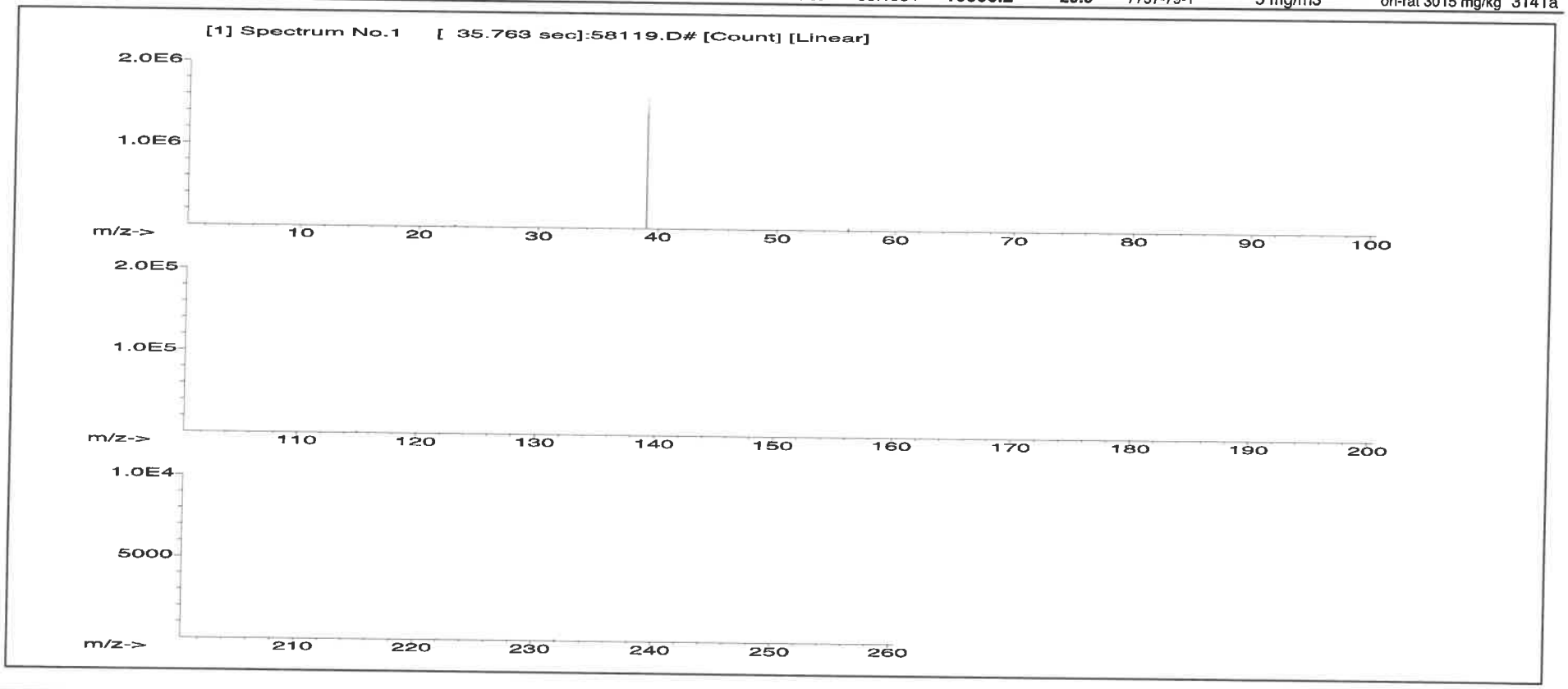
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By: Lawrence Barry 071122

Reviewed By: Pedro L. Rentas 071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5289 R: 07/12/22 BH

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1545

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

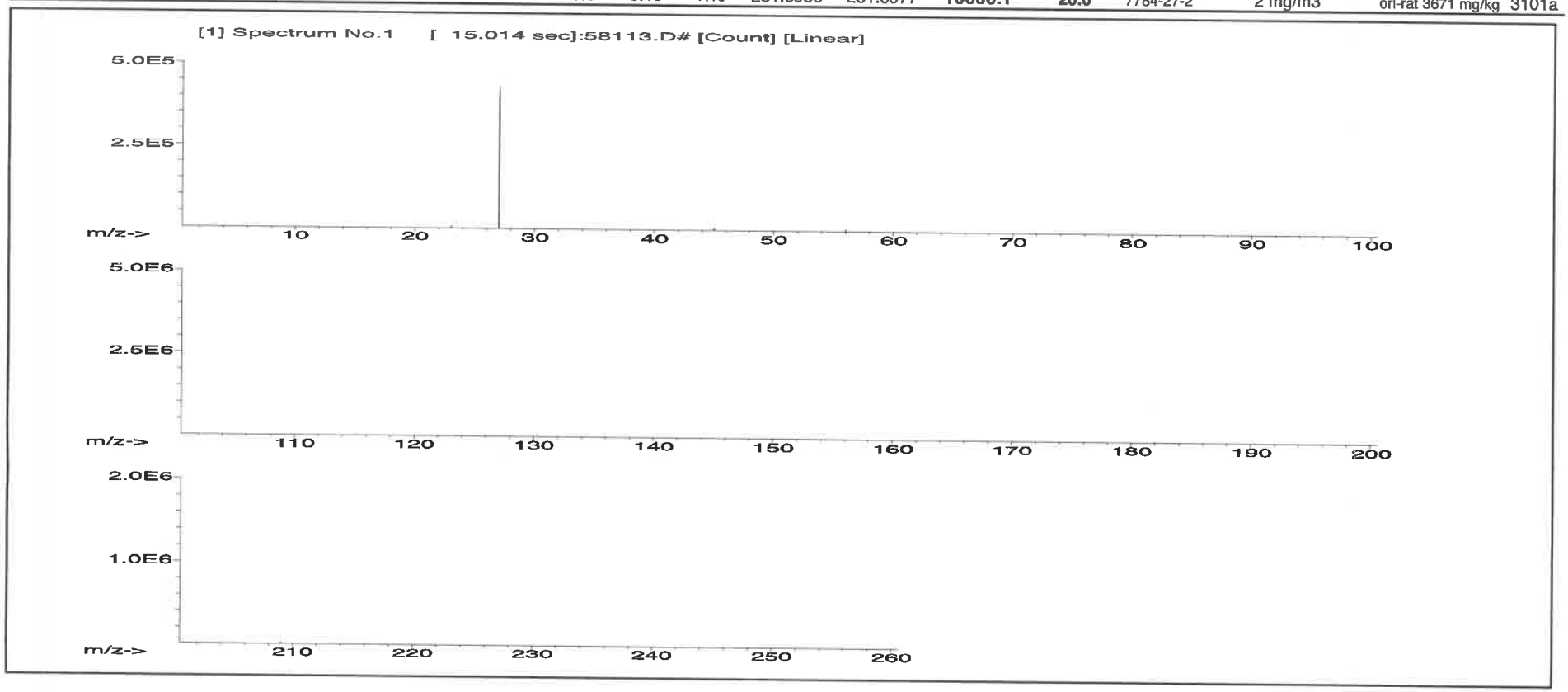
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



1546

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

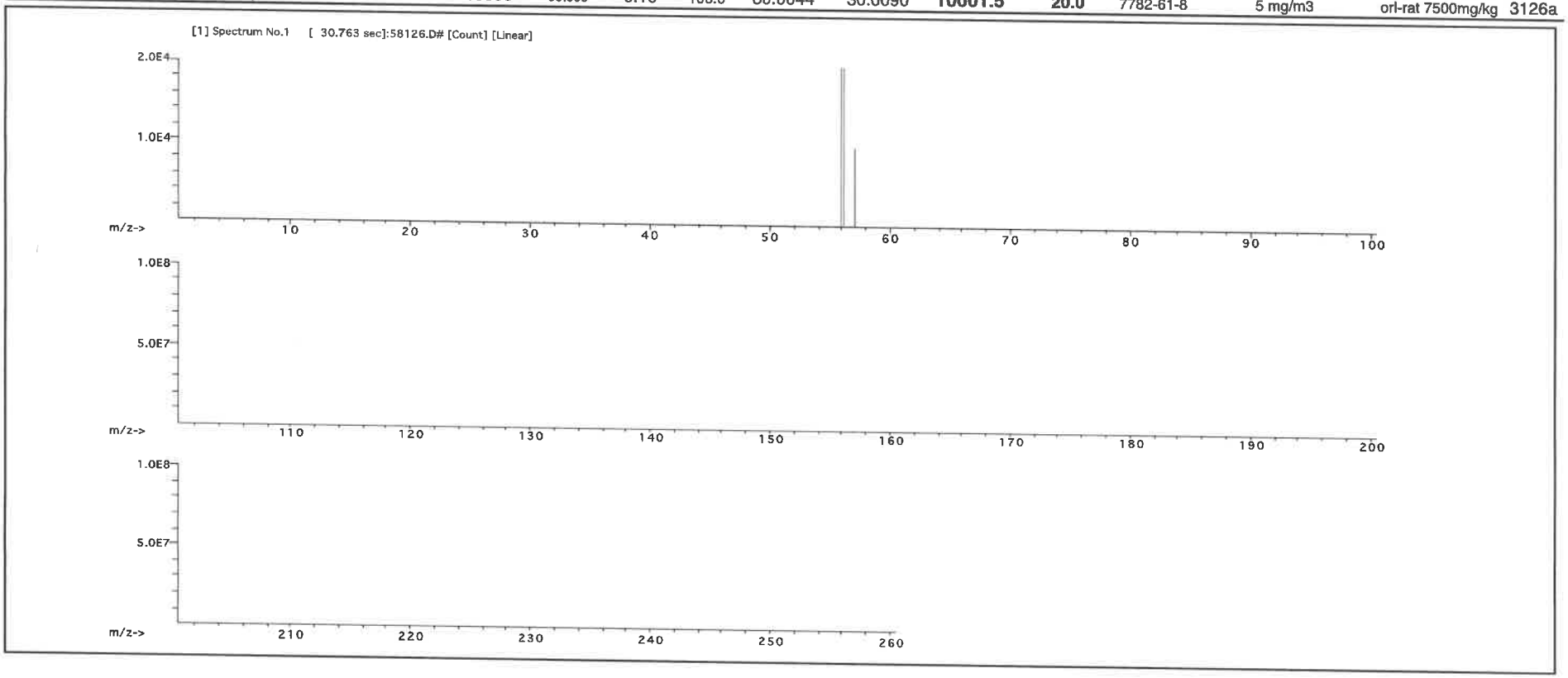
Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	020422
Reviewed By:	Pedro L. Rentas	020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



1549

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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).

1550

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Certificate of Analysis

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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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www.absolutestandards.com

Certified Reference Material CRM

M5496 R 7/20/23

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1555

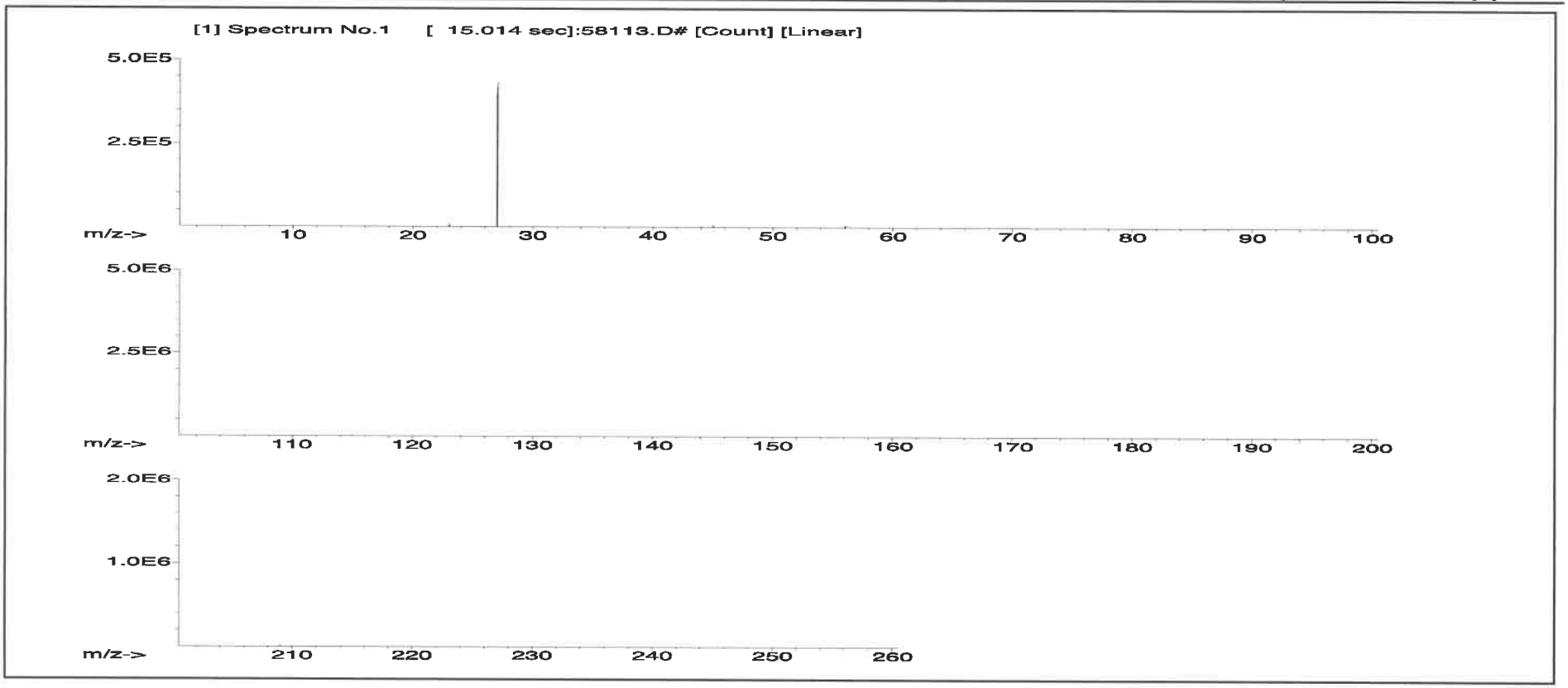
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**011623**	**Solvent:**	20510011	Nitric Acid	
Description:	**Aluminum (Al)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

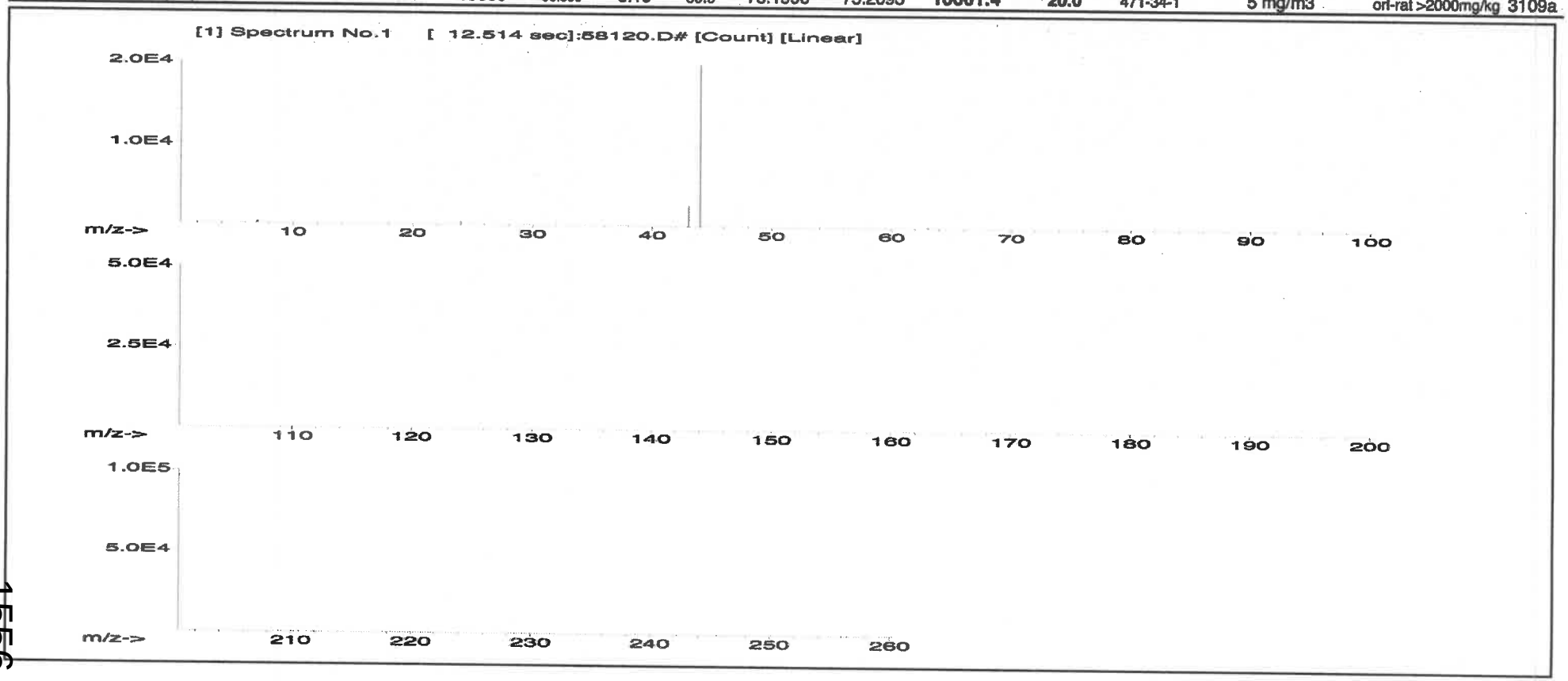
	Lot #	
Solvent:	21110221	Nitric Acid
2%	60.0 (mL)	Nitric Acid

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



1556

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

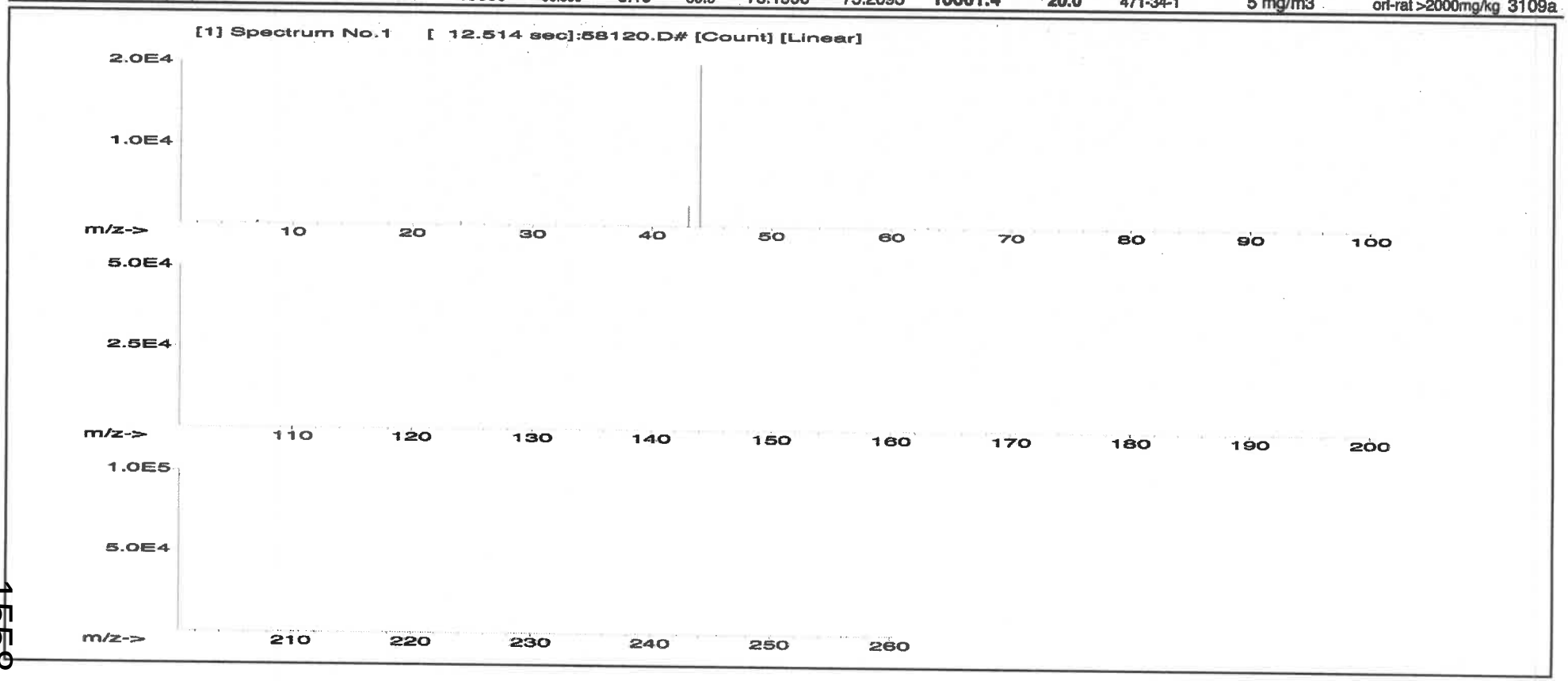
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



1558

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).

T559

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Certified Reference Material CRM

MA513 R:03/17/23 BF

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

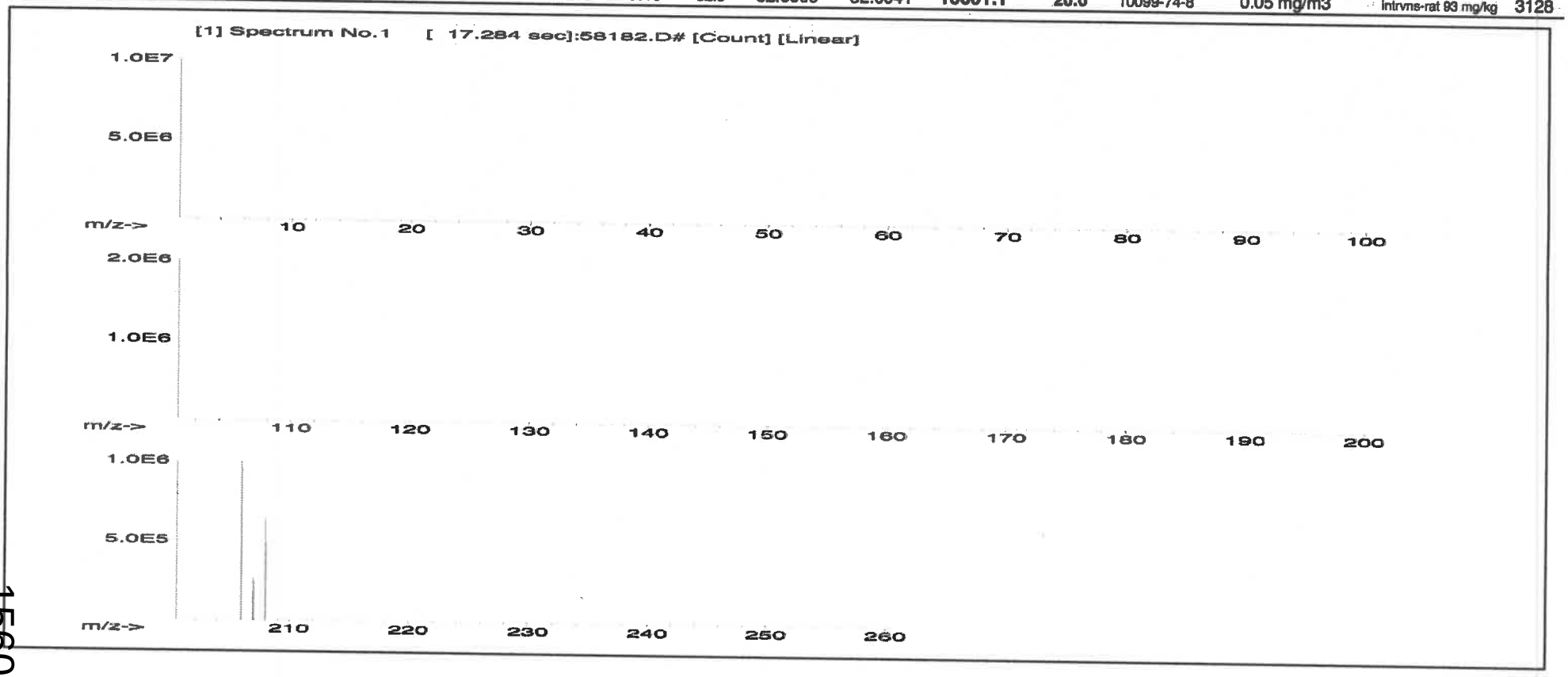
Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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
Pedro Rentas		
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



1560

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).

T561

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Certified Reference Material CRM

M5519. M5520 BH R:03/17/23

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1562

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

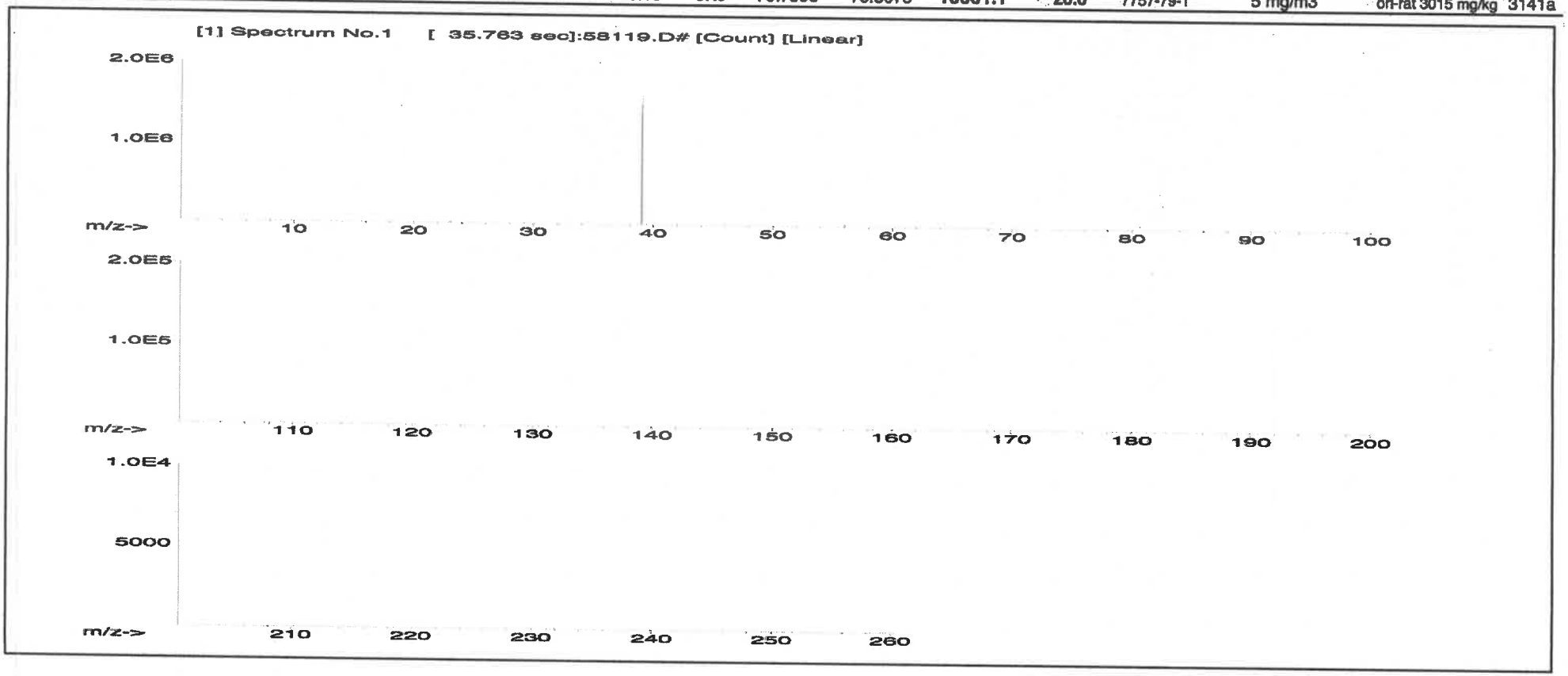
		Lot #	
Solvent:	20510011		Nitric Acid
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



1563

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5658 R! 8/25/23

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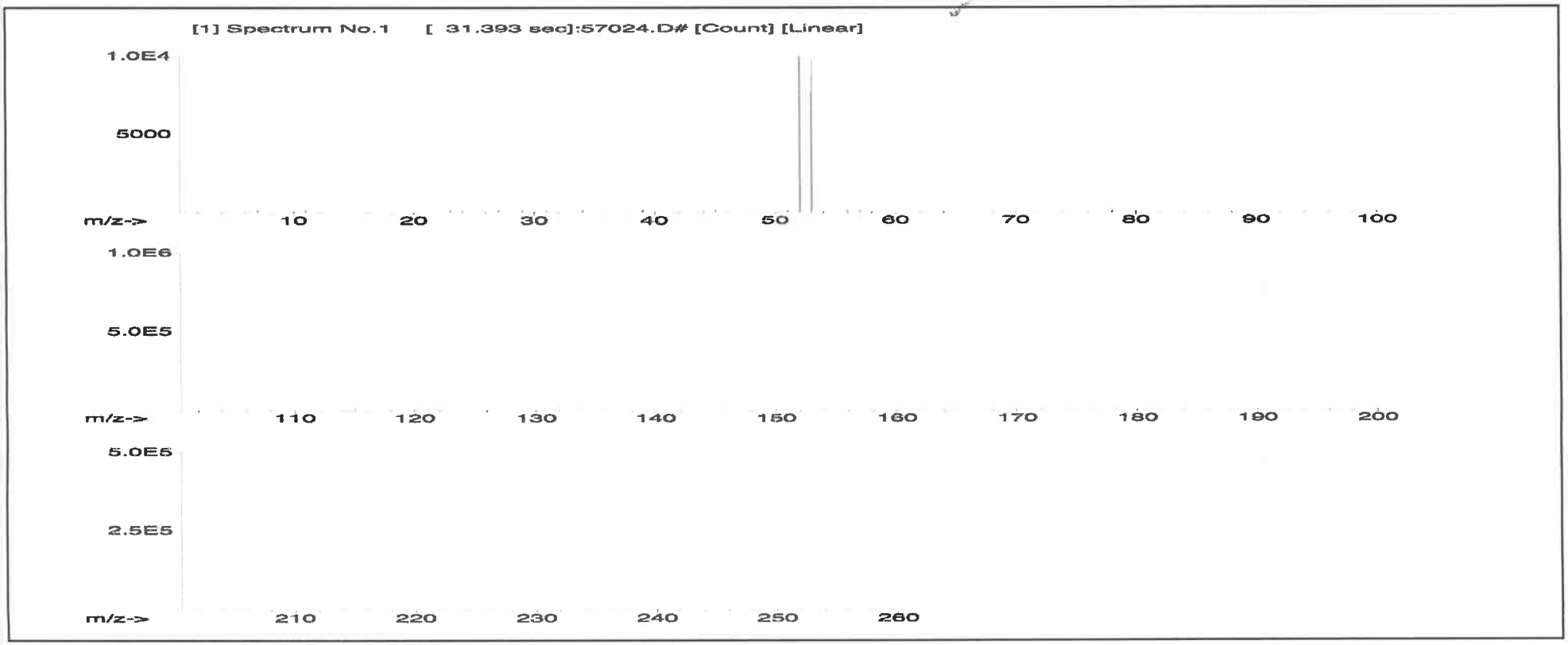
1564

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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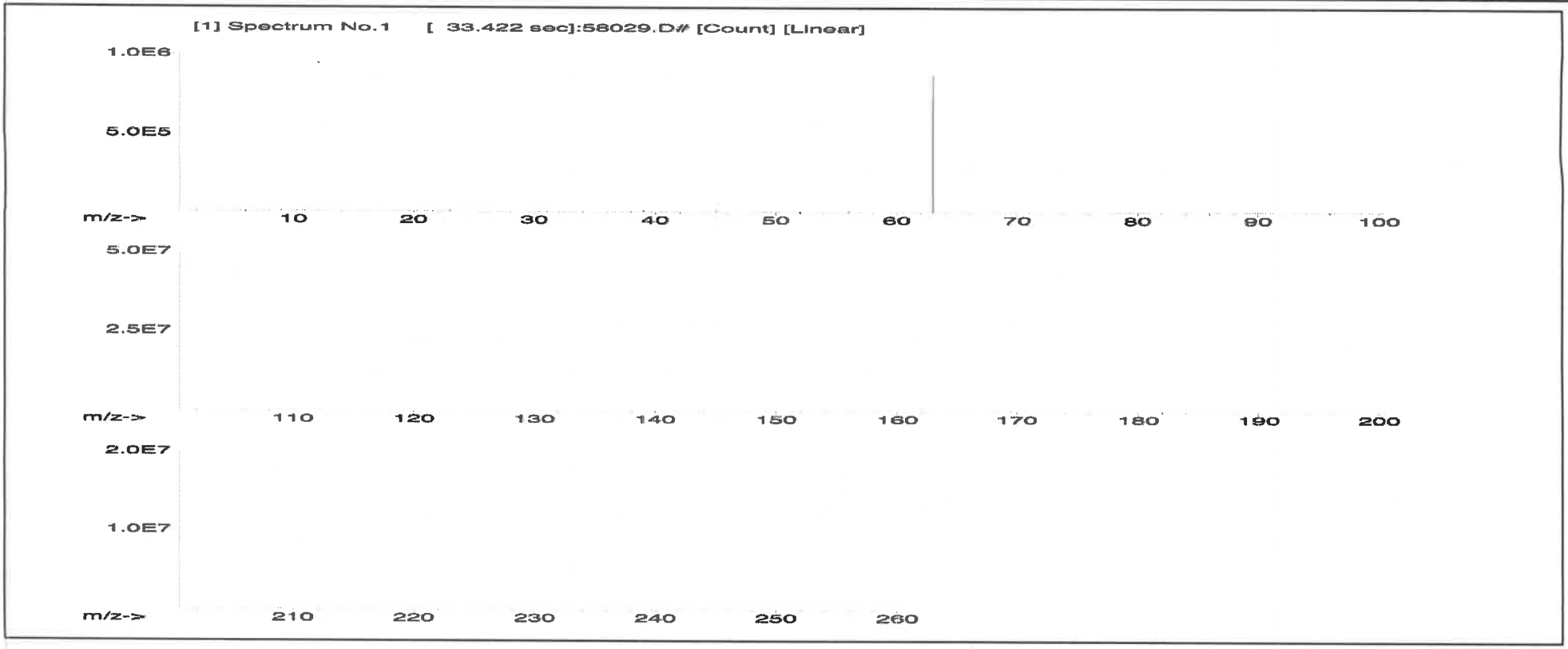
1566

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



15677

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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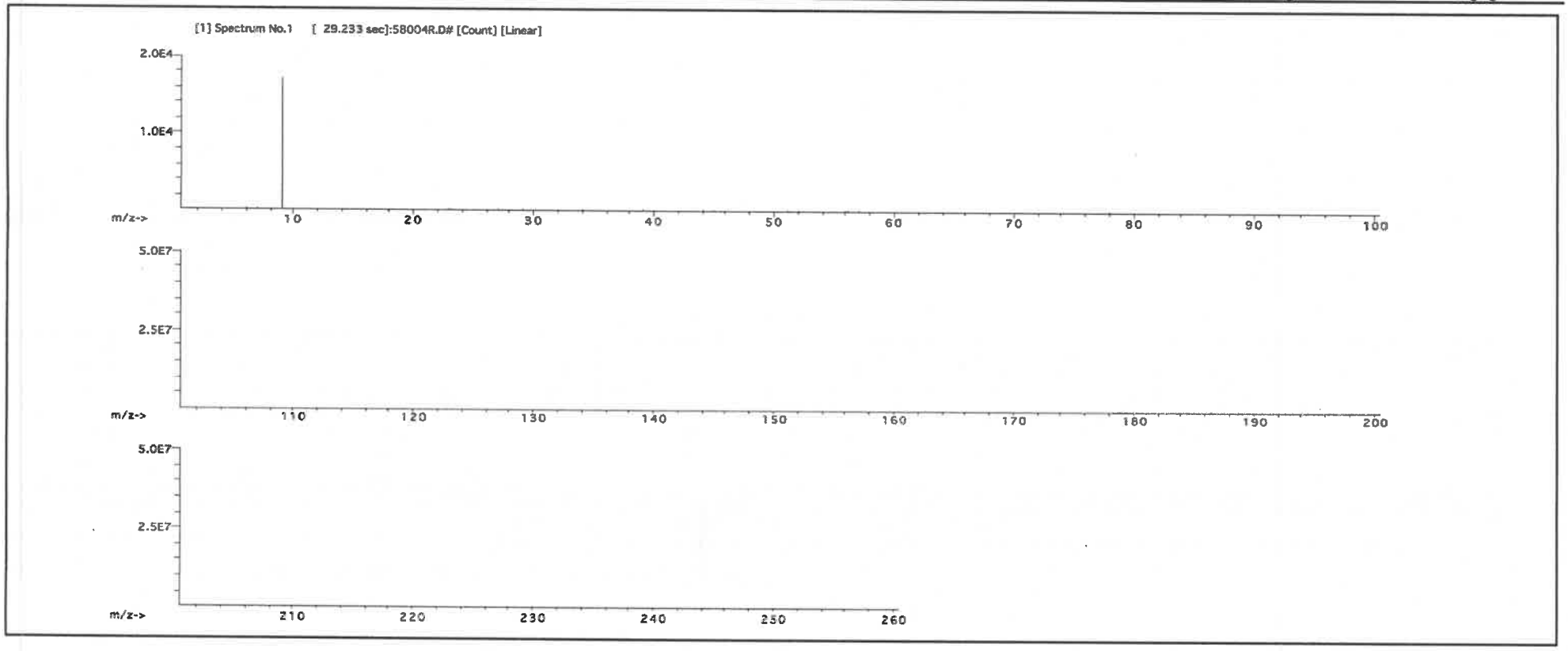
1568

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).

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1570

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

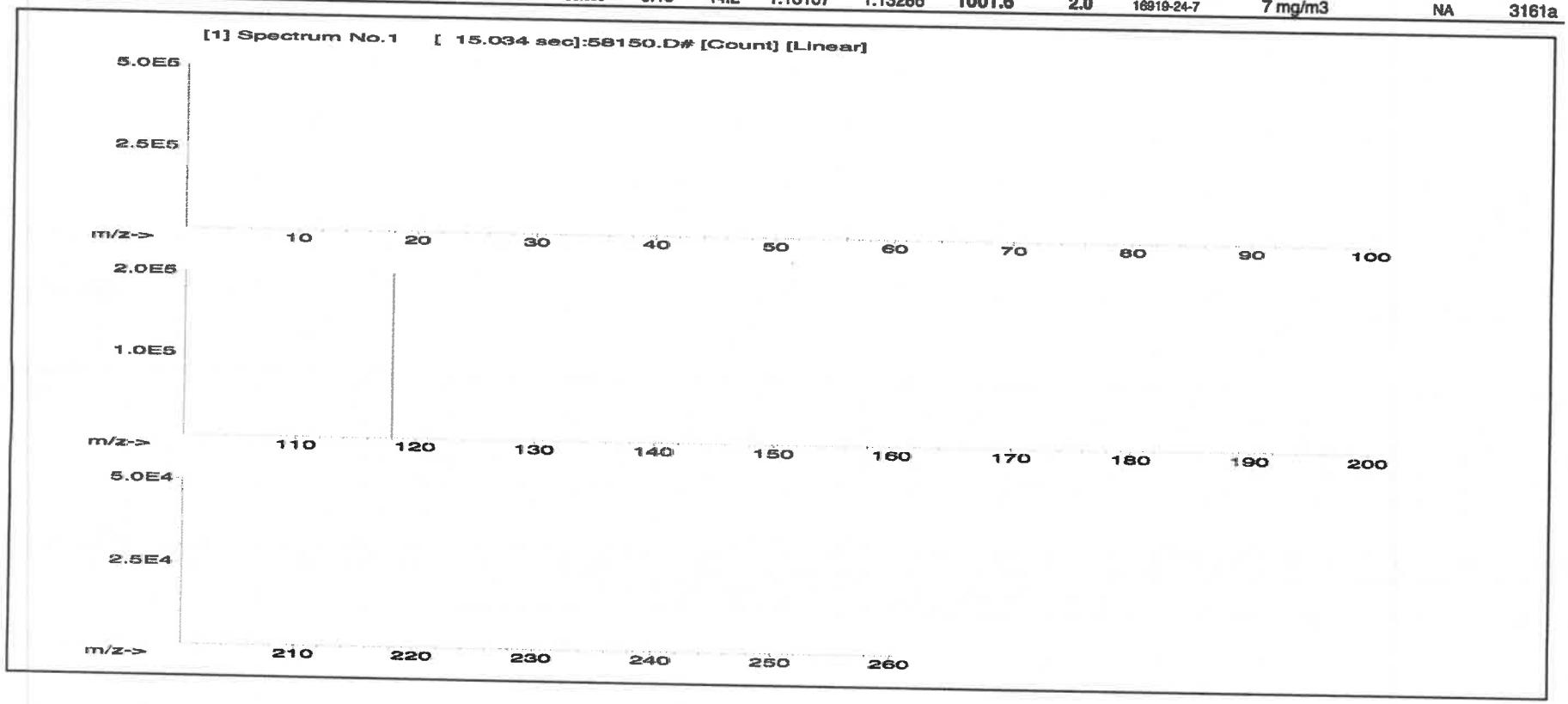
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



1571

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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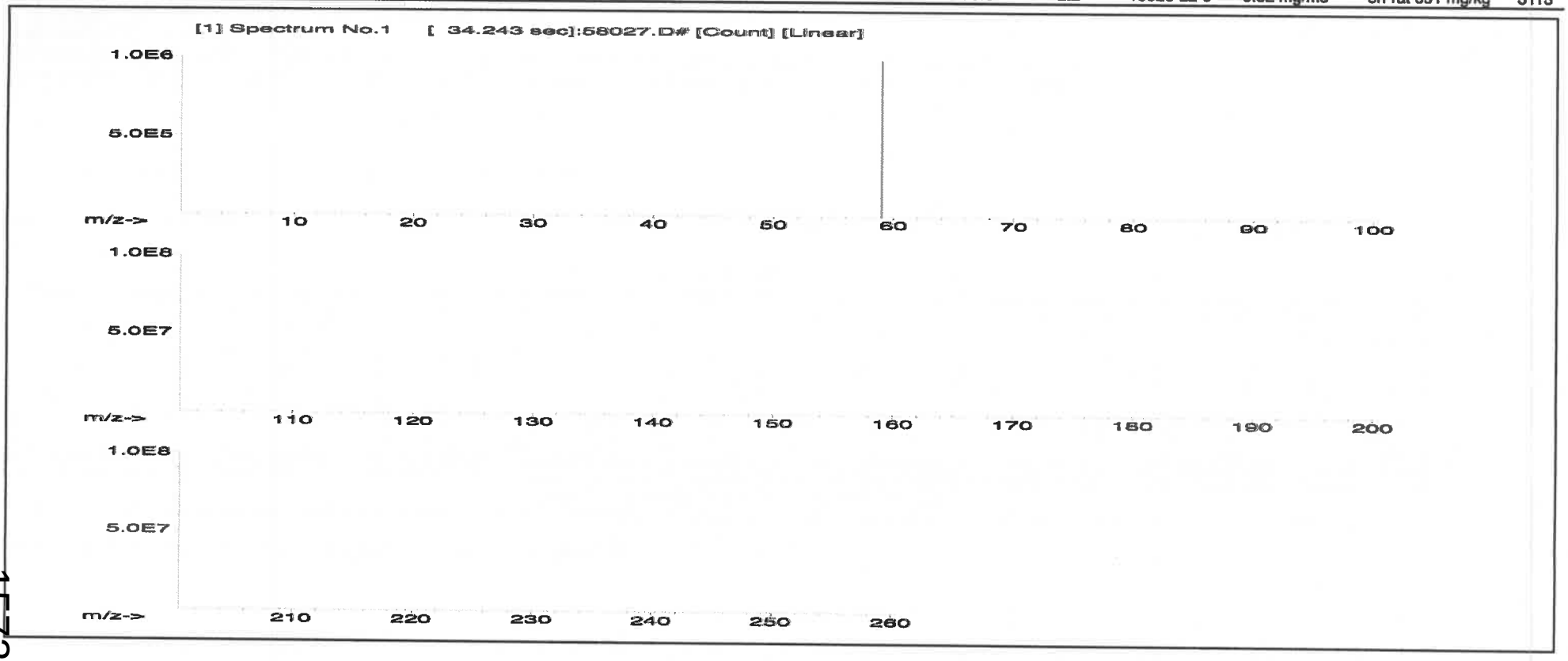
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CERTIFIED WEIGHT REPORT:

		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
Lawrence Barry	Reviewed By:	Pedro L. Rentas	091923
Pedro Rentas			

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



1572

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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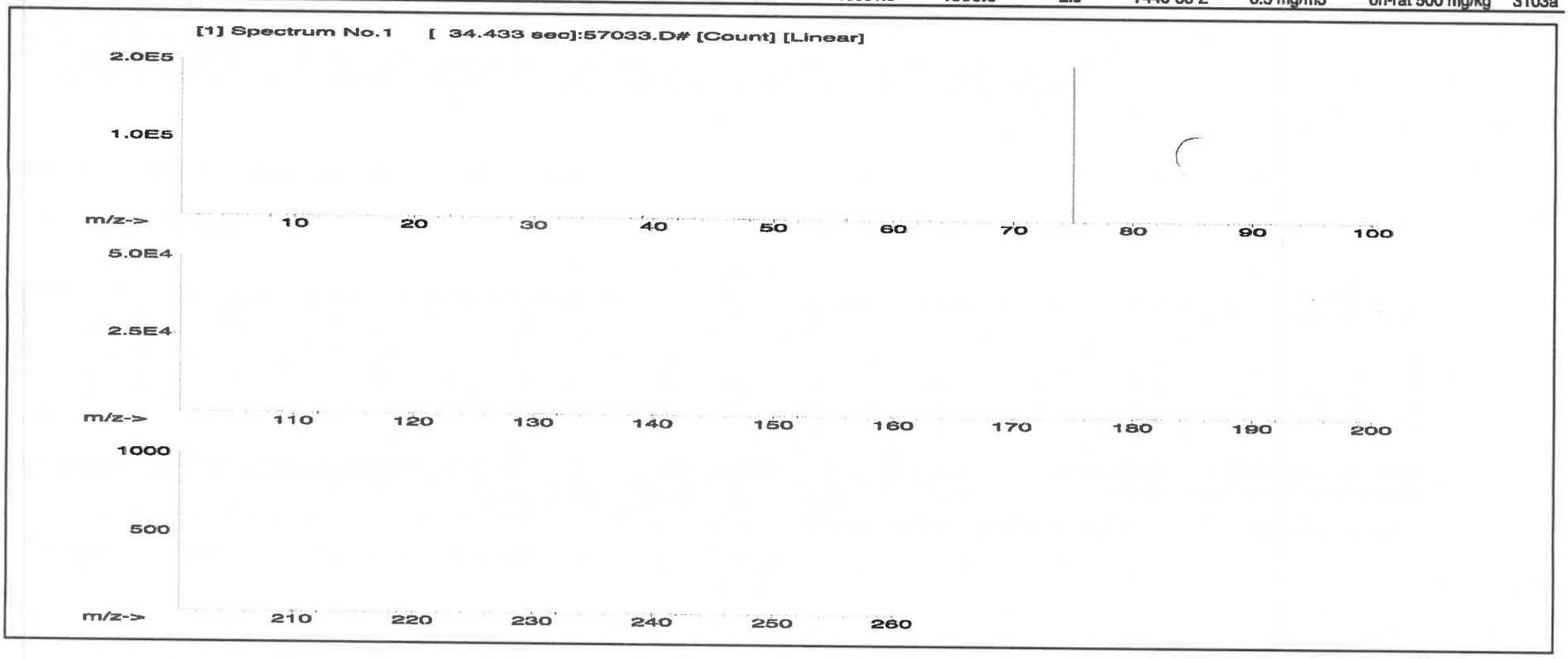
1574

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



1575

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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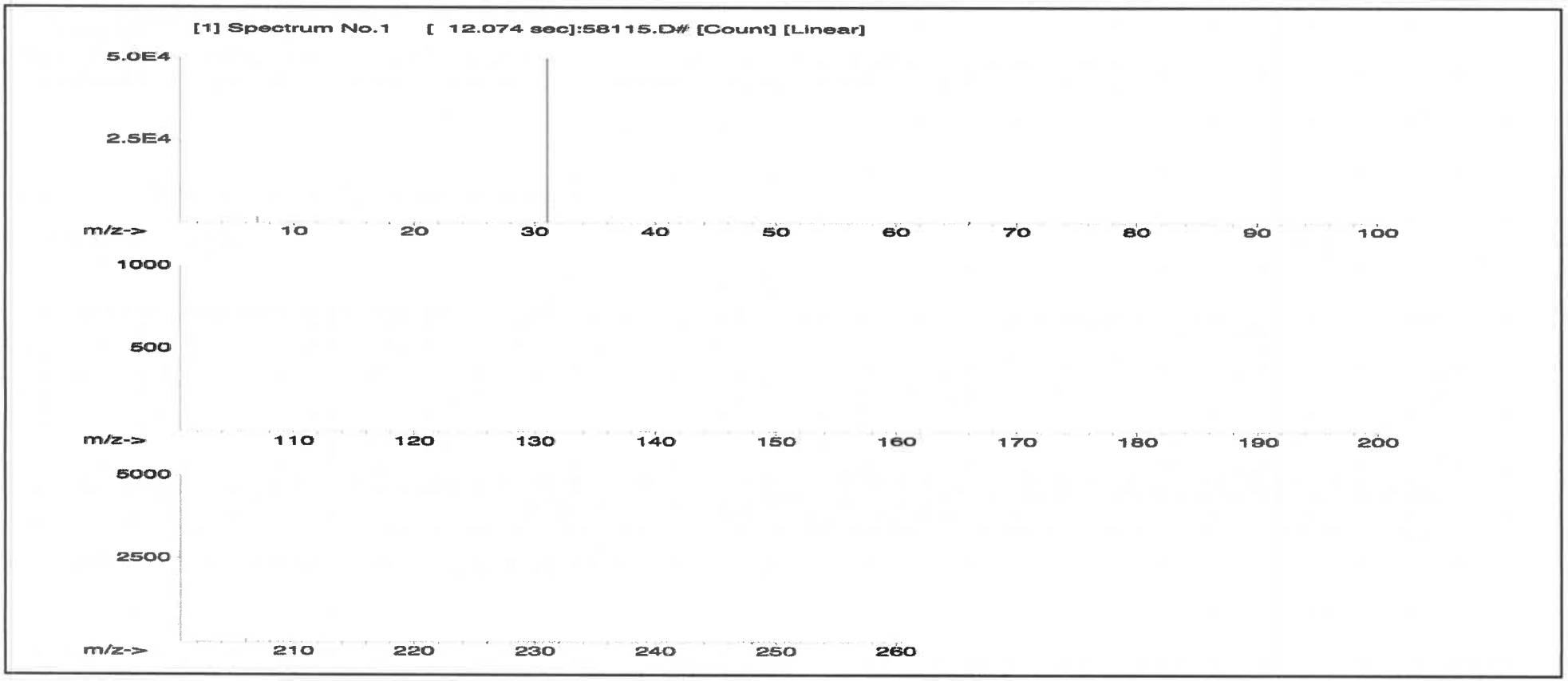
1576

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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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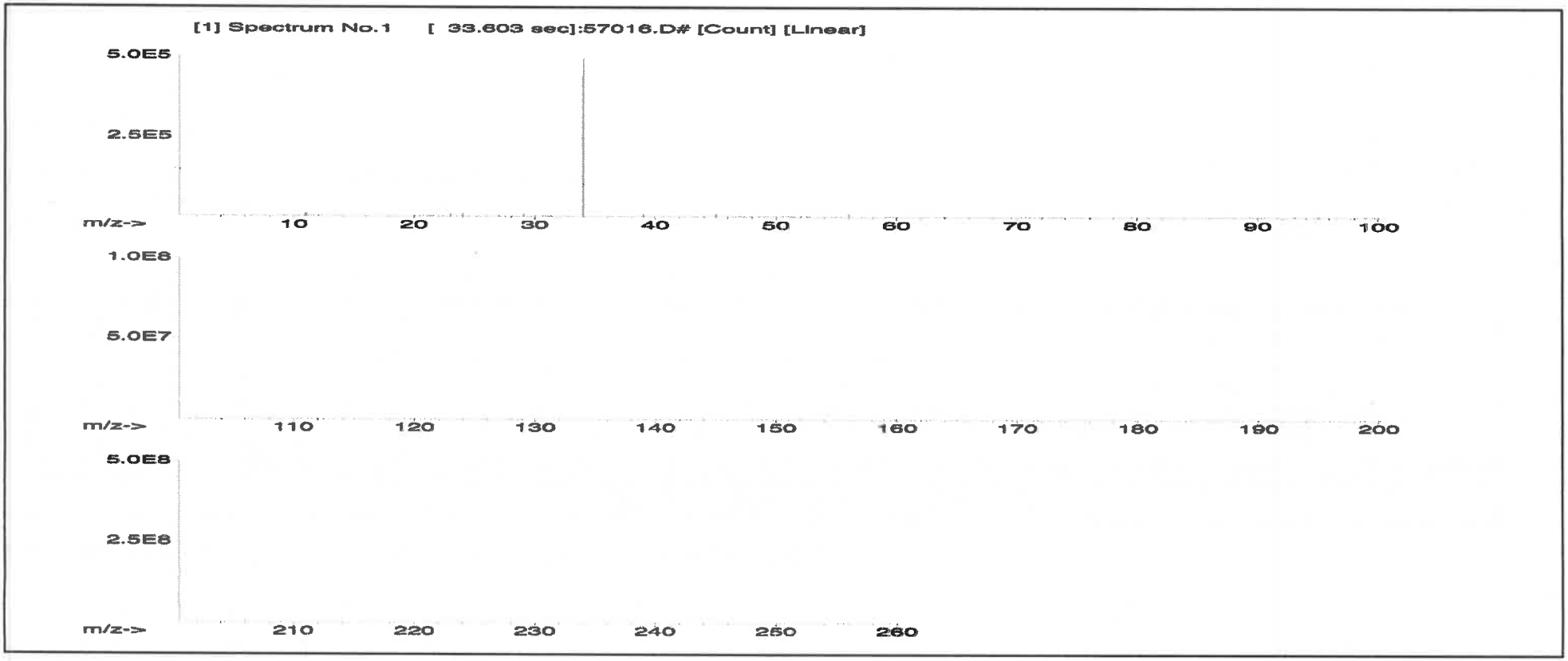
1578

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



1579

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.
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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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1580

CERTIFIED WEIGHT REPORT:

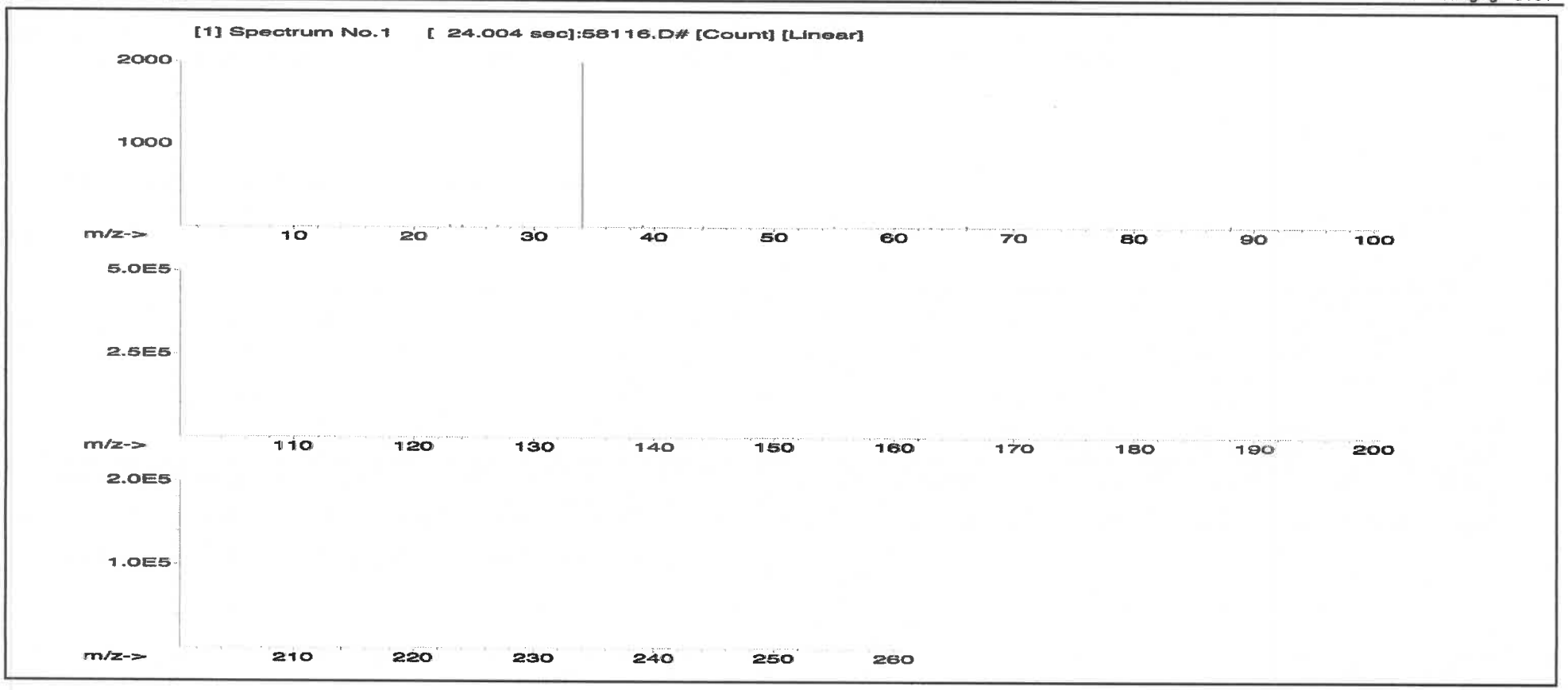
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



158

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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* 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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1582

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

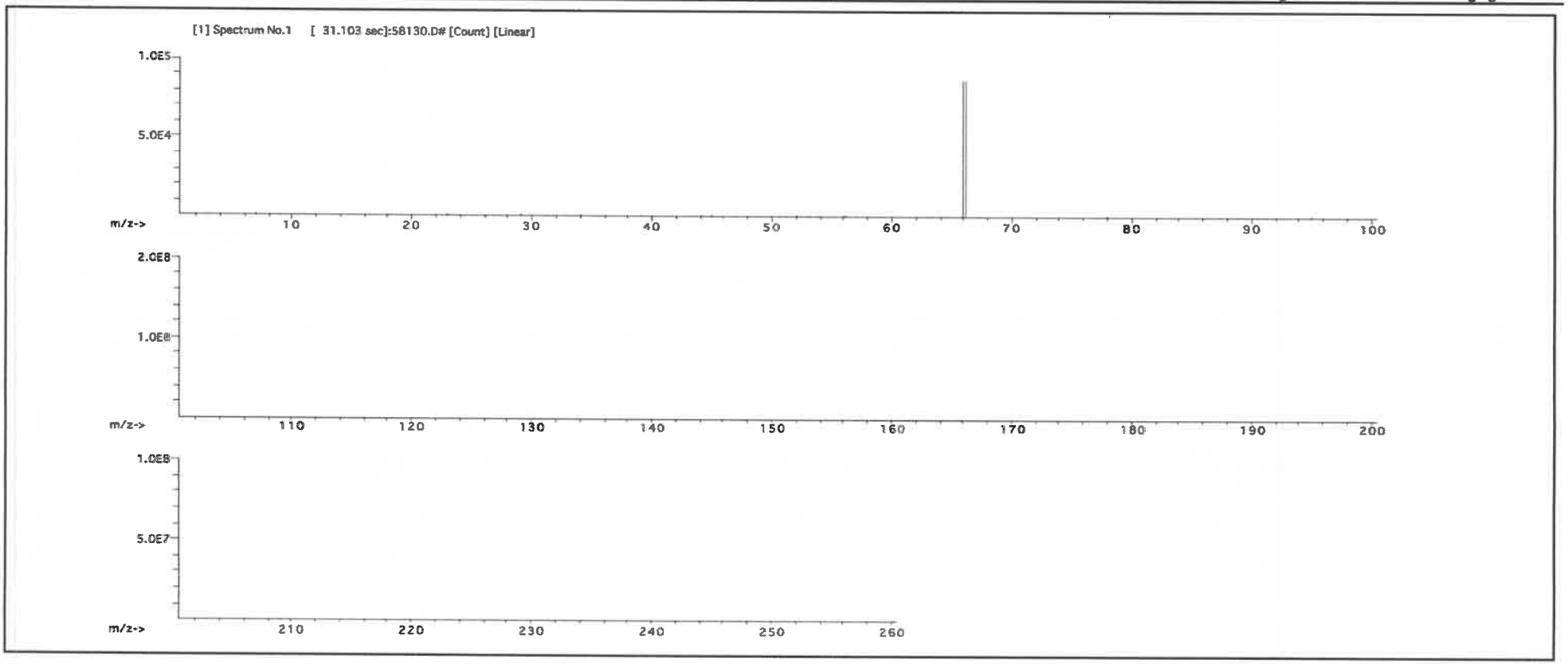
Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

		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



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:

* 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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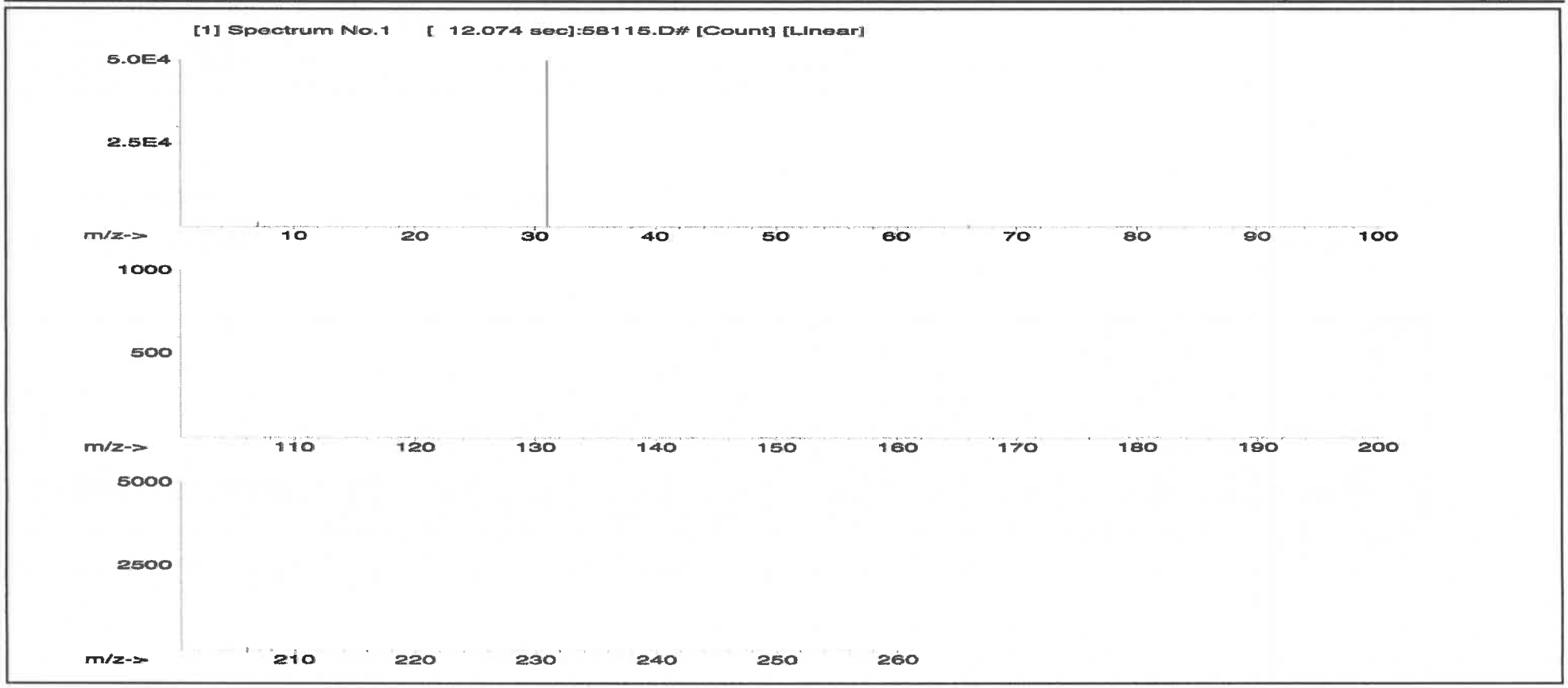
1584

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



1585

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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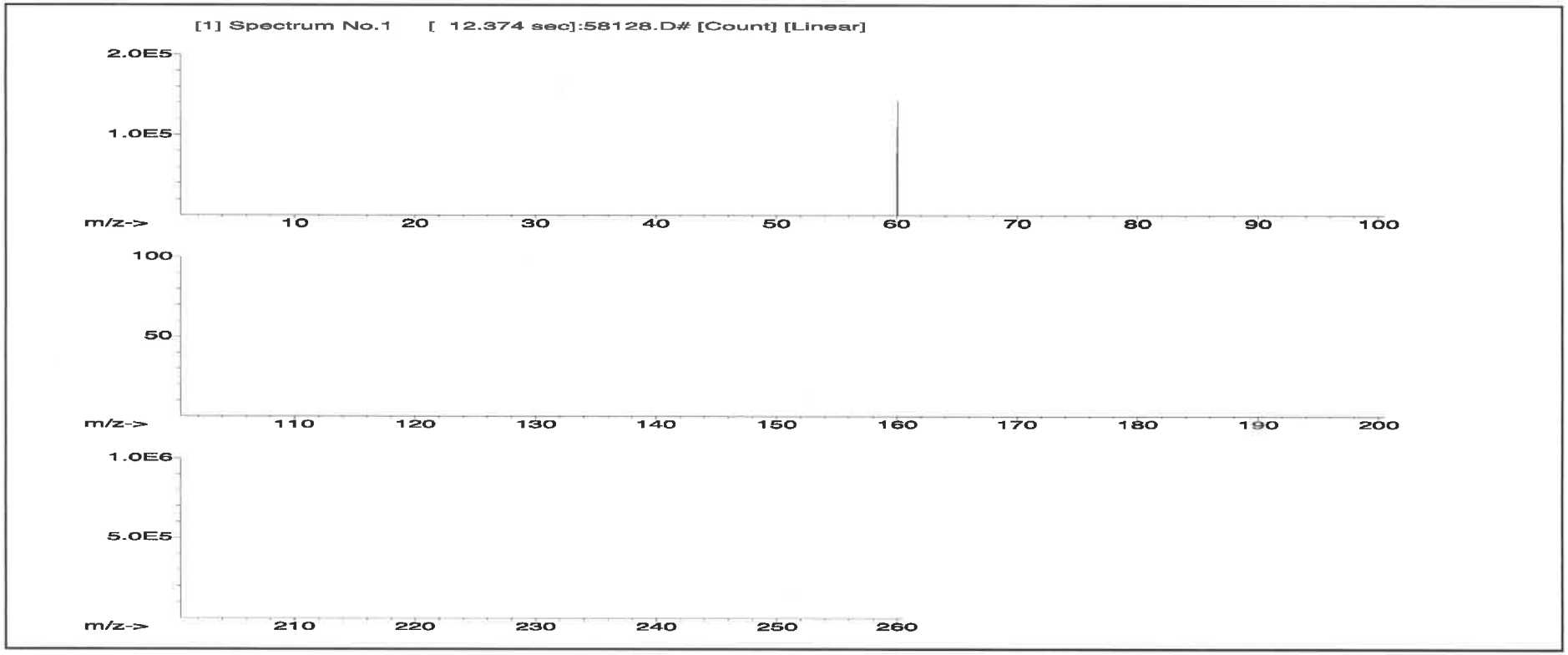
1586

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

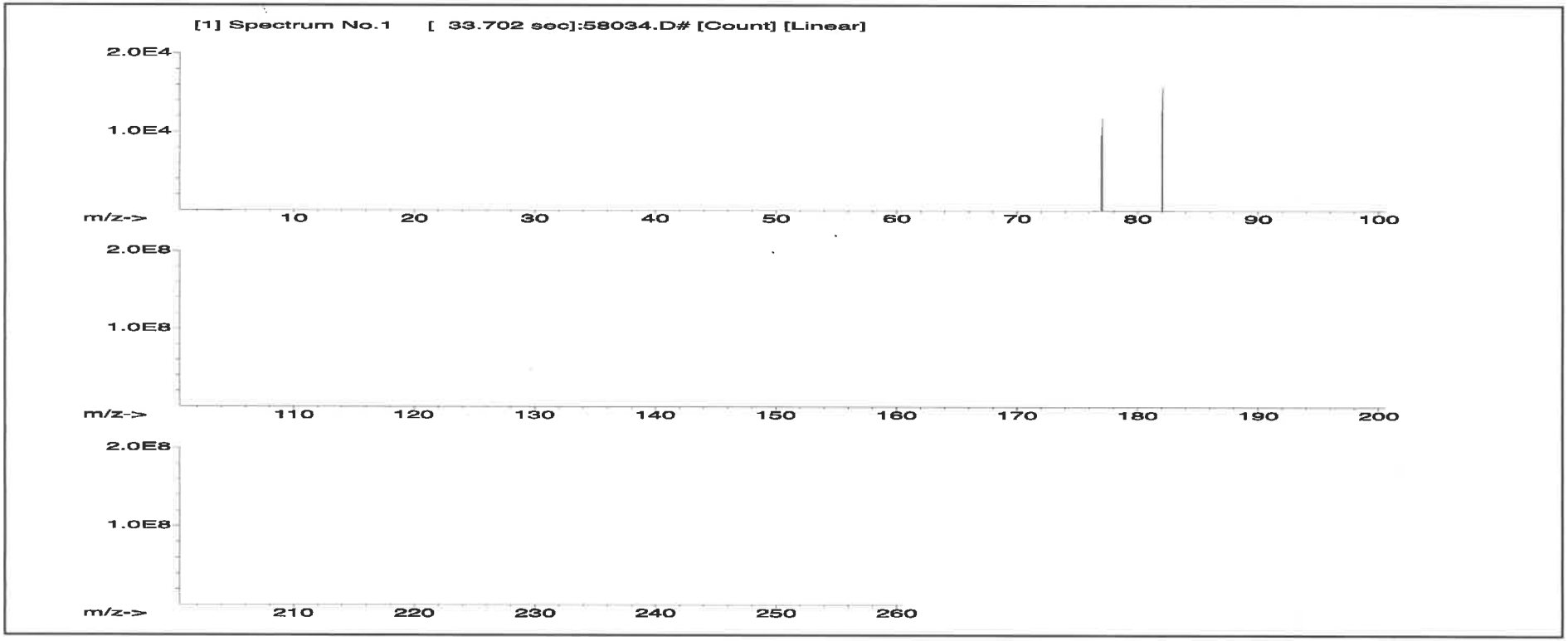
1588

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



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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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

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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



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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

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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



1598

M5978, M5979

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

1600

- 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

1601

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

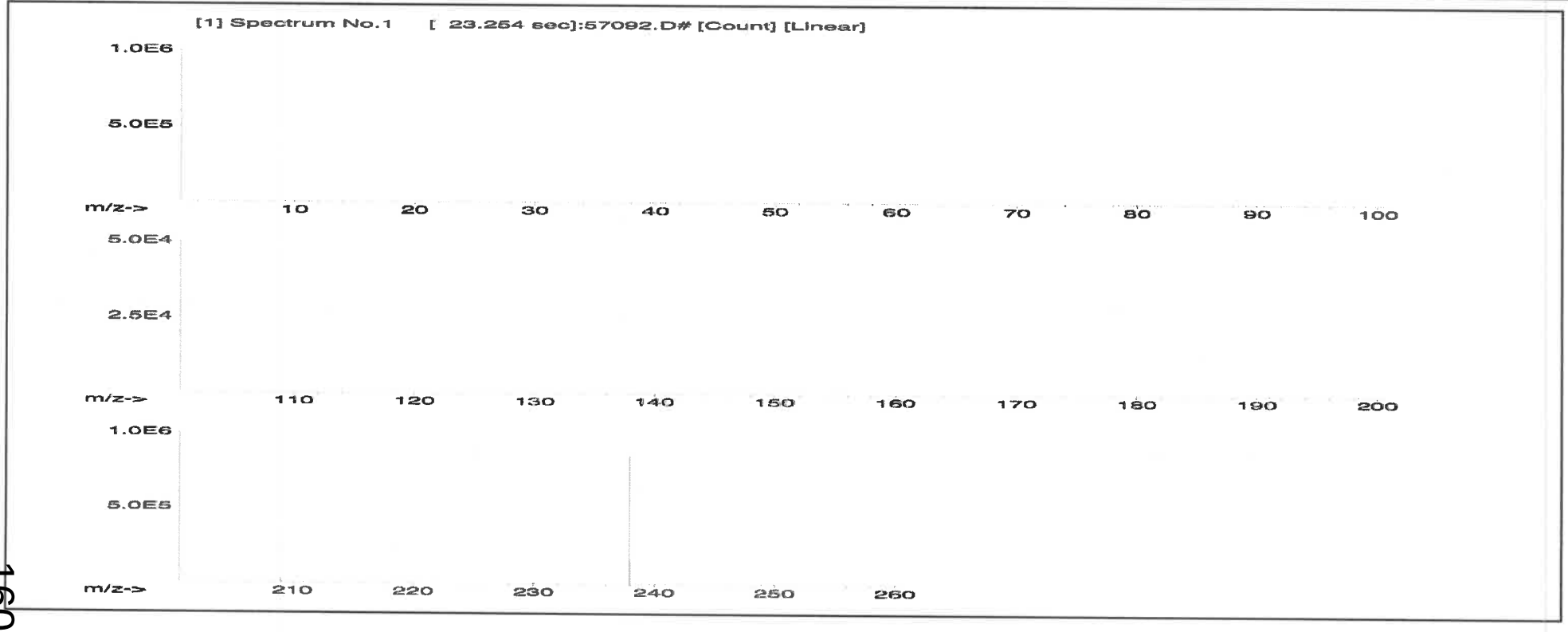
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



1602

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).

1603

Absolute Standards, Inc.
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Certified Reference Material CRM

M5983 R: 6/11/24

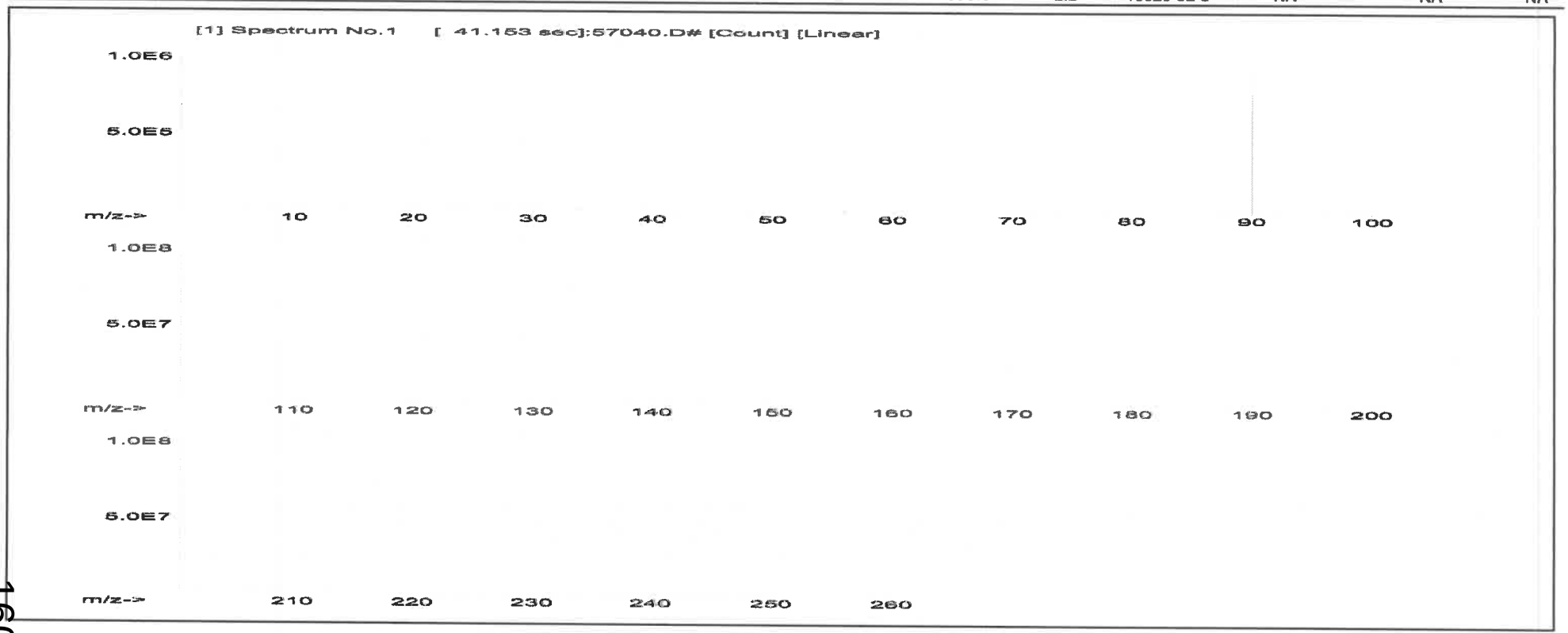
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



1604

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:

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).

1605

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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-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:

1606

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



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:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

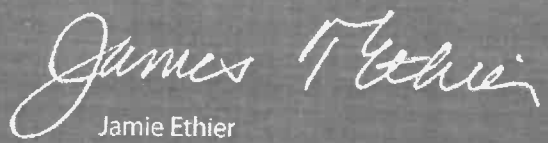
1617

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1618

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

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1621

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

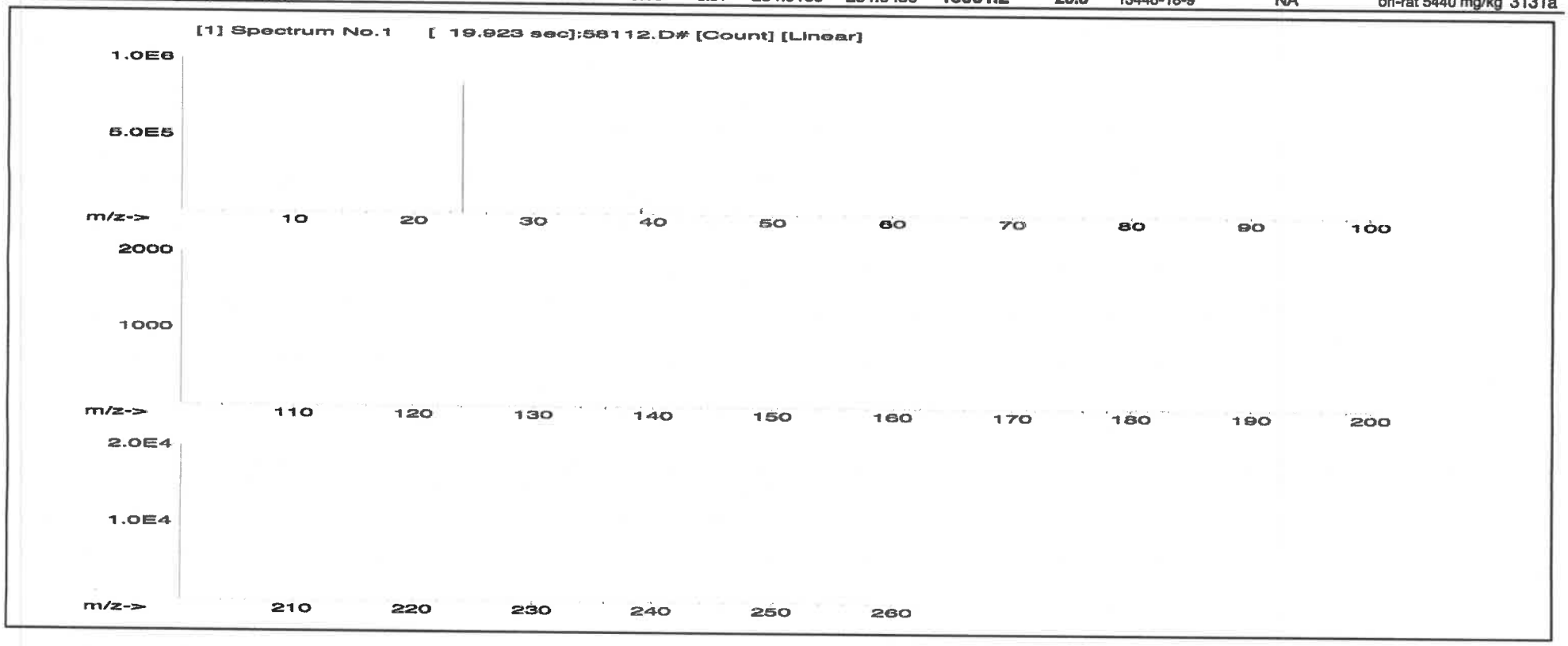
M 6127

Part Number:	**58112**			**Lot #**	
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid	
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	112127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



1622

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1623

CERTIFIED WEIGHT REPORT:

R->1/13/28

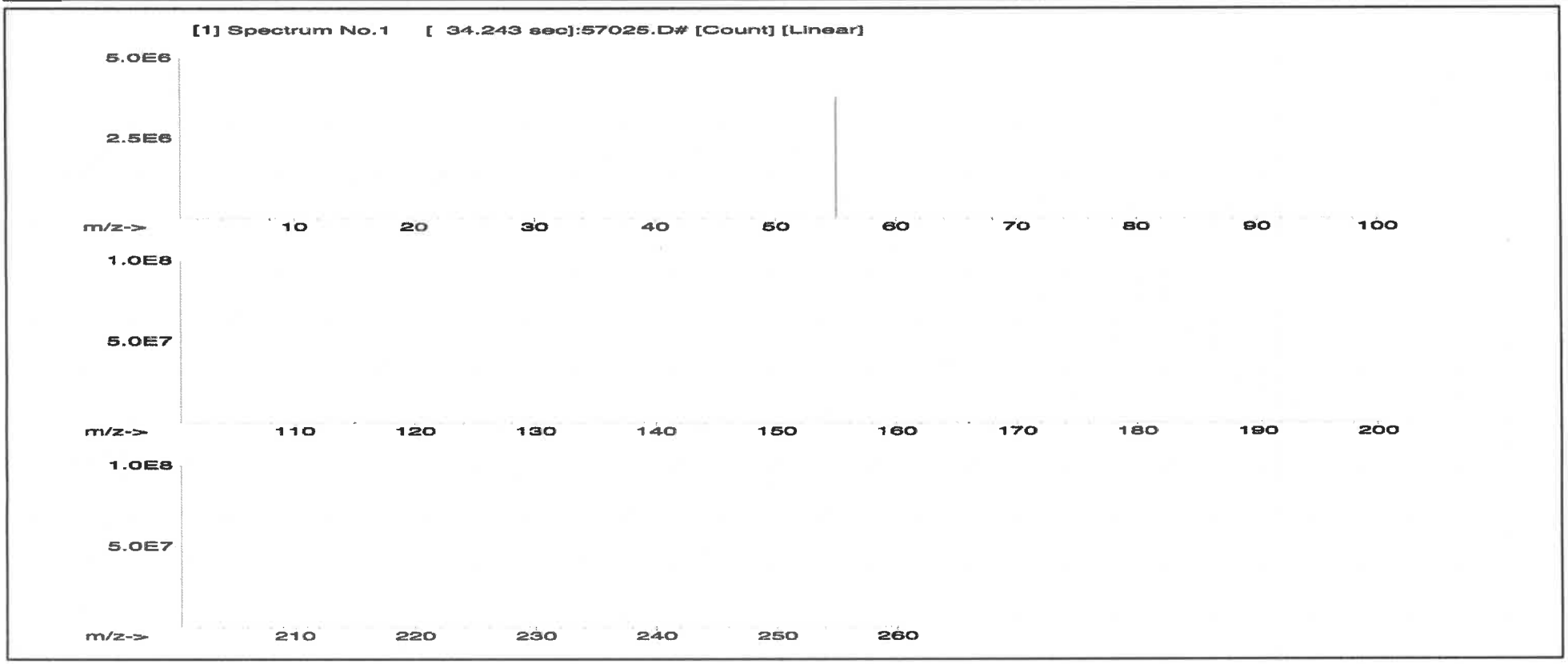
M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	101124
Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



1624

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1625

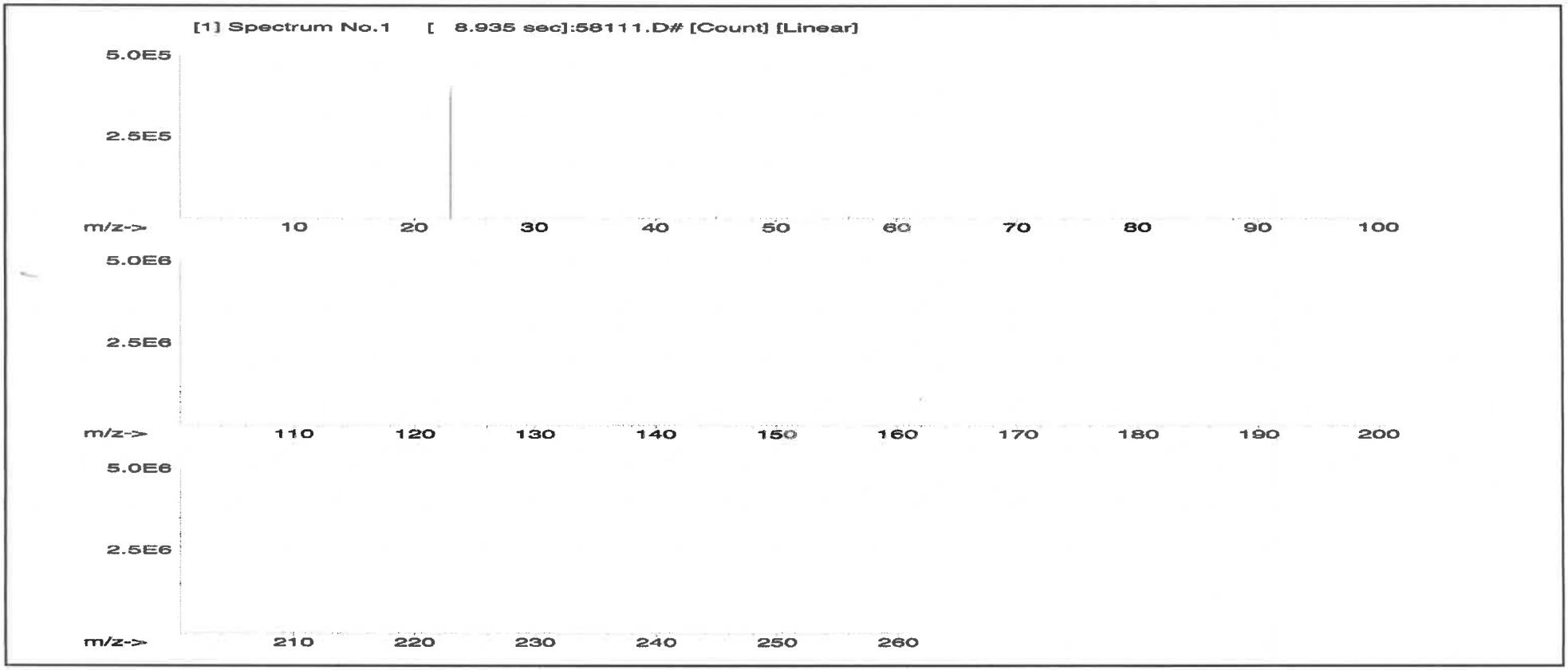
CERTIFIED WEIGHT REPORT:

			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



1626

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
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.

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R: 01/03/24 M5802, M5803

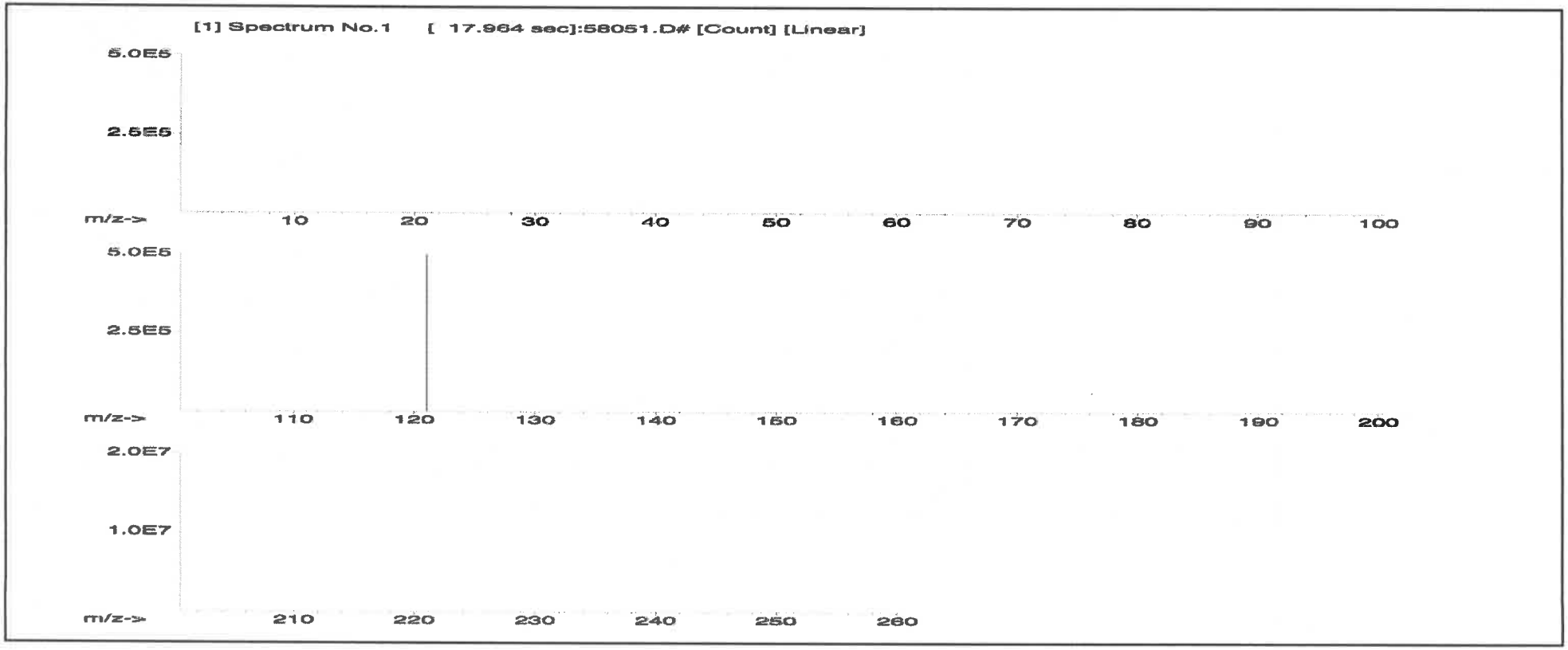
1635

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



16366

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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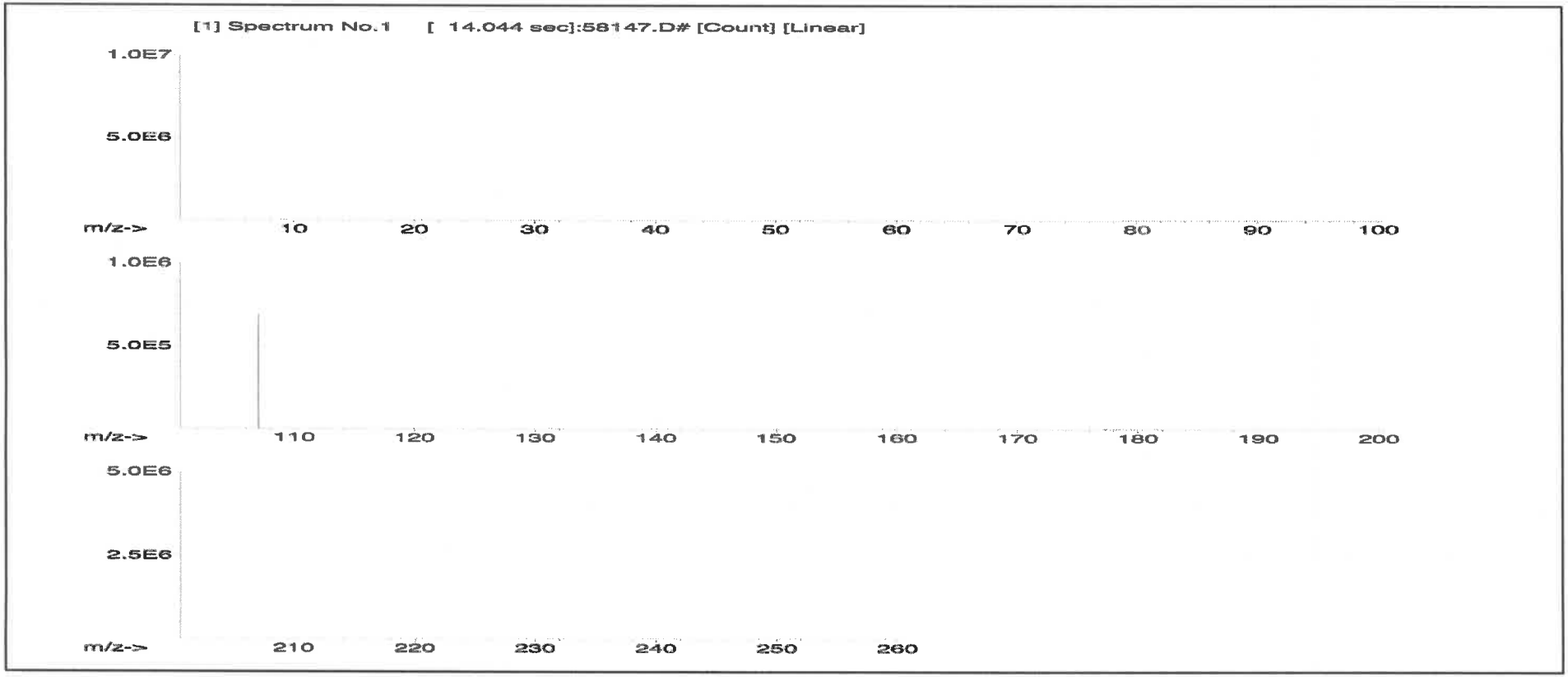
1637

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



1638

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:

* 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: 03/16/23 M5473, M5474, M5475, M5476

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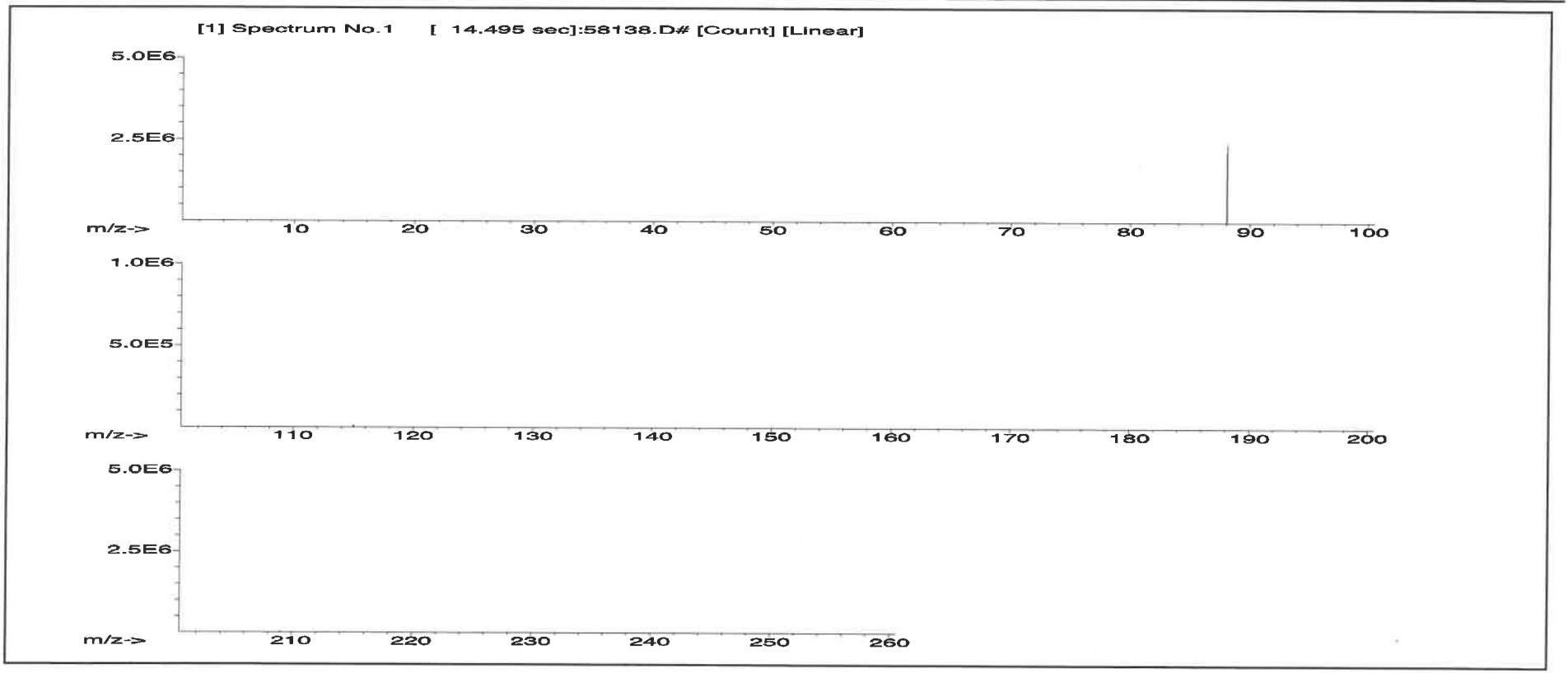
1639

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



1640

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1641

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		

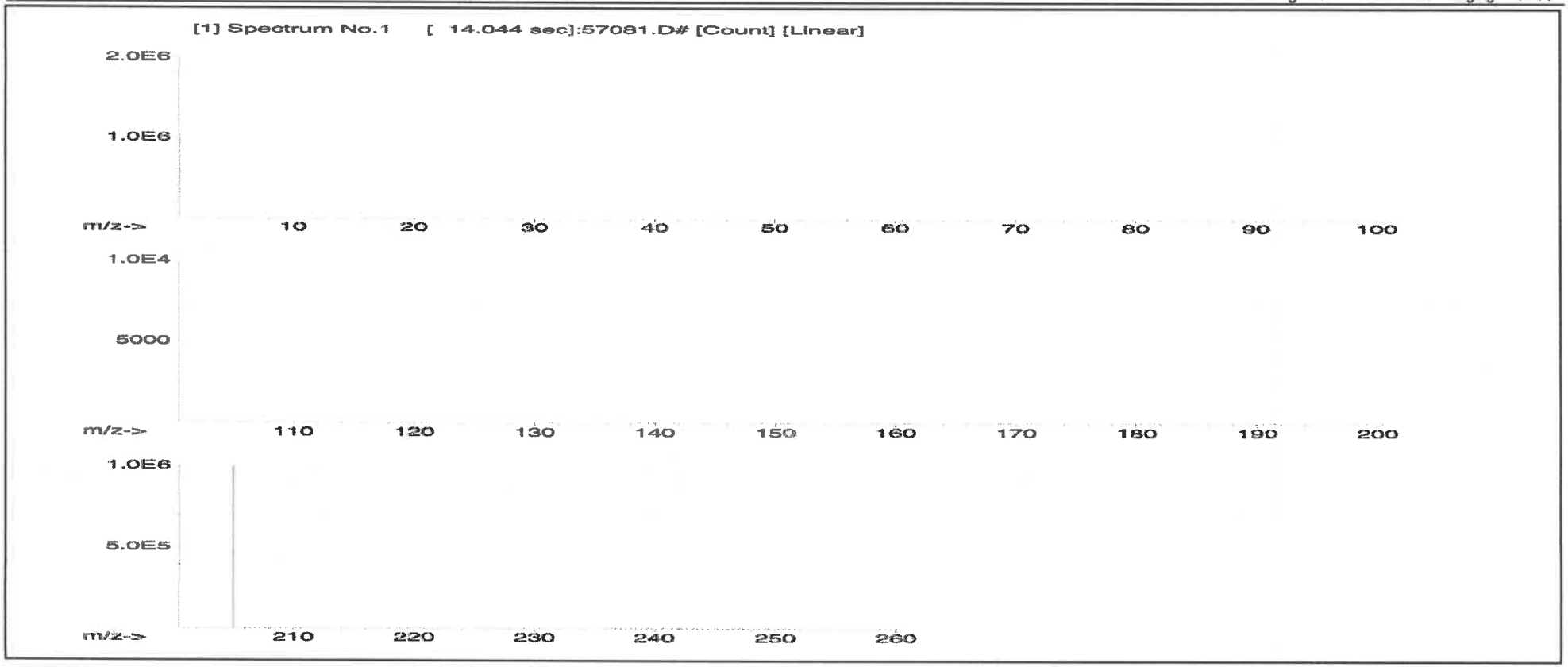
Aleah O'Brady

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



1642

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

1643

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		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	

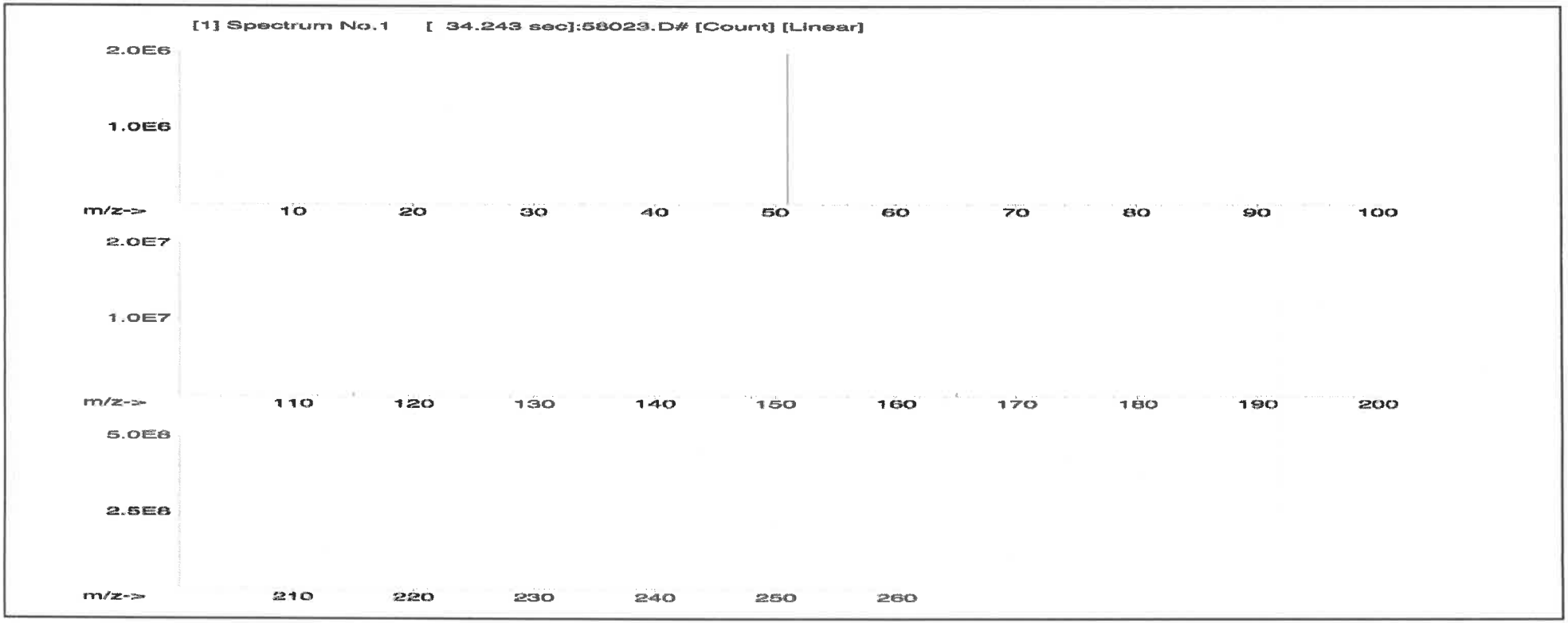
Aleah O'Brady

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



1644

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166154

SJ
02/06/25

M200.8-Trace Elements-22

SOP ID : ~~M3050B-Digestion-20~~, MSFAM01.1-Metals ICPMS-2

SDG No :	YE8G3	**Start Digest Date:**	01/21/2025 **Time :** 11:15 **Temp :** 95 °C
Matrix :	SOIL	**End Digest Date:**	01/21/2025 **Time :** 11:50 **Temp :** 96 °C
Pippete ID:	ICP A	**Digestion tube ID:**	M6054
Balance ID :	M SC-2	**Block thermometer ID:**	MET-DIG. # 3
Filter paper ID :	N/A	**Dig Technician Signature:**	SKD.
pH Strip ID :	N/A	**Supervisor Signature:**	JP
Hood ID :	#3	**Temp :**	**1.** 95°C **2.** N/A
Block ID:	**1.** HOT BLOCK #3 **2.** N/A		

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP84118
Spike Sol. B	1.00	MP84119
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	MP84041
1.4 HCL SOLN	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 #3 Cell #34 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/21/25 12:50	SKD. met digestion.	JP Inst DIG.
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166154

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166154BL	PBS154	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	1
PB166154BS	LCS154	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP84118	2
Q1105-01	YE8G3	N/A	1.19	500	Gray	Yellow	Medium	N/A	N/A	3
Q1105-02	YE8G5	N/A	1.12	500	Gray	Yellow	Medium	N/A	N/A	4
Q1105-03	YE8G6	N/A	1.12	500	Gray	Yellow	Medium	N/A	N/A	5
Q1105-04	YE8G6D	N/A	1.17	500	Gray	Yellow	Medium	N/A	N/A	6
Q1105-05	YE8G6S	N/A	1.33	500	Gray	Yellow	Medium	N/A	MP84119	7
Q1105-06	YE8H0	N/A	1.15	500	Gray	Yellow	Medium	N/A	N/A	8
Q1105-07	YE8H1	N/A	1.41	500	Gray	Yellow	Medium	N/A	N/A	9
Q1105-08	YE8H2	N/A	1.20	500	Black	Yellow	Medium	N/A	N/A	10
Q1105-09	YE8H3	N/A	1.36	500	Brown	Yellow	Medium	N/A	N/A	11
Q1105-10	YE8H4	N/A	1.15	500	Brown	Yellow	Medium	N/A	N/A	12
Q1105-11	YE8H5	N/A	1.21	500	Brown	Yellow	Medium	N/A	N/A	13
Q1105-12	YE8H6	N/A	1.21	500	Gray	Yellow	Medium	N/A	N/A	14
Q1105-13	YE8E9	N/A	1.30	500	Gray	Yellow	Medium	N/A	N/A	15
Q1105-14	YE8F0	N/A	1.24	500	Gray	Yellow	Medium	N/A	N/A	16
Q1105-15	YE8F1	N/A	1.33	500	Brown	Yellow	Medium	N/A	N/A	17
Q1105-16	YE8F2	N/A	1.10	500	Brown	Yellow	Medium	N/A	N/A	18
Q1105-17	YE8F3	N/A	1.18	500	Gray	Yellow	Medium	N/A	N/A	19
Q1105-18	YE8F4	N/A	1.32	500	Brown	Yellow	Medium	N/A	N/A	20
Q1105-19	YE8F6	N/A	1.19	500	Gray	Yellow	Medium	N/A	N/A	21
Q1105-20	YE8G0	N/A	1.14	500	Gray	Yellow	Medium	N/A	N/A	22
Q1105-21	YE8G1	N/A	1.28	500	Gray	Yellow	Medium	N/A	N/A	23
Q1105-22	YE8G2	N/A	1.32	500	Gray	Yellow	Medium	N/A	N/A	24

Analytical Summary Report

Analysis Method: 9045D
Analyst By : jignesh
Parameter: pH
Supervisor Review By : Iwona
Run Number: LB134525
Slope : 98.5
BalanceID: WC SC-7
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	02/03/2025	10:40
2	CAL2	1	Water	NA	NA	20.2	7.01	02/03/2025	10:41
3	CAL3	1	Water	NA	NA	20.3	10.02	02/03/2025	10:45
4	ICV	1	Water	NA	NA	20.2	6.98	02/03/2025	10:49
5	CCV1	1	Water	NA	NA	20.2	2.01	02/03/2025	10:50
6	Q1105-01	1	Solid	20.02	20	20.7	12.41	02/03/2025	11:00
7	Q1105-02	1	Solid	20.03	20	20.9	9.11	02/03/2025	11:10
8	Q1105-03	1	Solid	20.02	20	21.1	12.30	02/03/2025	11:15
9	Q1105-06	1	Solid	20.03	20	20.1	9.45	02/03/2025	11:25
10	Q1105-07	1	Solid	20.04	20	20.7	8.70	02/03/2025	11:30
11	Q1105-08	1	Solid	20.02	20	20.7	8.05	02/03/2025	11:35
12	Q1105-09	1	Solid	20.03	20	20.3	8.08	02/03/2025	11:40
13	Q1105-10	1	Solid	20.02	20	20.5	9.10	02/03/2025	11:45
14	Q1105-11	1	Solid	20.03	20	20.7	8.34	02/03/2025	11:50
15	Q1105-12	1	Solid	20.01	20	21.1	9.38	02/03/2025	12:00
16	CCV2	1	Water	NA	NA	20.2	12.02	02/03/2025	12:10
17	Q1105-13	1	Solid	20.04	20	20.9	8.55	02/03/2025	12:15
18	Q1105-14	1	Solid	20.02	20	20.7	8.65	02/03/2025	12:22
19	Q1105-15	1	Solid	20.03	20	20.7	8.42	02/03/2025	12:30
20	Q1105-16	1	Solid	20.04	20	20.3	8.41	02/03/2025	12:37

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
21	Q1105-17	1	Solid	20.02	20	20.6	8.45	02/03/2025	12:44
22	Q1105-18	1	Solid	20.03	20	20.8	7.00	02/03/2025	12:50
23	Q1105-19	1	Solid	20.02	20	21.2	7.92	02/03/2025	13:00
24	Q1105-20	1	Solid	20.03	20	21.0	7.82	02/03/2025	13:10
25	Q1105-21	1	Solid	20.02	20	21.2	8.62	02/03/2025	13:20
26	Q1105-22	1	Solid	20.03	20	20.5	8.41	02/03/2025	13:27
27	CCV3	1	Water	NA	NA	20.2	2.01	02/03/2025	13:35

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 # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	01/24/25 08:56		Jaswal	OK
2	S00	S0	CAL1	01/24/25 09:47		Jaswal	OK
3	S02	S02	CAL3	01/24/25 09:53		Jaswal	OK
4	S03	S03	CAL4	01/24/25 09:57		Jaswal	OK
5	S04	S04	CAL5	01/24/25 10:00		Jaswal	OK
6	S05	S05	CAL6	01/24/25 10:03		Jaswal	OK
7	S06	S06	CAL7	01/24/25 10:06		Jaswal	OK
8	S07	S07	CAL8	01/24/25 10:09		Jaswal	OK
9	S08	S08	CAL9	01/24/25 10:11		Jaswal	OK
10	ICV001	ICV001	ICV	01/24/25 10:23	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	01/24/25 10:30	Inst. paused for review	Jaswal	OK
12	ICSA001	ICSA001	ICSA	01/24/25 10:33		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	01/24/25 10:36		Jaswal	OK
14	CCV001	CCV001	CCV	01/24/25 10:41		Jaswal	OK
15	CCB001	CCB001	CCB	01/24/25 10:45		Jaswal	OK
16	P4368-01	LOD-MDL-SOIL-01-Q	SAM	01/24/25 11:01	Not Use	Jaswal	Not Ok
17	P4368-02	LOQ-SOIL-02-QT4-20	SAM	01/24/25 11:13	Not Use	Jaswal	Not Ok
18	P4368-16	LLOQ-SOIL-QT4-202	SAM	01/24/25 11:17	Not Use	Jaswal	Not Ok

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Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

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ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

19	P4368-07	LOD-MDL-WATER-01	SAM	01/24/25 11:20	Not Use	Jaswal	Not Ok
20	P4368-08	LOQ-WATER-02-QT4	SAM	01/24/25 11:26	Not Use	Jaswal	Not Ok
21	P4368-17	LLOQ-WATER-QT4-2	SAM	01/24/25 11:29	Not Use	Jaswal	Not Ok
22	P4368-10	LOD-MDL-WATER-04	SAM	01/24/25 11:35	Not Use	Jaswal	Not Ok
23	P4368-11	LOQ-WATER-05-QT4	SAM	01/24/25 11:38	Not Use	Jaswal	Not Ok
24	CCV002	CCV002	CCV	01/24/25 11:49		Jaswal	OK
25	CCB002	CCB002	CCB	01/24/25 11:52		Jaswal	OK
26	PBW	PBW	SAM	01/24/25 11:59	Not Use	Jaswal	Not Ok
27	P4476-03	XA102	SAM	01/24/25 12:02	Not Use	Jaswal	Not Ok
28	P4476-01	XA100	SAM	01/24/25 12:06	Not Use	Jaswal	Not Ok
29	LCSW	LCSW	SAM	01/24/25 12:22	Not Use	Jaswal	Not Ok
30	PBS	PBS	LCS	01/24/25 12:26	Not Use	Jaswal	Not Ok
31	LCSS	LCSS	SAM	01/24/25 12:29	Not Use	Jaswal	Not Ok
32	PBW 6020	PBW 6020	SAM	01/24/25 12:33	Not Use	Jaswal	Not Ok
33	LCSW 6020	LCSW 6020	SAM	01/24/25 12:36	Not Use	Jaswal	Not Ok
34	PBS 6020	PBS 6020	SAM	01/24/25 12:42	Not Use	Jaswal	Not Ok
35	LCSS 6020	LCSS 6020	SAM	01/24/25 12:46	Not Use	Jaswal	Not Ok
36	CCV003	CCV003	CCV	01/24/25 12:49		Jaswal	OK
37	CCB003	CCB003	CCB	01/24/25 12:56	Inst. paused for review	Jaswal	OK
38	PBW 200.8	PBW 200.8	SAM	01/24/25 12:59	Not Use	Jaswal	Not Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Daily Analysis Runlog For Sequence/QCBatch ID # LB134440

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Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

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ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

39	LCSW 200.8	LCSW 200.8	SAM	01/24/25 13:03	Not Use	Jaswal	Not Ok
40	CCV004	CCV004	CCV	01/24/25 13:05		Jaswal	OK
41	CCB004	CCB004	CCB	01/24/25 13:19	Inst. paused for review	Jaswal	OK
42	PB166174BL	PBW174	MB	01/24/25 13:22		Jaswal	OK
43	PB166174BS	LCS174	LCS	01/24/25 13:25		Jaswal	OK
44	Q1089-01	MC0B00	SAM	01/24/25 13:29		Jaswal	OK
45	Q1089-02	MC0B01	SAM	01/24/25 13:32		Jaswal	OK
46	Q1089-03	MC0B01D	DUP	01/24/25 13:35		Jaswal	OK
47	Q1089-02L	MC0B01L	SD	01/24/25 13:39		Jaswal	OK
48	Q1089-04	MC0B01S	MS	01/24/25 13:42		Jaswal	OK
49	Q1089-05	MC0B06	SAM	01/24/25 13:45		Jaswal	OK
50	Q1089-06	MC0B07	SAM	01/24/25 13:49		Jaswal	OK
51	Q1089-07	MC0AL9	SAM	01/24/25 13:52		Jaswal	OK
52	Q1089-08	MC0AM2	SAM	01/24/25 13:55		Jaswal	OK
53	Q1089-09	MC0AZ9	SAM	01/24/25 13:59		Jaswal	OK
54	Q1089-10	MC0B02	SAM	01/24/25 14:02		Jaswal	OK
55	Q1089-11	MC0B04	SAM	01/24/25 14:05		Jaswal	OK
56	Q1089-12	MC0B09	SAM	01/24/25 14:08		Jaswal	OK
57	Q1089-13	MC0B10	SAM	01/24/25 14:12		Jaswal	OK
58	Q1089-14	MC0B11	SAM	01/24/25 14:15		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134440

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Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

STD. NAME	STD REF.#
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ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

59	PB166148BL	PBS148	MB	01/24/25 14:18		Jaswal	OK
60	PB166148BS	LCS148	LCS	01/24/25 14:24		Jaswal	OK
61	Q1102-01	MH2H28	SAM	01/24/25 14:27		Jaswal	OK
62	CCV005	CCV005	CCV	01/24/25 14:31		Jaswal	OK
63	CCB005	CCB005	CCB	01/24/25 14:37	Inst. paused for review	Jaswal	OK
64	Q1102-02	MH2H29	SAM	01/24/25 14:40		Jaswal	OK
65	Q1102-03	MH2H30	SAM	01/24/25 14:44		Jaswal	OK
66	Q1102-04	MH2H30D	DUP	01/24/25 14:47		Jaswal	OK
67	Q1102-03L	MH2H30L	SD	01/24/25 14:50		Jaswal	OK
68	Q1102-05	MH2H30S	MS	01/24/25 14:53	MS Fail For As,Cu	Jaswal	OK
69	Q1102-06	MH2H31	SAM	01/24/25 14:57		Jaswal	OK
70	PB166154BL	PBS154	MB	01/24/25 15:03		Jaswal	OK
71	PB166154BS	LCS154	LCS	01/24/25 15:33		Jaswal	OK
72	Q1105-01	YE8G3	SAM	01/24/25 15:36		Jaswal	OK
73	Q1105-02	YE8G5	SAM	01/24/25 15:39		Jaswal	OK
74	Q1105-03	YE8G6	SAM	01/24/25 15:42	Sr High in MS	Jaswal	Dilution
75	Q1105-04	YE8G6D	DUP	01/24/25 15:46	Sr High in MS	Jaswal	Dilution
76	Q1105-03L	YE8G6L	SD	01/24/25 15:49	Sr High in MS	Jaswal	Dilution
77	Q1105-05	YE8G6S	MS	01/24/25 15:52	Sr High , MS Fail For Mn	Jaswal	Dilution
78	Q1105-06	YE8H0	SAM	01/24/25 15:56		Jaswal	OK

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 # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

79	Q1105-07	YE8H1	SAM	01/24/25 15:59		Jaswal	OK
80	Q1105-08	YE8H2	SAM	01/24/25 16:02	As High	Jaswal	Dilution
81	Q1105-09	YE8H3	SAM	01/24/25 16:05		Jaswal	OK
82	Q1105-10	YE8H4	SAM	01/24/25 16:09		Jaswal	OK
83	CCV006	CCV006	CCV	01/24/25 16:12		Jaswal	OK
84	CCB006	CCB006	CCB	01/24/25 16:18	Inst. paused for review	Jaswal	OK
85	Q1105-11	YE8H5	SAM	01/24/25 16:22		Jaswal	OK
86	Q1105-12	YE8H6	SAM	01/24/25 16:25		Jaswal	OK
87	Q1105-13	YE8E9	SAM	01/24/25 16:28		Jaswal	OK
88	Q1105-14	YE8F0	SAM	01/24/25 16:31		Jaswal	OK
89	Q1105-15	YE8F1	SAM	01/24/25 16:35		Jaswal	OK
90	Q1105-16	YE8F2	SAM	01/24/25 16:38		Jaswal	OK
91	Q1105-17	YE8F3	SAM	01/24/25 16:41		Jaswal	OK
92	Q1105-18	YE8F4	SAM	01/24/25 16:45		Jaswal	OK
93	Q1105-19	YE8F6	SAM	01/24/25 16:48		Jaswal	OK
94	Q1105-20	YE8G0	SAM	01/24/25 16:51		Jaswal	OK
95	Q1105-21	YE8G1	SAM	01/24/25 16:54		Jaswal	OK
96	Q1105-22	YE8G2	SAM	01/24/25 16:58		Jaswal	OK
97	PB166195BL	PBS195	MB	01/24/25 17:01		Jaswal	OK
98	PB166195BS	LCS195	LCS	01/24/25 17:11		Jaswal	OK

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

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Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

99	Q1135-01	YE8F5	SAM	01/24/25 17:14		Jaswal	OK
100	Q1135-02	YE8F7	SAM	01/24/25 17:17	Sr High in MS	Jaswal	Dilution
101	Q1135-03	YE8F7D	DUP	01/24/25 17:21	Sr High in MS	Jaswal	Dilution
102	Q1135-02L	YE8F7L	SD	01/24/25 17:24	Sr High in MS	Jaswal	Dilution
103	Q1135-04	YE8F7S	MS	01/24/25 17:27	Sr High,MS Fail For MO(4.33ppb)	Jaswal	Dilution
104	Q1135-05	YE8F8	SAM	01/24/25 17:30		Jaswal	OK
105	Q1135-06	YE8F9	SAM	01/24/25 17:34		Jaswal	OK
106	Q1135-07	YE8H9	SAM	01/24/25 17:37		Jaswal	OK
107	Q1135-08	YE8J0	SAM	01/24/25 17:40		Jaswal	OK
108	Q1135-10	YE8J1	SAM	01/24/25 17:43		Jaswal	OK
109	Q1135-11	YE8E3	SAM	01/24/25 17:47		Jaswal	OK
110	Q1135-12	YE8E4	SAM	01/24/25 17:50		Jaswal	OK
111	CCV007	CCV007	CCV	01/24/25 17:58		Jaswal	OK
112	CCB007	CCB007	CCB	01/24/25 18:01		Jaswal	OK
113	Q1135-13	YE8E5	SAM	01/24/25 18:04		Jaswal	OK
114	Q1135-14	YE8E6	SAM	01/24/25 18:08		Jaswal	OK
115	Q1135-15	YE8E7	SAM	01/24/25 18:12		Jaswal	OK
116	Q1135-16	YE8E8	SAM	01/24/25 18:16		Jaswal	OK
117	Q1135-17	YE8D2	SAM	01/24/25 18:19		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84057,MP84056

118	Q1135-18	YE8D4	SAM	01/24/25 18:23		Jaswal	OK
119	Q1135-19	YE8C3	SAM	01/24/25 18:26		Jaswal	OK
120	Q1135-21	YE8D0	SAM	01/24/25 18:29		Jaswal	OK
121	Q1135-22	YE8D5	SAM	01/24/25 18:33		Jaswal	OK
122	Q1105-03DL	YE8G6	SAM	01/24/25 18:36	5X For Sr	Jaswal	Confirms
123	Q1105-04DL	YE8G6D	DUP	01/24/25 18:39	5X For Sr	Jaswal	Confirms
124	Q1105-03LDL	YE8G6L	SD	01/24/25 18:43	5X For Sr	Jaswal	Confirms
125	Q1105-05DL	YE8G6S	MS	01/24/25 18:46	5X For Sr	Jaswal	Confirms
126	Q1105-08DL	YE8H2	SAM	01/24/25 18:49	2X For As	Jaswal	Confirms
127	Q1135-02DL	YE8F7	SAM	01/24/25 18:53	5X For Sr	Jaswal	Confirms
128	Q1135-03DL	YE8F7D	DUP	01/24/25 18:56	5X For Sr	Jaswal	Confirms
129	Q1135-02LDL	YE8F7L	SD	01/24/25 18:59	5X For Sr	Jaswal	Confirms
130	Q1135-04DL	YE8F7S	MS	01/24/25 19:03	5X For Sr	Jaswal	Confirms
131	Q1102-03A	MH2H30A	PS	01/24/25 19:06	PS For As,Cu(0.0027ml mp84220,0.0023ml m5751-10ml sample)	Jaswal	OK
132	Q1105-03A	YE8G6A	PS	01/24/25 19:09	PS For Mn(0.005ml m6128-10ml sample)	Jaswal	OK
133	CCV008	CCV008	CCV	01/24/25 19:19		Jaswal	OK
134	CCB008	CCB008	CCB	01/24/25 19:22		Jaswal	OK

EPA SAMPLE NO.

YE8E9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-13

% Solids: 92.2 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	1.8		02/05/2025	1153

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

Comments:

EPA SAMPLE NO.

YE8F0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-14

% Solids: 97.3 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	3.9	D	02/05/2025	1221

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

Comments:

EPA SAMPLE NO.

YE8F1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-15

% Solids: 92 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.54		02/05/2025	1158

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

Comments:

EPA SAMPLE NO.

YE8F2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-16

% Solids: 80.8 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	2.6	D	02/05/2025	1223

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

Comments:

EPA SAMPLE NO.

YE8F3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-17

% Solids: 89.5 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	3.3	D	02/05/2025	1252

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

Comments:

EPA SAMPLE NO.

YE8F4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-18

% Solids: 92.1 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.39		02/05/2025	1205

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

Comments:

EPA SAMPLE NO.

YE8F6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-19

% Solids: 90.8 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.077	J	02/05/2025	1207

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

Comments:

EPA SAMPLE NO.

YE8G0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-20

% Solids: 93.1 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.098		02/05/2025	1214

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

Comments:

EPA SAMPLE NO.

YE8G1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-21

% Solids: 80.3 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.043	J	02/05/2025	1216

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

Comments:

EPA SAMPLE NO.

YE8G2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-22

% Solids: 94.9 Date Received: 01/18/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.054	J	02/05/2025	1219

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

Comments:

EPA SAMPLE NO.

YE8G3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-01

% Solids: 64.9 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.14	U	02/05/2025	1126

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

Comments:

EPA SAMPLE NO.

YE8G5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-02

% Solids: 94.8 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.078	J	02/05/2025	1128

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

Comments:

EPA SAMPLE NO.

YE8G6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-03

% Solids: 76.8 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.027	J	02/05/2025	1131

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

Comments:

EPA SAMPLE NO.

YE8H0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-06

% Solids: 87.9 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.11	U	02/05/2025	1138

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

Comments:

EPA SAMPLE NO.

YE8H1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-07

% Solids: 76 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.23		02/05/2025	1140

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

Comments:

EPA SAMPLE NO.

YE8H2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-08

% Solids: 62.4 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	2.3		02/05/2025	1142

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

Comments:

EPA SAMPLE NO.

YE8H3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-09

% Solids: 82.7 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	1.2		02/05/2025	1144

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

Comments:

EPA SAMPLE NO.

YE8H4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-10

% Solids: 93.8 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.090	U	02/05/2025	1147

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

Comments:

EPA SAMPLE NO.

YE8H5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-11

% Solids: 83.3 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.18		02/05/2025	1149

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

Comments:

EPA SAMPLE NO.

YE8H6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8G3

Matrix: SOIL Lab Sample ID: Q1105-12

% Solids: 95.9 Date Received: 01/16/2025

Analytical Method: Hg

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
7439-97-6	Mercury	0.14		02/05/2025	1151

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

Comments:

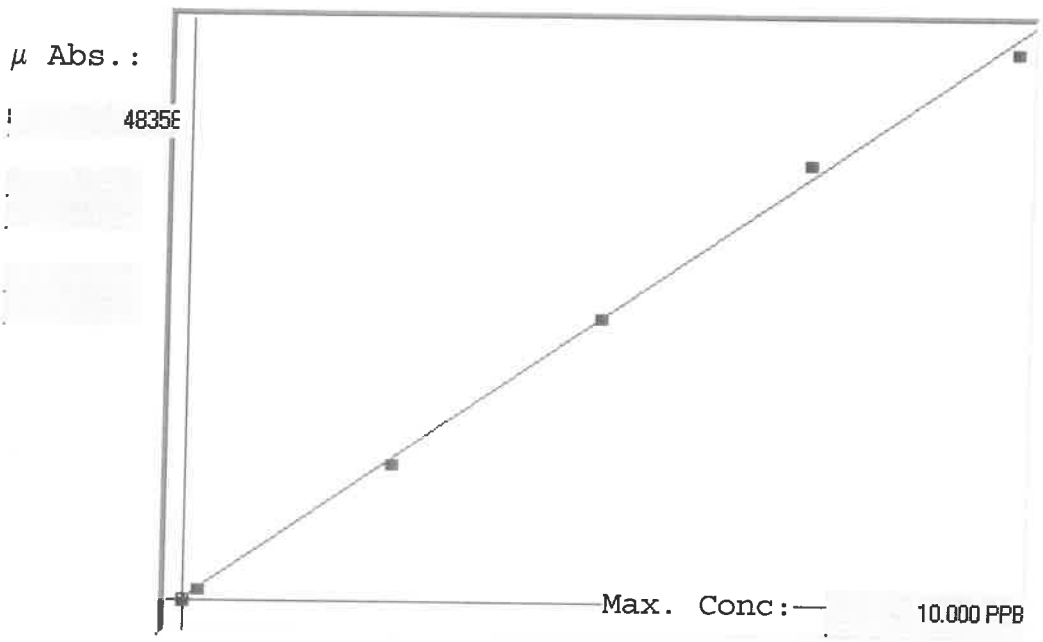
Reviewed By:Mohan
On:2/10/2025 12:01:23 PM
Inst Id :CV1

LB134574

SFAM01.1

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.0257e-004 slope

C= -2.9773e-002 intercept

Rho= 0.9991109

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.00	0.000	-0.021	-0.021	44	0.000	44					=
0.05	0.050										-3
0.20	0.200	0.194	-0.006	1103	0.0 %	1103					-3
2.50	2.500	2.435	-0.065	12166	0.0 %	12166					1
5.00	5.000	5.036	0.036	25007	0.0 %	25007					4
7.50	7.500	7.791	0.291	38606	0.0 %	38606					-2
10.0	10.000	9.766	-0.234	48358	0.0 %	48358					

Reviewed By:Mohan
On:2/10/2025 12:01:23 PM
Inst Id :CV1

LB134574

INSTRUMENT ID: CV1

Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0	44	-		0	SFAM01.1	PPB	2/5/2025 10:55	Std
0.2	S01	1103	-		0.2	SFAM01.1	PPB	2/5/2025 10:58	Std
2.5	S02	12166	-		2.5	SFAM01.1	PPB	2/5/2025 11:00	Std
5	S03	25007	-		5	SFAM01.1	PPB	2/5/2025 11:02	Std
7.5	S04	38606	-		7.5	SFAM01.1	PPB	2/5/2025 11:04	Std
10	S05	48358	-		10	SFAM01.1	PPB	2/5/2025 11:10	Std
ICV084	ICV084	19742	3.9693	-		SFAM01.1	PPB	2/5/2025 11:15	SMPL
ICB084	ICB084	-52	-0.0403	-		SFAM01.1	PPB	2/5/2025 11:17	SMPL
CCV021	CCV021	24795	4.9929	-		SFAM01.1	PPB	2/5/2025 11:19	SMPL
CCB021	CCB021	-163	-0.0628	-		SFAM01.1	PPB	2/5/2025 11:22	SMPL
PB166578BL	PBS578	69	-0.0158	-		SFAM01.1	PPB	2/5/2025 11:24	SMPL
Q1105-01	YE8G3	42	-0.0213	-		SFAM01.1	PPB	2/5/2025 11:26	SMPL
Q1105-02	YE8G5	2119	0.3995	-		SFAM01.1	PPB	2/5/2025 11:28	SMPL
Q1105-03	YE8G6	731	0.1183	-		SFAM01.1	PPB	2/5/2025 11:31	SMPL
Q1105-04	YE8G6D	692	0.1104	-		SFAM01.1	PPB	2/5/2025 11:33	SMPL
Q1105-05	YE8G6S	10818	2.1616	-		SFAM01.1	PPB	2/5/2025 11:35	SMPL
Q1105-06	YE8H0	367	0.0446	-		SFAM01.1	PPB	2/5/2025 11:38	SMPL
Q1105-07	YE8H1	5029	0.9889	-		SFAM01.1	PPB	2/5/2025 11:40	SMPL
Q1105-08	YE8H2	37899	7.6474	-		SFAM01.1	PPB	2/5/2025 11:42	SMPL
Q1105-09	YE8H3	25537	5.1432	-		SFAM01.1	PPB	2/5/2025 11:44	SMPL
Q1105-10	YE8H4	42	-0.0213	-		SFAM01.1	PPB	2/5/2025 11:47	SMPL
Q1105-11	YE8H5	4343	0.85	-		SFAM01.1	PPB	2/5/2025 11:49	SMPL
Q1105-12	YE8H6	3816	0.7432	-		SFAM01.1	PPB	2/5/2025 11:51	SMPL
Q1105-13	YE8E9	40966	8.2687	-		SFAM01.1	PPB	2/5/2025 11:53	SMPL
Q1105-14	YE8F0	99541	20.1341	-		SFAM01.1	PPB	2/5/2025 11:56	SMPL
Q1105-15	YE8F1	14257	2.8583	-		SFAM01.1	PPB	2/5/2025 11:58	SMPL
Q1105-16	YE8F2	54414	10.9928	-		SFAM01.1	PPB	2/5/2025 12:00	SMPL
Q1105-17	YE8F3	84553	17.098	-		SFAM01.1	PPB	2/5/2025 12:03	SMPL
Q1105-18	YE8F4	10001	1.9961	-		SFAM01.1	PPB	2/5/2025 12:05	SMPL
Q1105-19	YE8F6	2177	0.4112	-		SFAM01.1	PPB	2/5/2025 12:07	SMPL
CCV022	CCV022	23754	4.782	-		SFAM01.1	PPB	2/5/2025 12:10	SMPL
CCB022	CCB022	-124	-0.0549	-		SFAM01.1	PPB	2/5/2025 12:12	SMPL
Q1105-20	YE8G0	2763	0.5299	-		SFAM01.1	PPB	2/5/2025 12:14	SMPL
Q1105-21	YE8G1	1132	0.1995	-		SFAM01.1	PPB	2/5/2025 12:16	SMPL
Q1105-22	YE8G2	1466	0.2672	-		SFAM01.1	PPB	2/5/2025 12:19	SMPL
Q1105-14DLX5	YE8F0	19463	3.9128	-		SFAM01.1	PPB	2/5/2025 12:21	SMPL
Q1105-16DLX2	YE8F2	26735	5.3859	-		SFAM01.1	PPB	2/5/2025 12:23	SMPL
CCV023	CCV023	23882	4.808	-		SFAM01.1	PPB	2/5/2025 12:28	SMPL
CCB023	CCB023	-163	-0.0628	-		SFAM01.1	PPB	2/5/2025 12:30	SMPL
Q1105-17DLX5	YE8F3	15298	3.0691	-		SFAM01.1	PPB	2/5/2025 12:52	SMPL
CCV024	CCV024	23713	4.7737	-		SFAM01.1	PPB	2/5/2025 12:54	SMPL
CCB024	CCB024	-102	-0.0504	-		SFAM01.1	PPB	2/5/2025 12:57	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : Q1105

Test : Mercury

Prepbatch ID : PB166578,

Sequence ID/Qc Batch ID: LB134574,

Standard ID :
MP83692,MP83694,MP84345,MP84346,MP84347,MP84348,MP84349,MP84350,MP84351,MP84352,MP84353,MP84354,MP84355,MP84358,MP84359,

Chemical ID :
M4371,M4916,M5062,M5532,M5882,M5884,M6121,M6126,W3112,

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP83692	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP83694	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84345	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84346	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP84347	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84345 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84348	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84345 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP84349	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84345 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84350	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84345 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP84351	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84345 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84352	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84353	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84354	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84345 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84355	02/05/2025	02/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/06/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP84358	02/05/2025	02/06/2025	Mohan Bera	None	None	Sarabjit Jaswal 02/06/2025

FROM 150.00000ml of M6121 + 50.00000ml of M6126 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84359	02/05/2025	02/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 02/06/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 / mohan	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

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Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/4}$

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

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

1698

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1699

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1700

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166578

SOP ID : M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2

SDG No : YE8G3

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#2 2. N/A

Start Digest Date: 02/05/2025 **Time :** 09:05 **Temp :** 93 °C

End Digest Date: 02/05/2025 **Time :** 09:35 **Temp :** 94 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#2

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 93°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP84352
CCV	100mL	MP84354
Matrix Spike	1.0mL	MP84345
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP84358
KMnO4 (5%)	15.0mL	MP83692
Hydroxylamine HCL (12%)	6.0mL	MP83694
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP84346
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP84347
2.5 ppb	S2.5	100mL	MP84348
5.0 ppb	S5.0	100mL	MP84349
7.5 ppb	S7.5	100mL	MP84350
10.0 ppb	S10.0	100mL	MP84351
ICV	ICV	100mL	MP84352
ICB	ICB	100mL	MP84353
CCV	CCV	100mL	MP84354
CCB	CCB	100mL	MP84355
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/5/25 @ 10:15	MB- SDG - CAB	MB- Basket in Cab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166578

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166578BL	PBS578	0.50	100	NA	N/A	2-1
Q1105-01	YE8G3	0.53	100	NA	N/A	2
Q1105-02	YE8G5	0.54	100	NA	N/A	3
Q1105-03	YE8G6	0.57	100	NA	N/A	4
Q1105-04	YE8G6D	0.52	100	NA	N/A	5
Q1105-05	YE8G6S	0.55	100	NA	MP84345	6
Q1105-06	YE8H0	0.51	100	NA	N/A	7
Q1105-07	YE8H1	0.57	100	NA	N/A	8
Q1105-08	YE8H2	0.54	100	NA	N/A	9
Q1105-09	YE8H3	0.54	100	NA	N/A	10
Q1105-10	YE8H4	0.59	100	NA	N/A	11
Q1105-11	YE8H5	0.58	100	NA	N/A	12
Q1105-12	YE8H6	0.55	100	NA	N/A	13
Q1105-13	YE8E9	0.50	100	NA	N/A	14
Q1105-14	YE8F0	0.51	100	NA	N/A	15
Q1105-15	YE8F1	0.58	100	NA	N/A	16
Q1105-16	YE8F2	0.52	100	NA	N/A	17
Q1105-17	YE8F3	0.52	100	NA	N/A	18
Q1105-18	YE8F4	0.56	100	NA	N/A	19
Q1105-19	YE8F6	0.59	100	NA	N/A	20
Q1105-20	YE8G0	0.58	100	NA	N/A	21
Q1105-21	YE8G1	0.58	100	NA	N/A	22
Q1105-22	YE8G2	0.52	100	NA	N/A	23

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134574

Review By	Sarabjit Jaswal	Review On	2/5/2025 10:05:17 PM
Supervise By	Mohan Bera	Supervise On	2/10/2025 12:01:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP84346,MP84347,MP84348,MP84349,MP84350,MP84351
ICV Standard	MP84352
CCV Standard	MP84354
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84353,MP84355,MP84359

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/05/25 10:55		Mohan	OK
2	S0.2	S01	CAL2	02/05/25 10:58		Mohan	OK
3	S2.5	S02	CAL3	02/05/25 11:00		Mohan	OK
4	S5	S03	CAL4	02/05/25 11:02		Mohan	OK
5	S7.5	S04	CAL5	02/05/25 11:04		Mohan	OK
6	S10	S05	CAL6	02/05/25 11:10		Mohan	OK
7	ICV084	ICV084	ICV	02/05/25 11:15		Mohan	OK
8	ICB084	ICB084	ICB	02/05/25 11:17		Mohan	OK
9	CCV021	CCV021	CCV	02/05/25 11:19		Mohan	OK
10	CCB021	CCB021	CCB	02/05/25 11:22		Mohan	OK
11	PB166578BL	PBS578	MB	02/05/25 11:24		Mohan	OK
12	Q1105-01	YE8G3	SAM	02/05/25 11:26		Mohan	OK
13	Q1105-02	YE8G5	SAM	02/05/25 11:28		Mohan	OK
14	Q1105-03	YE8G6	SAM	02/05/25 11:31		Mohan	OK
15	Q1105-04	YE8G6D	DUP	02/05/25 11:33		Mohan	OK
16	Q1105-05	YE8G6S	MS	02/05/25 11:35		Mohan	OK
17	Q1105-06	YE8H0	SAM	02/05/25 11:38		Mohan	OK
18	Q1105-07	YE8H1	SAM	02/05/25 11:40		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134574

Review By	Sarabjit Jaswal	Review On	2/5/2025 10:05:17 PM
Supervise By	Mohan Bera	Supervise On	2/10/2025 12:01:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP84346,MP84347,MP84348,MP84349,MP84350,MP84351
ICV Standard	MP84352
CCV Standard	MP84354
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84353,MP84355,MP84359

19	Q1105-08	YE8H2	SAM	02/05/25 11:42		Mohan	OK
20	Q1105-09	YE8H3	SAM	02/05/25 11:44		Mohan	OK
21	Q1105-10	YE8H4	SAM	02/05/25 11:47		Mohan	OK
22	Q1105-11	YE8H5	SAM	02/05/25 11:49		Mohan	OK
23	Q1105-12	YE8H6	SAM	02/05/25 11:51		Mohan	OK
24	Q1105-13	YE8E9	SAM	02/05/25 11:53		Mohan	OK
25	Q1105-14	YE8F0	SAM	02/05/25 11:56	Hg High	Mohan	Dilution
26	Q1105-15	YE8F1	SAM	02/05/25 11:58		Mohan	OK
27	Q1105-16	YE8F2	SAM	02/05/25 12:00	Hg High	Mohan	Dilution
28	Q1105-17	YE8F3	SAM	02/05/25 12:03	Hg High	Mohan	Dilution
29	Q1105-18	YE8F4	SAM	02/05/25 12:05		Mohan	OK
30	Q1105-19	YE8F6	SAM	02/05/25 12:07		Mohan	OK
31	CCV022	CCV022	CCV	02/05/25 12:10		Mohan	OK
32	CCB022	CCB022	CCB	02/05/25 12:12		Mohan	OK
33	Q1105-20	YE8G0	SAM	02/05/25 12:14		Mohan	OK
34	Q1105-21	YE8G1	SAM	02/05/25 12:16		Mohan	OK
35	Q1105-22	YE8G2	SAM	02/05/25 12:19		Mohan	OK
36	Q1105-14DL	YE8F0	SAM	02/05/25 12:21	5X for Hg	Mohan	Confirms
37	Q1105-16DL	YE8F2	SAM	02/05/25 12:23	2X for Hg	Mohan	Confirms
38	CCV023	CCV023	CCV	02/05/25 12:28		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134574

Review By	Sarabjit Jaswal	Review On	2/5/2025 10:05:17 PM
Supervise By	Mohan Bera	Supervise On	2/10/2025 12:01:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP84346,MP84347,MP84348,MP84349,MP84350,MP84351
ICV Standard	MP84352
CCV Standard	MP84354
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84353,MP84355,MP84359

39	CCB023	CCB023	CCB	02/05/25 12:30		Mohan	OK
40	Q1105-17DL	YE8F3	SAM	02/05/25 12:52	5X for Hg	Mohan	Confirms
41	CCV024	CCV024	CCV	02/05/25 12:54		Mohan	OK
42	CCB024	CCB024	CCB	02/05/25 12:57		Mohan	OK

ORIGIN ID:MHRA (786) 608-9500
ALLISON HUISA
EA ENGINEERING, SCIENCE & TECH
555 UNIVERSITY AVE
SUITE 182
SACRAMENTO, CA 95825
UNITED STATES US

SHIP DATE: 15JAN25
ACTWGT: 40.00 LB
CAD: 253267502/INET4535

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(908) 728-3152
INV:
PO:
REF: 1518921_3.13.2_030400
DEPT: 2195

1-16-25
9:32
2.1 c

58CJ3/EC17/C6C4

J251024121701uv

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THU - 16 JAN 10:30A
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ACTWGT: 40.00 LB
CAD: 253267503/INET4535

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INV:
PO:
REF: 151892_3.13.2_030400
DEPT: 2195

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9:32
2.8.C

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CAD: 253267503/INET4535

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TO **SOHIL JODHANI**
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284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 728-3152
REF: 1518921_3.13.2_030400
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PO:
DEPT: 2195

1-16-25
9:32
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58CJ3/EC17/C6C4

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SUITE 182
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UNITED STATES US

SHIP DATE: 17JAN25
ACTWGT: 40.00 LB
CAD: 253267503/INET4535

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(908) 728-3152
INV:
PO:
REF: 1518921_3.13.2_030400
DEPT: 2196

58CJ3/EC17/C6C4

J2510241217O1uv

FedEx Express

TRK# 0201 **7714 8859 5553**

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO KBCA

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07092

Dan 1/18/25 10:54 a.c
Q-S-C

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SUITE 182
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UNITED STATES US

SHIP DATE: 17JAN25
ACTWGT: 40.00 LB
CAD: 253267503/INET4535

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
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(908) 728-3152
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PO:
REF: 1518921_3.13.2_030400
DEPT: 2195

58CJ3/EC17/C6C4

FedEx Express

J251024121701uv

TRK# 0201 **7714 8857 3310**

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO KBCA

07092
NJ-US EWR

Ben 1/18/25 1:8-C 10:57

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009

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

Login Summary Report

Order ID :	Q1105	Order Date :	1/18/2025 10:54:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51955	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	1/18/2025 10:54:00 AM	EDD Type :	EPA CLP
Date Sign Off :	1/20/2025 10:12:17 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
Q1105-01	YE8G3	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL		SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12		SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids		Chemtech -SOP	15	02/10/2025	02/10/2025
				pH		9045D	15	02/10/2025	02/10/2025
Q1105-02	YE8G5	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL		SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12		SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids		Chemtech -SOP	15	02/10/2025	02/10/2025
				pH		9045D	15	02/10/2025	02/10/2025
Q1105-03	YE8G6	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL		SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12		SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids		Chemtech -SOP	15	02/10/2025	02/10/2025
				pH		9045D	15	02/10/2025	02/10/2025
Q1105-04	YE8G6D	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL		SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12		SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids		Chemtech -SOP	15	02/10/2025	02/10/2025
Q1105-05	YE8G6S	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL		SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12		SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids		Chemtech -SOP	15	02/10/2025	02/10/2025
Q1105-06	YE8H0	Solid	01/13/2025						
				Mercury		SFAM_HG	15	02/10/2025	02/10/2025

				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-07	YE8H1	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-08	YE8H2	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-09	YE8H3	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-10	YE8H4	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-11	YE8H5	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-12	YE8H6	Solid	01/13/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-13	YE8E9	Solid	01/15/2025					

				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-14	YE8F0	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-15	YE8F1	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-16	YE8F2	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-17	YE8F3	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-18	YE8F4	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-19	YE8F6	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025

Q1105-20	YE8G0	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-21	YE8G1	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025
Q1105-22	YE8G2	Solid	01/15/2025					
				Mercury	SFAM_HG	15	02/10/2025	02/10/2025
				Metals CLP MS FULL	SFAM_MS	15	02/10/2025	02/10/2025
				Metals CLP12	SFAM_AES	15	02/10/2025	02/10/2025
				Percent Solids	Chemtech -SOP	15	02/10/2025	02/10/2025
				pH	9045D	15	02/10/2025	02/10/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166155 **WorkList ID :** 187038 **Department :** Digestion **Date :** 01-21-2025 10:15:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-01	YE8G3	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-02	YE8G5	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-03	YE8G6	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-04	YE8G6D	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-05	YE8G6S	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-06	YE8H0	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-07	YE8H1	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-08	YE8H2	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-09	YE8H3	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-10	YE8H4	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-11	YE8H5	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-12	YE8H6	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-13	YE8E9	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_AES
Q1105-14	YE8F0	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-15	YE8F1	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-16	YE8F2	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-17	YE8F3	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-18	YE8F4	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-19	YE8F6	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-20	YE8G0	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES
Q1105-21	YE8G1	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES

Date/Time 01/21/25 10:40

Raw Sample Received by: SRD. MCA digestion

Raw Sample Relinquished by: CR SM

Date/Time 01/22/25 11:50

Raw Sample Received by: CR SM

Raw Sample Relinquished by: SRD. MCA digestion

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166155 **WorkList ID :** 187038 **Department :** Digestion **Date :** 01-21-2025 10:15:2

1718

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-22	YE8G2	Solid	Metals CLP12	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_AES

Date/Time 01/21/25 10:40

Raw Sample Received by: SRD. met digestion

Raw Sample Relinquished by: CP SM

Date/Time 01/21/25 11:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SRD. met digestion

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166154 **WorkList ID :** 187037 **Department :** Digestion **Date :** 01-21-2025 10:14:0

1719

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-01	YE8G3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-02	YE8G5	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-03	YE8G6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-04	YE8G6D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-05	YE8G6S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-06	YE8H0	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-07	YE8H1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-08	YE8H2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-09	YE8H3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-10	YE8H4	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-11	YE8H5	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-12	YE8H6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-13	YE8E9	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_MS
Q1105-14	YE8F0	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-15	YE8F1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-16	YE8F2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-17	YE8F3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-18	YE8F4	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-19	YE8F6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-20	YE8G0	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS
Q1105-21	YE8G1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS

Date/Time 01/21/25 10:45

Raw Sample Received by: SLB. not digested.

Raw Sample Relinquished by: CP SM

Date/Time 01/21/25 11:50

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SLB. Not digested.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166154 **WorkList ID :** 187037 **Department :** Digestion **Date :** 01-21-2025 10:14:0

1720

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-22	YE8G2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_MS

Date/Time 01/21/25 10:45

Raw Sample Received by: 5128. met digestion

Raw Sample Relinquished by: CP SM

Date/Time 01/21/25 11:50

Raw Sample Received by: CP SM

Raw Sample Relinquished by: 5128. met digestion.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1105 **WorkList ID :** 187465 **Department :** Digestion **Date :** 02-04-2025 14:06:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-01	YE8G3	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-02	YE8G5	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-03	YE8G6	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-04	YE8G6D	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-05	YE8G6S	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-06	YE8H0	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-19	YE8F6	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-20	YE8G0	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-21	YE8G1	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-22	YE8G2	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-13	YE8E9	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-14	YE8F0	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-15	YE8F1	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-16	YE8F2	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-17	YE8F3	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-18	YE8F4	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-07	YE8H1	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/15/2025	SFAM_HG
Q1105-08	YE8H2	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-09	YE8H3	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-10	YE8H4	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG
Q1105-11	YE8H5	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG

17/21

Date/Time 2/5/25 @ 8:37

Raw Sample Received by: MB - Mpx. Lab

Raw Sample Relinquished by: MB - Mpx. Lab

Date/Time 2/5/25 @ 9:35

Raw Sample Received by: MB - Mpx. Lab

Raw Sample Relinquished by: MB - Mpx. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1105 **WorkList ID :** 187465 **Department :** Digestion **Date :** 02-04-2025 14:06:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1105-12	YE8H6	Solid	Mercury	Cool 4 deg C	USEP01	C11	01/13/2025	SFAM_HG

1722

Date/Time 2/5/25 P 8:35

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 2/5/25 AM 9:25

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]